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Metric - Pin Wiper Y36
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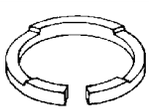
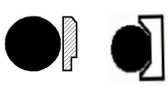
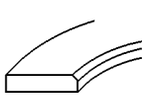
SINGLE ACTING

PROFILE	STYLE		PRESSURE	IMPERIAL	METRIC
	**SA---P** **SM---P**	SINGLE ACTING PISTON SEAL POLYURETHANE	6000 PSI 400 BAR	**B30**	**B1**
	DE	SINGLE ACTINGPISTON SEAL NITRILE RUBBER	150 PSI 10 BAR	**GOLD**	**GOLD**
	**SA---R** **SM---R**	SINGLE ACTING ROD SEAL POLYURETHANE	6000 PSI 400 BAR	**B30**	**B1**
	DI	SINGLE ACTING ROD SEAL NITRILE RUBBER	150 PSI 10 BAR	**GOLD**	**GOLD**
	**SA or SM** **With BRT** **Seal backup**	SINGLE ACTING SEAL WITH **BRT** ANTI **SHOCK LOADING** EXTRUSION BACKUP	6000 PSI 400 BAR	**B30**	**B1**
	**SA or SM**	SINGLE ACTING SEAL POLYURETHANE	6000 PSI 400 BAR	**B30**	**B1**
	SU or UM	SINGLE ACTING SEAL NITRILE RUBBER	150 PSI 10 BAR	**GOLD**	**GOLD**
	**SA---E** **SM---E**	ENERGISED SINGLE ACTING SEAL POLYURETHANE	6,500 PSI 450 BAR	**B30**	**B1**
	**SA---EH**	ENERGISED SINGLE ACTING SEAL POLYMITE ELASTOPLASTIC SUITABLE **MINERAL OIL** AND **PHOSPHATE ESTERS**	10,000 PSI 700 BAR	**B30**	**B1**
	**SA---AER** **SM---AER**	ENERGISED SINGLE ACTING SEAL WITH ANTI EXTRUSION RINGS POLYURETHANE	10,000 PSI 700 BAR	**B30**	**B1**
	**SA---R**	SINGLE ACTING ROD SEAL POLYURETHANE	6000 PSI 400 BAR	**B30**	**B1**
	**SA---RF** **SM---RF**	SINGLE ACTING ROD SEAL NITRILE / FABRIC WITH ANTI EXTRUSION RING	6000 PSI 400 BAR	**B30**	**B1**
	**SA---PW** **SM---PW**	SINGLE ACTING PISTON SEAL NITRILE / FABRIC WITH ANTI EXTRUSION / BEARING RING	6000 PSI 400 BAR	**B30**	**B1**
	**SA---PWK** **SM---PWK**	SINGLE ACTING PISTON SEAL NITRILE / FABRIC WITH ANTI EXTRUSION / BEARING RING WITH KEEPER RING	6000 PSI 400 BAR	**B30**	**B1**
	**SA---F** **SM---F**	SINGLE ACTING SEAL NITRILE / FABRIC	3000 PSI 200 BAR	**B30**	**B1**
	**SA---TRR**	SINGLE ACTING ROD SEAL NITRILE WITH ANTI EXTRUSION RING	3000 PSI	**B30**	

DUTY CYCLE -- PRESSURE -- TEMPERATURE -- SPEED

HARSH OPERATING ENVIRONMENTS CAN GREATLY REDUCE SEAL LIFE.
PRESSURE RATING MAYBE EXCEEDED UNDER LIGHT DUTY, LOW TEMPERATURE AND SPEED .
COMMON EXAMPLE :- HYDRAULIC BOTTLE JACK S OFTEN OPERATE AT 10,000 PSI WITH ONLY AN O-RING AND BACKUP !

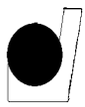
SINGLE ACTING

PROFILE	STYLE		PRESSURE	IMPERIAL	METRIC
	**KYBF**	1 PIECE PISTON WITH BEARING / ANTI EXTRUSION RING	200 BAR		**B48**
	**KYBP**	1 PIECE PISTON WITH BEARING / ANTI EXTRUSION RING	200 BAR		**B48**
	**DRM**	HEAVY DUTY ROD SEAL	10000 PSI 700 BAR	**B30**	**B1**
	**VP** **VPM**	ROD / PISTON VEE PACKING	10000 PSI 700 BAR	**W141**	**W144**
	**FB** **LC**	FABRIC REINFORCED NTRILE CUP LEATHER CUP		**W130** **W129**	
	NC	NITRILE CUP		**GOLD**	**GOLD**
	**WDS / TE**	WATER PUMP SEAL			**W149**
	**WDS** **WVA**	WATER PUMP SEAL			**W149**
	**WVB**	WATER PUMP SEAL			**W149**
		BUFFER SEALS			
	**HBY**	ROD BUFFER RINGS		**W134**	**W137**
	**CS**	HYDRAULIC CUSHION SEAL LIQUID CRYSTAL RESIN			**W133**
		ROD BUFFER RINGS **USE HBT**			
	HBK				
	**HBT /HBP** **SS**	ROD BUFFER RINGS		**W134**	**W137**
	**HBI**	ROD BUFFER RINGS		**W134**	**W137**

WIPER SEALS

PROFILE	STYLE			IMPERIAL	METRIC
	**ASC**	FLEXIBLE / SNAP IN WIPER		**Y1**	
	**WK**	FLEXIBLE / SNAP IN WIPER		**Y1**	
	**DSI**	FLEXIBLE / SNAP IN WIPER			**Y19**
	**H** **DH**	FLEXIBLE / SNAP IN WIPER		**Y1**	**Y23**
	**WY**	HARD NYLON / SNAP IN WIPER		**Y16**	**Y44**
	**D** **PW** **AN**	FLEXIBLE / SNAP IN WIPER		**Y1**	**Y23**
	**WO** **HAT** **PWHH**	FLEXIBLE / SNAP IN WIPER		**Y1**	**Y23**
	**ALWS**	FLEXIBLE / SNAP IN WIPER		**Y1**	
	**PWF**	FLEXIBLE / SNAP IN WIPER			**Y21**
	**KP**	FLEXIBLE / SNAP IN WIPER COMBINED WIPER / ROD SEAL			**GOLD**
	**PPW**	FLEXIBLE EXTERNAL BORE WIPER			**Y45**
	**MMC / DKB**	METAL CASED WIPER		**Y19**	**Y36**
	**MC** **DWI**	METAL CASED WIPER GREASE PIN SEAL WIPER		**Y19**	**Y36**
	**S**	HARD NYLON / SNAP ON WIPER		**Y17**	

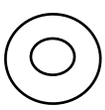
WIPER SEALS

PROFILE	STYLE			IMPERIAL	METRIC
	**CBW**	CONTROL BANK WIPER NYLON / URETHANE			**W100**
	**CB**	CONTROL BANK WIPER / SEAL SPRING ENERGISED LIP NITRILE COATED / STEEL BACK			**W100**
	**MH**	PTFE WIPER ENERGISED WITH AN ORING			**Y23**
	**DELTA**	FLEXIBLE / SNAP IN WIPER		**Y1**	

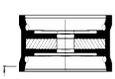
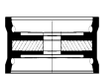
DOUBLE ACTING

PROFILE	STYLE		PRESSURE	IMPERIAL	METRIC
	**DA**	SPLIT PISTON HEAVY DUTY RUBBER SEAL	3000 PSI 200 BAR	**R16**	**R16**
	**DAE**	SPLIT PISTON HEAVY DUTY RUBBER SEAL	10000 PSI 700 BAR	**R13**	**R13**
	**DAL**	SPLIT PISTON HEAVY DUTY RUBBER SEAL WITH BEARING RINGS	10000 PSI 700 BAR	**R17**	**R56**
	**JTP**	1 PIECE PISTON MEDIUM DUTY RUBBER SEAL WITH BEARING RINGS	6000 PSI	**R22**	
	**WDA**	SPLIT PISTON HEAVY DUTY RUBBER SEAL WITH BEARING RINGS	10000 PSI	**R14**	**R56**
	**DAS**	1 Piece Piston - Rubber Seal with Bearing Rings Medium Duty	7350 PSI	**R19**	**R49**
	DMT	2 Piece Piston - Rubber Seal with Bearing Rings Heavy Duty	10,000 PSI		**R56**
	**DS**	1 PIECE PISTON MEDIUM DUTY NITRILE RUBBER SEAL WITH BEARING RINGS	2200 PSI	**R19**	**R49**
	**TRP**	1 PIECE PISTON MEDIUM DUTY RUBBER SEAL WITH BACKUPS	3000 PSI	**R26**	
	**UNI**	1 PIECE PISTON MEDIUM DUTY ENERGISED URETHANE CAP	5000 PSI	**R23**	
	**SPGT**	1 PIECE PISTON HEAVY DUTY RUBBER ENERGISED PTFE CAP WITH BACKUPS	7500 PSI 520 BAR	**R32**	**R68**
	**CSH / TC/LC**	1 PIECE PISTON URETHANE CAP	5000 PSI	**R30/R36**	**R62/R66**
	CCI / CCM		10,000 PSI	**R34**	**R70**
	**CR**	1 PIECE PISTON PTFE CAP	5000 PSI 350 BAR	**R28**	
	SPG				**R62**
	CN	URETHANE CAP		**R31**	
	CPS	CAST IRON PISTON RINGS	10,000 PSI	**R25**	**R71**
	**CRQ**	NITRILE ENERGISED PTFE CAP WITH IMBEDDED QUAD RING	5000 PSI	**R28**	
	**PSP**	1 PIECE PISTON INTERCHANGES WITH TRP	5000 PSI	**R1**	

BEARING RINGS & MISC

PROFILE	STYLE		PRESSURE	IMPERIAL	METRIC
	**BR** **BRM**	BEARING RINGS -- PREFORMED (GLASS / NYLON) (FIBRE / PHENOLIC		**W101**	**W110**
	**BSM**	BRONZE FILLED PTFE FLEXIBLE BEARING STRIP		**W127**	**W127**
	**TWR**	PISTON BEARING RING GLASS FILLED NYLON		**W126**	
	**EZF /** **EZU**	BEARING / BUSH BRONZE LINING PTFE-LEAD OVERLAY STEEL BACKING		**W95**	**W97** **W90**
	**EZX**	BEARING / BUSH ACETAL LINING GREASED BUSH STEEL BACKING		**W99**	**W98**
	**TW**	THRUST WASHERS BRONZE LINING PTFE-LEAD OVERLAY STEEL BACKING			**W89**
		ORINGS etc			
	**QUAD**	NITRILE RUBBER QUAD RING		**W26**	
	**ORINGS**	ORINGS		**W26**	**W26**
	**BU**	BACK UP FOR ORINGS AND QUAD RINGS		**W26**	**W26**

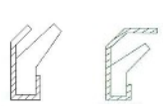
PNEUMATIC

PROFILE	STYLE		PRESSURE	IMPERIAL	METRIC
	**DE**	SINGLE ACTING PISTON SEAL NITRILE RUBBER	150 PSI 10 BAR	**GD30**	**GD15**
	**DI**	SINGLE ACTING ROD SEAL NITRILE RUBBER	150 PSI 10 BAR	**GD30**	**GD15**
	**SU** **UM**	SINGLE ACTING ROD or PISTON SEAL NITRILE RUBBER	150 PSI 10 BAR	**GD30**	**GD15**
	**TRP**	DOUBLE ACTING PISTON SEAL NITRILE RUBBER WITH BACKUPS	3000 PSI	**R25**	
	**NC**	SINGLE ACTING PISTON SEAL NITRILE RUBBER	150 PSI 10 BAR	**GD4**	**GD4**
	**DAP**	DOUBLE ACTING PISTON SEAL NITRILE RUBBER COVERED STEEL	10 BAR		**GD2**
	**DAPS**	DOUBLE ACTING PISTON SEAL **SPRING ENERGIZED LIPS** NITRILE RUBBER COVERED STEEL	60 BAR		**GD2**
	**KPS**	COMBINED WIPER / ROD SEAL NITRILE COVERED STEEL RETAINED WITH METAL RING / CIRCLIP	16 BAR		**GD10**
	**KPT**	COMBINED WIPER / ROD SEAL TWO PIECE --NITRILE SEAL -NYLON WIPER / BEARING	16 BAR		**GD10**
	**PDU**	COMBINED WIPER / ROD SEAL NITRILE RUBBER	10 BAR		**GD12**
	**KP**	COMBINED WIPER / ROD SEAL FLEXIBLE / SNAP IN URETHANE	16 BAR		**GD10**
	**NS**	ROD SEAL / WIPER / BEARING URETHANE SEAL / PRESS FIT ALUMINUM HOUSING			**GD14**
	**PC**	CUSHION SEAL NITRILE // URETHANE		**GD38**	**GD38**
	**PB**	CUSHION SEAL NITRILE // URETHANE			**GD37**

PNEUMATIC

PROFILE	STYLE		PRESSURE	IMPERIAL	METRIC
	**DZ**	DOUBLE ACTING PISTON SEAL STRETCH FIT OVER PISTON NITRILE RUBBER	16 BAR		**GD7**
	**PZ**	DOUBLE ACTING PISTON SEAL STRETCH FIT OVER PISTON NITRILE RUBBER	12 BAR		**GD6**
	**PSD**	DOUBLE ACTING PISTON SEAL STRETCH FIT OVER PISTON NITRILE RUBBER	12 BAR		**GD6**
	**PSD**	DOUBLE ACTING PISTON SEAL STRETCH FIT OVER PISTON NITRILE RUBBER	12 BAR		**GD6**
	**HAT**	SINGLE ACTING SEAL / DIRT EXCLUDER / WIPER NITRILE RUBBER	12 BAR	**GD13**	
	**DZG**	DOUBLE ACTING PNEUMATIC PISTON SEAL POLY URETHANE RUBBER	10 BAR		**GD8**
	**DZL**	DOUBLE ACTING PNEUMATIC PISTON SEAL POLYURETHANE RUBBER	10 BAR		
		MISC			
	**COVER**	STATIC ORING / ORING & BACKUP HIGH PERFORMANCE SUBSTITUTE.		**W146**	**W146**
	**FLARETITE**	JIC TUBE FITTING SEAL		**G53**	
	**HD** **CD**	D RINGS CATERPILLAR & HITACHI		**G55**	
HEAVY MACHINERY KITS		CATERPILLAR - DAEWOO - FURUKAWA - HIAB - HITACHI - HYUNDAI - HYVA - KATO - KOBELCO - KOMATSU - MITSUBISHI - NPK - PALFINGER - SOOSAN - SUMITOMO - VOLVO		**GREEN**	**GREEN**
		CABLE TIES			**G54**

FASTENERS

PROFILE	STYLE		[redacted]	[redacted]	[redacted]
	**D1400**	INTERNAL CIRCLIP			**V88**
	**D1300**	EXTERNAL CIRCLIP			**V87**
	**D1500** **N1500**	SHAFT FASTENER E CLIP			**V86**
	**N1465**	SHAFT FASTENER PUSH ON			**V86**
	**SP**	ROLL PIN SPRING PIN			**V85**
		ROTATING SHAFT SEALS			
	**EC**	END CAPS			**V80**
	**RS**	ROTARY OIL SEAL		**V2**	**V14**
	**VS** **VE** **VL** **VA**	TYPICAL PROFILE OF VEE SEAL FOR ROTATING SHAFT ZERO PRESSURE		**V82**	**V82**
	**WP**	WEAR PRO SHAFT REPAIR KIT			**V89**
	**GS**	GAMMA SEAL RB / 9RB			**V79**

O-RINGS

The World's Universal Sealing Device



MATERIALS

*	**NBR**	Nitrile
*	**HNBR**	Hydrogenated Nitrile
*	**FPM**	Fluoro
	FFPM	Perfluoro
*	**EPDM**	Ethylene Propylene
*	**VMQ**	Silicone
*	**FVMQ**	Fluorosilicone
*	**CR**	Chloroprene
*	**AU**	Polyester Urethane
*	**EU**	Polyether Urethane
	NR	Natural
	ACM	Acrylate
	SBR	Strene Butadiene
	ECO	Ethylene Oxide Epichlorhydrine
	CSM	Chlorosulfonated Polyethylene
	BR	Butadiene
	IR	Isoprene
	IIR	Butyl
*	**FEP**	Encapsulated FEP ORings
*	**PTFE**	PTFE ORings

Also: Glued and Vulcanised ORings, Quad Rings, Backup Rings

** Denotes large ex stock size range. Other materials produced to order.*

ALL ORINGS ARE MANUFACTURED TO ONE OF THE FOLLOWING RELEVANT STANDARDS:

MANUFACTURED TO: ISO 9001 / QS9000 CERTIFIED

STANDARD	X SECTION mm
Metric DIN 3771	1.0/1.5/2.0/2.5/3.0/3.5/4.0/4.5/5.0/5.5/6.0/7.0/8.0/10.0/12.0
ISO 3601/1	1.80/2.65/3.55/5.30/7.0
French Norm	1.9/2.7/3.6/5.33/6.99
Japanese JIS B 2401	1.9/2.4/3.1/3.5/5.7/8.4
American AS 568 A	1.78/2.62/3.53/5.33/7.0
British BS 1806	1.78/2.62/3.53/5.33/7.0
American Norm	1.02/1.42/1.63/1.83/1.98
AS 568 A-range 990	2.08/2.20/2.46/2.95/3.00
Swedish SMS 1586	1.6/2.4/3.0/5.7/8.4

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ELASTOMERS

NITRILE (NBR)

Trade Names: Chemigum, Hycar, Krynac, Nysyn, Paracil, Perbunan
Description: Most common and economical material. Good resistance to petroleum based oil, fuels, silicone grease, water and alcohols. Low compression set, high tensile strength, high abrasion resistance.
Temperature range: (standard industrial compound) -40°C to +120°C
Limitations: Acetone, MEK, Chlorinated and nitro hydrocarbons, strong acids, brake fluid, direct sunlight

FLUOROCARBON (FKM)

Trade Names: Viton, Fluorel, Technoflon
Description: Combines high temperature with outstanding chemical resistance. The ideal universal compound - but is expensive.
Temperature range: (standard industrial compound) -28°C to +200°C
Limitations: Low temperature flexibility, ketones, esters, ethers, nitro hydrocarbons.

ETHYLENE - PROPYLENE (EPDM)

Trade Names: Nordel, Epcar, Vistalon, Epsyn, Royalene
Description: Excellent outdoor weather resistance, ozone, auto brake systems and water. Good resistance to chemicals unsuited to NITRILE - ketones, MEK, Acetone, steam
Temperature range: (standard industrial compound) -50°C to +120°C

POLYURETHANE (PU) (AU)

Trade Names: Too many to name
Description: Outstanding abrasion resistance and tensile strength e.g. sealing high hydraulic pressures. Chemical compatibility similar to NITRILE.
Temperature range: (standard industrial compound) -50°C to +80°C
Limitations: Similar to NITRILE.

TEFLON (PTFE)

Trade Names: Teflon
Description: PTFE is inert to virtually all industrial chemicals - even at elevated temperatures.
Temperature range: (standard industrial compound) -180°C to +230°C
Limitations: Poor elastic memory, poor tear resistance, cold flows over time.

SILICONE (S) (MQ)

Trade Names: Baysoline, Silastic, Silplus
Description: Low compression set with high temperature range. Resistance to fungus, sunlight. Primarily used in static situations with high heat.
Temperature range: (standard industrial compound) -70°C to +200°C
Limitations: Low abrasion and tear resistance.

KALREZ (FFKM)

Trade Names: Kalrez
Description: Combines toughness of an elastomer with chemical inertness of PTFE at very high temperatures. Less likely to cold flow than PTFE.
Temperature range: (standard industrial compound) -35°C to +310°C
Limitations: Non standard oring grooves due to high coefficient of thermal expansion. Extremely expensive.

CHEMICAL RESISTANCE

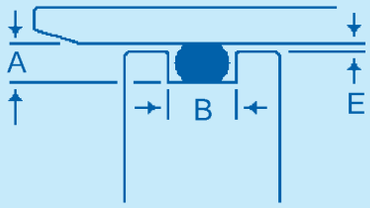
Laboratory values only of **typical** material compounds at **ambient** temperature.
Test with sample before use **-** every application is unique.

NBR - Nitrile
PTFE - Polytetrafluoro Ethlene (Teflon)
PU - Polyurethane
EPDM - Ethylene Propylene
POM - Acetal
FKM - Fluorocarbon (Viton)
VMQ - Silicone

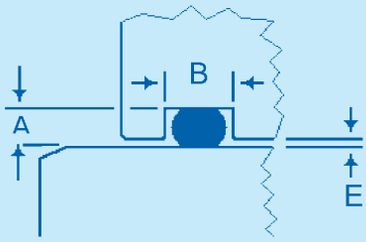
1 = Optimum Compatibilty **2** = Compatiable **3** = Not Compatiable

FLUID	NBR	FKM	EPDM	POM	PU	PTFE	VMQ
Ammonia , Liquid , Anhydrous	2	3	1	-	-	1	2
Ammonia, Gas, Colds	1	3	1	-	-	1	1
ASTM Oil #1	1	1	3	1	1	1	1
Benzene	3	1	3	3	-	1	3
Brake Fluid	3	3	1	-	-	1	3
Ethyl Alcohol	1	1	3	2	3	1	2
Fuel Oil	2	1	3	2	-	1	3
Gasoline	2	1	3	2	-	1	3
Glycerine	1	1	1	1	3	1	1
Glycols	1	1	1	1	-	1	1
Kerosene	2	1	3	1	2	1	3
Methyl Ethyl Ketone	3	3	2	1	-	1	3
Mineral Grease	1	1	3	1	1	1	2
Mineral Oil	1	1	3	1	1	1	2
Ozone	3	1	1	-	1	1	1
Paraffin	1	1	-	1	1	1	2
Petroleum Oil	1	1	3	1	-	1	3
Salt Water	1	1	1	1	2	1	1
Soap Solution	1	1	1	1	-	1	1
Sodium Hydroxide	2	2	1	-	3	1	1
Steam	3	3	1	1	3	1	3
Toluene	3	1	3	3	-	1	3
Vegetable Oil	1	1	3	1	-	1	1
Water	1	1	1	1	2	1	1
Hot Water	2	1	1	-	3	1	1
Water Glycol	1	1	1	1	2	1	1
Water Oil Emulsions	1	1	3	1	2	1	1

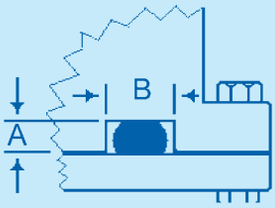
O-RING MACHINING



PISTON - DYNAMIC



GLAND - DYNAMIC



FACE - STATIC

GROOVE SIZES DYNAMIC APPLICATIONS HYDRAULICS		
CROSS SEC. mm	A mm	B mm
1	0.9	1.3
1.5	1.3	1.9
1.6	1.4	2
1.78	1.5	2.3
1.9	1.6	2.4
2	1.7	2.4
2.4	2.1	2.9
2.5	2.2	3
2.62	2.3	3.1
2.7	2.4	3.2
3	2.6	3.6
3.5	3.1	4.2
3.53	3.1	4.2
3.6	3.2	4.3
4	3.5	4.8
4.5	4	5.4
5	4.45	6
5.33	4.7	6.4
5.5	4.95	6.6
5.7	5.1	6.9
6	5.4	7.2
6.5	5.8	7.8
6.99	6.3	8.4
7	6.3	8.4
7.5	6.7	9
8	7.2	9.6
8.4	7.6	10.1
8.5	7.7	10.2
9	8.2	10.8
9.5	8.6	11.4
10	9.1	12

GROOVE SIZES DYNAMIC APPLICATIONS PNEUMATICS		
CROSS SEC. mm	A mm	B mm
1	0.95	1.3
1.5	1.35	1.9
1.6	1.45	2
1.78	1.55	2.3
1.9	1.75	2.4
2	1.8	2.4
2.4	2.15	2.9
2.5	2.25	3
2.62	2.35	3.1
2.7	2.45	3.2
3	2.75	3.6
3.5	3.25	4.2
3.53	3.25	4.2
3.6	3.35	4.3
4	3.7	4.8
4.5	4.2	5.4
5	4.65	6
5.33	4.95	6.4
5.5	5.15	6.6
5.7	5.35	6.9
6	5.65	7.2
6.5	6.1	7.8
6.99	6.6	8.4
7	6.6	8.4
7.5	7.1	9
8	7.6	9.6
8.4	7.9	10.1
8.5	8	10.2
9	8.5	10.8
9.5	9	11.4
10	9.5	12

STATIC APPLICATIONS		
CROSS SEC. mm	A mm	B mm
1	0.8	1.3
1.5	1.1	1.9
1.6	1.2	2.1
1.78	1.3	2.3
1.9	1.4	2.4
2	1.5	2.6
2.4	1.8	3.1
2.5	1.9	3.2
2.62	2	3.4
2.7	2.1	3.5
3	2.3	3.9
3.5	2.7	4.5
3.53	2.7	4.5
3.6	2.8	4.7
4	3.15	5.2
4.5	3.6	5.8
5	4	6.5
5.33	4.3	6.9
5.5	4.5	7.1
5.7	4.65	7.4
6	4.95	7.8
6.5	5.4	8.4
6.99	5.85	9.1
7	5.85	9.1
7.5	6.3	9.7
8	6.75	10.4
8.4	7.15	10.9
8.5	7.25	11
9	7.7	11.7
9.5	8.2	12.3
10	8.65	13

When using back-up rings " B " should be increased by width of the back-up ring.

ORING X SECTION	BACKUP THICKNESS (WIDTH)
up to 1.6mm	1.0mm
1.78 to3.53mm	1.4mm
4 to 6mm	1.7mm
6.99 to 8.4mm	2.5mm

	PRESSURE (PSI)	100	200	300	400	600	800	1000	1500	2000	3000	4000	5000	6000
E	WITH BACKUP (inch)	.036"	.032"	.028"	.026"	.024"	.021"	.018"	.014"	.010"	.006"	.004"	.003"	.002"
E	WITHOUT BACKUP (inch)	.031"	.025"	.022"	.018"	.014"	.010"	.007"	.004"	.002"				

SiL SEAL INNOVATIONS

SEAL INNOVATIONS

IMPERIAL ORING SIZE GUIDE

ID	CROSS SECTION				
	1/16	3/32	1/8	3/16	1/4
	1.78	2.62	3.53	5.33	6.99
1/32	001				
3/64	002				
1/16	003	102			
5/64	004				
3/32	005	103			
1/8	006	104			
5/32	007	105			
3/16	008	106	201		
7/32	009	107			
1/4	010	108	202		
5/16	011	109	203		
3/8	012	110	204		
7/16	013	111	205	309	
1/2	014	112	206	310	
9/16	015	113	207	311	
5/8	016	114	208	312	
11/16	017	115	209	313	
3/4	018	116	210	314	
13/16	019	117	211	315	
7/8	020	118	212	316	
15/16	021	119	213	317	
1	022	120	214	318	
1-1/16	023	121	215	319	
1-1/8	024	122	216	320	
1-3/16	025	123	217	321	
1-1/4	026	124	218	322	400
1-5/16	027	125	219	323	
1-3/8	028	126	220	324	
1-7/16	517	127	221		
1-1/2	029	128	222	325	401
1-9/16	519	129	824		
1-5/8	030	130	223	326	402
1-11/16		131	826		
1-3/4	031	132	224	327	403
1-13/16		133	828		
1-7/8	032	134	225	328	404
1-15/16		135	830		
2	033	136	226	329	405
2-1/16		137	832		
2-1/8	034	138	227	330	406
2-3/16		139	834		

ID	CROSS SECTION				
	1/16	3/32	1/8	3/16	1/4
	1.78	2.62	3.53	5.33	6.99
2-1/4	035	140	228	331	407
2-5/16		141	836		
2-3/8	036	142	229	332	408
2-7/16		143	838		
2-1/2	037	144	230	333	409
2-9/16		145	840		
2-5/8	038	146	231	334	410
2-11/16		147	842		
2-3/4	039	148	232	335	411
2-13/16		149	844		
2-7/8	040	150	233	336	412
3	041	151	234	337	413
3-1/8	532		235	338	414
3-1/4	042	152	236	339	415
3-3/8	534		237	340	416
3-1/2	043	153	238	341	417
3-5/8	536		239	342	418
3-3/4	044	154	240	343	419
3-7/8	538		241	344	420
4	045	155	242	345	421
4-1/8	540		243	346	422
4-1/4	046	156	244	347	423
4-3/8	542		245	348	424
4-1/2	047	157	246	349	425
4-5/8	544		247	350	426
4-3/4	048	158	248	351	427
4-7/8	546		249	352	428
5	049	159	250	353	429
5-1/8	548		251	354	430
5-1/4	050	160	252	355	431
5-3/8	550		253	356	432
5-1/2	551	161	254	357	433
5-5/8	552		255	358	434
5-3/4	553	162	256	359	435
5-7/8	554		257	360	436
6	555	163	258	361	437
6-1/4	557	164	259	362	438
6-1/2	559	165	260	363	439
6-3/4	561	166	261	364	440
7		167	262	365	441
7-1/4		168	263	366	442

ID	CROSS SECTION			
	3/32	1/8	3/16	1/4
	2.62	3.53	5.33	6.99
7-1/2	169	264	367	443
7-3/4	170	265	368	444
8	171	266	369	445
8-1/4	172	267	370	445A
8-1/2	173	268	371	446
8-3/4	174	269	372	446A
9	175	270	373	447
9-1/4	176	271	374	447A
9-1/2	177	272	375	448
9-3/4	178	273	376	448A
10		274	377	449
10-1/4				449A
10-1/2		275	378	450
10-3/4				450A
11		276	379	451
11-1/4				451A
11-1/2		277	380	452
11-3/4				452A
12		278	381	453
12-1/2				454
13		279	382	455
13-1/2				456
14		280	383	457
14-1/2				458
15		281	384	459
15-1/2				460
16		282	385	461
16-1/2				462
17		283	386	463
17-1/2				464
18		284	387	465
18-1/2				466
19			388	467
19-1/2				468
20			389	469
21			390	470
22			391	471
23			392	472
24			393	473
25			394	474
26			395	475

IMPERIAL ORINGS

	NOMINAL INCHES			ACTUAL MILLIMETRES		
Part#	ID	OD	X SECTION	ID	OD	X SECTION
BS 001	1/32	3/32	-	0.74	2.22	1.02
BS 606	5/64	9/64	-	1.78	3.82	1.02
BS 607	7/64	11/64	-	2.54	4.58	1.02
BS 002	3/64	0.130	-	1.07	3.61	1.27
BS 003	1/16	11/64	-	1.42	4.46	1.52
BS 004	5/64	13/16	1/16	1.78	5.34	1.78
BS 005	7/64	15/64	1/16	2.57	6.13	1.78
BS 006	1/8	1/4	1/16	2.9	6.46	1.78
BS 801	9/64	17/64	1/16	3.18	6.73	1.78
BS 007	5/32	9/32	1/16	3.68	7.24	1.78
BS 008	3/16	5/16	1/16	4.47	8.03	1.78
BS 802	13/64	21/64	1/16	4.75	8.31	1.78
BS 009	7/32	11/32	1/16	5.28	8.84	1.78
BS 010	1/4	3/8	1/16	6.07	9.63	1.78
BS 803	17/64	25/64	1/16	6.35	9.91	1.78
BS 610	9/32	13/32	1/16	6.75	10.31	1.78
BS 011	5/16	7/16	1/16	7.65	11.21	1.78
BS 804	21/64	29/64	1/16	7.95	11.51	1.78
BS 611	11/32	15/32	1/16	8.73	12.29	1.78
BS 012	3/8	1/2	1/16	9.25	12.81	1.78
BS 013	7/16	9/16	1/16	10.82	14.38	1.78
BS 806	29/64	37/64	1/16	11.1	14.66	1.78
BS 014	1/2	5/8	1/16	12.42	15.98	1.78
BS 015	9/16	11/16	1/16	14	17.56	1.78
BS 016	5/8	3/4	1/16	15.6	19.16	1.78
BS 017	11/16	13/16	1/16	17.17	20.73	1.78
BS 018	3/4	7/8	1/16	18.77	22.33	1.78
BS 019	13/16	15/16	1/16	20.35	23.91	1.78
BS 020	7/8	1	1/16	21.95	25.51	1.78
BS 021	15/16	1.1/16	1/16	23.52	27.08	1.78
BS 022	1	1.1/8	1/16	25.12	28.68	1.78
BS 023	1.1/16	1.3/16	1/16	26.7	30.26	1.78
BS 024	1.1/8	1.1/4	1/16	28.3	31.86	1.78
BS 025	1.3/16	1.5/16	1/16	29.87	33.43	1.78
BS 026	1.1/4	1.3/8	1/16	31.47	35.03	1.78
BS 027	1.5/16	1.7/16	1/16	33.05	36.61	1.78
BS 028	1.3/8	1.1/2	1/16	34.65	38.21	1.78
BS 517	1.7/16	1.9/16	1/16	36.27	39.83	1.78
BS 029	1.1/2	1.5/8	1/16	37.82	41.38	1.78
BS 519	1.9/16	1.11/16	1/16	39.45	43.01	1.78
BS 030	1.5/8	1.3/4	1/16	41	44.56	1.78
BS 031	1.3/4	1.7/8	1/16	44.17	47.73	1.78
BS 032	1.7/8	2	1/16	47.37	50.93	1.78
BS 033	2	2.1/8	1/16	50.52	54.08	1.78
BS 034	2.1/8	2.1/4	1/16	53.67	57.23	1.78
BS 035	2.1/4	2.3/8	1/16	56.87	60.43	1.78
BS 036	2.3/8	2.1/2	1/16	60.05	63.61	1.78
BS 037	2.1/2	2.5/8	1/16	63.22	66.78	1.78
BS 038	2.5/8	2.3/4	1/16	66.4	69.96	1.78
BS 039	2.3/4	2.7/8	1/16	69.57	73.13	1.78
BS 040	2.7/8	3	1/16	72.75	76.31	1.78

IMPERIAL ORINGS

	NOMINAL INCHES			ACTUAL MILLIMETRES		
Part#	ID	OD	X SECTION	ID	OD	X SECTION
BS 041	3	3.1/8	1/16	75.92	79.48	1.78
BS 532	3.1/8	3.1/4	1/16	79	82.56	1.78
BS 042	3.1/4	3.3/8	1/16	82.27	85.83	1.78
BS 534	3.3/8	3.1/2	1/16	85.34	88.90	1.78
BS 043	3.1/2	3.5/8	1/16	88.62	92.18	1.78
BS 536	3.5/8	3.3/4	1/16	91.69	95.25	1.78
BS 044	3.3/4	3.7/8	1/16	94.97	98.53	1.78
BS 538	3.7/8	4	1/16	98.05	101.61	1.78
BS 045	4	4.1/8	1/16	101.34	104.90	1.78
BS 540	4.1/8	4.1/4	1/16	104.4	107.96	1.78
BS 046	4.1/4	4.3/8	1/16	107.7	111.26	1.78
BS 542	4.3/8	4.1/2	1/16	110.74	114.30	1.78
BS 047	4.1/2	4.5/8	1/16	114	117.56	1.78
BS 544	4.5/8	4.3/4	1/16	117.1	120.66	1.78
BS 048	4.3/4	4.7/8	1/16	120.4	123.96	1.78
BS 546	4.7/8	5	1/16	123.44	127.00	1.78
BS 049	5	5.1/8	1/16	126.72	130.32	1.78
BS 548	5.1/8	5.1/4	1/16	129.4	132.96	1.78
BS 050	5.1/4	5.3/8	1/16	133.07	136.63	1.78
BS 550	5.3/8	5.1/2	1/16	135.76	139.32	1.78
BS 551	5.1/2	5.5/8	1/16	138.94	142.50	1.78
BS 552	5.5/8	5.3/4	1/16	142.11	145.67	1.78
BS 553	5.3/4	5.7/8	1/16	145.29	148.85	1.78
BS 554	5.7/8	6	1/16	148.46	152.02	1.78
BS 555	6	6.1/8	1/16	151.64	155.20	1.78
BS 556	6.1/8	6.1/4	1/16	154.81	158.37	1.78
BS 557	6.1/4	6.3/8	1/16	158	161.56	1.78
BS 558	6.3/8	6.1/2	1/16	161.16	164.72	1.78
BS 559	6.1/2	6.5/8	1/16	164.34	167.90	1.78
BS 560	6.5/8	6.3/4	1/16	167.51	171.07	1.78
BS 561	6.3/4	6.7/8	1/16	170.69	174.25	1.78
BS 562	6.7/8	7	1/16	173.87	177.43	1.78
BS 102	1/16	1/4	3/32	1.24	6.48	2.62
BS 103	3/32	9/32	3/32	2.06	7.30	2.62
BS 104	1/8	5/16	3/32	2.84	8.08	2.62
BS 105	5/32	11/32	3/32	3.63	8.87	2.62
BS 106	3/16	3/8	3/32	4.42	9.66	2.62
BS 107	7/32	13/32	3/32	5.23	10.47	2.62
BS 108	1/4	7/16	3/32	6.02	11.26	2.62
BS 109	5/16	1/2	3/32	7.59	12.83	2.62
BS 110	3/8	9/16	3/32	9.19	14.43	2.62
BS 613	13/32	19/32	3/32	9.92	15.16	2.62
BS 111	7/16	5/8	3/32	10.77	16.01	2.62
BS 614	15/32	21/32	3/32	11.91	17.15	2.62
BS 112	1/2	11/16	3/32	12.37	17.61	2.62
BS 807			3/32	12.7	17.94	2.62
BS 615	33/64	45/64	3/32	13.1	18.34	2.62
BS 113	9/16	3/4	3/32	13.94	19.18	2.62
BS 616	19/32	25/32	3/32	15.08	20.32	2.62
BS 114	5/8	13/16	3/32	15.54	20.78	2.62
BS 809	41/64	53/64	3/32	15.88	21.12	2.62

IMPERIAL ORINGS

	NOMINAL INCHES			ACTUAL MILLIMETRES		
Part#	ID	OD	X SECTION	ID	OD	X SECTION
BS 115	11/16	7/8	3/32	17.12	22.36	2.62
BS 810	45/64	57/64	3/32	17.45	22.69	2.62
BS 617	23/32	29/32	3/32	17.86	23.10	2.62
BS 116	3/4	15/16	3/32	18.72	23.96	2.62
BS 117	13/16	1	3/32	20.29	25.53	2.62
BS 812	53/64	1.1/64	3/32	20.64	25.88	2.62
BS 118	7/8	1.1/16	3/32	21.89	27.13	2.62
BS 813	57/64	1.5/64	3/32	22.22	27.46	2.62
BS 119	15/16	1.1/8	3/32	23.47	28.71	2.62
BS 814	61/64	1.9/64	3/32	23.81	29.05	2.62
BS 120	1	1.3/16	3/32	25.07	30.31	2.62
BS 121	1.1/16	1.1/4	3/32	26.64	31.88	2.62
BS 122	1.1/8	1.5/16	3/32	28.24	33.48	2.62
BS 123	1.3/16	1.3/8	3/32	29.82	35.06	2.62
BS 124	1.1/4	1.7/16	3/32	31.42	36.66	2.62
BS 125	1.5/16	1.1/2	3/32	32.99	38.23	2.62
BS 126	1.3/8	1.9/16	3/32	34.59	39.83	2.62
BS 127	1.7/16	1.5/8	3/32	36.17	41.41	2.62
BS 128	1.1/2	1.11/16	3/32	37.77	43.01	2.62
BS 129	1.9/16	1.3/4	3/32	39.34	44.58	2.62
BS 130	1.5/8	1.13/16	3/32	40.94	46.18	2.62
BS 131	1.11/16	1.7/8	3/32	42.52	47.76	2.62
BS 132	1.3/4	1.15/16	3/32	44.12	49.36	2.62
BS 133	1.13/16	2	3/32	45.69	50.93	2.62
BS 134	1.7/8	2.1/16	3/32	47.29	52.53	2.62
BS 135	1.15/16	2.1/8	3/32	48.9	54.14	2.62
BS 136	2	2.3/16	3/32	50.47	55.71	2.62
BS 137	2.1/16	2.1/4	3/32	52.07	57.31	2.62
BS 138	2.1/8	2.5/16	3/32	53.64	58.88	2.62
BS 139	2.3/16	2.3/8	3/32	55.25	60.49	2.62
BS 140	2.1/4	2.7/16	3/32	56.82	62.06	2.62
BS 141	2.5/16	2.1/2	3/32	58.42	63.66	2.62
BS 142	2.3/8	2.9/16	3/32	60	65.24	2.62
BS 143	2.7/16	2.5/8	3/32	61.6	66.84	2.62
BS 144	2.1/2	2.11/16	3/32	63.17	68.41	2.62
BS 145	2.9/16	2.3/4	3/32	64.77	70.01	2.62
BS 146	2.5/8	2.13/16	3/32	66.34	71.58	2.62
BS 147	2.11/16	2.7/8	3/32	67.95	73.19	2.62
BS 148	2.3/4	2.15/16	3/32	69.52	74.76	2.62
BS 149	2.13/16	3	3/32	71.12	76.36	2.62
BS 150	2.7/8	3.1/16	3/32	72.69	77.93	2.62
BS 640	2.15/16	3.1/8	3/32	74.3	79.54	2.62
BS 151	3	3.3/16	3/32	75.87	81.11	2.62
BS 641	3.1/16	3.1/4	3/32	77.5	82.74	2.62
BS 642	3.3/16	3.3/8	3/32	80.6	85.84	2.62
BS 152	3.1/4	3.7/16	3/32	82.22	87.46	2.62
BS 643	3.5/16	3.1/2	3/32	83.8	89.04	2.62
BS 153	3.1/2	3.11/16	3/32	88.57	93.81	2.62
BS 154	3.3/4	3.15/16	3/32	94.92	100.16	2.62
BS 155	4	4.3/16	3/32	101.27	106.51	2.62
BS 156	4.1/4	4.7/16	3/32	107.62	112.86	2.62

IMPERIAL ORINGS

	NOMINAL INCHES			ACTUAL MILLIMETRES		
Part#	ID	OD	X SECTION	ID	OD	X SECTION
BS 157	4.1/2	4.11/16	3/32	113.97	119.21	2.62
BS 158	4.3/4	4.15/16	3/32	120.32	125.56	2.62
BS 159	5	5.3/16	3/32	126.67	131.91	2.62
BS 160	5.1/4	5.7/16	3/32	133	138.24	2.62
BS 161	5.1/2	5.11/16	3/32	139.37	144.61	2.62
BS 162	5.3/4	5.15/16	3/32	145.72	150.96	2.62
BS 163	6	6.3/16	3/32	152.07	157.31	2.62
BS 164	6.1/4	6.7/16	3/32	158.42	163.66	2.62
BS 165	6.1/2	6.11/16	3/32	164.77	170.01	2.62
BS 166	6.3/4	6.15/16	3/32	171.12	176.36	2.62
BS 167	7	7.3/16	3/32	177.47	182.71	2.62
BS 168	7.1/4	7.7/16	3/32	183.82	189.06	2.62
BS 169	7.1/2	7.11/16	3/32	190.17	195.41	2.62
BS 170	7.3/4	7.15/16	3/32	196.52	201.76	2.62
BS 171	8	8.3/16	3/32	202.87	208.11	2.62
BS 172	8.1/4	8.7/16	3/32	209.22	214.46	2.62
BS 173	8.1/2	8.11/16	3/32	215.57	220.81	2.62
BS 174	8.3/4	8.15.16	3/32	221.92	227.16	2.62
BS 175	9	9.3/16	3/32	228.27	233.51	2.62
BS 176	9.1/4	9.7/16	3/32	234.62	239.86	2.62
BS 177	9.1/2	9.11/16	3/32	240.97	246.21	2.62
BS 178	9.3/4	9.15/16	3/32	247.32	252.56	2.62
BS 201	3/16	7/16	1/8	4.34	11.40	3.53
BS 202	1/4	1/2	1/8	5.94	13.00	3.53
BS 203	5/16	9/16	1/8	7.52	14.58	3.53
BS 204	3/8	5/8	1/8	9.12	16.18	3.53
BS 205	7/16	11/16	1/8	10.69	17.75	3.53
BS 206	1/2	3/4	1/8	12.29	19.35	3.53
BS 207	9/16	13/16	1/8	13.87	20.93	3.53
BS 208	5/8	7/8	1/8	15.47	22.53	3.53
BS 209	11/16	15/16	1/8	17.04	24.10	3.53
BS 210	3/4	1	1/8	18.64	25.70	3.53
BS 211	13/16	1.1/16	1/8	20.22	27.28	3.53
BS 212	7/8	1.1/8	1/8	21.82	28.88	3.53
BS 213	15/16	1.3/16	1/8	23.4	30.46	3.53
BS 214	1	1.1/4	1/8	24.99	32.05	3.53
BS 618	1.1/32	1.9/32	1/8	25.8	32.86	3.53
BS 215	1.1/16	1.5/16	1/8	26.58	33.64	3.53
BS 216	1.1/8	1.3/8	1/8	28.17	35.23	3.53
BS 217	1.3/16	1.7/16	1/8	29.75	36.81	3.53
BS 218	1.1/4	1.1/2	1/8	31.35	38.41	3.53
BS 219	1.5/16	1.9/16	1/8	32.92	39.98	3.53
BS 220	1.3/8	1.5/8	1/8	34.52	41.58	3.53
BS 221	1.7/16	1.11/16	1/8	36.09	43.15	3.53
BS 222	1.1/2	1.3/4	1/8	37.7	44.76	3.53
BS 824	1.9/16	1.13/16	1/8	39.69	46.75	3.53
BS 223	1.5/8	1.7/8	1/8	40.87	47.93	3.53
BS 825			1/8	41.28	48.34	3.53
BS 826	1.11/16	1.15/16	1/8	42.86	49.92	3.53
BS 224	1.3/4	2	1/8	44.04	51.10	3.53
BS 827			1/8	44.45	51.51	3.53

IMPERIAL ORINGS

	NOMINAL INCHES			ACTUAL MILLIMETRES		
Part#	ID	OD	X SECTION	ID	OD	X SECTION
BS 828	1.13/16	2.1/16	1/8	46.04	53.10	3.53
BS 225	1.7/8	2.1/8	1/8	47.22	54.28	3.53
BS 829			1/8	47.62	54.68	3.53
BS 830	1.15/16	2.3/16	1/8	49.2	56.26	3.53
BS 226	2	2.1/4	1/8	50.39	57.45	3.53
BS 831			1/8	50.8	57.86	3.53
BS 832	2.1/6	2.5/16	1/8	52.4	59.46	3.53
BS 227	2.1/8	2.3/8	1/8	53.57	60.63	3.53
BS 833			1/8	53.98	61.04	3.53
BS 834	2.3/16	2.7/16	1/8	55.56	62.62	3.53
BS 228	2.1/4	2.1/2	1/8	56.74	63.80	3.53
BS 835			1/8	57.15	64.21	3.53
BS 836	2.5/16	2.9/16	1/8	58.74	65.80	3.53
BS 229	2.3/8	2.5/8	1/8	59.92	66.98	3.53
BS 837			1/8	60.33	67.39	3.53
BS 838	2.7/16	2.11/16	1/8	61.9	68.96	3.53
BS 230	2.1/2	2.3/4	1/8	63.09	70.15	3.53
BS 839			1/8	63.5	70.56	3.53
BS 840	2.9/16	2.13/16	1/8	65.09	72.15	3.53
BS 231	2.5/8	2.7/8	1/8	66.27	73.33	3.53
BS 841			1/8	66.68	73.74	3.53
BS 842	2.11/16	2.15/16	1/8	68.26	75.32	3.53
BS 232	2.3/4	3	1/8	69.44	76.50	3.53
BS 843			1/8	69.85	76.91	3.53
BS 844	2.13/16	3.1/16	1/8	71.44	78.50	3.53
BS 233	2.7/8	3.1/8	1/8	72.62	79.68	3.53
BS 845			1/8	73.03	80.09	3.53
BS 846	2.15/16	3.3/16	1/8	74.61	81.67	3.53
BS 234	3	3.1/4	1/8	75.79	82.85	3.53
BS 235	3.1/8	3.3/8	1/8	78.97	86.03	3.53
BS 236	3.1/4	3.1/2	1/8	82.14	89.20	3.53
BS 237	3.3/8	3.5/8	1/8	85.32	92.38	3.53
BS 238	3.1/2	3.3/4	1/8	88.49	95.55	3.53
BS 239	3.5/8	3.7/8	1/8	91.67	98.73	3.53
BS 240	3.3/4	4	1/8	94.84	101.90	3.53
BS 241	3.7/8	4.1/8	1/8	98.02	105.08	3.53
BS 242	4	4.1/4	1/8	101.19	108.25	3.53
BS 243	4.1/8	4.3/8	1/8	104.37	111.43	3.53
BS 244	4.1/4	4.1/2	1/8	107.54	114.60	3.53
BS 245	4.3/8	4.5/8	1/8	110.72	117.78	3.53
BS 246	4.1/2	4.3/4	1/8	113.89	120.95	3.53
BS 247	4.5/8	4.7/8	1/8	117.07	124.13	3.53
BS 248	4.3/4	5	1/8	120.24	127.30	3.53
BS 249	4.7/8	5.1/8	1/8	123.42	130.48	3.53
BS 250	5	5.1/4	1/8	126.59	133.65	3.53
BS 251	5.1/8	5.3/8	1/8	129.77	136.83	3.53
BS 252	5.1/4	5.1/2	1/8	132.94	140.00	3.53
BS 253	5.3/8	5.5/8	1/8	136.12	143.18	3.53
BS 254	5.1/2	5.3/4	1/8	139.29	146.35	3.53
BS 255	5.5/8	5.7/8	1/8	142.47	149.53	3.53
BS 256	5.3/4	6	1/8	145.64	152.70	3.53

IMPERIAL ORINGS

	NOMINAL INCHES			ACTUAL MILLIMETRES		
Part#	ID	OD	X SECTION	ID	OD	X SECTION
BS 257	5.7/8	6.1/8	1/8	148.82	155.88	3.53
BS 258	6	6.1/4	1/8	151.99	159.05	3.53
BS 259	6.1/4	6.1/2	1/8	158.34	165.40	3.53
BS 260	6.1/2	6.3/4	1/8	164.69	171.75	3.53
BS 261	6.3/4	7	1/8	171.04	178.10	3.53
BS 262	7	7.1/4	1/8	177.39	184.45	3.53
BS 263	7.1/4	7.1/2	1/8	183.74	190.80	3.53
BS 264	7.1/2	7.3/4	1/8	190.09	197.15	3.53
BS 265	7.3/4	8	1/8	196.44	203.50	3.53
BS 266	8	8.1/4	1/8	202.79	209.85	3.53
BS 267	8.1/4	8.1/2	1/8	209.14	216.20	3.53
BS 268	8.1/2	8.3/4	1/8	215.49	222.55	3.53
BS 269	8.3/4	9	1/8	221.84	228.90	3.53
BS 270	9	9.1/4	1/8	228.19	235.25	3.53
BS 271	9.1/4	9.1/2	1/8	234.54	241.60	3.53
BS 272	9.1/2	9.3/4	1/8	240.89	247.95	3.53
BS 273	9.3/4	10	1/8	247.24	254.30	3.53
BS 274	10	10.1/4	1/8	253.59	260.65	3.53
BS 275	10.1/2	10.3/4	1/8	266.29	273.35	3.53
BS 276	11	11.1/4	1/8	278.99	286.05	3.53
BS 277	11.1/2	11.3/4	1/8	291.69	298.75	3.53
BS 278	12	12.1/4	1/8	304.39	311.45	3.53
BS 279	13	13.1/4	1/8	329.79	336.85	3.53
BS 280	14	14.1/4	1/8	355.19	362.25	3.53
BS 281	15	15.1/4	1/8	380.59	387.65	3.53
BS 282	16	16.1/4	1/8	405.26	412.32	3.53
BS 283	17	17.1/4	1/8	430.66	437.72	3.53
BS 284	18	18.1/4	1/8	456.06	463.12	3.53
BS 309	7/16	13/16	3/16	10.46	21.12	5.33
BS 310	1/2	7/8	3/16	12.07	22.73	5.33
BS 311	9/16	15/16	3/16	13.64	24.30	5.33
BS 312	5/8	1	3/16	15.24	25.90	5.33
BS 313	11/16	1.1/16	3/16	16.81	27.47	5.33
BS 314	3/4	1.1/8	3/16	18.42	29.08	5.33
BS 315	13/16	1.3/16	3/16	19.99	30.65	5.33
BS 316	7/8	1.1/4	3/16	21.59	32.25	5.33
BS 317	15/16	1.5/16	3/16	23.16	33.82	5.33
BS 318	1	1.3/8	3/16	24.77	35.43	5.33
BS 319	1.1/16	1.7/16	3/16	26.34	37.00	5.33
BS 320	1.1/8	1.1/2	3/16	27.94	38.60	5.33
BS 321	1.3/16	1.9/16	3/16	29.51	40.17	5.33
BS 322	1.1/4	1.5/8	3/16	31.12	41.78	5.33
BS 323	1.5/16	1.11/16	3/16	32.69	43.35	5.33
BS 324	1.3/8	1.3/4	3/16	34.29	44.95	5.33
BS 325	1.1/2	1.7/8	3/16	37.47	48.13	5.33
BS 326	1.5/8	2	3/16	40.64	51.30	5.33
BS 327	1.3/4	2.1/8	3/16	43.82	54.48	5.33
BS 328	1.7/8	2.1/4	3/16	47	57.66	5.33
BS 329	2	2.3/8	3/16	50.17	60.83	5.33
BS 330	2.1/8	2.1/2	3/16	53.34	64.00	5.33
BS 331	2.1/4	2.5/8	3/16	56.52	67.18	5.33

IMPERIAL ORINGS

	NOMINAL INCHES			ACTUAL MILLIMETRES		
Part#	ID	OD	X SECTION	ID	OD	X SECTION
BS 332	2.3/8	2.3/4	3/16	59.69	70.35	5.33
BS 333	2.1/2	2.7/8	3/16	62.87	73.53	5.33
BS 334	2.5/8	3	3/16	66.04	76.70	5.33
BS 335	2.3/4	3.1/8	3/16	69.22	79.88	5.33
BS 336	2.7/8	3.1/4	3/16	72.39	83.05	5.33
BS 619	2.15/16	3.5/16	3/16	74.63	85.29	5.33
BS 337	3	3.3/8	3/16	75.57	86.23	5.33
BS 338	3.1/8	3.1/2	3/16	78.74	89.40	5.33
BS 620			3/16	79.77	90.43	5.33
BS 339	3.1/4	3.5/8	3/16	81.92	92.58	5.33
BS 340	3.3/8	3.3/4	3/16	85.09	95.75	5.33
BS 341	3.1/2	3.7/8	3/16	88.27	98.93	5.33
BS 621	3.9/16	3.15/16	3/16	89.69	100.35	5.33
BS 342	3.5/8	4	3/16	91.44	102.10	5.33
BS 343	3.3/4	4.1/8	3/16	94.62	105.28	5.33
BS 344	3.7/8	4.1/4	3/16	97.79	108.45	5.33
BS 622	3.15/16	4.5/16	3/16	100	110.66	5.33
BS 345	4	4.3/8	3/16	100.97	111.63	5.33
BS 346	4.1/8	4.1/2	3/16	104.14	114.80	5.33
BS 347	4.1/4	4.5/8	3/16	107.32	117.98	5.33
BS 623	4.5/16	4.11/16	3/16	109.54	120.20	5.33
BS 348	4.3/8	4.3/4	3/16	110.49	121.15	5.33
BS 349	4.1/2	4.7/8	3/16	113.67	124.33	5.33
BS 350	4.5/8	5	3/16	116.84	127.50	5.33
BS 860			3/16	117.5	128.16	5.33
BS 351	4.3/4	5.1/8	3/16	120.02	130.68	5.33
BS 861			3/16	120.7	131.36	5.33
BS 352	4.7/8	5.1/4	3/16	123.19	133.85	5.33
BS 862			3/16	123.8	134.46	5.33
BS 353	5	5.3/8	3/16	126.37	137.03	5.33
BS 863			3/16	127	137.66	5.33
BS 354	5.1/8	5.1/2	3/16	129.54	140.20	5.33
BS 864			3/16	130.18	140.84	5.33
BS 355	5.1/4	5.5/8	3/16	132.72	143.38	5.33
BS 865			3/16	133.35	144.01	5.33
BS 356	5.3/8	5.3/4	3/16	135.89	146.55	5.33
BS 866			3/16	136.53	147.19	5.33
BS 357	5.1/2	5.7/8	3/16	139.07	149.73	5.33
BS 867			3/16	139.7	150.36	5.33
BS 358	5.5/8	6	3/16	142.24	152.90	5.33
BS 868			3/16	142.88	153.54	5.33
BS 359	5.3/4	6.1/8	3/16	145.42	156.08	5.33
BS 869			3/16	146.05	156.71	5.33
BS 360	5.7/8	6.1/4	3/16	148.59	159.25	5.33
BS 870			3/16	149.2	159.88	5.33
BS 361	6	6.3/8	3/16	151.77	162.43	5.33
BS 644	6.1/8	6.1/2	3/16	155	165.66	5.33
BS 362	6.1/4	6.5/8	3/16	158.12	168.78	5.33
BS 645	6.3/8	6.3/4	3/16	161.3	171.96	5.33
BS 363	6.1/2	6.7/8	3/16	164.47	175.13	5.33
BS 646	6.5/8	7	3/16	167.7	178.36	5.33

IMPERIAL ORINGS

NOMINAL INCHES				ACTUAL MILLIMETRES		
Part#	ID	OD	X SECTION	ID	OD	X SECTION
BS 364	6.3/4	7.1/8	3/16	170.82	181.48	5.33
BS 647	6.7/8	7.1/4	3/16	174	184.66	5.33
BS 365	7	7.3/8	3/16	177.17	187.83	5.33
BS 366	7.1/4	7.5/8	3/16	183.52	194.18	5.33
BS 367	7.1/2	7.7/8	3/16	189.87	200.53	5.33
BS 368	7.3/4	8.1/8	3/16	196.22	206.88	5.33
BS 369	8	8.3/8	3/16	202.57	213.23	5.33
BS 370	8.1/4	8.5/8	3/16	208.92	219.58	5.33
BS 371	8.1/2	8.7/8	3/16	215.27	225.93	5.33
BS 372	8.3/4	9.1/8	3/16	221.62	232.28	5.33
BS 373	9	9.3/8	3/16	227.97	238.63	5.33
BS 374	9.1/4	9.5/8	3/16	234.32	244.98	5.33
BS 375	9.1/2	9.7/8	3/16	240.67	251.33	5.33
BS 376	9.3/4	10.1/8	3/16	247.02	257.68	5.33
BS 377	10	10.3/8	3/16	253.37	264.03	5.33
BS 378	10.1/2	10.7/8	3/16	266.07	276.73	5.33
BS 379	11	11.3/8	3/16	278.77	289.43	5.33
BS 380	11.1/2	11.7/8	3/16	291.47	302.13	5.33
BS 381	12	12.3/8	3/16	304.17	314.83	5.33
BS 382	13	13.3/8	3/16	329.57	340.23	5.33
BS 383	14	14.3/8	3/16	354.97	365.63	5.33
BS 384	15	15.3/8	3/16	380.37	391.03	5.33
BS 385	16	16.3/8	3/16	405.26	415.92	5.33
BS 386	17	17.3/8	3/16	430.66	441.32	5.33
BS 387	18	18.3/8	3/16	456.06	466.72	5.33
BS 388	19	19.3/8	3/16	481.46	492.12	5.33
BS 389	20	20.3/8	3/16	506.81	517.47	5.33
BS 390	21	21.3/8	3/16	532.2	542.86	5.33
BS 391	22	22.3/8	3/16	557.6	568.26	5.33
BS 392	23	23.3/8	3/16	582.68	593.34	5.33
BS 393	24	24.3/8	3/16	608.08	618.74	5.33
BS 394	25	25.3/8	3/16	633.48	644.14	5.33
BS 395	26	26.3/8	3/16	658.88	669.54	5.33
BS 400	1.1/4	1.3/4	1/4	31.12	45.10	6.99
BS 401	1.1/2	2	1/4	37.47	51.45	6.99
BS 402	1.5/8	2.1/8	1/4	40.65	54.63	6.99
BS 403	1.3/4	2.1/4	1/4	43.82	57.80	6.99
BS 404	1.7/8	2.3/8	1/4	46.99	60.97	6.99
BS 405	2	2.1/2	1/4	50.17	64.15	6.99
BS 406	2.1/8	2.5/8	1/4	53.34	67.32	6.99
BS 407	2.1/4	2.3/4	1/4	56.52	70.50	6.99
BS 408	2.3/8	2.7/8	1/4	59.69	73.67	6.99
BS 409	2.1/2	3	1/4	62.87	76.85	6.99
BS 410	2.5/8	3.1/8	1/4	66.05	80.03	6.99
BS 411	2.3/4	3.1/4	1/4	69.22	83.20	6.99
BS 412	2.7/8	3.3/8	1/4	72.39	86.37	6.99
BS 413	3	3.1/2	1/4	75.57	89.55	6.99
BS 414	3.1/8	3.5/8	1/4	78.75	92.73	6.99
BS 415	3.1/4	3.3/4	1/4	81.92	95.90	6.99
BS 416	3.3/8	3.7/8	1/4	85.09	99.07	6.99
BS 417	3.1/2	4	1/4	88.27	102.25	6.99

IMPERIAL ORINGS

NOMINAL INCHES				ACTUAL MILLIMETRES		
Part#	ID	OD	X SECTION	ID	OD	X SECTION
BS 418	3.5/8	4.1/8	1/4	91.44	105.42	6.99
BS 419	3.3/4	4.1/4	1/4	94.62	108.60	6.99
BS 420	3.7/8	4.3/8	1/4	97.79	111.77	6.99
BS 421	4	4.1/2	1/4	100.97	114.95	6.99
BS 422	4.1/8	4.5/8	1/4	104.15	118.13	6.99
BS 423	4.1/4	4.3/4	1/4	107.32	121.30	6.99
BS 424	4.3/8	4.7/8	1/4	110.49	124.47	6.99
BS 425	4.1/2	5	1/4	113.67	127.65	6.99
BS 624	4.9/16	5.1/16	1/4	114.7	128.68	6.99
BS 426	4.5/8	5.1/8	1/4	116.84	130.82	6.99
BS 427	4.3/4	5.1/4	1/4	120.02	134.00	6.99
BS 428	4.7/8	5.3/8	1/4	123.19	137.17	6.99
BS 625	4.15/16	5.7/16	1/4	124.6	138.58	6.99
BS 429	5	5.1/2	1/4	126.37	140.35	6.99
BS 430	5.1/8	5.5/8	1/4	129.54	143.52	6.99
BS 431	5.1/4	5.3/4	1/4	132.72	146.70	6.99
BS 626	5.5/16	5.13/16	1/4	134.5	148.48	6.99
BS 432	5.3/8	5.7/8	1/4	135.89	149.87	6.99
BS 433	5.1/2	6	1/4	139.07	153.05	6.99
BS 434	5.5/8	6.1/8	1/4	142.24	156.22	6.99
BS 435	5.3/4	6.1/4	1/4	145.42	159.40	6.99
BS 436	5.7/8	6.3/8	1/4	148.59	162.57	6.99
BS 437	6	6.1/2	1/4	151.77	165.75	6.99
BS 872	6.1/8	6.5/8	1/4	155.6	169.58	6.99
BS 438	6.1/4	6.3/4	1/4	158.12	172.10	6.99
BS 627	6.5/16	6.13/16	1/4	159.5	173.48	6.99
BS 874	6.3/8	6.7/8	1/4	161.9	175.88	6.99
BS 439	6.1/2	7	1/4	164.47	178.45	6.99
BS 628	6.9/16	7.1/16	1/4	166.7	180.68	6.99
BS 876	6.5/8	7.1/8	1/4	168.3	182.28	6.99
BS 440	6.3/4	7.1/4	1/4	170.82	184.80	6.99
BS 878	6.7/8	7.3/8	1/4	174.6	188.58	6.99
BS 441	7	7.1/2	1/4	177.17	191.15	6.99
BS 880	7.1/8	7.5/8	1/4	181	194.98	6.99
BS 442	7.1/4	7.3/4	1/4	183.52	197.50	6.99
BS 882	7.3/8	7.7/8	1/4	187.3	201.28	6.99
BS 443	7.1/2	8	1/4	189.87	203.85	6.99
BS 884	7.5/8	8.1/8	1/4	193.7	207.68	6.99
BS 444	7.3/4	8.1/4	1/4	196.22	210.20	6.99
BS 886	7.7/8	8.3/8	1/4	200	214.00	6.99
BS 445	8	8.1/2	1/4	202.57	216.55	6.99
BS 674	8.1/4	8.3/4	1/4	208.92	222.90	6.99
BS 445A	8.1/4	8.3/4	1/4	208.92	222.90	6.99
BS 446	8.1/2	9	1/4	215.27	229.25	6.99
BS 446A	8.3/4	9.1/4	1/4	221.62	235.60	6.99
BS 676	8.3/4	9.1/4	1/4	221.62	235.60	6.99
BS 447	9	9.1/2	1/4	227.97	241.95	6.99
BS 678	9.1/4	9.3/4	1/4	234.32	248.30	6.99
BS 447A	9.1/4	9.3/4	1/4	234.32	248.30	6.99
BS 448	9.1/2	10	1/4	240.67	254.65	6.99
BS 680	9.3/4	10.1/4	1/4	247	260.98	6.99

IMPERIAL ORINGS

	NOMINAL INCHES			ACTUAL MILLIMETRES		
Part#	ID	OD	X SECTION	ID	OD	X SECTION
BS 448A	9.3/4	10.1/4	1/4	247	260.98	6.99
BS 449	10	10.1/2	1/4	253.57	267.55	6.99
BS 449A	10.1/4	10.3/4	1/4	259.7	267.55	6.99
BS 682	10.1/4	10.3/4	1/4	259.7	273.68	6.99
BS 450	10.1/2	11	1/4	266.07	280.05	6.99
BS 450A	10.3/4	11.1/4	1/4	272.4	286.38	6.99
BS 684	10.3/4	11.1/4	1/4	272.4	286.38	6.99
BS 451	11	11.1/2	1/4	278.77	292.75	6.99
BS 451A	11.1/4	11.3/4	1/4	285.1	299.08	6.99
BS 686	11.1/4	11.3/4	1/4	285.1	299.08	6.99
BS 452	11.1/2	12	1/4	291.47	305.45	6.99
BS 688	11.3/4	12.1/4	1/4	297.8	311.78	6.99
BS 452A	11.3/4	12.1/4	1/4	297.8	311.78	6.99
BS 453	12	12.1/2	1/4	304.17	318.15	6.99
BS 648	12.1/4	12.3/4	1/4	310.5	324.48	6.99
BS 454	12.1/2	13	1/4	316.87	330.85	6.99
BS 649	12.3/4	13.1/4	1/4	323.2	337.18	6.99
BS 455	13	13.1/2	1/4	329.57	343.55	6.99
BS 650	13.1/4	13.3/4	1/4	335.9	349.88	6.99
BS 456	13.1/2	14	1/4	342.27	356.25	6.99
BS 457	14	14.1/2	1/4	354.97	368.95	6.99
BS 458	14.1/2	15	1/4	367.67	381.65	6.99
BS 459	15	15.1/2	1/4	380.37	394.35	6.99
BS 460	15.1/2	16	1/4	393.07	407.05	6.99
BS 461	16	16.1/2	1/4	405.26	419.24	6.99
BS 462	16.1/2	17	1/4	417.96	431.94	6.99
BS 463	17	17.1/2	1/4	430.66	444.64	6.99
BS 464	17.1/2	18	1/4	443.36	457.34	6.99
BS 465	18	18.1/2	1/4	456.06	470.04	6.99
BS 466	18.1/2	19	1/4	468.76	482.74	6.99
BS 467	19	19.1/2	1/4	481.46	495.44	6.99
BS 468	19.1/2	20	1/4	494.16	508.14	6.99
BS 469	20	20.1/2	1/4	506.81	520.79	6.99
BS 470	21	21.1/2	1/4	532.26	546.24	6.99
BS 471	22	22.1/2	1/4	557.66	571.64	6.99
BS 472	23	23.1/2	1/4	582.68	596.66	6.99
BS 473	24	24.1/2	1/4	608.08	622.06	6.99
BS 474	25	25.1/2	1/4	633.48	647.46	6.99
BS 475	26	26.1/2	1/4	658.88	672.86	6.99

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
0.5	1			✔															
0.74	1.02	IMPERIAL-001 (1/32" * 1/32")	✔	✔					✔					✔					
1	1		✔																
1.07	1.27	IMPERIAL-002 (3/64" * 3/64")	✔	✔					✔		✔		✔	✔					
1.15	1	R000 French																	
1.24	2.62	IMPERIAL-102 (1/16" * 3/32")	✔	✔	✔				✔		✔			✔					
1.42	1.52	IMPERIAL-003 (1/16" * 1/16")	✔	✔					✔	✔	✔			✔					
1.5	1		✔																
1.5	1.5		✔						✔										
1.78	1.02	IMPERIAL-606	✔																
1.78	1.78	IMPERIAL-004 (5/64" * 1/16") (IT 2007)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔				✔
2	1		✔	✔					✔										
2	1.5		✔						✔	✔									
2	2		✔						✔										
2.06	2.62	IMPERIAL-103 (3/32" * 3/32")	✔	✔	✔			✔	✔		✔			✔					
2.1	1.6		✔																
2.2	1.6	R00 French																	
2.35	1		✔																
2.4	1		✔																
2.4	1.9	R0 FRENCH	✔																
2.5	1		✔						✔										
2.5	1.2		✔						✔										
2.5	1.5		✔	✔															
2.5	1.6		✔																
2.54	1.02	IMPERIAL-607	✔																
2.57	1.78	IMPERIAL-005 (3/32" * 1/16") (IT 2010)	✔	✔	✔			✔	✔	✔	✔			✔					✔
2.6	1.2								✔										
2.6	1.9	R1 FRENCH	✔																
2.75	1.6	R1b French																	
2.8	1.9	P 3 JAPANESE	✔	✔					✔	✔									
2.84	2.62	IMPERIAL-104 (1/8" * 3/32")	✔	✔	✔			✔	✔		✔			✔					
2.9	1.78	IMPERIAL-006 (1/8" * 1/16") (IT 2012)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔
3	1		✔						✔		✔			✔					
3	1.5		✔						✔										
3	2		✔	✔					✔					✔					
3	2.4		✔						✔										
3	2.5		✔																
3	3		✔																
3.1	1.6	SWEDISH UK METRIC	✔								✔								
3.17	1.78	IMPERIAL-801 (9/64" * 3/32")	✔																
3.3	2.4	SWEDISH	✔																
3.4	1.9	R2 FRENCH	✔																
3.5	1		✔						✔										
3.5	1.5		✔	✔															
3.5	2			✔															
3.6	1.49																✔		
3.6	1.94	O RING															✔		
3.6	2.4	UK METRIC	✔																
3.63	2.62	IMPERIAL-105 (5/32" * 3/32")	✔	✔	✔			✔	✔		✔	✔		✔					
3.68	1.78	IMPERIAL-007 (5/32" * 1/16") (IT 2015)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔
3.7	1.9	R2A FRENCH	✔																
3.8	1.25		✔																
3.8	1.9	P 4 JAPANESE	✔	✔					✔										
4	1		✔	✔					✔			✔		✔	✔				
4	1.5		✔						✔										
4	2		✔	✔					✔		✔	✔		✔					
4	2.5		✔						✔										
4	3		✔						✔										

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
4	4		✔																
4	5		✔																
4.1	1.6	SWEDISH UK METRIC	✔	✔															
4.2	1.9	R3 FRENCH	✔																
4.3	2.4	SWEDISH	✔																
4.34	3.53	IMPERIAL-201 (3/16" * 1/8")	✔	✔	✔	✔	✔		✔	✔	✔			✔					✔
4.42	2.62	IMPERIAL-106 (3/16" * 3/32")	✔	✔	✔	✔	✔	✔	✔		✔			✔		✔			✔
4.47	1.78	IMPERIAL-008 (3/16" * 1/16") (IT 2018)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔
4.5	1		✔						✔										
4.5	1.5		✔						✔										
4.5	1.6																		
4.5	2		✔	✔					✔										
4.6	2.4	UK METRIC	✔																
4.7	1.42	IMPERIAL-901 (3/32" TUBE OD)		✔					✔		✔			✔		✔			✔
4.75	1.78	IMPERIAL-802 (13/64" * 3/32")	✔																
4.8	1.9	P 5 JAPANESE	✔	✔		✔	✔		✔	✔									
4.9	1.9	R4 FRENCH	✔																
5	1		✔						✔	✔	✔			✔	✔				
5	1.2		✔						✔					✔					
5	1.5		✔	✔		✔	✔		✔		✔			✔	✔				
5	2		✔	✔		✔	✔		✔		✔			✔	✔				
5	2.4																		
5	2.5		✔	✔		✔	✔		✔		✔					✔			
5	3		✔	✔		✔	✔		✔										
5	4		✔								✔								
5.1	1.6	SWEDISH UK METRIC	✔																
5.23	2.62	IMPERIAL-107 (7/32" * 3/32") (IT 3021)	✔	✔	✔	✔	✔	✔	✔		✔			✔					
5.28	1.78	IMPERIAL-009 (7/32" * 1/16") (IT 2021)	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔	✔	✔		✔	✔
5.3	2.4	SWEDISH	✔						✔										
5.4	2.3			✔															
5.5	1.2								✔										
5.5	1.5		✔	✔															
5.5	1.6																		
5.5	2		✔																
5.6	2.4	UK METRIC	✔																
5.7	1.9	R5 FRENCH	✔																
5.8	1.9	P 6 JAPANESE	✔	✔		✔	✔		✔	✔									
5.94	3.53	IMPERIAL-202 (1/4" * 1/8")	✔	✔	✔	✔	✔		✔		✔			✔					
6	1		✔	✔					✔		✔			✔					
6	1.5		✔	✔					✔			✔							
6	2		✔	✔		✔	✔		✔		✔	✔		✔	✔				
6	2.2	R6b French																	
6	2.5		✔	✔		✔	✔		✔										✔
6	3		✔	✔		✔	✔		✔			✔							
6	3.5		✔						✔										
6	4		✔																
6	5		✔																
6	6		✔																
6.02	2.62	IMPERIAL-108 (1/4" * 3/32") (IT 3024)	✔	✔	✔	✔	✔	✔	✔		✔	✔		✔		✔	✔		✔
6.07	1.3			✔					✔										
6.07	1.63	IMPERIAL-902 (1/8 " TUBE OD)		✔		✔	✔		✔										✔
6.07	1.78	IMPERIAL-010 (1/4" * 1/16") (IT 2025)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔
6.1	1.6	SWEDISH UK METRIC	✔	✔															
6.3	2.4	SWEDISH	✔						✔										
6.35	1.78	IMPERIAL-803 (17/64" * 3/32")	✔																
6.4	1.9	R5A FRENCH	✔																
6.5	1		✔								✔								
6.5	1.5		✔																

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
6.5	1.6		✔																
6.5	2																		
6.6	2.4	UK METRIC	✔																
6.75	1.78	IMPERIAL-610 (9/32" * 1/16") (IT 106)	✔								✔								
6.8	1.9	P 7 JAPANESE	✔	✔		✔	✔		✔	✔						✔			
7	1		✔						✔										
7	1.5		✔						✔	✔						✔			
7	1.62		✔																
7	2		✔	✔		✔	✔		✔		✔			✔	✔				
7	2.5		✔	✔		✔	✔		✔		✔			✔					
7	3		✔	✔		✔	✔		✔		✔	✔							
7	4		✔						✔			✔							
7	5		✔																
7.1	1.6	SWEDISH UK METRIC	✔	✔					✔		✔								
7.2	1.9	R6 FRENCH	✔																
7.3	2.4	SWEDISH	✔						✔							✔			
7.4	2.3			✔		✔	✔												
7.5	1.5		✔	✔					✔										
7.5	1.75													✔					
7.5	2								✔										
7.5	2.5								✔										
7.52	3.53	IMPERIAL-203 (5/16" * 1/8")	✔	✔	✔	✔	✔	✔	✔		✔	✔		✔		✔			
7.59	2.62	IMPERIAL-109 (5/16" * 3/32") (IT 3030)	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔	✔				✔
7.6	2.4	UK METRIC	✔						✔										
7.65	1.63	IMPERIAL-903 (3/16" TUBE OD)		✔					✔					✔		✔			✔
7.65	1.78	IMPERIAL-011 (5/16" * 1/16") (IT 2031)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
7.8	1.9	P 8 JAPANESE	✔	✔		✔	✔		✔	✔									
7.95	1.78	IMPERIAL-804 (21/64" * 3/32")	✔																
8	1		✔						✔		✔			✔					
8	1.5		✔	✔					✔					✔					
8	1.6		✔	✔															
8	1.9	R6A FRENCH	✔																
8	2		✔	✔		✔	✔		✔		✔			✔	✔	✔			
8	2.5		✔	✔		✔	✔		✔										
8	3		✔	✔		✔	✔		✔		✔	✔							
8	3.5		✔																
8	4		✔						✔										
8	5		✔																
8.1	1.6	SWEDISH UK METRIC	✔	✔															
8.3	2.4	SWEDISH	✔						✔										
8.5	1.5		✔																
8.5	1.6																		
8.56	2.62								✔										
8.6	2.4	UK METRIC	✔																
8.73	1.78	IMPERIAL-611 (11/32" * 1/16") (IT 108)	✔	✔					✔		✔			✔					
8.8	1.9	P 9 JAPANESE	✔	✔		✔	✔		✔	✔						✔			
8.9	1.9	R7 FRENCH	✔																
8.9	2.3			✔															
8.9	2.7	R8 FRENCH	✔																
8.92	1.83	IMPERIAL-904 (1/4" TUBE OD)		✔					✔		✔			✔					✔
9	1		✔						✔		✔			✔					
9	1.2																		
9	1.5		✔	✔		✔	✔		✔		✔			✔					
9	2		✔	✔		✔	✔		✔		✔			✔	✔				
9	2.5		✔	✔		✔	✔		✔		✔					✔			
9	3		✔	✔		✔	✔		✔										
9	4		✔						✔										
9	5		✔																

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PT FE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
9.1	1.6	SWEDISH UK METRIC	✔																
9.12	3.53	IMPERIAL-204 (3/8" * 1/8") (IT 4036)	✔	✔	✔	✔	✔	✔	✔		✔			✔		✔			
9.19	2.62	IMPERIAL-110 (3/8" * 3/32") (IT 3037)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔	✔	✔
9.25	1.78	IMPERIAL-012 (3/8" * 1/16") (IT 2037)	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
9.3	2.4	SWEDISH	✔	✔					✔										
9.5	2			✔															
9.6	2.4	UK METRIC	✔																
9.8	1.9	P 10 JAPANESE	✔	✔		✔	✔		✔	✔									
9.8	2.4	P 10A JAPANESE	✔	✔		✔	✔		✔	✔									
9.92	1.78					✔	✔												
9.92	2.62	IMPERIAL-613 (25/64" * 3/32") (IT 112)	✔						✔		✔								
10	1		✔						✔	✔				✔					
10	1.25								✔										
10	1.3		✔																
10	1.36																		
10	1.5		✔	✔		✔	✔		✔					✔					
10	2		✔	✔		✔	✔		✔		✔			✔	✔	✔			
10	2.2			✔															
10	2.4								✔										
10	2.5		✔	✔		✔	✔		✔		✔			✔				✔	
10	3		✔	✔		✔	✔		✔		✔	✔							
10	3.5		✔																
10	4		✔						✔										
10	5		✔											✔					
10	6		✔																
10.1	1.6	SWEDISH UK METRIC	✔	✔													✔		
10.3	2.4	SWEDISH	✔						✔										
10.46	5.33	IMPERIAL-309 (7/16" * 3/16") (IT 6042)	✔	✔		✔	✔		✔		✔			✔					
10.5	1.5								✔										
10.5	1.6																		
10.5	2		✔	✔															
10.5	2.4																		✔
10.5	2.7	R9 FRENCH	✔																
10.52	1.83	IMPERIAL-905 (5/16" TUBE OD)		✔					✔		✔			✔		✔			✔
10.6	2.4	UK METRIC	✔																
10.69	3.53	IMPERIAL-205 (7/16" * 1/8") (IT 4042)	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔		✔			
10.77	2.62	IMPERIAL-111 (7/16" * 3/32") (IT 3043)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔
10.8	2.4	P 11 JAPANESE	✔	✔		✔	✔		✔	✔						✔			
10.82	1.78	IMPERIAL-013 (7/16" * 1/16") (IT 2043)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔
10.9	2.3			✔															
11	1		✔						✔					✔					
11	1.3			✔		✔	✔												
11	1.5		✔	✔					✔		✔			✔					
11	1.6																		
11	2		✔	✔		✔	✔		✔		✔					✔			
11	2.5		✔	✔		✔	✔		✔		✔								
11	3		✔						✔			✔	✔						
11	3.5		✔						✔										
11	4		✔						✔										
11	5		✔																
11.1	1.6	SWEDISH UK METRIC	✔						✔										
11.1	1.78	IMPERIAL-806 (29/64" * 3/32") (IT 114)	✔						✔	✔				✔	✔				
11.2	2.4	P 11.2 JAPANESE	✔	✔		✔	✔		✔	✔									
11.3	2.4	SWEDISH	✔	✔							✔								
11.5	1.5		✔						✔										
11.5	2		✔																
11.5	2.4	P 11.5 JAPANESE				✔	✔												
11.5	3		✔																

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
11.6	2.4	UK METRIC	✔	✔															
11.8	2.1		✔																
11.8	2.4	P 12 JAPANESE	✔	✔		✔	✔		✔	✔									
11.89	1.98	IMPERIAL-906 (3/8" TUBE OD)		✔					✔		✔			✔		✔			
11.91	2.62	IMPERIAL-614 (15/32" * 3/32") (IT 115)	✔	✔					✔		✔								
12	1		✔	✔					✔		✔								
12	1.5		✔	✔					✔			✔							
12	2		✔	✔		✔	✔		✔	✔	✔	✔		✔					
12	2.4																		
12	2.5		✔	✔		✔	✔		✔		✔	✔				✔		✔	
12	3		✔	✔		✔	✔		✔		✔	✔	✔	✔					
12	3.5		✔																
12	4		✔						✔		✔								
12	4.5								✔										
12	5		✔																
12.07	5.33	IMPERIAL-310 (1/2" * 3/16") (IT 6050)	✔	✔	✔	✔	✔		✔		✔		✔	✔					✔
12.1	1.6	SWEDISH UK METRIC	✔	✔													✔		
12.1	2.7	R10 FRENCH	✔																
12.29	3.53	IMPERIAL-206 (1/2" * 1/8") (IT 4050)	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔					✔
12.3	2.4	P 12.5 JAPANESE SWEDISH	✔	✔		✔	✔		✔										
12.37	2.62	IMPERIAL-112 (1/2" * 3/32") (IT 3050)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔
12.42	1.78	IMPERIAL-014 (1/2" * 1/16") (IT 2050)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔
12.5	2		✔						✔										
12.6	2.4	UK METRIC	✔																
12.7	1.5																		
12.7	2.62	IMPERIAL-807	✔																
12.9	2.3			✔															
13	1		✔						✔			✔		✔					
13	1.5		✔						✔						✔				
13	2		✔	✔		✔	✔		✔		✔	✔							
13	2.5		✔	✔		✔	✔		✔		✔								
13	3		✔	✔		✔	✔		✔			✔							
13	3.5		✔																
13	4		✔																
13	5		✔																
13.1	1.6	SWEDISH UK METRIC	✔	✔															
13.1	2.62	IMPERIAL-615 (33/64" * 3/32") (IT 117)	✔								✔			✔					
13.3	2.4	SWEDISH	✔						✔										
13.46	2.08	IMPERIAL-907 (7/16" TUBE OD)		✔					✔		✔								✔
13.5	1.6		✔																
13.6	2.4	UK METRIC	✔																
13.6	2.7	R11 FRENCH	✔								✔								
13.64	5.33	IMPERIAL-311 (9/16" * 3/16") (IT 6055)	✔	✔		✔	✔		✔		✔			✔					✔
13.8	2.4	P 14 JAPANESE	✔	✔		✔	✔		✔	✔	✔	✔				✔			
13.87	3.53	IMPERIAL-207 (9/16" * 1/8") (IT 4055)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔			✔		
13.94	2.62	IMPERIAL-113 (9/16" * 3/32") (IT 3056)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔
14	1		✔						✔					✔					
14	1.1		✔																
14	1.5		✔						✔										
14	1.78	IMPERIAL-015 (9/16" * 1/16") (IT 2056)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔			✔
14	2		✔	✔		✔	✔		✔		✔				✔				
14	2.4		✔						✔										
14	2.5		✔	✔		✔	✔		✔		✔			✔					
14	3		✔	✔		✔	✔		✔		✔	✔							
14	3.5		✔						✔										
14	4		✔						✔										
14	5		✔																
14.1	1.6	SWEDISH UK METRIC	✔	✔					✔										

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
14.3	2.4	SWEDISH	✔	✔					✔										
14.5	1.6																		
14.6	2.4	UK METRIC	✔																
14.8	2.4	P 15 JAPANESE	✔	✔		✔	✔		✔										
14.9	2.3			✔															
15	1		✔						✔										
15	1.2		✔																
15	1.5		✔	✔		✔	✔		✔		✔				✔				
15	2		✔	✔		✔	✔		✔	✔	✔	✔		✔	✔				
15	2.4																		
15	2.5		✔	✔		✔	✔		✔	✔	✔	✔				✔			
15	3		✔	✔		✔	✔		✔		✔		✔						
15	3.5		✔						✔										
15	4		✔						✔										
15	5		✔						✔										
15	6		✔																
15	7		✔																
15.08	2.62	IMPERIAL-616 (19/32" * 3/32") (IT 119)	✔	✔					✔	✔	✔								
15.1	1.6	SWEDISH UK METRIC	✔	✔															
15.1	2.7	R12 FRENCH	✔																
15.24	5.33	IMPERIAL-312 (5/8" * 3/16") (IT 6060)	✔	✔	✔	✔	✔	✔	✔		✔		✔	✔					✔
15.3	2.4	SWEDISH	✔						✔		✔								
15.47	3.53	IMPERIAL-208 (5/8" * 1/8") (IT 4061)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔					
15.5	1.6																		
15.5	2			✔															
15.5	3		✔																
15.54	2.62	IMPERIAL-114 (5/8" * 3/32") (IT 3062)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
15.6	1.78	IMPERIAL-016 (5/8" * 1/16") (IT 2062)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔
15.6	2.4	UK METRIC	✔	✔							✔								
15.7	1.3		✔																
15.8	2.4	P 16 JAPANESE	✔	✔		✔	✔		✔	✔						✔			
15.88	2.62	IMPERIAL-809 (41/64" * 3/32") (IT 121)	✔												✔				
16	1		✔						✔										
16	1.25		✔																
16	1.5		✔						✔										
16	2		✔	✔		✔	✔		✔		✔		✔	✔					
16	2.5		✔	✔		✔	✔		✔		✔			✔			✔		
16	3		✔	✔		✔	✔		✔		✔	✔				✔			
16	3.5		✔			✔	✔		✔										
16	4		✔						✔										
16	4.5								✔										
16	5		✔																
16	6		✔																
16.1	1.6	SWEDISH UK METRIC	✔	✔													✔		
16.3	2.4	SWEDISH	✔	✔															
16.36	2.2	IMPERIAL-908 (1/2" TUBE OD)		✔					✔						✔				✔
16.5	1.6																		
16.5	2								✔						✔				
16.6	2.4	UK METRIC	✔																
16.7	3.4			✔															
16.8	2.4	P 17 JAPANESE	✔	✔		✔	✔		✔										
16.81	5.33	IMPERIAL-313 (11/16" * 3/16") (IT 6065)	✔	✔	✔	✔	✔	✔	✔		✔			✔					✔
16.9	2.7	R13 FRENCH	✔																
17	1		✔						✔		✔								
17	1.5		✔	✔					✔		✔			✔	✔				
17	2		✔	✔		✔	✔		✔			✔		✔	✔				
17	2.5		✔	✔		✔	✔		✔										
17	3		✔	✔		✔	✔		✔					✔					

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
17	3.5		✔						✔										
17	4		✔						✔										
17	5		✔																
17.04	3.53	IMPERIAL-209 (11/16" * 1/8") (IT 4067)	✔	✔	✔	✔	✔	✔	✔		✔		✔	✔	✔				✔
17.1	1.6	SWEDISH UK METRIC	✔	✔					✔		✔								
17.12	2.62	IMPERIAL-115 (11/16" * 3/32") (IT 3068)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔
17.17	1.78	IMPERIAL-017 (11/16" * 1/16") (IT 2068)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔		✔
17.2	3		✔																
17.3	2.4	SWEDISH	✔																
17.45	2.62	IMPERIAL-810 (45/64" * 1/16")	✔																
17.5	1.5								✔										
17.5	1.6																		
17.5	2.5		✔																
17.6	2.4	UK METRIC	✔																
17.8	2.4	P 18 JAPANESE	✔	✔		✔	✔		✔	✔				✔					
17.85	1.7																✔		
17.86	2.62	IMPERIAL-617 (23/32" * 3/32") (IT 123)	✔	✔					✔		✔								
17.93	2.46	IMPERIAL-909 (9/16" TUBE OD)		✔					✔		✔			✔		✔			✔
18	1		✔						✔		✔								
18	1.5		✔						✔		✔								
18	1.6																✔		
18	2		✔	✔		✔	✔		✔		✔			✔			✔		
18	2.4								✔										
18	2.5		✔	✔		✔	✔		✔		✔								
18	3		✔	✔		✔	✔		✔		✔								
18	3.5		✔					✔	✔										
18	4		✔	✔					✔	✔	✔	✔		✔					
18	4.5					✔	✔												
18	5		✔																
18	7		✔						✔										
18.1	1.6	SWEDISH UK METRIC	✔						✔										
18.2	3										✔								
18.3	2.4		✔	✔															
18.3	3.6	R15 FRENCH	✔																
18.4	2.7	R14 FRENCH	✔																
18.42	5.33	IMPERIAL-314 (3/4" * 3/16") (IT 6075)	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔					✔
18.5	1.6																		
18.5	2		✔						✔										
18.6	2.4	UK METRIC	✔																
18.64	3.53	IMPERIAL-210 (3/4" * 1/8") (IT 4075)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔
18.72	2.62	IMPERIAL-116 (3/4" * 3/32") (IT 3075)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
18.77	1.78	IMPERIAL-018 (3/4" * 1/16") (IT 2075)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔		✔			✔
18.8	2.4	P 19 JAPANESE	✔							✔									
19	1		✔						✔										
19	1.5		✔			✔	✔		✔	✔									
19	1.6																		
19	2		✔	✔		✔	✔		✔		✔								
19	2.4		✔																
19	2.5		✔	✔		✔	✔		✔		✔								
19	3		✔	✔		✔	✔		✔		✔	✔	✔			✔			
19	3.5		✔																
19	3.6																		
19	4		✔						✔		✔								
19	5		✔																
19.1	1.6	SWEDISH UK METRIC	✔	✔					✔										
19.18	2.46	IMPERIAL-910 (5/8" TUBE OD)		✔					✔		✔					✔			✔
19.2	3	SWEDISH	✔						✔										
19.3	2.4		✔						✔										

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
19.5	1.6																		
19.5	2			✔															
19.5	2.5			✔															
19.5	3	UK METRIC	✔																
19.6	2.4	UK METRIC	✔	✔															
19.8	2.4	P 20 JAPANESE	✔	✔		✔	✔		✔	✔						✔			
19.8	3.6	R16 FRENCH	✔																
19.99	5.33	IMPERIAL-315 (13/16" * 3/16") (IT 6080)	✔	✔	✔	✔	✔	✔	✔		✔			✔					✔
20	1		✔						✔	✔				✔					
20	1.3		✔																
20	1.5		✔	✔		✔	✔		✔						✔				
20	2		✔	✔		✔	✔		✔		✔								
20	2.5		✔	✔		✔	✔		✔		✔	✔							
20	3		✔	✔		✔	✔		✔		✔	✔		✔		✔			
20	3.5		✔						✔										
20	4		✔	✔		✔	✔		✔		✔								
20	4.5		✔						✔										
20	5		✔						✔										
20	6		✔																
20	7		✔																
20	8		✔																
20.1	1.6								✔								✔		
20.22	3.53	IMPERIAL-211 (13/16" * 1/8") (IT 4081)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔
20.29	2.62	IMPERIAL-117 (13/16" * 3/32") (IT 3081)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔		✔	✔
20.3	2.4		✔						✔										
20.35	1.78	IMPERIAL-019 (13/16" * 1/16") (IT 2081)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔		✔	✔		✔
20.64	2.62	IMPERIAL-812 (53/64" * 1/16") (IT 128)	✔																
20.7	3.4			✔															
20.8	2.4	P 21 JAPANESE	✔	✔		✔	✔		✔	✔									
20.92	2.62																	✔	
21	1		✔																
21	1.5		✔						✔		✔								
21	2		✔	✔		✔	✔		✔		✔								
21	2.5		✔	✔		✔	✔		✔						✔				
21	3		✔	✔		✔	✔		✔		✔	✔							
21	3.5		✔																
21	4		✔																
21	5		✔						✔										
21.3	2.4		✔																
21.3	3.6	R17 FRENCH	✔																
21.4	3.1		✔																
21.5	3	UK METRIC	✔																
21.59	5.33	IMPERIAL-316 (7/8" * 3/16") (IT 6085)	✔	✔	✔	✔	✔	✔	✔		✔	✔		✔					✔
21.6	2.4	UK METRIC	✔																
21.7	3.5	P 22A JAPANESE	✔	✔		✔	✔		✔										
21.8	2.4	P 22 JAPANESE	✔	✔		✔	✔		✔	✔									
21.82	3.53	IMPERIAL-212 (7/8" * 1/8") (IT 4087)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔
21.89	2.62	IMPERIAL-118 (7/8" * 3/32") (IT 3087)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔		✔			✔
21.92	2.92	IMPERIAL-911 (11/16" TUBE OD)		✔					✔		✔								✔
21.95	1.78	IMPERIAL-020 (7/8" * 1/16") (IT 2087)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔		✔
22	1		✔						✔										
22	1.5		✔	✔					✔		✔								
22	2		✔	✔		✔	✔		✔		✔					✔			
22	2.5		✔	✔		✔	✔		✔		✔								
22	3		✔	✔		✔	✔		✔		✔	✔					✔		
22	3.5		✔						✔										
22	4		✔	✔					✔										
22	5		✔						✔							✔			

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
22	6		✔																
22.1	1.6	SWEDISH UK METRIC	✔	✔					✔										
22.1	3.5	P 22.4 JAPANESE	✔	✔		✔	✔		✔										
22.2	3	SWEDISH	✔						✔								✔		
22.22	2.62	IMPERIAL-813 (57/64" * 1/16") (IT 130)	✔						✔										
22.3	2.4		✔								✔								
22.5	1.6																		
22.5	3		✔																
22.7	3.5	P 23 JAPANESE				✔	✔												
23	1		✔																
23	1.5		✔											✔					
23	2		✔	✔		✔	✔		✔		✔								
23	2.5		✔	✔		✔	✔		✔										
23	3		✔	✔		✔	✔		✔		✔	✔							
23	3.5		✔						✔										
23	3.6	R18 FRENCH	✔																
23	4		✔						✔			✔							
23	5		✔																
23	6		✔									✔							
23.16	5.33	IMPERIAL-317 (15/16" * 3/16") (IT 6090)	✔	✔	✔	✔	✔	✔	✔		✔			✔					✔
23.3	2.4		✔	✔					✔										
23.4	3.53	IMPERIAL-213 (15/16" * 1/8") (IT 4093)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔		✔
23.47	2.62	IMPERIAL-119 (15/16" * 3/32") (IT 3093)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔		✔
23.47	2.95	IMPERIAL-912 (3/4" TUBE OD)		✔					✔		✔								✔
23.5	2			✔															
23.52	1.78	IMPERIAL-021 (15/16" * 1/16") (IT 2093)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔		✔		✔	✔
23.7	3.5	P 24 JAPANESE	✔	✔		✔	✔		✔	✔									
23.81	2.62	IMPERIAL-814 (61/64" * 1/16") (IT 132)	✔						✔										
24	1		✔								✔								
24	1.5		✔	✔															
24	2		✔	✔		✔	✔		✔		✔				✔				
24	2.5		✔	✔		✔	✔		✔		✔	✔							
24	3		✔	✔		✔	✔		✔		✔			✔					
24	3.5		✔						✔		✔								
24	3.6		✔																
24	4		✔	✔					✔		✔	✔							
24	5		✔																
24	5.5											✔							
24.1	1.6		✔																
24.2	3	SWEDISH	✔																
24.3	2.4		✔																
24.4	3.1	G025 JAPANESE	✔	✔		✔	✔		✔	✔									
24.5	3	UK METRIC	✔																
24.6	2.4	UK METRIC	✔																
24.6	3.6	R19 FRENCH	✔																
24.7	3.5	P 25 JAPANESE	✔	✔		✔	✔		✔										
24.77	5.33	IMPERIAL-318 (1" * 3/16") (IT 6100)	✔	✔	✔	✔	✔	✔	✔		✔			✔		✔			✔
24.99	3.53	IMPERIAL-214 (1" * 1/8") (IT 4100)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
25	1		✔			✔	✔		✔										
25	1.3	\	✔																
25	1.5		✔						✔		✔								
25	2		✔	✔		✔	✔		✔		✔						✔		
25	2.4	R20b French																	
25	2.5		✔	✔		✔	✔		✔		✔	✔							
25	3		✔	✔		✔	✔		✔		✔	✔		✔					
25	3.5		✔						✔										
25	4		✔			✔	✔		✔		✔						✔		
25	4.5		✔																

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
25	5		✔						✔										
25	6		✔																
25	7		✔																
25.04	2.95	IMPERIAL-913 (13/16" TUBE OD)		✔					✔		✔								✔
25.07	2.62	IMPERIAL-120 (1" * 3/32") (IT 3100)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔
25.1	1.6	SWEDISH UK METRIC	✔	✔															
25.1	6.2		✔																
25.12	1.78	IMPERIAL-022 (1" * 1/16") (IT 2100)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔	✔	✔
25.2	3	SWEDISH	✔																
25.2	3.5	P 25.5 JAPANESE	✔	✔		✔	✔		✔										
25.3	2.4	SWEDISH	✔	✔															
25.5	1.6																		
25.5	3	UK METRIC	✔																✔
25.7	3.5	P 26 JAPANESE	✔	✔		✔	✔		✔	✔									
25.8	3.53	IMPERIAL-618 (IT 134)	✔																
26	1		✔						✔					✔					
26	1.2		✔																
26	1.5		✔	✔					✔										
26	2		✔	✔		✔	✔		✔		✔								✔
26	2.5		✔	✔		✔	✔		✔		✔								
26	3		✔	✔		✔	✔		✔	✔	✔	✔							
26	3.5		✔						✔										
26	4		✔																
26	4.5		✔																
26	5		✔	✔					✔		✔								
26	6								✔										
26	6.5		✔									✔							
26	7		✔						✔										
26.2	3	SWEDISH	✔	✔															
26.2	3.6	R20 FRENCH	✔																
26.34	5.33	IMPERIAL-319 (1 1/16" * 3/16") (IT 6105)	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔					✔
26.5	3	UK METRIC	✔																
26.51	5.33	IMPERIAL-321 (1 3/16" * 3/16") (IT 6115)																	
26.58	3.53	IMPERIAL-215 (1 1/16" * 1/8") (IT 4106)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔		✔
26.62	2.95	IMPERIAL-914 (7/8" TUBE OD)		✔					✔		✔								✔
26.64	2.62	IMPERIAL-121 (1 1/16" * 3/32") (IT 3106)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔		✔	✔
26.7	1.78	IMPERIAL-023 (1 1/16" * 1/16") (IT 2106)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔		✔	✔		✔
26.7	3.4			✔															
26.7	3.5		✔																
27	1		✔																
27	1.3		✔																
27	1.5		✔	✔															
27	1.7											✔							
27	2		✔	✔		✔	✔		✔		✔								
27	2.5		✔	✔		✔	✔		✔										
27	3		✔	✔		✔	✔		✔		✔								
27	3.5		✔																
27	4		✔																
27	4.5		✔						✔										
27	5		✔																
27	7		✔																
27	8										✔								
27.1	1.6	SWEDISH UK METRIC	✔	✔															
27.3	2.4	SWEDISH	✔																
27.3	2.7		✔																
27.3	3.5										✔								
27.4	3.1	G028 JAPANESE	✔																
27.5	1.6																		

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
27.5	2.5		✔																
27.5	3	UK METRIC	✔						✔										
27.6	2.4	UK METRIC	✔	✔					✔										
27.7	3.5	P 28 JAPANESE	✔	✔		✔	✔		✔										
27.8	3.6	R21 FRENCH	✔																
27.94	5.33	IMPERIAL-320 (1 1/8" * 3/16") (IT 6110)	✔	✔	✔	✔	✔	✔	✔		✔			✔					✔
28	1		✔						✔										
28	1.2																		
28	1.5		✔						✔										
28	2		✔	✔		✔	✔		✔		✔				✔				
28	2.4																		
28	2.5		✔	✔		✔	✔		✔		✔								
28	2.62		✔	✔															
28	3		✔	✔		✔	✔		✔		✔	✔		✔					
28	3.5		✔	✔					✔										
28	3.65		✔																
28	4		✔						✔		✔								
28	4.5		✔																
28	5		✔						✔										
28.17	3.53	IMPERIAL-216 (1 1/8" * 1/8") (IT 4112)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔
28.2	3		✔																
28.24	2.62	IMPERIAL-122 (1 1/8" * 3/32") (IT 3112)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔			✔	✔
28.3	1.78	IMPERIAL-024 (1 1/8" * 1/16") (IT 2112)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔	✔	✔
28.4	2.4			✔															
28.7	3.5	P 29 JAPANESE	✔	✔		✔	✔		✔										
29	1		✔																
29	1.5		✔																
29	2		✔	✔		✔	✔		✔		✔								
29	2.5		✔	✔		✔	✔		✔										
29	3		✔	✔		✔	✔		✔		✔	✔							
29	3.5		✔						✔										
29	4		✔						✔					✔					
29	4.5		✔																
29	5		✔																
29.1	1.6	SWEDISH UK METRIC	✔	✔															
29.1	2.55	R20b																	
29.2	3	SWEDISH	✔						✔								✔		
29.2	3.5	P 29.5 JAPANESE	✔	✔		✔	✔		✔										
29.3	3.6	R22 FRENCH	✔																
29.3	5.7			✔		✔	✔												
29.4	3.1	G030 JAPANESE	✔	✔		✔	✔		✔	✔									
29.5	1.6																		
29.5	3	UK METRIC	✔																
29.5	5.7		✔						✔										
29.51	5.33	IMPERIAL-321 (1 3/16" * 3/16") (IT 6115)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔					✔
29.6	2.4	UK METRIC	✔	✔															
29.7	3.4			✔															
29.7	3.5	P 30 JAPANESE	✔	✔		✔	✔		✔										
29.74	2.95	IMPERIAL-916 (1" TUBE OD)		✔					✔		✔								✔
29.75	3.53	IMPERIAL-217 (1 3/16" * 1/8") (IT 4118)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔
29.82	2.62	IMPERIAL-123 (1 3/16" * 3/32") (IT 3118)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔		✔		✔
29.87	1.78	IMPERIAL-025 (1 3/16" * 1/16") (IT 2118)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔				✔
30	1		✔	✔					✔										
30	1.5		✔	✔					✔		✔								
30	2		✔	✔		✔	✔		✔		✔								
30	2.5		✔	✔		✔	✔		✔		✔	✔							
30	3		✔	✔		✔	✔		✔		✔				✔				
30	3.5		✔						✔										

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
30	4		✔	✔		✔	✔		✔			✔							
30	4.5		✔						✔										
30	5		✔	✔					✔			✔		✔			✔		
30	6		✔						✔										
30	7		✔																
30.2	3		✔																
30.3	2.4		✔																
30.7	3.5	P 31 JAPANESE	✔	✔		✔	✔		✔										
30.8	3.6	R23 FRENCH	✔								✔								
31	1		✔																
31	1.5		✔																
31	2		✔	✔		✔	✔		✔		✔								
31	2.5		✔	✔		✔	✔		✔										
31	3		✔	✔		✔	✔		✔										
31	3.5		✔						✔		✔								
31	4		✔						✔										
31	4.5		✔																
31	5		✔						✔		✔								
31.12	5.33	IMPERIAL-322 (1 1/4" * 3/16") (IT 6125)	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔					✔
31.12	6.99	IMPERIAL-400 (1 1/4" * 1/4")																	
31.2	3		✔																
31.2	3.5	P 31.5 JAPANESE	✔	✔		✔	✔		✔										
31.35	3.53	IMPERIAL-218 (1 1/4" * 1/8") (IT 4125)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔		✔	✔
31.4	3.1	G032 JAPANESE	✔																
31.42	2.62	IMPERIAL-124 (1 1/4" * 3/32") (IT 3125)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔
31.47	1.78	IMPERIAL-026 (1 1/4" * 1/16") (IT 2125)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔			✔		✔
31.5	2			✔															
31.5	3	UK METRIC	✔																
31.6	2.4	UK METRIC	✔								✔								
31.7	3.5	P 32 JAPANESE	✔	✔		✔	✔		✔	✔									
32	1		✔						✔					✔					
32	1.5		✔						✔					✔					
32	2		✔	✔		✔	✔		✔		✔								
32	2.4		✔																
32	2.5		✔	✔		✔	✔		✔						✔				
32	3		✔	✔		✔	✔		✔		✔								
32	3.5		✔						✔		✔								
32	4		✔			✔	✔		✔			✔		✔	✔				
32	4.5		✔																
32	5		✔								✔								
32	5.7		✔																
32	6										✔								
32	7		✔																
32.1	1.6	SWEDISH UK METRIC	✔	✔															
32.2	3	SWEDISH UK METRIC	✔																
32.5	1.6																		
32.5	3		✔																
32.5	3.5		✔																
32.5	3.6	R24 FRENCH	✔																
32.6	2.5																✔		
32.69	5.33	IMPERIAL-323 (1 5/16" * 3/16") (IT 6130)	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔					✔
32.7	3.4			✔															
32.92	3.53	IMPERIAL-219 (1 5/16" * 1/8") (IT 4131)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔			✔	✔
32.99	2.62	IMPERIAL-125 (1 5/16" * 3/32") (IT 3131)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔			✔	✔
33	1		✔																
33	1.5		✔									✔							
33	1.8																✔		
33	2		✔	✔		✔	✔		✔										

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
33	2.5		✔	✔		✔	✔		✔										
33	3		✔	✔		✔	✔		✔		✔	✔							
33	3.5		✔																
33	4		✔						✔										
33	4.5		✔																
33	5		✔																
33.05	1.78	IMPERIAL-027 (1 5/16" * 1/16") (IT 2131)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔			✔		✔
33.3	2.4		✔	✔					✔										
33.7	3.5	P 34 JAPANESE	✔	✔		✔	✔		✔										
34	1		✔																
34	1.5		✔																
34	2		✔	✔		✔	✔		✔		✔	✔		✔					
34	2.5		✔	✔		✔	✔		✔										
34	3		✔	✔		✔	✔		✔		✔	✔							
34	3.5		✔																
34	4		✔						✔			✔		✔					
34	4.5		✔																
34	5		✔													✔			
34	6		✔						✔										
34	7		✔																
34.1	3.6	R25 FRENCH	✔																
34.2	3	SWEDISH	✔								✔								
34.29	5.33	IMPERIAL-324 (1 3/8" * 3/16") (IT 6135)	✔	✔	✔	✔	✔	✔	✔		✔	✔		✔					✔
34.3	2.4			✔															
34.4	3.1	G035 JAPANESE	✔	✔		✔	✔		✔	✔				✔					
34.42	2.95	IMPERIAL-918 (1 1/8" TUBE OD)		✔					✔		✔								
34.5	3	UK METRIC	✔																
34.52	3.53	IMPERIAL-220 (1 3/8" * 1/8") (IT 4137)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
34.59	2.62	IMPERIAL-126 (1 3/8" * 3/32") (IT 3137)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔
34.6	2.4	UK METRIC	✔																
34.65	1.78	IMPERIAL-028 (1 3/8" * 1/16") (IT 2137)	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔	✔			✔	✔	✔
34.7	3.5	P 35 JAPANESE	✔	✔		✔	✔		✔	✔									
35	1		✔								✔								
35	1.5		✔																
35	2		✔	✔		✔	✔		✔										
35	2.4																		
35	2.5		✔	✔		✔	✔		✔		✔								
35	3		✔	✔		✔	✔		✔		✔								
35	3.5		✔						✔										
35	3.6		✔																
35	4		✔	✔		✔	✔		✔		✔			✔					
35	4.5		✔								✔								
35	5		✔						✔								✔		
35	6																		
35	7		✔																
35.1	1.6	SWEDISH UK METRIC	✔																
35.2	3.5	P 35.5 JAPANESE	✔	✔					✔										
35.2	5.7		✔																
35.5	1.6																		
35.5	2			✔															
35.5	3	UK METRIC	✔																
35.6	3.6	R26 FRENCH	✔																
35.7	3.5	P 36 JAPANESE	✔	✔		✔	✔		✔										
36	1		✔																
36	1.5		✔	✔															
36	2		✔	✔		✔	✔		✔			✔							
36	2.5		✔	✔		✔	✔		✔		✔								
36	3		✔	✔		✔	✔		✔		✔							✔	

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
36	3.5		✔																
36	3.75														✔				
36	4		✔						✔		✔						✔		
36	4.5		✔																
36	5		✔								✔					✔			
36	7		✔						✔										
36.09	3.53	IMPERIAL-221 (1 7/16" * 1/8") (IT 4143)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔				✔
36.17	2.62	IMPERIAL-127 (1 7/16" * 3/32") (IT 3143)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔
36.2	3	SWEDISH	✔																
36.27	1.78	IMPERIAL-517 (1 7/16" * 1/16")	✔						✔										
36.5	3	UK METRIC																	
37	1		✔																
37	1.5		✔																
37	1.6																		
37	2		✔	✔		✔	✔		✔										
37	2.5		✔	✔		✔	✔		✔						✔				
37	3		✔	✔		✔	✔		✔		✔	✔							
37	3.5		✔						✔										
37	4		✔						✔					✔					
37	5		✔																
37	6		✔																
37.1	1.6	SWEDISH UK METRIC	✔																
37.3	3.6	R27 FRENCH	✔																
37.4	3.1	G038 JAPANESE	✔			✔	✔												
37.47	3	IMPERIAL-920 (1 1/4" TUBE OD)		✔					✔		✔								
37.47	5.33	IMP-325 (1 1/2" * 3/16")FR R28 (IT 6150)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔					✔
37.47	6.99	IMPERIAL-401 (1 1/2" * 1/4")																	
37.5	3	UK METRIC	✔																
37.5	4.5		✔																
37.5	5.7		✔																
37.5	7																		
37.6	2.4	UK METRIC	✔																
37.7	3		✔																
37.7	3.5	P 38 JAPANESE	✔	✔		✔	✔		✔	✔									
37.7	3.53	IMPERIAL-222 (1 1/2" * 1/8") (IT 4150)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔		✔	✔
37.77	2.62	IMPERIAL-128 (1 1/2" * 3/32") (IT 3150)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔			✔	✔
37.82	1.78	IMPERIAL-029 (1 1/2" * 1/16") (IT 2150)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
38	1		✔						✔										
38	1.5		✔						✔										
38	2		✔	✔		✔	✔		✔			✔							
38	2.4																		
38	2.5		✔	✔		✔	✔		✔		✔								
38	3		✔	✔		✔	✔		✔	✔	✔	✔		✔					
38	3.5		✔			✔	✔		✔									✔	
38	4		✔	✔		✔	✔		✔			✔							
38	4.5		✔						✔										
38	5		✔							✔									
38	7		✔			✔	✔		✔					✔					
38.3	7.76																		✔
38.7	3.5	P 39 JAPANESE	✔	✔		✔	✔		✔										
39	1		✔						✔										
39	1.5		✔																
39	2		✔	✔		✔	✔		✔										
39	2.5		✔	✔		✔	✔		✔										
39	3		✔	✔		✔	✔		✔										
39	3.5		✔																
39	4		✔						✔										
39	4.5		✔																

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
39	5		✔	✔							✔								
39	6.5		✔																
39.2	3	SWEDISH	✔						✔								✔		
39.2	5.7								✔		✔								
39.3	5.7		✔	✔		✔	✔												
39.34	2.62	IMPERIAL-129 (1 9/16" * 3/32") (IT 3156)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔				✔
39.4	3.1	G040 JAPANESE	✔	✔		✔	✔		✔	✔									
39.45	1.78	IMPERIAL-519 (1 9/16" * 1/16")	✔																
39.5	3	UK METRIC	✔																
39.5	6								✔										
39.6	2.4	UK METRIC	✔																
39.69	3.53	IMPERIAL-824 (1 9/16" * 1/8") (IT 144)	✔						✔		✔								
39.7	3.5	P 40 JAPANESE	✔	✔		✔	✔		✔	✔									
40	1		✔																
40	1.5		✔						✔										
40	2		✔	✔		✔	✔		✔										
40	2.4																		
40	2.5		✔	✔		✔	✔		✔		✔								
40	3		✔	✔		✔	✔		✔		✔	✔						✔	
40	3.5		✔			✔	✔		✔		✔								
40	4		✔			✔	✔		✔		✔	✔							
40	4.5		✔																
40	5		✔	✔		✔	✔		✔		✔								
40	5.3		✔																
40	5.7																		
40	6		✔																
40	7		✔																
40	12		✔																
40.04	3.53																		
40.64	5.33	IMP-326 (1 5/8" * 3/16")FR R29 (IT 6162)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔	✔	✔
40.65	6.99	IMPERIAL-402 (1 5/8" * 1/4")																	
40.7	3.5	P 41 JAPANESE	✔	✔		✔	✔		✔										
40.94	2.62	IMPERIAL-130 (1 5/8" * 3/32") (IT 3162)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔			✔	✔
41	1		✔																
41	1.5		✔						✔										
41	1.78	IMPERIAL-030 (1 5/8" * 1/16") (IT 2162)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔		✔		✔
41	2		✔						✔			✔							
41	2.5		✔	✔		✔	✔		✔										
41	3		✔	✔		✔	✔		✔			✔					✔		
41	3.5		✔																
41	4		✔	✔															
41	4.5		✔																
41	5		✔																
41.2	5.7		✔																
41.28	3.53	IMPERIAL-825 (IT 146)	✔									✔							
41.4	5.3	R29b French																	
41.5	3	UK METRIC	✔	✔															
41.6	2.4	UK METRIC	✔																
41.7	3.5	P 42 JAPANESE	✔	✔		✔	✔		✔	✔									
42	1		✔																
42	1.5		✔																
42	2		✔	✔		✔	✔		✔										
42	2.4																		
42	2.5		✔	✔		✔	✔		✔		✔								
42	3		✔	✔		✔	✔		✔		✔	✔							
42	3.5		✔																
42	4		✔						✔		✔								
42	4.5		✔																

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
42	5		✔						✔										
42	6		✔						✔										
42	7		✔									✔							
42	14		✔																
42.2	3	SWEDISH	✔								✔								
42.5	3	UK METRIC									✔								
42.52	2.62	IMPERIAL-131 (1 11/16" * 3/32")(IT 3168)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔
42.86	3.53	IMPERIAL-826 (1 11/16" * 1/8") (IT 147)	✔	✔															
43	1		✔																
43	1.5		✔						✔										
43	2		✔	✔		✔	✔		✔										
43	2.5		✔						✔										
43	3		✔	✔		✔	✔		✔			✔							
43	3.5		✔						✔										
43	4		✔																
43	4.5		✔																
43	5		✔						✔										
43	7					✔	✔												
43	8		✔																
43.4	3.5											✔							
43.4	3.6	R29t French																	
43.69	3	IMPERIAL-924 (1 1/2" TUBE OD)		✔					✔										✔
43.7	3.5	P 44 JAPANESE	✔	✔		✔	✔		✔										
43.82	5.33	IMP-327 (1 3/4" * 3/16")FR R30 (IT 6175)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔					✔
43.82	6.99	IMPERIAL-403 (1 3/4" * 1/4")								✔									
44	1		✔								✔								
44	1.5		✔																
44	2		✔	✔		✔	✔		✔						✔				
44	2.5		✔	✔		✔	✔		✔										
44	3		✔	✔		✔	✔		✔										
44	3.5		✔																
44	4		✔	✔					✔		✔								
44	4.5		✔																
44	5		✔																
44	5.5		✔																
44	6		✔																
44	7		✔																
44.04	3.53	IMPERIAL-224 (1 3/4" * 1/8") (IT 4175)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔
44.12	2.62	IMPERIAL-132 (1 3/4" * 3/32") (IT 3165)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔			✔	✔	✔
44.17	1.78	IMPERIAL-031 (1 3/4" * 1/16") (IT 2175)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔				✔
44.2	3	SWEDISH	✔														✔		
44.2	5.7	SWEDISH	✔						✔										
44.3	5.7	UK METRIC	✔																
44.4	3.1	G045 JAPANESE	✔	✔		✔	✔		✔	✔	✔	✔							
44.45	3.53	IMPERIAL-827	✔																
44.5	3	UK METRIC	✔																
44.6	2.4	UK METRIC	✔																
44.7	3.5	P 45 JAPANESE	✔	✔		✔	✔		✔										
45	1		✔																
45	1.5		✔																
45	2		✔	✔		✔	✔		✔		✔	✔		✔					
45	2.4																		
45	2.5		✔	✔		✔	✔		✔										
45	3		✔	✔		✔	✔		✔		✔	✔							
45	3.5		✔			✔	✔		✔			✔							
45	4		✔			✔	✔		✔		✔								
45	4.5		✔																
45	5		✔						✔		✔					✔			

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
45	6		✔						✔										
45	7		✔																
45.3	5.7	UK METRIC	✔																
45.5	1.5								✔										
45.69	2.62	IMPERIAL-133 (1 13/16" * 3/32")(IT 3181)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔
45.7	3.5	P 46 JAPANESE	✔	✔		✔	✔		✔										
46	1		✔																
46	1.5		✔																
46	2		✔	✔		✔	✔		✔										
46	2.5		✔	✔		✔	✔		✔										
46	3		✔	✔		✔	✔		✔			✔			✔			✔	
46	3.5		✔																
46	4		✔						✔										
46	4.5		✔																
46	5		✔						✔										
46.04	3.53	IMPERIAL-828 (1 13/16" * 1/8") (IT 150)	✔																
46.2	3		✔																
46.7	6										✔								
46.99	5.33	R31 French (IT 6187)																	
46.99	6.99	IMPERIAL-404 (1 7/8" * 1/4") (IT 6187)																	
47	1		✔																
47	1.5		✔								✔								
47	2		✔	✔		✔	✔		✔										
47	2.5		✔	✔		✔	✔		✔										
47	3		✔	✔		✔	✔		✔										
47	3.5		✔																
47	4		✔						✔										
47	4.5		✔																
47	5		✔						✔										
47	5.33	IMPERIAL-328 (1 7/8" * 3/16")	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔					✔
47	6		✔								✔								
47	7		✔																
47.22	3.53	IMPERIAL-225 (1 7/8" * 1/8") (IT 4187)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔	✔	✔
47.29	2.62	IMPERIAL-134 (1 7/8" * 3/32") (IT 3187)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔			✔	✔
47.37	1.78	IMPERIAL-032 (1 7/8" * 1/16") (IT 2187)	✔	✔	✔	✔	✔	✔	✔		✔	✔		✔	✔				✔
47.6	2.4		✔												✔				
47.6	5.7	P 48A JAPANESE	✔	✔					✔										
47.61	9.5										✔								
47.62	3.53	IMPERIAL-829 (IT 152)	✔						✔			✔							
47.7	3.5	P 48 JAPANESE	✔	✔		✔	✔		✔	✔									
48	1		✔																
48	1.5		✔						✔			✔							
48	2		✔	✔		✔	✔		✔						✔				
48	2.5		✔	✔		✔	✔		✔										
48	3		✔	✔		✔	✔		✔		✔	✔							
48	3.5		✔						✔										
48	4		✔	✔					✔		✔								
48	4.5		✔																
48	5		✔																
48	6		✔																
48	7		✔																
48.7	3.5	P 49 JAPANESE	✔	✔		✔	✔		✔										
48.9	2.62	IMPERIAL-135 (1 15/16" * 3/32")(IT 3193)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔	
49	1		✔																
49	1.5		✔																
49	2		✔	✔		✔	✔		✔			✔							
49	2.5		✔	✔		✔	✔		✔										
49	3		✔	✔		✔	✔		✔	✔	✔								

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
49	3.5		✔																
49	4		✔																
49	4.5		✔																
49	5		✔																
49	5.3		✔																
49.2	3.53	IMPERIAL-830 (1 15/16" * 1/8") (IT 153)	✔						✔			✔							
49.2	5.7	SWEDISH	✔																
49.3	5.7	UK METRIC																	
49.4	3.1	G050 JAPANESE	✔	✔		✔	✔		✔	✔				✔	✔				
49.5	3	SWEDISH UK METRIC	✔											✔					
49.6	2.4	UK METRIC	✔						✔		✔								
49.6	5.7	P 50A JAPANESE	✔	✔		✔	✔		✔										
49.7	3.5	P 50 JAPANESE	✔	✔		✔	✔		✔										
50	1		✔																
50	1.5		✔						✔										
50	2		✔	✔		✔	✔		✔										
50	2.4																		
50	2.5		✔	✔		✔	✔		✔										
50	3		✔	✔		✔	✔		✔		✔	✔			✔				
50	3.5		✔						✔										
50	4		✔	✔		✔	✔		✔		✔	✔		✔					
50	4.5		✔																
50	5		✔	✔		✔	✔		✔		✔								
50	5.3		✔																
50	6		✔								✔								
50	6.5			✔															
50	7		✔			✔	✔		✔					✔					
50.17	5.33	IMP-329 (2" * 3/16") FR R32 (IT 6200)	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔	✔		✔	✔
50.17	6.99	IMPERIAL-405 (2" * 1/4")																	
50.39	3.53	IMPERIAL-226 (2" * 1/8") (IT 4200)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔
50.47	2.62	IMPERIAL-136 (2" * 3/32") (IT 3200)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔
50.52	1.78	IMPERIAL-033 (2" * 1/16") (IT 2200)	✔	✔	✔	✔	✔	✔	✔		✔			✔	✔				✔
50.8	3.53	IMPERIAL-831 (IT 155)	✔									✔							
51	1.5		✔																
51	2		✔						✔										
51	2.5		✔						✔										
51	3		✔						✔										
51	3.5		✔																
51	4		✔																
51	5		✔			✔	✔												
51.6	2.4	UK METRIC	✔																
51.6	4.6		✔																
51.6	5.7	P 52 JAPANESE	✔	✔		✔	✔		✔										
52	1.5		✔																
52	2		✔						✔		✔	✔							
52	2.5		✔			✔	✔		✔										
52	3		✔	✔		✔	✔		✔		✔	✔					✔		
52	3.5		✔						✔										
52	4		✔						✔		✔	✔							
52	5		✔						✔		✔	✔							
52	6		✔																
52.07	2.62	IMPERIAL-137 (2 1/16" * 3/32") (IT 3206)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔			✔	✔
52.1	6.6																✔		
52.3	5.7	UK METRIC	✔																
52.4	3.53	IMPERIAL-832 (2 1/16" * 1/8") (IT 156)	✔	✔															
52.6	5.7	P 53 JAPANESE	✔	✔		✔	✔		✔										
53	1.5		✔						✔										
53	2		✔						✔										

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
53	2.2		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
53	2.5		☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
53	3		☑	☑	☐	☐	☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐
53	3.5		☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
53	4		☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☑	☐
53	4.5		☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
53	5		☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
53	6		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
53	6.5		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
53	7		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
53	10		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐
53.09	3	IMPERIAL-928 (1 3/4" TUBE OD)	☐	☑	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☑
53.34	5.33	IMP-330 (2 1/8" * 3/16")FR R33 (IT 6212)	☑	☑	☑	☑	☑	☑	☑	☑	☑	☐	☑	☑	☐	☐	☐	☐	☑
53.34	6.99	IMPERIAL-406 (2 1/8" * 1/4")	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
53.57	3.53	IMPERIAL-227 (2 1/8" * 1/8") (IT 4212)	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☐	☐	☐	☑	☑
53.64	2.62	IMPERIAL-138 (2 1/8" * 3/32") (IT 3212)	☑	☑	☑	☑	☑	☑	☑	☑	☑	☐	☑	☑	☑	☐	☐	☐	☑
53.67	1.78	IMPERIAL-034 (2 1/8" * 1/16") (IT 2212)	☑	☑	☑	☑	☑	☑	☑	☐	☑	☐	☐	☑	☑	☑	☑	☐	☑
53.98	3.53	IMPERIAL-833 (IT 158)	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
54	1.5		☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
54	2		☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐
54	2.5		☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐
54	3		☑	☑	☐	☐	☐	☐	☑	☐	☑	☑	☐	☐	☐	☐	☐	☐	☐
54	3.5		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
54	4		☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
54	4.75		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
54	5		☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
54	6		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
54	7		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
54	8		☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
54.2	5.7	SWEDISH	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
54.3	5.7	UK METRIC	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
54.4	3.1	G055 JAPANESE	☑	☑	☐	☑	☑	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
54.4	5.3	R33b French	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
54.5	3	SWEDISH UK METRIC	☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
54.6	2.4	UK METRIC	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
54.6	5.7	P 55 JAPANESE	☑	☑	☐	☑	☑	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
55	1		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
55	1.5		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
55	2		☑	☑	☐	☑	☑	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
55	2.5		☑	☐	☐	☑	☑	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
55	3		☑	☑	☐	☑	☑	☐	☑	☑	☑	☑	☐	☐	☑	☐	☐	☐	☑
55	3.5		☑	☑	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
55	4		☑	☑	☐	☑	☑	☐	☑	☐	☑	☑	☐	☐	☐	☐	☐	☐	☐
55	4.5		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
55	5		☑	☐	☐	☐	☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐
55	6		☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
55.25	2.62	IMPERIAL-139 (2 3/16" * 3/32") (IT 3218)	☑	☑	☑	☑	☑	☑	☑	☑	☑	☐	☑	☑	☐	☐	☑	☑	☑
55.3	5.7	UK METRIC	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
55.56	3.53	IMPERIAL-834 (2 3/16" * 1/8") (IT 159)	☑	☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☑	☐	☐	☐	☐
55.6	5.7	P 56 JAPANESE	☑	☑	☐	☑	☑	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
56	1.5		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
56	2		☑	☐	☐	☐	☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐
56	2.5		☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
56	3		☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
56	3.5		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
56	4		☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
56	5		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐	☐
56	5.7		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
56	6		✔																
56	7		✔																
56.52	5.33	IMP-331 (2 1/4" * 3/16")FR R34 (IT 6225)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔					✔
56.52	6.99	IMPERIAL-407 (2 1/4" * 1/4")																	
56.74	3.53	IMPERIAL-228 (2 1/4" * 1/8") (IT 4225)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔		✔	✔
56.82	2.62	IMPERIAL-140 (2 1/4" * 3/32") (IT 3225)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔	✔
56.87	1.78	IMPERIAL-035 (2 1/4" * 1/16") (IT 2225)	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔	✔				✔
57	1.5		✔						✔										
57	2		✔	✔					✔										
57	2.5		✔			✔	✔		✔										
57	3		✔			✔	✔		✔		✔				✔				
57	3.5		✔						✔			✔							
57	4		✔						✔										
57	5		✔																
57	7		✔																
57.1	6.3																✔		
57.15	3.53	IMPERIAL-835 (IT 161)	✔								✔								
57.4	3.1	G058 JAPANESE		✔		✔	✔												
57.6	2.4	UK METRIC	✔																
57.6	5.7	P 58 JAPANESE	✔	✔		✔	✔		✔										
58	1								✔										
58	1.5		✔																
58	2		✔						✔					✔					
58	2.5		✔						✔										
58	3		✔	✔					✔			✔							
58	3.5		✔																
58	4		✔						✔		✔								
58	5		✔																
58	5.7																		
58	6								✔		✔								
58.2	7		✔																
58.42	2.62	IMPERIAL-141 (2 5/16" * 3/32") (IT 3231)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔				✔	✔
58.74	3.53	IMPERIAL-836 (2 5/16" * 1/8") (IT 162)	✔						✔			✔							
59	1.5		✔																
59	2		✔						✔										
59	2.5		✔						✔										
59	3		✔						✔					✔					
59	3.5		✔			✔	✔												
59	4		✔																
59	5		✔																
59	7								✔										
59.2	5.7	SWEDISH	✔								✔								
59.3	5.7	UK METRIC																	
59.36	3	IMPERIAL-932 (2" TUBE OD)		✔						✔									✔
59.4	3.1	G060 JAPANESE	✔	✔		✔	✔		✔	✔									
59.5	3	SWEDISH UK METRIC	✔																
59.5	6.99								✔										
59.6	2.4	UK METRIC	✔						✔		✔								
59.6	5.7	P 60 JAPANESE	✔	✔		✔	✔		✔										
59.69	5.33	IMP-332 (2 3/8" * 3/16")FR R35 (IT 6237)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔		✔		✔	✔
59.69	6.99	IMPERIAL-408 (2 3/8" * 1/4")																	
59.92	3.53	IMPERIAL-229 (2 3/8" * 1/8") (IT 4237)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔
60	1		✔																
60	1.5		✔																
60	2		✔	✔		✔	✔		✔										
60	2.5		✔			✔	✔		✔										
60	2.62	IMPERIAL-142 (2 3/8" * 3/32") (IT 3237)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔				✔	✔
60	3		✔	✔					✔		✔	✔			✔				

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
60	3.5		✔																
60	4		✔			✔	✔		✔										
60	4.5		✔						✔										
60	5		✔			✔	✔		✔		✔	✔							
60	5.5		✔																
60	6		✔																
60	7		✔																
60	8		✔																
60	9		✔																
60	10		✔																
60.05	1.78	IMPERIAL-036 (2 3/8" * 1/16") (IT 2237)	✔	✔	✔	✔	✔	✔	✔		✔		✔	✔					✔
60.33	3.53	IMPERIAL-837 (2-3/8" * 1/8") (IT 164)	✔						✔			✔							
60.5	2.4																		
61	1.5		✔																
61	2		✔						✔			✔							
61	2.5		✔						✔										
61	3		✔						✔										
61	3.5		✔																
61	4		✔																
61	4.5								✔										
61	5		✔															✔	
61.6	2.4	UK METRIC	✔																
61.6	2.62	IMPERIAL-143 (2 7/16" * 3/32") (IT 3243	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔			✔		✔
61.6	5.7	P 62 JAPANESE	✔	✔		✔	✔		✔										
61.9	3.53	IMPERIAL-838 (2 7/16" * 1/8") (IT 165)	✔						✔										
62	1.5		✔						✔										
62	2		✔						✔										
62	2.5		✔						✔										
62	3		✔	✔		✔	✔		✔		✔				✔				
62	3.5		✔																
62	4		✔						✔		✔								
62	4.5		✔																
62	5		✔																
62	7		✔																
62.2	5.7	SWEDISH	✔																
62.3	5.7	UK METRIC																	
62.6	5.7	P 63 JAPANESE	✔	✔					✔										
62.87	5.33	IMP-333 (2 1/2" * 3/16")FR R36 (IT 6250)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔				✔	✔
62.87	6.99	IMPERIAL-409 (2 1/2" * 1/4")																	
63	1.5		✔																
63	2		✔						✔										
63	2.5		✔						✔										
63	3		✔						✔										
63	3.5		✔						✔										
63	4		✔			✔	✔												
63	4.5								✔										
63	5		✔						✔			✔							
63	5.7																		
63	7		✔			✔	✔		✔										
63.09	3.53	IMPERIAL-230 (2 1/2" * 1/8") (IT 4250)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔	✔	✔
63.17	2.62	IMPERIAL-144 (2 1/2" * 3/32") (IT 3250)	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔	✔			✔	✔
63.22	1.78	IMPERIAL-037 (2 1/2" * 1/16") (IT 2250)	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔					✔
63.5	3.53	IMPERIAL-839 (IT 167)	✔									✔							
64	1.5		✔																
64	2		✔						✔		✔	✔							
64	2.5		✔						✔										
64	3		✔	✔					✔		✔	✔							
64	3.5		✔																

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
64	4		✔						✔										
64	4.5		✔						✔		✔								
64	5		✔																
64	8													✔					
64.2	5.7	SWEDISH	✔					✔											
64.3	5.7	UK METRIC												✔					
64.4	3.1	G065 JAPANESE	✔	✔		✔	✔		✔	✔									
64.5	3	SWEDISH UK METRIC	✔														✔		
64.6	2.4	UK METRIC	✔																
64.6	5.7	P 65 JAPANESE	✔	✔		✔	✔		✔					✔					
64.77	2.62	IMPERIAL-145 (2 9/16" * 3/32") (IT 3256)	✔	✔	✔	✔	✔	✔	✔		✔			✔	✔		✔		✔
65	1		✔																
65	1.5		✔						✔										
65	2		✔	✔		✔	✔		✔										
65	2.5		✔			✔	✔		✔										
65	3		✔	✔					✔		✔	✔							
65	3.5		✔			✔	✔												
65	4		✔			✔	✔		✔										
65	4.5		✔						✔										
65	5		✔						✔										
65	6		✔																
65	6.5		✔																
65	7		✔																
65	8		✔																
65	10		✔																
65.09	3.53	IMPERIAL-840 (2 9/16" * 1/8") (IT 168)	✔	✔					✔			✔							
66	1.5		✔																
66	2		✔	✔					✔										
66	2.5		✔	✔					✔										
66	3		✔						✔			✔							
66	3.5		✔																
66	4		✔						✔										
66	4.5		✔						✔										
66	5		✔						✔										
66	5.7																		
66	7		✔									✔							
66.04	5.33	IMP-334 (2 5/8" * 3/16")FR R37 (IT 6282)	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔			✔	✔	✔
66.05	6.99	IMPERIAL-410 (2 5/8" * 1/4")																	
66.27	3.53	IMPERIAL-231 (2 5/8" * 1/8") (IT 4262)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔		✔		✔	✔
66.34	2.62	IMPERIAL-146 (2 5/8" * 3/32") (IT 3262)	✔	✔	✔	✔	✔	✔	✔		✔		✔	✔			✔	✔	✔
66.4	1.78	IMPERIAL-038 (2 5/8" * 1/16") (IT 2262)	✔	✔	✔			✔	✔	✔				✔					✔
66.6	5.7	P 67 JAPANESE	✔	✔		✔	✔		✔										
66.68	3.53	IMPERIAL-841 (IT 170)	✔																
67	1.5		✔						✔										
67	2		✔						✔										
67	2.5		✔						✔										
67	3		✔	✔					✔										
67	3.5		✔						✔										
67	4		✔						✔										
67	5		✔																
67	5.7		✔																
67	7		✔																
67.6	2.4	UK METRIC	✔																
67.6	5.7		✔																
67.95	2.62	IMPERIAL-147 (2 11/16" * 3/32")(IT 3268)	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔				✔	✔
68	1.5		✔						✔										
68	2		✔						✔										
68	2.5		✔						✔										

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
68	3		✔			✔	✔		✔			✔							
68	3.5		✔																
68	4		✔	✔		✔	✔		✔		✔								
68	5		✔						✔										
68	6													✔					
68.26	3.53	IMPERIAL-842 (2 11/16" * 1/8") (IT 171)	✔																
69	1.5		✔																
69	2		✔						✔										
69	2.5		✔						✔										
69	3		✔						✔										
69	3.5		✔																
69	4		✔																
69	4.5								✔										
69	5		✔						✔										
69	5.3		✔																
69	8		✔																
69.1	3.1															✔			
69.2	5.7	SWEDISH	✔																
69.22	5.33	IMP-335 (2 3/4" * 3/16")FR R38 (IT 6275)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔				✔	✔
69.22	6.99	IMPERIAL-411 (2 3/4" * 1/4")																	
69.3	5.7	UK METRIC																	
69.4	3.1	G070 JAPANESE	✔	✔		✔	✔		✔		✔	✔				✔			
69.44	3.53	IMPERIAL-232 (2 3/4" * 1/8") (IT 4275)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔				✔	✔
69.5	3	SWEDISH UK METRIC	✔																
69.52	2.62	IMPERIAL-148 (2 3/4" * 3/32")(IT 3275)	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔				✔
69.57	1.78	IMPERIAL-039 (2 3/4" * 1/16") (IT 2275)	✔	✔	✔			✔	✔	✔	✔			✔					✔
69.6	2.4	UK METRIC	✔																
69.6	5.7	P 70 JAPANESE	✔	✔		✔	✔		✔		✔								
69.85	3.53	IMPERIAL-843 (IT 173)	✔																
70	1		✔																
70	1.5		✔						✔										
70	2		✔			✔	✔		✔										
70	2.5		✔			✔	✔		✔										
70	3		✔						✔			✔							
70	3.5		✔						✔										
70	4		✔	✔		✔	✔		✔	✔	✔	✔							
70	4.5		✔																
70	5		✔			✔	✔		✔		✔	✔				✔			
70	5.5								✔										
70	6		✔																
70	7		✔																
70	8		✔																
70	10		✔										✔						
70.5	2.25													✔					
70.6	5.7	P 71 JAPANESE	✔	✔		✔	✔		✔										
71	2		✔	✔					✔										
71	2.5		✔						✔										
71	3		✔																
71	3.5		✔						✔										
71	4		✔																
71	4.5		✔						✔										
71	5		✔																
71	5.7																		
71.12	2.62	IMPERIAL-149 (2 13/16" * 3/32")(IT 3281)	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔					✔
71.44	3.53	IMPERIAL-844 (2 13/16" * 1/8") (IT 174)	✔						✔										
71.5	1.5		✔																
72	2		✔						✔		✔								
72	2.5		✔						✔										

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
72	3		✔	✔					✔		✔	✔		✔					
72	3.5		✔																
72	4		✔	✔					✔		✔								
72	5		✔																
72	5.5																	✔	
72	6										✔								
72	6.5		✔																
72	7		✔																
72.39	5.33	IMP-336 (2 7/8" * 3/16")FR R39 (IT 6287)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔		✔			✔
72.39	6.99	IMPERIAL-412 (2 7/8" * 1/4")																	
72.62	3.53	IMPERIAL-233 (2 7/8" * 1/8") (IT 4287)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔
72.69	2.62	IMPERIAL-150 (2 7/8" * 3/32") (IT 3287)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔					✔
72.75	1.78	IMPERIAL-040 (2 7/8" * 1/16") (IT 2287)	✔	✔	✔			✔	✔		✔			✔				✔	✔
72.75	1.97																		
73	1		✔																
73	2		✔						✔										
73	2.5		✔						✔										
73	3		✔						✔										
73	3.5		✔																
73	4		✔																
73	5		✔																
73	6		✔																
73	7		✔																
73.03	3.53	IMPERIAL-845 (2-7/8" * 1/8") (IT 176)	✔						✔										
74	2		✔						✔										
74	2.5		✔						✔						✔				
74	3		✔						✔	✔								✔	
74	3.5		✔																
74	4		✔																
74	5		✔																
74	6		✔																
74	12			✔															
74.2	5.7	SWEDISH	✔																
74.3	2.62	IMPERIAL-640 (2 15/16" * 3/32")	✔																
74.4	3.1	G075 JAPANESE	✔	✔		✔	✔		✔	✔									
74.5	3	SWEDISH UK METRIC	✔						✔										
74.6	5.7	P 75 JAPANESE	✔	✔		✔	✔		✔		✔								
74.61	3.53	IMPERIAL-846 (2 15/16" * 1/8") (IT 177)	✔						✔										
74.63	3.53																		
74.63	5.33	IMPERIAL-619 (2 15/16" * 3/16") (IT 178)	✔																
75	1.5		✔						✔										
75	2		✔			✔	✔		✔										
75	2.5		✔			✔	✔		✔										
75	3		✔	✔		✔	✔		✔		✔	✔							
75	3.5		✔						✔			✔					✔		
75	4		✔	✔		✔	✔							✔					
75	4.5		✔																
75	5		✔	✔					✔		✔								
75	6		✔																
75	7		✔			✔	✔												
75	8		✔																
75	10		✔																
75.57	5.33	IMP-337 (3" * 3/16") FR R40 (IT 6300)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔	✔	✔
75.57	6.99	IMPERIAL-413 (3" * 1/4")																	
75.79	3.53	IMPERIAL-234 (3" * 1/8") (IT 4300)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔	✔	✔
75.87	2.62	IMPERIAL-151 (3" * 3/32") (IT 3300)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔				✔
75.89	2.62	IMPERIAL-151 (3" * 3/32") (IT 3300)																	
75.92	1.78	IMPERIAL-041 (3" * 1/16") (IT 2300)	✔	✔	✔			✔	✔		✔		✔	✔					✔

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
76	1		✔																
76	1.5		✔																
76	2		✔						✔										
76	2.5		✔						✔										
76	3		✔						✔			✔							
76	3.5		✔																
76	4		✔						✔										
76	4.5								✔		✔								
76	5		✔																
76	6										✔								
76	7													✔					
76	9.5										✔								
76.2	6.8		✔																
77	2		✔						✔										
77	2.5		✔						✔			✔							
77	3		✔	✔					✔										
77	3.5		✔																
77	4		✔																
77	5		✔																
77	5.5		✔																
77.5	2.62	IMPERIAL-641 (3 1/16" * 3/32")	✔																
77.5	6.6																✔		
77.6	5.7	P 78 JAPANESE	✔			✔	✔												
78	2		✔						✔			✔							
78	2.5		✔						✔										
78	3		✔						✔										
78	3.5		✔																
78	4		✔						✔							✔	✔		
78	5		✔								✔								
78	7																		
78.74	5.33	IMP-338 (3 1/8" * 3/16")FR R41 (IT 6312)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔				✔	✔
78.75	6.99	IMPERIAL-414 (3 1/8" * 1/4")																	
78.97	3.53	IMPERIAL-235 (3 1/8" * 1/8") (IT 4312)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔				✔	✔
79	1.5		✔																
79	1.78	IMPERIAL-532 (3 1/8" * 1/16") (IT 2312)	✔																
79	2		✔						✔										
79	2.5		✔						✔										
79	3		✔						✔		✔	✔							
79	3.5		✔																
79	4		✔																
79	5		✔																
79	7		✔																
79.2	5.7	SWEDISH	✔																
79.3	5.7	UK METRIC																	
79.4	3.1	G080 JAPANESE	✔	✔		✔	✔		✔	✔						✔			
79.5	3	SWEDISH UK METRIC	✔						✔										
79.6	5.7	P 80 JAPANESE	✔	✔		✔	✔		✔		✔								
79.77	5.33	IMPERIAL-620 (IT 181	✔																
80	1		✔																
80	1.5		✔						✔										
80	1.78								✔										
80	2		✔			✔	✔		✔		✔	✔							
80	2.5		✔			✔	✔		✔		✔								
80	3		✔						✔		✔	✔		✔					
80	3.5		✔						✔			✔							
80	4		✔	✔		✔	✔		✔										
80	4.5		✔																
80	5		✔	✔							✔			✔			✔		

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
80	5.7		✔																
80	6		✔									✔							
80	6.5		✔																
80	8		✔																
80	10		✔																
80	12		✔																
80.4	3.5											✔							
80.6	2.62	IMPERIAL-642 (3 3/16" * 3/32")	✔																
81	2		✔						✔										
81	2.5		✔						✔								✔		
81	3		✔						✔										
81	4		✔																
81	5		✔																
81	7		✔																
81.3	2.4										✔								
81.92	5.33	IMP-339 (3 1/4" * 3/16")FR R42 (IT 6325)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔				✔	✔
81.92	6.99	IMPERIAL-415 (3 1/4" * 1/4")																	
82	1.5		✔																
82	2		✔						✔										
82	2.5		✔						✔										
82	3		✔						✔		✔								
82	4		✔						✔			✔							
82	5		✔						✔										
82	7		✔			✔	✔		✔										
82.14	3.53	IMPERIAL-236 (3 3/8" * 1/8") (IT 4325)	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔			✔	✔
82.2	5.7	SWEDISH	✔																
82.22	2.62	IMPERIAL-152 (3 1/4" * 3/32") (IT 3325)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔					✔
82.27	1.78	IMPERIAL-042 (3 1/4" * 1/16") (IT 2325)	✔	✔	✔			✔	✔		✔	✔		✔	✔				✔
83	2		✔						✔										
83	2.5		✔			✔	✔										✔		
83	3		✔																
83	3.5		✔									✔							
83	4		✔						✔										
83	5		✔																
83	9		✔																
83.8	2.62	IMPERIAL-643 (3 5/16" * 3/32")	✔																
84	2		✔						✔			✔							
84	2.5		✔																
84	3		✔						✔		✔								
84	3.5		✔																
84	4		✔						✔										
84	5		✔																
84	5.7																✔		
84.1	5.7	SWEDISH																	
84.2	5.7	SWEDISH	✔																
84.3	5.7	UK METRIC																	
84.4	3.1	G085 JAPANESE	✔	✔		✔	✔		✔	✔									
84.5	3	SWEDISH UK METRIC	✔																
84.6	5.7	P 85 JAPANESE	✔	✔		✔	✔		✔										
85	1		✔																
85	1.5		✔						✔										
85	2		✔			✔	✔		✔			✔						✔	
85	2.5		✔	✔		✔	✔		✔		✔							✔	
85	3		✔						✔		✔	✔		✔					
85	3.5		✔																
85	4		✔			✔	✔		✔		✔								
85	4.5		✔																
85	5		✔	✔							✔								

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
85	7		✔																
85	8		✔																
85	10		✔										✔						
85	12		✔																
85.09	5.33	IMP-340 (3 3/8" * 3/16")FR R43 (IT 6337)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔	✔	✔
85.09	6.99	IMPERIAL-416 (3 3/8" * 1/4")																	
85.32	3.53	IMPERIAL-237 (3 3/8" * 1/8") (IT 4337)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔		✔
85.34	1.78	IMPERIAL-534 (3 3/8" * 1/16") (IT 2337)	✔																
86	1.5		✔																
86	2		✔	✔					✔									✔	
86	2.5		✔																
86	3		✔									✔							
86	3.5																✔		
86	4		✔																
86	5		✔																
86	6		✔																
86	8													✔					
87	2		✔																
87	2.5		✔																
87	3		✔						✔										
87	4		✔																
87	5		✔																
87	9																		
87.1	2.4		✔																
87.2	5.7	SWEDISH	✔																
88	1.5		✔																
88	2		✔						✔			✔							
88	2.5		✔						✔										
88	3		✔						✔										
88	3.5		✔																
88	4		✔						✔		✔								
88	5		✔																
88	6			✔					✔										
88	6.5																		
88	7		✔			✔	✔											✔	
88	8																		
88.27	5.33	IMP-341 (3 1/2" * 3/16")FR R44 (IT 6350)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔					✔
88.27	6.99	IMPERIAL-417 (3 1/2" * 1/4")																	
88.49	3.53	IMPERIAL-238 (3 1/2" * 1/8") (IT 4350	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔	✔
88.57	2.62	IMPERIAL-153 (3 1/2" * 3/32") (IT 3350)	✔	✔	✔	✔	✔	✔	✔		✔			✔				✔	✔
88.62	1.78	IMPERIAL-043 (3 1/2 * 1/16") (IT 2350)	✔	✔	✔			✔	✔	✔	✔	✔	✔	✔					✔
89	2		✔						✔										
89	3		✔																
89	4		✔																
89	5		✔																
89	7		✔						✔										
89	12																		
89.1	5.7	SWEDISH							✔										
89.2	5.7	SWEDISH	✔																
89.3	5.7	UK METRIC							✔				✔						
89.4	3.1	G090 JAPANESE	✔	✔		✔	✔		✔	✔						✔			
89.5	3	SWEDISH UK METRIC	✔						✔										
89.6	5.7	P 90 JAPANESE	✔	✔		✔	✔		✔										
89.69	5.33	IMPERIAL-621 (3 9/16" * 3/16") (IT 185)	✔						✔										
90	1		✔																
90	2		✔			✔	✔		✔										
90	2.5		✔			✔	✔		✔										
90	3		✔	✔		✔	✔		✔		✔	✔							✔

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
90	3.5		✔						✔										
90	4		✔	✔		✔	✔		✔		✔								
90	4.5		✔																
90	5		✔	✔		✔	✔				✔			✔		✔			
90	6		✔																
90	6.33																		
90	7		✔														✔		
90	8		✔																
90	10		✔																
91	2		✔																
91	3		✔																
91	3.5											✔							
91	4		✔																
91	5		✔																
91.44	5.33	MP-342 (3 5/8" * 3/16") (IT 6362) R45 FRENCH	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔			✔	✔	✔
91.44	6.99	IMPERIAL-418 (3 5/8" * 1/4")																	
91.67	3.53	IMPERIAL-239 (3 5/8" * 1/8") (IT 4362)	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔		✔	✔	✔	✔
91.69	1.78	IMPERIAL-536 (3 5/8" * 1/16") (IT 2362)	✔									✔							
92	1.5		✔																
92	2		✔																
92	2.5		✔						✔										
92	3		✔	✔					✔			✔	✔						
92	3.5		✔																
92	4		✔																
92	5		✔																
92	6								✔										
92	7		✔						✔										
92	10										✔								
92.2	5.7		✔								✔								
93	2		✔																
93	3		✔	✔					✔										
93	4		✔																
93	5		✔																
93	6								✔										
94	2		✔																
94	2.5		✔																
94	3		✔									✔							
94	4		✔			✔	✔												
94	8																		
94.1	5.7	SWEDISH	✔																
94.3	5.7	UK METRIC																	
94.4	3.1	G095 JAPANESE	✔	✔		✔	✔		✔	✔									
94.5	3	SWEDISH UK METRIC	✔						✔										
94.6	5.7	P 95 JAPANESE	✔	✔		✔	✔		✔		✔								
94.6	7																		
94.62	5.33	IMPERIAL-343 (3 3/4" * 3/16") R46 FRENCH	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔	✔	✔
94.62	6.99	IMPERIAL-419 (3 3/4" * 1/4") (IT 6375)																	
94.84	3.53	IMPERIAL-240 (3 3/4" * 1/8") (IT 4375)	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔				✔	✔
94.92	2.62	IMPERIAL-154 (3 3/4" * 3/32") (IT 3375)	✔	✔	✔	✔	✔	✔	✔		✔		✔	✔					✔
94.97	1.78	IMPERIAL-044 (3 3/4" * 1/16") (IT 2375)	✔	✔	✔			✔	✔		✔			✔	✔				
95	1		✔																
95	1.5								✔										
95	2		✔			✔	✔		✔										
95	2.5		✔			✔	✔		✔										
95	3		✔						✔		✔								
95	3.5		✔																
95	4		✔			✔	✔		✔		✔	✔							
95	5		✔								✔	✔		✔					

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
95	5.7																		
95	6		✔																
95	7		✔			✔	✔												
95	8		✔																
96	2		✔						✔										
96	2.5		✔						✔										
96	3		✔						✔			✔							
96	4		✔	✔												✔			
96	5		✔																
96	6		✔																
97	1.5		✔																
97	2		✔						✔										
97	2.5		✔						✔										
97	3		✔			✔	✔		✔										
97	4		✔						✔										
97	5		✔																
97.79	5.33	IMP-344 (3 7/8" * 3/16")FR R47 (IT 6387)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔				✔	✔
97.79	6.99	IMPERIAL-420 (3 7/8" * 1/4")																	
98	1.5		✔																
98	2		✔						✔										
98	2.5		✔						✔										
98	3		✔						✔		✔	✔					✔		
98	3.5		✔																
98	4		✔	✔		✔	✔		✔										
98	5		✔						✔										
98	7															✔			
98	9																		
98.02	3.53	IMPERIAL-241 (3 7/8" * 1/8") (IT 4387)	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔				✔	✔
98.05	1.78	IMPERIAL-538 (3 7/8" * 1/16") (IT 2387)	✔																
99	2		✔						✔										
99	2.5								✔										
99	3		✔						✔		✔								
99	4		✔																
99	5.7										✔								
99	6		✔						✔										
99	7		✔																
99.1	5.7	SWEDISH	✔						✔										
99.3	5.7	UK METRIC	✔																
99.4	3.1	G100 JAPANESE	✔	✔		✔	✔		✔	✔	✔	✔							
99.5	3	SWEDISH UK METRIC	✔						✔								✔		
99.6	5.7	P 100 JAPANESE	✔	✔		✔	✔		✔										
100	1		✔						✔										
100	1.5		✔						✔										
100	2		✔			✔	✔		✔										
100	2.5		✔			✔	✔		✔										
100	3		✔			✔	✔		✔		✔								
100	3.5		✔																
100	4		✔			✔	✔		✔		✔	✔							
100	4.5		✔																
100	5		✔			✔	✔		✔		✔	✔					✔		
100	5.33	IMPERIAL-622 (3 15/16" * 3/16") (IT 189)	✔																
100	6		✔						✔										
100	7		✔						✔										
100	8		✔																
100	10		✔																
100	12		✔																
100	15																		
100.97	5.33	IMP-345 (4" * 3/16") FR R48 (IT 6400)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔				✔	✔

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
100.97	6.99	IMPERIAL-421 (4" * 1/4")	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	✔	☐
101	3		✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
101	7		✔	☐	☐	✔	✔	☐	☐	☐	☐	☐	☐	✔	☐	☐	☐	☐	☐
101.19	3.53	IMPERIAL-242 (4" * 1/8") (IT 4400)	✔	✔	✔	✔	✔	✔	✔	☐	✔	✔	✔	✔	☐	☐	☐	✔	✔
101.27	2.62	IMPERIAL-155 (4" * 3/32") (IT 3400)	✔	✔	✔	✔	✔	✔	✔	✔	✔	☐	✔	✔	✔	✔	☐	✔	✔
101.34	1.78	IMPERIAL-045 (4" * 1/16") (IT 2400)	✔	✔	✔	☐	☐	✔	✔	☐	✔	☐	☐	✔	☐	☐	☐	☐	✔
101.6	5.7	P 102 JAPANESE	✔	✔	☐	✔	✔	☐	✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
102	2		✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	✔	☐	☐	☐	☐	☐
102	3		✔	✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
102	4		✔	☐	☐	☐	☐	☐	✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
102	5.7		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
103	2		☐	☐	☐	☐	☐	☐	✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
103	2.5		✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
103	3		✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
104	1.5		✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
104	3		✔	✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
104	4		✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
104	6		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
104	7		✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
104	8		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	✔	☐	☐	☐	☐	☐
104	8.4		☐	✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
104.1	5.7	SWEDISH	✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
104.14	5.33	IMP-346 (4 1/8" * 3/16")FR R49(IT 6412)	✔	✔	✔	✔	✔	✔	✔	☐	✔	☐	✔	✔	☐	☐	☐	☐	✔
104.15	6.99	IMPERIAL-422 (4 1/8" * 1/4")	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
104.3	5.7	UK METRIC	☐	☐	☐	☐	☐	☐	☐	☐	✔	☐	☐	☐	☐	☐	☐	☐	☐
104.37	3.53	IMPERIAL-243 (4 1/8" * 1/8") (IT 4412)	✔	✔	✔	✔	✔	✔	✔	☐	✔	☐	✔	✔	☐	☐	☐	☐	✔
104.4	1.78	IMPERIAL-540 (4 1/8" * 1/16") (IT 2412)	✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
104.4	3.1	G105 JAPANESE	✔	✔	☐	✔	✔	☐	✔	☐	☐	☐	☐	☐	☐	✔	☐	☐	☐
104.5	3	SWEDISH UK METRIC	✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
104.6	5.7	P 105 JAPANESE	✔	✔	☐	✔	✔	☐	✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
104.8	3.5		☐	☐	☐	☐	☐	☐	☐	☐	☐	✔	☐	☐	☐	☐	☐	☐	☐
105	1.5		✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
105	2		✔	☐	☐	☐	☐	☐	✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
105	2.5		✔	✔	☐	☐	☐	☐	✔	☐	✔	☐	☐	☐	☐	☐	☐	☐	☐
105	3		✔	☐	☐	☐	☐	☐	✔	☐	✔	✔	☐	☐	☐	☐	☐	☐	☐
105	3.5		✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
105	4		✔	☐	☐	☐	☐	☐	✔	☐	☐	✔	☐	☐	☐	☐	☐	☐	☐
105	4.5		✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
105	5		✔	☐	☐	☐	☐	☐	✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
105	7		✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
105	9.5		✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
105	10		✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
106	2		✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
106	6		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
106	8		☐	☐	☐	☐	☐	☐	☐	☐	✔	☐	☐	☐	☐	☐	☐	☐	☐
106.5	3.5		☐	☐	☐	☐	☐	☐	☐	☐	☐	✔	☐	☐	☐	☐	☐	☐	☐
107	1.5		✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
107	2		✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
107	3		✔	☐	☐	☐	☐	☐	✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
107	4		✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
107	5		✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
107	7		✔	☐	☐	✔	✔	☐	✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
107	8		☐	☐	☐	☐	☐	☐	✔	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
107.32	5.33	IMPERIAL-347 (4 1/4" * 3/16")R50 FRENCH	✔	✔	✔	✔	✔	✔	✔	☐	✔	✔	✔	✔	☐	☐	✔	✔	✔
107.32	6.99	IMPERIAL-423 (4 1/4" * 1/4") (IT 6425)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	✔	☐	☐	☐	✔	☐
107.54	3.53	IMPERIAL-244 (4 1/4" * 1/8") (IT 4425)	✔	✔	✔	✔	✔	✔	✔	✔	✔	☐	✔	✔	☐	✔	☐	✔	✔
107.62	2.62	IMPERIAL-156 (4 1/4" * 3/32") (IT 3425)	✔	✔	✔	✔	✔	✔	✔	✔	✔	☐	☐	✔	☐	☐	✔	☐	✔
107.7	1.78	IMPERIAL-046 (4 1/4" * 1/16") (IT 2425)	✔	✔	✔	☐	☐	✔	✔	☐	✔	☐	☐	✔	☐	☐	☐	☐	✔

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
108	2.5		✔																
108	3		✔						✔										
108	4		✔						✔									✔	
108	6		✔																
108	7		✔																
108	8		✔																
108	16		✔																
109	3		✔																
109.1	5.7	SWEDISH											✔						
109.2	5.7								✔										
109.3	5.7	UK METRIC																	
109.4	3.1	G110 JAPANESE	✔	✔		✔	✔		✔			✔				✔			
109.5	3	SWEDISH UK METRIC	✔								✔								
109.54	2.62																✔		
109.54	5.33	IMPERIAL-623 (IT 193)	✔																
109.6	5.7	P 110 JAPANESE	✔	✔		✔	✔		✔										
110	2		✔																
110	2.4																		
110	2.5		✔						✔										
110	3		✔						✔		✔	✔		✔					
110	3.5		✔																
110	4		✔			✔	✔		✔		✔			✔					
110	4.5		✔																
110	5		✔			✔	✔		✔			✔							
110	6		✔																
110	7		✔			✔	✔												
110	8																		
110	10		✔																
110	12		✔																
110.49	5.33	IMP-348 (4 3/8" * 3/16")FR R51 (IT 6437)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔				✔	✔
110.49	6.99	IMPERIAL-424 (4 3/8" * 1/4"																	
110.72	3.53	IMPERIAL-245 (4 3/8" * 1/8") (IT 4437)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔					✔
110.74	1.78	IMPERIAL-542 (4 3/8" * 1/16") (IT 2437)	✔																
111.6	5.7	P 112 JAPANESE	✔	✔		✔	✔		✔										
112	2		✔																
112	2.5								✔										
112	3		✔						✔			✔							
112	4		✔						✔										
112	7								✔										
113	2.5		✔						✔										
113	3								✔										
113	4		✔						✔			✔							
113.67	5.33	IMP-349 (4 1/2" * 3/16" FR R52 (IT 6450)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔				✔	
113.67	6.99	IMP-425 (4 1/2" * 1/4") FR R53 (IT 8450)	✔	✔	✔	✔	✔	✔	✔		✔			✔			✔		✔
113.89	3.53	IMPERIAL-246 (4 1/2" * 1/8") (IT 4450)	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔		✔	✔	
113.97	2.62	IMPERIAL-157 (4 1/2" * 3/3") (IT 3450)	✔	✔	✔			✔	✔	✔	✔		✔	✔			✔	✔	✔
114	1.78	IMPERIAL-047 (4 1/2" * 1/16") (IT 2450)	✔	✔	✔				✔	✔	✔			✔		✔			✔
114	3		✔	✔															
114	3.5		✔																
114	5		✔																
114	8		✔																
114	10		✔																
114.3	5.7	SWEDISH UK METRIC									✔								
114.4	3.1	G115 JAPANESE	✔	✔		✔	✔		✔							✔			
114.5	3	SWEDISH UK METRIC									✔								
114.5	8.4																		
114.5	12		✔																
114.6	5.7	P 115 JAPANESE	✔	✔		✔	✔		✔		✔								

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS

ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
114.7	6.99	IMPERIAL-624 (4 9/16" * 1/4") (IT 197)	✔																
115	2		✔						✔										
115	2.5		✔						✔										
115	3		✔	✔							✔								
115	4		✔			✔	✔		✔										
115	4.5		✔																
115	5		✔	✔		✔	✔		✔							✔			
115	6		✔																
115	8																		
116	3		✔																
116	3.5		✔																
116	4		✔																
116.84	5.33	IMPERIAL-350 (4 5/8" * 3/16")	✔	✔	✔	✔	✔	✔	✔		✔		✔	✔				✔	✔
116.84	6.99	IMP-426 (4 5/8" * 1/4") FR R54 (IT 8462)	✔	✔	✔			✔	✔		✔		✔	✔					
117	4		✔	✔		✔	✔		✔	✔	✔								
117.07	3.53	IMPERIAL-247 (4 5/8" * 1/8") (IT 4462)	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔				✔	✔
117.1	1.78	IMPERIAL-544 (4 5/8" * 1/16") (IT 2462)	✔						✔										
117.5	5.33	IMPERIAL-860 (IT 199)	✔								✔								
118	2		✔																
118	3		✔																
118	3.5		✔																
118	6		✔						✔										
119	2.5		✔																
119	3		✔						✔										
119	12												✔						
119.3	5.7	SWEDISH UK METRIC	✔																
119.4	3.1	G120 JAPANESE	✔	✔		✔	✔		✔		✔	✔							
119.5	3		✔			✔	✔				✔								
119.6	5.7	P 120 JAPANESE	✔	✔		✔	✔		✔										
120	2		✔						✔		✔	✔							
120	2.4								✔										
120	2.5		✔						✔					✔					
120	3		✔						✔			✔							
120	3.5		✔									✔							
120	4		✔			✔	✔		✔										
120	4.5		✔																
120	5		✔			✔	✔		✔										
120	6		✔																
120	10		✔																
120	12		✔																
120.02	5.33	IMPERIAL-351 (4 3/4" * 3/16")	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔					
120.02	6.99	IMP-427 (4 3/4" * 1/4") FR R55 (IT 8475)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔					
120.24	3.53	IMPERIAL-248 (4 3/4" * 1/8") (IT 4475)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔					✔
120.32	2.62	IMPERIAL-158 (4 3/4" * 3/32") (IT 3475)	✔	✔	✔	✔	✔	✔	✔		✔			✔					✔
120.4	1.78	IMPERIAL-048 (4 3/4" * 1/16") (IT 2475)	✔	✔	✔			✔	✔		✔			✔					
120.7	5.33	IMPERIAL-861 (IT 201)	✔																
122	2		✔						✔										
122	3		✔																
122	3.5		✔																
122	4																		
123	2.5		✔																
123	3.5		✔									✔							
123	5.7		✔																
123.19	5.33	IMPERIAL-352 (4 7/8" * 3/16")	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔					
123.19	6.99	IMP-428 (4 7/8" * 1/4") FR R56 (IT 8487)	✔	✔	✔	✔	✔	✔	✔		✔		✔						
123.42	3.53	IMPERIAL-249 (4 7/8" * 1/8") (IT 4487)	✔	✔	✔	✔	✔	✔	✔		✔		✔	✔	✔	✔	✔	✔	
123.44	1.78	IMPERIAL-546 (4 7/8" * 1/16") (IT 2487)	✔																
123.75	3.6																✔		

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
123.8	5.33	IMPERIAL-862 (IT 203)	✔																
124	3		✔																
124	4		✔																
124.3	5.7	SWEDISH UK METRIC																	
124.4	3.1	G125 JAPANESE	✔	✔		✔	✔		✔										
124.5	3	SWEDISH UK METRIC							✔		✔								
124.6	5.7	P 125 JAPANESE	✔	✔		✔	✔		✔										
124.6	6.99	IMPERIAL-625 (IT 204)	✔																
125	1.5		✔																
125	2		✔									✔							
125	2.5		✔						✔										
125	3		✔								✔	✔							
125	3.5		✔																
125	4		✔			✔	✔		✔		✔								
125	5		✔	✔		✔	✔		✔		✔			✔					
125	6		✔																
125	8		✔																
125	10		✔																
125	12		✔																
126	2.5		✔																
126	3		✔																
126	4		✔						✔										
126.37	5.33	IMPERIAL-353 (5" * 3/16")	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔					
126.37	6.99	IMP-429 (5" * 1/4") FR R57 (IT 8500)	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔					
126.59	3.53	IMPERIAL-250 (5" * 1/8") (IT 4500)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔	✔	✔
126.67	2.62	IMPERIAL-159 (5" * 3/32") (IT 3500)	✔	✔	✔			✔	✔		✔			✔		✔			✔
126.76	1.78	IMPERIAL-049 (5" * 1/16") (IT 2500)	✔	✔	✔			✔	✔		✔								
127	5.33	IMPERIAL-863 (IT 206)	✔																
127	9.5										✔								
128	2		✔																
128	3		✔						✔		✔								
128	3.5																		
128	4								✔										
128	5								✔										
128	6		✔						✔										
128	9		✔																
129.3	5.7	SWEDISH UK METRIC	✔										✔						
129.4	1.78	IMPERIAL-548 (5 1/8" * 1/16") (IT 2512)	✔																
129.4	3.1	G130 JAPANESE	✔	✔		✔	✔		✔										
129.5	3		✔								✔								
129.54	5.33	IMPERIAL-354 (5 1/8" * 3/16")	✔	✔	✔	✔	✔	✔	✔		✔			✔				✔	
129.54	6.99	IMP-430 (5 1/8" * 1/4")FR R58 (IT 8512)	✔	✔	✔	✔	✔	✔	✔		✔		✔						
129.6	5.7	P 130 JAPANESE	✔	✔		✔	✔		✔										
129.77	3.53	IMPERIAL-251 (5 1/8" * 1/8") (IT 4512)	✔	✔	✔	✔	✔	✔	✔		✔			✔					✔
130	2		✔						✔					✔					
130	2.5		✔						✔										
130	3		✔						✔		✔								
130	3.5		✔																
130	4		✔			✔	✔		✔										
130	5		✔			✔	✔		✔		✔								
130	6		✔						✔										
130	6.5		✔																
130	8																		
130	10		✔																
130	12		✔																
130	14											✔							
130.18	5.33	IMPERIAL-864 (IT 208)	✔																
131	2.5																		

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS

ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
131	3.5		✔																
131.6	5.7	P 132 JAPANESE	✔	✔					✔										
132	2		✔																
132	2.5		✔																
132	3		✔																
132	4		✔																
132	10								✔										
132.72	5.33	IMPERIAL-355 (5 1/4" * 3/16")	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔					
132.72	6.99	IMP-431 (5 1/4" * 1/4")FR R59 (IT 8525)	✔	✔	✔	✔	✔	✔	✔		✔								
132.94	3.53	IMPERIAL-252 (5 1/4" * 1/8") (IT 4525)	✔	✔	✔	✔	✔	✔	✔		✔		✔	✔					
133	2.62	IMPERIAL-160 (5 1/4" * 3/32") (IT 3525)	✔	✔	✔			✔	✔		✔	✔		✔					✔
133	4		✔						✔										
133	4.5		✔																
133.07	1.78	IMPERIAL-050 (5 1/4" * 1/16") (IT 2525)	✔	✔	✔			✔	✔		✔			✔					
133.35	5.33	IMPERIAL-865 (IT 210)	✔																
134	3		✔											✔					
134	4		✔	✔		✔	✔												
134	5.7															✔			
134	7																		
134.3	5.7	SWEDISH UK METRIC	✔																
134.4	3.1	G135 JAPANESE	✔	✔		✔	✔		✔										
134.5	3	SWEDISH UK METRIC									✔								
134.5	6.99	IMPERIAL-626 (IT 211)	✔																
134.6	5.7	P 135 JAPANESE	✔	✔		✔	✔		✔										
135	2		✔																
135	2.5		✔						✔										
135	3		✔						✔		✔								
135	3.5		✔																
135	4		✔			✔	✔		✔										
135	5		✔			✔	✔		✔					✔					
135	6		✔																
135	8		✔																
135	10		✔																
135.65	6.35											✔							
135.76	1.78	IMPERIAL-550 (5 3/8" * 1/16") (IT 2537)	✔																
135.89	5.33	IMPERIAL-356 (5 3/8" * 3/16")	✔	✔	✔	✔	✔	✔	✔		✔			✔					
135.89	6.99	IMP-432 (5 3/8" * 1/4")FR R60 (IT 8537)	✔	✔	✔	✔	✔	✔	✔			✔		✔				✔	
136	3		✔											✔					
136	4										✔								
136	12		✔																
136.12	3.53	IMPERIAL-253 (5 3/8" * 1/8") (IT 4537)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔		✔			
136.53	5.33	IMPERIAL-866 (IT 213)	✔																
138	3		✔			✔	✔												
138.5	5															✔			
138.94	1.78	IMPERIAL-551 (5 1/2" * 1/16") (IT 2550)	✔																
139	3		✔																
139.07	5.33	IMPERIAL-357 (5 1/2" * 3/16")	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔					✔
139.07	6.99	IMP-433 (5 1/2" * 1/4")FR R61 (IT 8550)	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔					✔
139.12	3.53																		
139.29	3.53	IMPERIAL-254 (5 1/2" * 1/8") (IT 4550)	✔	✔	✔	✔	✔	✔	✔		✔	✔		✔				✔	✔
139.3	5.7	SWEDISH UK METRIC	✔																
139.37	2.62	IMPERIAL-161 (5 1/2" * 3/32") (IT 3550)	✔	✔	✔			✔	✔		✔			✔					✔
139.4	3.1	G140 JAPANESE	✔	✔		✔	✔		✔										
139.5	3		✔								✔								
139.6	5.7	P 140 JAPANESE	✔	✔		✔	✔		✔			✔		✔				✔	
139.7	5.33	IMPERIAL-867 (IT 215)	✔																
140	1.78								✔										
140	2		✔						✔										

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
140	2.5		✔						✔										
140	3		✔									✔							
140	3.5		✔																
140	4		✔	✔		✔	✔		✔		✔	✔							
140	5		✔	✔		✔	✔		✔		✔			✔					
140	8		✔								✔								
140	10		✔											✔					
140	12		✔																
142	1.78																		
142	2		✔																
142	3		✔									✔							
142	4		✔																
142	5		✔																
142.11	1.78	IMPERIAL-552 (5 5/8" * 1/16") (IT 2562)	✔																
142.24	5.33	IMPERIAL-358 (5 5/8" * 3/16")	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔				✔	
142.24	6.99	IMP-434 (5 5/8" * 1/4")FR R62 (IT 8562)	✔	✔	✔	✔	✔		✔	✔	✔			✔				✔	
142.47	3.53	IMPERIAL-255 (5 5/8" * 1/8") (IT 4562)	✔	✔	✔	✔	✔	✔	✔		✔		✔	✔			✔		
142.88	5.33	IMPERIAL-868 (IT 217)	✔																
143	4		✔																
144	4		✔																
144.1	8.4	SWEDISH UK METRIC	✔																
144.3	5.7	SWEDISH UK METRIC	✔																
144.4	3.1	G145 JAPANESE	✔	✔		✔	✔		✔										
144.5	2		✔																
144.5	3		✔						✔										
144.6	5.7	P 145 JAPANESE	✔	✔		✔	✔		✔		✔								
145	2.5		✔						✔										
145	3		✔						✔										
145	3.5		✔																
145	4		✔			✔	✔		✔										
145	4.5								✔										
145	5		✔						✔		✔								
145	6		✔																
145	8		✔			✔	✔												
145	8.4					✔	✔												
145	10		✔																
145.29	1.78	IMPERIAL-553 (5 3/4" * 1/16") (IT 2575)	✔																
145.42	5.33	IMPERIAL-359 (5 3/4" * 3/16")	✔	✔	✔	✔	✔	✔	✔		✔			✔			✔	✔	
145.42	6.99	IMP-435 (5 3/4" * 1/4")FR R63 (IT 8575)	✔	✔	✔			✔	✔	✔	✔			✔					
145.64	3.53	IMPERIAL-256 (5 3/4" * 1/8") (IT 4575)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔				✔	
145.72	2.62	IMPERIAL-162 (5 3/4" * 3/32") (IT 3575)	✔	✔	✔			✔	✔		✔								
146	2		✔																
146	4										✔							✔	
146	7																		
146	12		✔																
146.05	5.33	IMPERIAL-869 (IT 219)	✔																
147	3											✔							
148	2.5		✔																
148	12		✔																
148.2	5.7		✔																
148.46	1.78	IMPERIAL-554 (5 7/8" * 1/16") (IT 2587)	✔																
148.59	5.33	IMPERIAL-360 (5 7/8" * 3/16")	✔	✔	✔	✔	✔	✔	✔		✔		✔	✔					
148.59	6.99	IMP-436 (5 7/8" * 1/4")FR R64 (IT 8587)	✔	✔	✔	✔	✔	✔	✔		✔			✔					
148.82	3.53	IMPERIAL-257 (5 7/8" * 1/8") (IT 4587)	✔	✔	✔	✔	✔	✔	✔		✔			✔			✔		
149	3		✔																
149	5										✔								
149.1	8.4	SWEDISH UK METRIC	✔																
149.2	5.33	IMPERIAL-870 (IT 221)	✔																

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
149.3	5.7	G150 JAPANESE SWEDISH UK METRIC	✔	✔		✔	✔		✔		✔								
149.5	3	UK METRIC	✔								✔								
149.5	8.4	P 150A JAPANESE	✔	✔		✔	✔		✔										
149.6	5.7	P 150 JAPANESE	✔	✔		✔	✔		✔										
150	2		✔						✔										
150	2.5		✔																
150	3		✔	✔		✔	✔		✔		✔								
150	3.5		✔																
150	4		✔			✔	✔		✔		✔	✔							
150	5		✔			✔	✔		✔					✔					
150	5.34																		
150	6		✔																
150	8.4																		
150	10		✔																
150	20		✔																
151.64	1.78	IMPERIAL-555 (6" * 1/16") (IT 2600)	✔																
151.77	5.33	IMPERIAL-361 (6" * 3/16") (IT 6600)	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔				✔	
151.77	6.99	IMP-437 (6" * 1/4") FR R65 (IT 8600)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔					
151.99	3.53	IMPERIAL-258 (6" * 1/8") (IT 4600)	✔	✔	✔	✔	✔	✔	✔		✔		✔	✔			✔	✔	
152	2		✔																
152	3			✔		✔	✔		✔										
152	4		✔						✔										
152	12												✔						
152.07	2.62	IMPERIAL-163 (6" * 3/32") (IT 3600)	✔	✔	✔	✔	✔	✔	✔		✔			✔					
153	3		✔											✔					
153	4													✔					
153	4.5																		
153	6		✔																
154	3		✔																
154.1	8.4	SWEDISH UK METRIC	✔																
154.3	5.7	G155 JAPANESE SWEDISH UK METRIC	✔	✔		✔	✔		✔							✔			
154.5	3	UK METRIC		✔					✔										
154.5	8.4	P 155 JAPANESE	✔	✔		✔	✔		✔										
154.81	1.78	IMPERIAL-556 (6 1/8" * 1/16") (IT 2612)	✔						✔										
155	2		✔																
155	2.5		✔								✔								
155	3		✔			✔	✔		✔		✔								
155	4		✔						✔										
155	5		✔			✔	✔		✔										
155	5.33	IMPERIAL-644 (6 1/8" * 3/16")	✔																
155	6		✔																
155	6.5																		
155	10		✔																
155	11		✔																
155.6	6.99	IMPERIAL-872 (6 1/8" * 1/4") (IT 223)	✔						✔										
156	3		✔																
156	4		✔																
156	16		✔																
157	6.5			✔															
158	1.78	IMPERIAL-557 (6 1/4" * 1/16") (IT 2625)	✔																
158	2		✔									✔							
158	3		✔						✔										
158	4		✔																
158	5								✔			✔							
158	6		✔						✔										
158.12	5.33	IMPERIAL-362 (6 1/4" * 3/16") (IT 6625)	✔	✔	✔	✔	✔	✔	✔	✔				✔					
158.12	6.99	IMP-438 (6 1/4" * 1/4")FR R66 (IT 8625)	✔	✔	✔	✔	✔	✔	✔		✔		✔	✔			✔		
158.34	3.53	IMPERIAL-259 (6 1/4" * 1/8") (IT 4625)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔					

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
158.42	2.62	IMPERIAL-164 (6 1/4" * 3/32") (IT 3625)	✔	✔	✔				✔		✔	✔		✔					
159.1	8.4	SWEDISH UK METRIC	✔																
159.3	5.7	G160 JAPANESE SWEDISH UK METRIC	✔	✔		✔	✔		✔							✔			
159.5	3	UK METRIC							✔										
159.5	6.99	IMPERIAL-627 (IT 225)	✔					✔											
159.5	8.4	P 160 JAPANESE	✔	✔		✔	✔		✔										
160	2		✔											✔					
160	2.5		✔						✔										
160	3		✔	✔		✔	✔		✔		✔								
160	3.5		✔																
160	4		✔	✔		✔	✔		✔			✔							
160	4.5		✔																
160	5		✔						✔		✔	✔							
160	6		✔						✔										
160	8.4																		
160	10		✔						✔										
160	12		✔																
161.16	1.78	IMPERIAL-558 (6 3/8" * 1/16") (IT 2637)	✔																
161.3	5.33	IMPERIAL-645 (6 3/8" * 3/16")	✔						✔										
161.9	6.99	IMPERIAL-874 (6 3/8" * 1/4") (IT 226)	✔																
163	6										✔								
164	2		✔																
164	3		✔						✔		✔								
164	4																		
164	8										✔								
164.1	8.4	SWEDISH UK METRIC	✔																
164.3	5.7	G165 JAPANESE SWEDISH UK METRIC	✔	✔		✔	✔		✔		✔			✔					
164.34	1.78	IMPERIAL-559 (6 1/2" * 1/16") (IT 2652)	✔																
164.47	5.33	IMPERIAL-363 (6 1/2" * 3/16") (IT 6645)	✔	✔	✔	✔	✔	✔	✔		✔			✔					
164.47	6.99	IMP-439 (6 1/2" * 1/4")FR R67 (IT 8650)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔					
164.5	3.6																✔		
164.5	8.4	P 165 JAPANESE	✔	✔		✔	✔		✔										
164.69	3.53	IMPERIAL-260 (6 1/2" * 1/8") (IT 4650)	✔	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔					
164.77	2.62	IMPERIAL-165 (6 1/2" * 3/32") (IT 3650)	✔	✔	✔	✔	✔	✔	✔		✔								
165	2.5		✔						✔										
165	3		✔	✔		✔	✔		✔										
165	4		✔	✔		✔	✔		✔										
165	5		✔	✔		✔	✔		✔		✔					✔			
165	6		✔								✔								
165	10		✔																
166	3		✔						✔										
166.7	6.99	IMPERIAL-628 (6 5/8" * 1/4") (IT 228)	✔																
167	2.5			✔															
167.51	1.78	IMPERIAL-560 (6 5/8" * 1/16") (IT 2662)	✔																
167.7	5.33	IMPERIAL-646 (6 5/8" * 3/16")	✔																
167.9	2.4																✔		
168	3		✔																
168	4																	✔	
168	9.5								✔										
168.3	6.99	IMPERIAL-876 (6 5/8" * 1/4") (IT 229)	✔			✔	✔												
169.1	8.4	SWEDISH UK METRIC																	
169.3	5.7	G170 JAPANESE SWEDISH UK METRIC	✔	✔		✔	✔		✔		✔								
169.5	8.4	P 170 JAPANESE	✔	✔		✔	✔		✔										
170	2		✔									✔							
170	2.5								✔										
170	3		✔	✔		✔	✔		✔		✔	✔						✔	
170	4		✔			✔	✔		✔										
170	5		✔			✔	✔		✔										

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
170	6		✔	✔															
170	8		✔																
170	8.4																		
170	10		✔																
170.69	1.78	IMPERIAL-561 (6 3/4" * 1/16") (IT 2675)	✔																
170.82	5.33	IMPERIAL-364 (6 3/4" * 3/16") (IT 6670)	✔	✔	✔	✔	✔	✔	✔		✔			✔					
170.82	6.99	IMP-440 (6 3/4" * 1/4")FR R68 (IT 8675)	✔	✔	✔	✔	✔	✔	✔		✔			✔					
171	3								✔										
171	10																		
171.04	3.53	IMPERIAL-261 (6 3/4" * 1/8") (IT 4675)	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔				✔	
171.12	2.62	IMPERIAL-166 (6 3/4" * 3/32") (IT 3675)	✔	✔	✔			✔	✔		✔								
172	3										✔						✔		
172	4		✔						✔										
172	12								✔										
173.87	1.78	IMPERIAL-562 (6 7/8" * 1/16") (IT 2687)	✔																
174	3		✔						✔										
174	3.5		✔																
174	4		✔																
174	5.33	IMPERIAL-647 (6 7/8" * 3/16")	✔																
174.1	8.4	SWEDISH UK METRIC																	
174.1	8.7										✔								
174.3	5.7	G175 JAPANESE SWEDISH UK METRIC	✔	✔		✔	✔		✔										
174.5	8.4	P 175 JAPANESE	✔	✔		✔	✔		✔										
174.6	6.99	IMPERIAL-878 (6 7/8" * 1/4") (IT 231)	✔																
175	2		✔									✔							
175	2.5		✔																
175	3		✔	✔		✔	✔		✔		✔								
175	3.5		✔																
175	4		✔			✔	✔		✔		✔								
175	5		✔			✔	✔		✔			✔							
175	6		✔																
175	8.4																		
176	3																		
177.17	5.33	IMPERIAL-365 (7" * 3/16") (IT 6700)	✔	✔	✔			✔	✔		✔	✔		✔					
177.17	6.99	IMP-441 (7" * 1/4") FR R69 (IT 8700)	✔	✔	✔	✔	✔	✔	✔				✔	✔					
177.39	3.53	IMPERIAL-262 (7" * 1/8") (IT 4700)	✔	✔	✔			✔	✔		✔	✔		✔				✔	
177.47	2.62	IMPERIAL-167 (7" * 3/32") (IT 3700)	✔	✔				✔	✔		✔			✔					
177.5	3.25		✔																
178	2		✔																
178	3		✔						✔										
178	4								✔										
178	6								✔										
178	10		✔																
178	12		✔																
179	1.78																		
179	3		✔						✔										
179.1	8.4	SWEDISH UK METRIC																	
179.3	5.7	G180 JAPANESE SWEDISH UK METRIC	✔	✔		✔	✔		✔		✔					✔			
179.5	3	UK METRIC							✔										
179.5	8.4	P 180 JAPANESE	✔	✔		✔	✔		✔										
180	2		✔																
180	3		✔	✔		✔	✔		✔		✔	✔							
180	3.5		✔																
180	4		✔			✔	✔		✔										
180	5		✔			✔	✔		✔										
180	6		✔																
180	8		✔																
180	10		✔																

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
181	6.99	IMPERIAL-880 (7 1/8" * 1/4") (IT 233)	✔																
182	1.78								✔										
182	4								✔										
182	10.2																		
183	1.78																		
183.52	5.33	IMPERIAL-366 (7 1/4" * 3/16") (IT 6720)	✔	✔	✔	✔	✔		✔		✔		✔	✔					
183.52	6.99	IMP-442 (7 1/4" * 1/4")FR R70 (IT 8725)	✔	✔	✔	✔	✔	✔	✔		✔	✔		✔				✔	
183.74	3.53	IMPERIAL-263 (7 1/4" * 1/8") (IT 4725)	✔	✔	✔			✔	✔		✔	✔	✔	✔					
183.8	4.75		✔																
183.82	2.62	IMPERIAL-168 (7 1/4" * 3/32") (IT 3725)	✔	✔	✔			✔	✔		✔	✔		✔					
184	2.5		✔																
184	3		✔						✔										
184	4.75		✔																
184.1	8.4	SWEDISH UK METRIC									✔								
184.3	5.7	G185 JAPANESE SWEDISH UK METRIC	✔	✔		✔	✔		✔										
184.5	3	UK METRIC		✔															
184.5	8.4	P 185 JAPANESE	✔	✔		✔	✔		✔										
185	2		✔																
185	3		✔			✔	✔		✔		✔								
185	3.5																		
185	4		✔			✔	✔		✔										
185	5		✔			✔	✔		✔										
185	6		✔						✔										
185	10		✔																
186	4																		
187	3.5		✔																
187.3	6.99	IMPERIAL-882 (7 3/8" * 1/4") (IT 235)	✔									✔							
188	4		✔																
189.1	8.4	SWEDISH UK METRIC	✔																
189.3	5.7	G190 JAPANESE SWEDISH UK METRIC	✔	✔		✔	✔		✔		✔					✔			
189.5	3								✔										
189.5	8.4	P 190 JAPANESE	✔	✔		✔	✔		✔										
189.87	5.33	IMPERIAL-367 (7 1/2" * 3/16") (IT 6745)	✔	✔	✔			✔	✔	✔	✔			✔					
189.87	6.99	IMP-443 (7 1/2" * 1/4")FR R71 (IT 8750)	✔	✔	✔	✔	✔	✔	✔	✔	✔			✔			✔		
190	2		✔																
190	2.5		✔																
190	3		✔	✔		✔	✔		✔		✔	✔							
190	4		✔						✔		✔								
190	5		✔			✔	✔		✔			✔		✔					
190	6		✔						✔										
190	8.4																		
190	10		✔																
190.09	3.53	IMPERIAL-264 (7 1/2" * 1/8") (IT 4750)	✔	✔	✔	✔	✔	✔	✔		✔		✔	✔					
190.17	2.62	IMPERIAL-169 (7 1/2" * 3/32") (IT 3750)	✔	✔	✔			✔	✔		✔			✔					
192	3								✔		✔								
192	4		✔						✔										
192	4.5		✔																
193	5								✔										
193.7	6.99	IMPERIAL-884 (7 5/8" * 1/4") (IT 237)	✔																
194	2		✔																
194	3								✔										
194	4			✔															
194	5								✔										
194.1	8.4	SWEDISH UK METRIC																	
194.3	5.7	G195 JAPANESE SWEDISH UK METRIC	✔	✔		✔	✔		✔										
194.5	5.3																	✔	
194.5	8.4	P 195 JAPANESE	✔	✔		✔	✔		✔										
195	2		✔																

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
195	2.5		✔																
195	3		✔	✔		✔	✔		✔		✔								
195	3.5		✔																
195	4		✔																
195	5		✔								✔			✔					
195	6		✔																
195	10		✔																
196	1.78								✔										
196.22	5.33	IMPERIAL-368 (7 3/4" * 3/16") (IT 6775)	✔	✔	✔				✔	✔	✔			✔				✔	
196.22	6.99	IMP-444 (7 3/4" * 1/4")FR R72 (IT 8775)	✔	✔	✔			✔	✔		✔		✔	✔			✔		
196.44	3.53	IMPERIAL-265 (7 3/4" * 1/8") (IT 4775)	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔	✔					✔
196.52	2.62	IMPERIAL-170 (7 3/4" * 3/32") (IT 3775)	✔	✔	✔			✔	✔					✔					
198	3								✔										
199	5																✔		
199.1	8.4	SWEDISH UK METRIC	✔																
199.3	5.3			✔		✔	✔												
199.3	5.7	G200 JAPANESE SWEDISH UK METRIC	✔	✔		✔	✔		✔		✔								
199.5	3								✔										
199.5	8.4	P 200 JAPANESE	✔	✔		✔	✔		✔										
200	2.5		✔																
200	3		✔						✔		✔								
200	3.5		✔																
200	4		✔						✔										
200	4.5		✔																
200	5		✔						✔		✔					✔			
200	6		✔						✔										
200	6.99	IMPERIAL-886 (7 7/8" * 1/4") (IT 239)	✔																
200	10		✔																
200	12		✔																
202	3								✔										
202	4		✔																
202.57	5.33	IMPERIAL-369 (8" * 3/16") (IT 6795)	✔	✔	✔	✔	✔		✔	✔	✔			✔		✔			
202.57	6.99	IMP-445 (8 " * 1/4")FR R73 (IT 8800)	✔	✔	✔			✔	✔		✔	✔		✔				✔	
202.79	3.53	IMPERIAL-266 (8" * 1/8") (IT 4800)	✔	✔	✔	✔	✔	✔	✔		✔	✔		✔					
202.87	2.62	IMPERIAL-171 (8" * 3/32") (IT 3800)	✔	✔	✔				✔					✔					
203	3		✔						✔										
203	3.5											✔							
204	2.5								✔										
204	3		✔																
204	4		✔																
204.1	8.4	UK METRIC	✔																
204.2	5.7																		
204.5	8.4	P 205 JAPANESE	✔	✔					✔										
205	2		✔																
205	3		✔																
205	4		✔						✔										
205	5		✔						✔			✔							
205	5.5										✔								
205	6		✔																
205	8.4																		
205.2	3.5											✔							
205.2	5.7		✔																
207	3		✔																
207	5		✔																
207	10																		
208.5	8.4	P 209 JAPANESE	✔	✔					✔										
208.92	5.33	IMPERIAL-370 (8 1/4" * 3/16") (IT 6820)	✔	✔	✔			✔	✔		✔			✔					
208.92	6.99	IMPERIAL-445A (8-1/4" * 1/4") (IT 8825)	✔			✔	✔		✔		✔	✔				✔			

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
209	9.7		✔																
209	10													✔					
209.1	8.4	SWEDISH UK METRIC	✔																
209.14	3.53	IMPERIAL-267 (8 1/4" * 1/8") (IT 4825)	✔	✔	✔			✔	✔		✔			✔					
209.22	2.62	IMPERIAL-172 (8 1/4" * 1/16") (IT 3825)	✔	✔	✔				✔		✔			✔					
209.3	5.7	G210 JAPANESE SWEDISH UK METRIC	✔	✔		✔	✔		✔		✔					✔			
209.5	8.4	P 210 JAPANESE	✔	✔		✔	✔		✔										
209.55	6.35																		
210	2		✔																
210	3		✔						✔		✔								
210	4		✔						✔										
210	5		✔	✔					✔										
210	5.7																		
212	4										✔								
214	1.78																		
214	2		✔																
214.3	5.7	G215 JAPANESE SWEDISH UK METRIC	✔	✔		✔	✔												
214.5	8.4	P 215 JAPANESE	✔	✔		✔	✔		✔										
215	1.78																		
215	1.9	G215 JAPANESE SWEDISH UK METRIC																	
215	3		✔						✔										
215	4		✔						✔										
215	5		✔						✔										
215	8.4																		
215	9		✔																
215	16		✔																
215.27	5.33	IMPERIAL-371 (8 1/2" * 3/16") (IT 6850)	✔	✔	✔			✔	✔		✔			✔				✔	
215.27	6.99	IMP-446 (8 1/2" * 1/4")FR R74 (IT 8850)	✔	✔	✔	✔	✔	✔	✔		✔		✔	✔		✔			
215.49	3.53	IMPERIAL-268 (8 1/2" * 1/8") (IT 4850)	✔	✔	✔			✔	✔		✔			✔					✔
215.57	2.62	IMPERIAL-173 (8 1/2" * 3/32") (IT 3850)	✔	✔	✔				✔		✔			✔					
216	2		✔																
216	16																		
218	2.62								✔										
218	6		✔																
219	10																		
219.1	8.4	SWEDISH UK METRIC	✔																
219.3	5.7	G220 JAPANESE SWEDISH UK METRIC	✔	✔		✔	✔		✔							✔			
219.5	8.4	P 220 JAPANESE	✔	✔					✔										
220	2		✔																
220	3		✔						✔										
220	3.5		✔																
220	4		✔						✔										
220	5		✔															✔	
220	6.5																		
220	8		✔																
220	10															✔			
221.62	5.33	IMPERIAL-372 (8 3/4" * 3/16") (IT 6870)	✔	✔	✔				✔		✔			✔					
221.62	6.99	IMPERIAL-446A (8 3/4" * 1/4") (IT 8875)	✔			✔	✔		✔										
221.84	3.53	IMPERIAL-269 (8 3/4" * 1/8") (IT 4875)	✔	✔	✔			✔	✔		✔	✔		✔					✔
221.92	2.62	IMPERIAL-174 (8 3/4" * 3/32") (IT 3875)	✔	✔	✔				✔		✔			✔					
222	6.5																		
222.5	6		✔																
224	3.55										✔								
224.5	8.4	P 225 JAPANESE	✔	✔		✔	✔		✔										
225	3		✔								✔								
225	3.5		✔																
225	4		✔						✔										
225	5		✔	✔															

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
225	5.7		✔																
225	6		✔																
225	8.4																		
225	14		✔																
226	6.5																		
226	9.5																		
227	3								✔										
227	3.5																	✔	
227	5.3																		
227.97	5.33	IMPERIAL-373 (9" * 3/16") (IT 6895)	✔	✔	✔			✔	✔	✔	✔	✔		✔					
227.97	6.99	IMP-447 (9" * 1/4") FR R75 (IT 8900)	✔	✔	✔	✔	✔	✔	✔		✔			✔		✔			
228	4		✔						✔										
228	7		✔																
228.19	3.53	IMPERIAL-270 (9" * 1/8") (IT 4900)	✔	✔	✔	✔	✔	✔	✔		✔		✔	✔					
228.27	2.62	IMPERIAL-175 (9" * 3/32") (IT 3900)	✔	✔	✔				✔		✔			✔					
229.1	8.4	SWEDISH UK METRIC																	
229.3	5.7	G230 JAPANESE SWEDISH UK METRIC	✔	✔		✔	✔		✔		✔					✔		✔	
229.5	8.4	P 230 JAPANESE	✔	✔					✔										
229.8	3.2											✔							
230	2.5								✔										
230	3		✔						✔										
230	4		✔																
230	5		✔						✔										
230	9										✔								
232	3								✔										
233	11		✔																
234	1.78								✔										
234.1	8.4	UK METRIC	✔																
234.3	5.7		✔																
234.32	5.33	IMPERIAL-374 (9 1/4" * 3/16") (IT 6920)	✔	✔	✔			✔	✔		✔		✔	✔					
234.32	6.99	IMPERIAL-447A (9 1/4" * 1/4")(IT 8925)	✔						✔										
234.5	8.4	P 235 JAPANESE	✔	✔		✔	✔		✔										
234.54	3.53	IMPERIAL-271 (9 1/4" * 1/8") (IT 4925)	✔	✔	✔			✔	✔		✔			✔					
234.62	2.62	IMPERIAL-176 (9 1/4" * 3/32") (IT 3925)	✔	✔	✔				✔	✔				✔					
235	1.7								✔										
235	2		✔																
235	3		✔						✔										
235	5		✔						✔										
235	6											✔							
236	10										✔								
238	5													✔					
239.1	8.4	SWEDISH UK METRIC																	
239.3	5.7	G240 JAPANESE SWEDISH UK METRIC	✔	✔		✔	✔		✔		✔					✔			
239.5	8.4	P 240 JAPANESE	✔	✔		✔	✔		✔										
240	2		✔																
240	3		✔						✔										
240	4		✔						✔										
240	5		✔								✔								
240	7		✔																
240	8.4																		
240	9																		
240.67	5.33	IMPERIAL-375 (9 1/2" * 3/16") (IT 6945)	✔	✔	✔			✔	✔		✔			✔					
240.67	6.99	IMP-448 (9 1/2" * 1/4")FR R76 (IT 8950)	✔	✔	✔	✔	✔	✔	✔		✔			✔					
240.89	3.53	IMPERIAL-272 (9 1/2" * 1/8") (IT 4950)	✔	✔	✔			✔	✔	✔	✔		✔	✔					
240.97	2.62	IMPERIAL-177 (9 1/2" * 3/32") (IT 3950)	✔	✔	✔				✔		✔			✔					
244	2		✔																
244.3	5.7	G245 JAPANESE	✔			✔	✔		✔										
244.5	8.4	P 245 JAPANESE	✔	✔		✔	✔		✔										

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
245	3		✔						✔										
245	4		✔																
245	5		✔																
245	5.7																		
245	8		✔																
245	12		✔																
245.2	5.7																		
247	6.99	IMPERIAL-680 -448A (9 3/4" * 1/4") (IT 8975)							✔										
247.02	5.33	IMPERIAL-376 (9 3/4" * 3/16") (IT 6975)	✔	✔	✔				✔	✔	✔			✔				✔	
247.02	6.99	IMPERIAL-448A (9 3/4" * 1/4")	✔			✔	✔												
247.24	3.53	IMPERIAL-273 (9 3/4" * 1/8") (IT 4975)	✔	✔	✔			✔	✔		✔	✔		✔					
247.32	2.62	IMPERIAL-178 (9 3/4" * 3/32") (IT 3975)	✔	✔	✔				✔		✔			✔					
249.1	8.4	SWEDISH UK METRIC																	
249.3	5.7	G250 JAPANESE SWEDISH UK METRIC	✔	✔		✔	✔		✔		✔					✔			
249.5	8.4	P 250 JAPANESE	✔	✔					✔										
250	2.5		✔																
250	3		✔						✔										
250	4		✔						✔										
250	5		✔						✔										
250	6		✔																
250	8.4																		
250	10		✔																
250	15.8								✔										
253	3								✔										
253.37	5.33	IMPERIAL-377 (10" * 3/16") (IT 6995)	✔	✔	✔				✔		✔		✔	✔					
253.57	6.99	IMP-449 (10" * 1/4") FR R77 (IT 81000)	✔	✔	✔	✔	✔	✔	✔		✔			✔		✔		✔	
253.59	3.53	IMPERIAL-274 (10" * 1/8") (IT 41000)	✔	✔	✔			✔	✔		✔			✔					
254	7.5										✔								
254	10													✔					
254.5	8.4	P 255 JAPANESE	✔	✔		✔	✔		✔										
255	1.78																		
255	3		✔						✔										
255	3.5											✔							
255	4		✔																
255	5																		
255	7.5																		
258	1.78																		
258	2.62								✔										
258	3																		
258	12		✔																
259.3	5.7	G260 JAPANESE SWEDISH UK METRIC	✔	✔		✔	✔		✔		✔					✔			
259.5	8.4	P 260 JAPANESE	✔	✔		✔	✔		✔										
259.7	6.99	IMPERIAL-682 -449A (10 1/4" * 1/4) (IT 81025)							✔										
259.72	6.99	IMPERIAL-449A (10 1/4" * 1/4)	✔													✔			
260	1.78																		
260	2.5										✔								
260	2.62																		
260	3		✔						✔										
260	4		✔						✔										
260	5			✔							✔			✔					
260	10		✔																
262	4		✔						✔										
263	1.78																		
264	4		✔						✔										
264.2	5.7	G265 JAPANESE	✔																
264.5	8.4	P 265 JAPANESE	✔	✔		✔	✔		✔										
265	1.78																		
265	2.62								✔										

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
265	3		✔						✔										
265	4										✔								
265	8.4																		
266.07	5.33	IMPERIAL-378 (10 1/2" * 3/16")(IT 61050)	✔	✔	✔				✔		✔			✔					
266.07	6.99	IMP-450 (10 1/2" * 1/4")FR R78(IT 81050)	✔	✔	✔			✔	✔		✔		✔	✔					
266.29	3.53	IMPERIAL-275 (10 1/2" * 1/8") (IT 41050)	✔	✔	✔	✔	✔	✔	✔		✔								
266.7	12.5		✔																
266.7	12.7		✔																
267	1.78																		
268	2.62								✔										
269.3	5.7	G270 JAPANESE SWEDISH UK METRIC	✔	✔		✔	✔		✔							✔			
269.5	8.4	P 270 JAPANESE	✔	✔					✔										
270	1.78								✔										
270	3		✔						✔		✔								
270	4		✔																
270	5		✔						✔										
270	7		✔																
270	8.4																		
270	10		✔																
271.1	2.5										✔								
272.4	6.99	MPERIAL-450A -684 (10 3/4" * 1/4") (IT 81075							✔										
272.42	6.99	IMPERIAL-450A (10 3/4" * 1/4")	✔								✔								
273	5.34																		
273	6		✔																
274.3	5.7	G275 JAPANESE SWEDISH UK METRIC	✔			✔	✔												
274.5	8.4	P 275 JAPANESE	✔	✔					✔										
275	3		✔						✔										
275	4		✔																
275	5		✔	✔							✔			✔					
276	2		✔																
276.7	5.29										✔								
277	4		✔																
278.77	5.33	IMPERIAL-379 (11" * 3/16") (IT 61100)	✔	✔	✔			✔	✔		✔			✔					
278.77	6.99	IMP-451 (11" * 1/4")FR R79 (IT 81100)	✔	✔	✔	✔	✔	✔	✔							✔		✔	
278.99	3.53	IMPERIAL-276 (11" * 1/8") (IT 41100)	✔	✔	✔			✔	✔		✔			✔			✔		
279.3	5.7	G280 JAPANESE SWEDISH UK METRIC	✔	✔		✔	✔		✔		✔					✔			
279.4	9.52																		
279.5	8.4	P 280 JAPANESE	✔	✔					✔										
280	3		✔														✔		
280	4		✔						✔								✔		
280	5		✔								✔								
280	6										✔								
280	6.3								✔										
280	10		✔																
282	9.5										✔								
283	12																		
283.5	2.62								✔										
284.5	8.4	P 285 JAPANESE	✔	✔		✔	✔		✔										
285	1.78								✔										
285	3		✔																
285	5								✔										
285	6		✔																
285.1	6.99	MPERIAL-451A -686 (11 1/4" * 1/4") (IT 81125							✔										
285.12	6.99	IMPERIAL-451A (11 1/4" * 1/4")	✔													✔			
286	1.78																		
288	4		✔																
289.3	5.7	G290 JAPANESE SWEDISH UK METRIC	✔	✔		✔	✔		✔							✔			
289.5	8.4	P 290 JAPANESE	✔	✔		✔	✔		✔										

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
290	2.62		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
290	4		☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
290	5		☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
290	8		☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
291	6		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
291.47	5.33	IMPERIAL-380 (11 1/2" * 3/16")(IT 61150)	☑	☑	☑	☐	☐	☑	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
291.47	6.99	IMP-452 (11 1/2" * 1/4")FR R80(IT 81150)	☑	☑	☑	☑	☑	☑	☑	☐	☑	☐	☑	☐	☐	☐	☐	☐	☐
291.69	3.53	IMPERIAL-277 (11 1/2" * 1/8") (IT 41150)	☑	☑	☑	☐	☐	☐	☑	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐
292	2.5		☐	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐
292	3		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
293	4		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
294	5		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
294.3	5.7	G295 JAPANESE	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
294.5	8.4	P 295 JAPANESE	☑	☑	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
295	1.78		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
295	3		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
295	5		☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
296	5.3		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
297.8	6.99	IMP-688 -452A (11 3/4" * 1/4")(IT 81175)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
297.82	6.99	IMPERIAL-452A -688 (11 3/4" * 1/4")	☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐
299.3	5.7	G300 JAPANESE SWEDISH UK METRIC	☑	☑	☐	☑	☑	☐	☑	☐	☑	☐	☐	☐	☐	☑	☐	☐	☐
299.5	8.4	P 300 JAPANESE	☑	☑	☐	☑	☑	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
300	1.78		☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
300	2		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
300	2.62		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
300	3		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
300	3.5		☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐
300	4		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
300	5		☑	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
300	6		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
300	7		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
300	12		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
302	1.7		☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
302	2.62		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
302.3	2.5		☐	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐
304.17	5.33	IMPERIAL-381 (12" * 3/16") (IT 61200)	☑	☑	☑	☐	☐	☐	☑	☐	☑	☐	☐	☑	☐	☐	☐	☐	☐
304.17	6.99	IMP-453 (12" * 1/4") FR R81 (IT 81200)	☑	☑	☑	☐	☐	☑	☑	☐	☑	☐	☐	☑	☐	☐	☐	☐	☐
304.3	3.18		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
304.3	5.7		☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
304.39	3.53	IMPERIAL-278 (12" * 1/8") (IT 41200)	☑	☑	☑	☑	☑	☐	☑	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑
304.8	12.7		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
305	3		☑	☐	☐	☐	☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐
305	4		☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
305	12.7		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
307.3	3.5		☐	☐	☐	☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐
307.5	7		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
309.3	5.7	G310 JAPANESE	☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
309.4	5.7	G310 JAPANESE	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
310	1.78		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
310	2.62		☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
310	5		☑	☐	☐	☑	☑	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
310	5.7		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
310	6		☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
310	8		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
310.5	6.99	IMPERIAL-648 (12 1/4" * 1/4")	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
312	7		☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
313	5.3		☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
314	3		☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
314.3	5.7	G315 JAPANESE	✔																
314.5	8.4	P 315 JAPANESE	✔	✔					✔										
314.8	2.5										✔								
315	3.5		✔																
315	4		✔						✔										
315	5		✔																
315	5.3																		
315	8.4																		
315	16										✔								
316	2.62		✔						✔										
316.87	6.99	IMP-454 (12 1/2" * 1/4")FR R82(IT 81250)	✔	✔	✔	✔	✔	✔	✔		✔			✔			✔		
317	3																		
318	5.7		✔																
319.3	5.7	G320 JAPANESE SWEDISH UK METRIC	✔						✔		✔								
319.5	8.4	P 320 JAPANESE	✔	✔					✔										
320	2.62								✔										
320	3		✔						✔			✔							
320	3.5								✔										
320	3.53								✔										
320	4		✔						✔										
320	5		✔						✔										
320	8.4																		
320	10		✔																
321.5	1.78								✔										
321.5	6																		
323.2	2.5										✔								
323.2	6.99	IMPERIAL-649 (12 3/4" * 1/4")	✔						✔										
324	1.78																		
324	5.34																		
324	6																		
325	3.5								✔										
325	4								✔										
325	5		✔						✔		✔								
325	10										✔								
327	4		✔																
328	1.78								✔										
329.3	5.7	G330 JAPANESE	✔			✔	✔		✔										
329.57	5.33	IMPERIAL-382 (13" * 3/16") (IT 61300)	✔	✔					✔		✔			✔				✔	
329.57	6.99	IMP-455 (13" * 1/4") FR R83 (IT 81300)	✔	✔	✔			✔	✔		✔	✔		✔					
329.79	3.53	IMPERIAL-279 (13" * 1/8") (IT 41300)	✔	✔	✔				✔		✔						✔		✔
330	1.7								✔										
330	4		✔																
330	5		✔						✔										
332	4								✔										
333.5	2.5										✔								
334.5	8.4	P 335 JAPANESE	✔	✔					✔										
335	3		✔																
335.9	6.99	IMPERIAL-650 (13 1/4" * 1/4")	✔																
338	3.5													✔					
338	6		✔																
339.3	5.7	G340 JAPANESE SWEDISH UK METRIC	✔	✔															
339.3	6		✔																
339.5	5.7	G340 JAPANESE SWEDISH UK METRIC							✔										
339.5	8.4	P 340 JAPANESE	✔	✔					✔										
340	1.78								✔										
340	2.62								✔										
340	3.5		✔																
340	4		✔						✔										

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N70	N90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V75	V90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
340	5		✔																
340	6			✔															
340	8.4										✔								
340	12		✔																
341.75	12.7																		
342	4		✔																
342	7		✔																
342.27	6.99	IMP-456 (13 1/2" * 1/4")FR R84(IT 81350)	✔	✔	✔				✔		✔			✔					
345	4								✔		✔								
347	5.34									✔									
347	7								✔										
350	2.62								✔										
350	3		✔						✔										
350	3.5								✔										
350	4		✔																
350	5		✔						✔									✔	
350	6		✔																
352	3											✔							
354.4	2.5										✔								
354.5	8.4	P 355 JAPANESE	✔	✔					✔										
354.97	5.33	IMPERIAL-383 (14" * 3/16") (IT 61400)	✔	✔	✔				✔	✔	✔			✔				✔	
354.97	6.99	IMP-457 (14" * 1/4") FR R85 (IT 81400)	✔	✔	✔	✔	✔	✔	✔					✔					
355	1.78																		
355	4																		
355	4.5								✔										
355	5		✔																
355.19	3.53	IMPERIAL-280 (14" * 1/8") (IT 41400)	✔	✔	✔				✔		✔			✔			✔	✔	✔
357	2.62								✔										
358	7.5								✔										
359.3	5.7	SWEDISH UK METRIC	✔						✔		✔								
359.3	7.5		✔																
359.5	8.4	P 360 JAPANESE	✔	✔					✔										
360	3		✔																
360	4		✔																
360	5.7																		
360	10		✔																
360.94	3.53																✔		
362	4		✔						✔										
363	4		✔																
363.5	10										✔								
364	3.5																	✔	
364	4.5								✔									✔	
365	4																		
365	12		✔																
367	5		✔																
367	7																		
367.67	6.99	IMP-458 (14 1/2" * 1/4")FR R86(IT 81450)	✔	✔	✔			✔	✔					✔					
368	3.5																	✔	
369	6.3		✔																
370	1.78																		
370	3								✔										
370	4		✔									✔							
370	5		✔																
370	5.7		✔																
372	12		✔																
372.94	3.53																✔		
374.5	8.4	P 375 JAPANESE	✔	✔					✔										
375	3		✔																

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
375	5		✔																
378	4								✔										
378	10		✔																
379.3	5.7	G380 JAPANESE SWEDISH UK METRIC	✔	✔					✔										
379.4	6.35											✔							
379.5	8.4	P 380 JAPANESE	✔																
380	3		✔						✔										
380	4		✔																
380	5		✔																
380.37	5.33	IMPERIAL-384 (15" * 3/16") (IT 61500)	✔	✔	✔				✔		✔			✔					
380.37	6.99	IMP-459 (15" * 1/4") FR R87 (IT 81500)	✔	✔	✔			✔	✔					✔			✔		
380.59	2.62																		
380.59	3.53	IMPERIAL-281 (15" * 1/8") (IT 41500)	✔	✔	✔				✔					✔				✔	✔
384.5	8.4	P 385 JAPANESE	✔	✔					✔										
385	2.62								✔										
385	5		✔						✔										
388	6		✔																
389.3	5.7	G390 JAPANESE	✔																
390	3		✔						✔										
390	5		✔																
392	3.5																	✔	
392	5								✔										
393	3.5								✔										
393.07	6.99	IMP-460 (15 1/2" * 1/4")FR R88(IT 81550)	✔	✔	✔				✔		✔			✔					
393.7	5.34								✔										
394	7											✔							
395	4																		
395	5								✔										
395.4	3																		
397.22	3.53										✔								
398	8																		
399.3	5.7	G400 JAPANESE SWEDISH UK METRIC	✔	✔					✔		✔								
399.5	8.4	P 400 JAPANESE	✔	✔					✔										
400	4		✔						✔										
400	5		✔																
400	5.7																		
400	6		✔																
400	7		✔																
404	4											✔							
405	4		✔																
405.26	3.53	IMPERIAL-282 (16" * 1/8") (IT 41600)	✔	✔	✔				✔		✔								
405.26	5.33	IMPERIAL-385 (16" * 3/16") (IT 61600)	✔	✔	✔				✔		✔			✔					
405.26	6.99	IMPERIAL-461 (16" * 1/4") (IT 81600)	✔	✔	✔	✔	✔		✔		✔		✔	✔					
407	5.7											✔							
408	6								✔										
410	3		✔																
410	4		✔																
410	8													✔					
412	7								✔										
412	8		✔																
414	3.53								✔										
414	8.4		✔																
415	5		✔																
415	10													✔					
417	7											✔							
417.96	6.99	IMPERIAL-462 (16 1/2" * 1/4")(IT 81650)	✔	✔	✔	✔	✔		✔					✔					
419.1	5.34								✔										
419.3	5.7	G420 JAPANESE SWEDISH UK METRIC	✔						✔										

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
419.5	8.4		✔																
420	8													✔					
420	8.4								✔										
425	8.4		✔																
427	5		✔																
430	4																		
430	6		✔																
430	12																		
430.66	3.53	IMPERIAL-283 (17" * 1/8") (IT 41700)	✔	✔	✔				✔		✔			✔					
430.66	5.33	IMPERIAL-386 (17" * 3/16") (IT 61700)	✔	✔	✔				✔		✔			✔					
430.66	6.99	IMPERIAL-463 (17" * 1/4") (IT 81700)	✔	✔	✔				✔					✔					
435	5.7		✔																
435	8																		
435	9																		
435	12		✔																
439.3	5.7	SWEDISH UK METRIC	✔						✔										
440	4								✔										
440	5		✔																
440	6		✔						✔										
441	8			✔															
442	4								✔										
442	6		✔																
443.36	6.99	IMPERIAL-464 (17 1/2" * 1/4")(IT 81750)	✔	✔	✔				✔					✔					
445	7		✔																
449	10																		
450	5		✔																
450	6										✔								
455	5		✔						✔										
455	8.4		✔																
456.06	3.53	IMPERIAL-284 (18" * 1/8") (IT 41800)	✔	✔	✔				✔					✔					
456.06	5.33	IMPERIAL-387 (18" * 3/16") (IT 61800)	✔	✔	✔				✔					✔				✔	
456.06	6.99	IMPERIAL-465 (18" * 1/4") (IT 81800)	✔	✔	✔				✔		✔			✔					
457	5		✔																
459.3	5.7	SWEDISH UK METRIC	✔						✔										
460	5.7																		
460	8		✔																
461	8.4		✔																
465	5.7			✔															
465	7													✔					
466.7	5.34																		
468.76	6.99	IMPERIAL-466 (18 1/2" * 1/4")(IT 81850)	✔	✔	✔				✔				✔	✔					
469.3	5.7		✔																
470	4		✔																
470	5		✔																
470	5.7			✔															
475	3								✔										
475	5		✔																
475	7								✔										
476.2	6.35								✔										
477	8.19			✔															
477.52	3.53																		
479.3	5.7	SWEDISH UK METRIC	✔																
480	4		✔																
480	5		✔																
481.41	5.33	IMPERIAL-388 (19" * 3/16") (IT 61900)																	
481.46	5.33		✔	✔	✔				✔		✔		✔	✔					
481.46	6.99	IMPERIAL-467 (19" * 1/4") (IT 81900)	✔	✔	✔				✔		✔								
485	5.7			✔															

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
485	8								✔										
488	3.5													✔					
489.2	5.7		✔	✔															
489.5	6.5		✔																
490	8.4			✔															
490	14											✔							
493	5.34																		
494.16	6.99	IMPERIAL-468 (19 1/2" * 1/4") (IT 81950)	✔	✔	✔				✔		✔			✔					
495	5										✔								
495	14										✔								
499.3	5.7	SWEDISH UK METRIC	✔						✔										
500	5		✔																
500	6										✔								
500	42																		
506.81	5.33	IMPERIAL-389 (20" * 3/16") (IT 62000)	✔	✔	✔				✔		✔			✔					
506.81	6.99	IMPERIAL-469 (20" * 1/4") (IT 82000)	✔	✔	✔				✔		✔			✔					
509.3	5.7	G510 JAPANESE	✔						✔										
510	5		✔																
510	5.7		✔						✔										
510	6													✔					
510	10		✔																
515	10		✔											✔					
520	5		✔																
525	5		✔																
525	8.4																		
525.8	3.53																		
529.3	5.7																		
530	8.4										✔								
531	3.53								✔										
532.2	5.33	IMPERIAL-390 (21" * 3/16") (IT 62100)	✔	✔	✔				✔		✔			✔					
532.26	6.99	IMPERIAL-470 (21" * 1/4") (IT 82100)	✔	✔	✔			✔	✔		✔								
533	9.5										✔								
534	5.7										✔								
534	8		✔																
537	7								✔										
538	6		✔																
540	4		✔																
540	5		✔																
541	42																		
546	4								✔										
548	5.7		✔								✔								
550	4		✔																
550	5		✔																
557.6	5.33	IMPERIAL-391 (22" * 3/16") (IT 62200)	✔	✔					✔					✔					
557.66	6.99	IMPERIAL-471 (22" * 1/4") (IT 82200)	✔	✔	✔			✔	✔		✔							✔	
560	3								✔										
560	5		✔																
562	10										✔								
568.2	8								✔										
572	4		✔																
575	6								✔										
580	3.53								✔										
580	6.5								✔										
580	7																		
582.68	5.33	IMPERIAL-392 (23" * 3/16") (IT 62300)	✔	✔					✔					✔					
582.68	6.99	IMPERIAL-472 (23" * 1/4") (IT 82300)	✔	✔	✔			✔	✔		✔								
588	8.4																		
594	5.7		✔																

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
600	3.5		✔																
600	5		✔																
608.08	5.33	IMPERIAL-393 (24" * 3/16") (IT 62400)	✔						✔										
608.08	6.99	IMPERIAL-473 (24" * 1/4") (IT 82400)	✔		✔				✔		✔								
608.8	5.33	IMPERIAL-393 (24" * 3/16") (IT 62400)		✔															
608.8	6.99													✔					
610	6.5								✔										
611	2.62																		
615	7								✔										
620	8		✔																
620	9													✔					
620	9.5													✔					
633.48	5.33	IMPERIAL-394 (25" * 3/16") (IT 62500)	✔	✔					✔					✔					
633.48	6.99	IMPERIAL-474 (25" * 1/4") (IT 82500)	✔	✔	✔						✔								
634	8																		
635	8																		
636	5.7																		
658.88	5.33	IMPERIAL-395 (26" * 3/16") (IT 62600)	✔	✔					✔					✔					
658.88	6.99	IMPERIAL-475 (26" * 1/4") (IT 82600)	✔	✔	✔														
661.9	6.99										✔								
665	3.5																		
665	6.99								✔										
665.4	6		✔																
675	8.4										✔								
680	7		✔																
680.7	5.34																		
685	5.34								✔										
685.8	5.34																		
688	6.99										✔								
690	5		✔																
705	5.34																		
710	5.7								✔										
710	10										✔								
711	5.34																		
711	6.99								✔										
725	5.7																		
736	6.9							✔											
736.6	5.34								✔										
745	3.5			✔															
745	8		✔																
749	5.34																		
749.3	7								✔										
766	6																		
787	6.5																		
787.4	5.34								✔										
800	5.34								✔										
800	6.99								✔										
800	7																		
806	7													✔					
818.5	6.5																		
822.5	4																		
838	5.33																		
840	14																		
845	14													✔					
850	5.34								✔										
876	6.99		✔																
877	3		✔																
880	6.99								✔										

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

SEAL INNOVATIONS ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
889	5.33																		
894	12.7													✔					
903.7	6.99																		
910	5.34								✔										
914	6.9								✔										
933	5		✔																
939.8	5.34								✔										
940	5.34								✔										
952.5	5.34								✔										
953	15		✔																
965	5.34								✔										
971.45	6.99																		
975	9.52													✔					
988	5.34								✔										
993	7		✔																
995	8.4										✔								
995	8.5																		
1003	6.5		✔																
1021	6.9								✔										
1051	6.5								✔										
1051	7																		
1051	7.5																		
1066	6.9								✔										
1080	6.99								✔										
1092	6.99									✔									
1100	6.99								✔										
1130	6		✔																
1139	5		✔																
1139	7		✔																
1143	6.9								✔										
1151	6.99																		
1200	6.99								✔										
1210	5.33								✔										
1213	5.33								✔										
1219.2	5.34								✔										
1232	5.34								✔										
1251	7																		
1251	7.5								✔										
1251	8								✔										
1262.6	5.7		✔																
1270	5.34								✔										
1270	6.99								✔										
1282.7	6.99									✔									
1311.5	5.7		✔																
1315	5.34								✔										
1320	5.34								✔										
1330	10													✔					
1333.5	5.34								✔										
1334	5.33								✔										
1350	5.33								✔										
1360	7																		
1375	7		✔																
1397	5.34								✔										
1420	12		✔																
1458	5.34								✔										
1547	8																		
1651	5.34								✔										
1660	5.35								✔										

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

ORINGS

ALL SIZES ACTUAL IN mm

TYPICAL PART# -- OR100x2N70

ID	SECTION		N 70	N 90	BACK UP C/F	BACK UP PTFE	BACK UP HY	QUAD	V 75	V 90	EPDM	FDA	CR	S	FS	HNBR	PTFE	ENCAP.	AU
1871	6.99		☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
1880	3.53		☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
1880	6.99		☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2015	6		☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2448	15.8		☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
3210	6.9		☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
3350	6.9		☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

S SILICONE **N70** NITRILE 70- HARDNESS **HY** HYTREL **V75** VITON 75- HARDNESS **EPDM** EPR **AU** POLYURETHANE

FS FLUOROSILICONE **N90** NITRILE 90- HARDNESS **QUAD** QUAD RING **V90** VITON 90- HARDNESS **CR** NEOPRENE **HNBR** HYDROGENATED NBR

O-RING CORD

1.5mm to 25mm

NITRILE

VITON

SILICONE

EPDM

HEAT VULCANIZED

ANY SIZE ORING *FROM 100mm ID*

Cycanoacrylate adhesive is available for out in the field urgent repairs

TUBE FITTING BOSS ORINGS

900 SERIES UNF O-RINGS					
STRAIGHT THREAD FITTING SIZES					
PART #	TUBING O.D.	THREAD SIZE	T.P.I.	O-RING I.D.	O-RING THICK
901	3/32	1/4	24	0.185	0.056
902	1/8	5/16	24	0.239	0.064
903	3/16	3/8	24	0.301	0.064
904	1/4	7/16	20	0.351	0.072
905	5/16	1/2	20	0.414	0.072
906	3/8	9/16	18	0.468	0.078
907	7/16	5/8	18	0.530	0.082
908	1/2	3/4	16	0.644	0.087
909	9/16	13/16	16	0.706	0.097
910	5/8	7/8	14	0.755	0.097
911	11/16	1	12	0.863	0.116
912	3/4	1-1/16	12	0.924	0.116
913	13/16	1-1/8	12	0.986	0.116
914	7/8	1-3/16	12	1.048	0.116
916	1	1-5/16	12	1.171	0.116
918	1-1/8	1-1/2	12	1.355	0.116
920	1-1/4	1-5/8	12	1.475	0.118
924	1-1/2	1-7/8	12	1.720	0.118
928	1-3/4	2-1/4	12	2.090	0.118
932	2	2-1/2	12	2.337	0.118

This chart gives thread size and o-ring size as used on straight thread connectors, straight thread tube fittings, etc. These sizes are applicable for SAE. AN. and MS connections. O-rings used for straight thread connectors do not conform to so-called " standard size ". They should be purchased specifically for this service and should conform to the dimensions shown.

THIS SERIES IS ALSO AVAILABLE IN KIT FORM

O RING KITS

JAPANESE METRIC	N90	30 SIZES	391 PIECES
ORING CORD SPLICING KIT	N70	11 SIZES	KNIFE & GLUE
ORING CORD SPLICING KIT	V75		KNIFE & GLUE
IMPERIAL	V75	30 SIZES	382 PIECES
IMPERIAL	EPDM 70	30 SIZES	382 PIECES
IMPERIAL BACKUPS C/F	N90	30 SIZES	382 PIECES
2mm ORING	N70	60 SIZES	410 PIECES
3mm ORING	N70	59 SIZES	288 PIECES
METRIC	N70	30 SIZES	382 PIECES
IMPERIAL	N70	30 SIZES	382 PIECES
IMPERIAL	N90	30 SIZES	382 PIECES
IMPERIAL QUAD RING	N70		
1/16 INCH - NOMINAL	N90	30 SIZES	382 PIECES
1/8 INCH - NOMINAL	N70	30 SIZES	382 PIECES
3/32 INCH - NOMINAL	N70	30 SIZES	382 PIECES
UNF / SAE / ORF / CEE TOP	N90	30 SIZES	382 PIECES
MEGA IMPERIAL	N70	84 SIZES	1415 PIECES
MEGA IMPERIAL	N90	84 SIZES	1415 PIECES

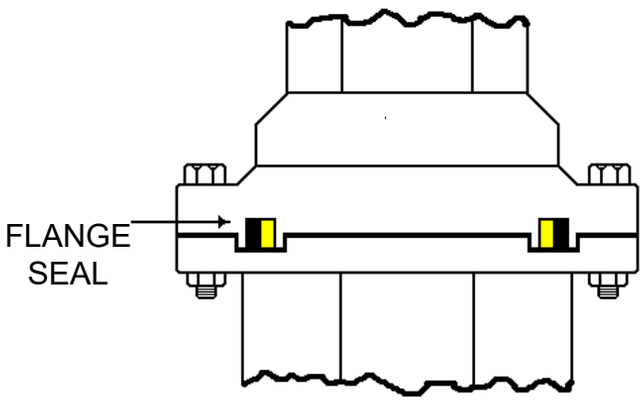
MISC KITS

BSP BONDED WASHERS	8 SIZES	78 PIECES
METRIC BONDED WASHERS	10 SIZES	88 PIECES
COPPER WASHERS	20 SIZES	100 PIECES
FLARETITE	JIC	
FLANGE SEAL SAE	7 SIZES	35 PIECES

CATERPILLAR D RING KIT
CATERPILLAR NITRILE 90 KIT
CATERILLAR SILICONE YELLOW KIT

SPECIAL KITS TAILOR MADE TO SUIT YOUR REQUIRMENTS

SAE -- FLANGE SEALS





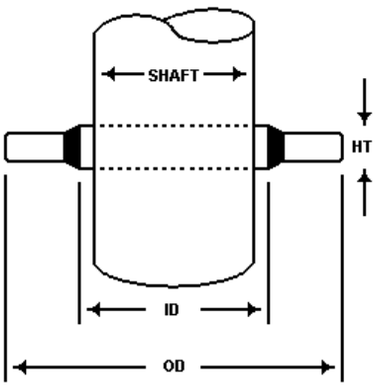
*NB - CATERPILLAR FLANGE SEALS (D RING STYLE) - SEE **GREEN** SECTION*

PART #	REPLACES O-RING NUMBER	OUTSIDE DIAMETER - 0.000 + 0.015	NOMINAL FLANGE SIZE
FS 08	210	1.005	**1/2**
FS 12	214	1.255	**3/4**
FS 16	219	1.565	**1**
FS 20	222	1.755	**1-1/4**
FS 24	225	2.125	**1-1/2**
FS 32	228	2.500	**2**
FS 40	232	3.005	**2-1/2**
FS 48	237	3.625	**3**
FS56	241	4.115	**3-1/2**
FS64	245	4.615	**4**
FS80	253	5.615	**5**

Flange seals are suitable for use in standard hydraulic fluids in a temperature range of -40 degrees F to + 220 degrees F and 0 to 6,000 p.s.i. Flange seals can provide direct replacement for o-rings without any modifications of the existing grooves.

METRIC SIZES			
PART#	NOMINAL GROOVE OD	NOMINAL GROOVE ID	NOMINAL GROOVE WIDTH
FSM033.5026.3	33.5	26.3	2.2
FSM045036.2	45	36.2	3.3
FSM075066.8K	75	66.8	4.2
FSM082.4074K	82.4	74	4.2
FSM103.4095K	103.4	95	4.2

BONDED WASHERS





PART#	SHAFT SIZE	ID	OD	HT	MATERIAL
SB001SS	6BA	3.05	6.35	1.22	STAINLESS STEEL / NITRILE
SB001	6BA	3.05	6.35	1.22	MILD STEEL/NITRILE
SB002	4BA	4.12	7.26	1.22	MILD STEEL/NITRILE
SB002SS	4BA	4.12	7.26	1.22	STAINLESS STEEL / NITRILE
SB202	4 MM	4.5	7	1	MILD STEEL / NITRILE
SB003	2BA	5.21	8.38	1.22	MILD STEEL/NITRILE
SB203	5 MM	5.7	9	1	MILD STEEL / NITRILE
SB204	5 MM	5.7	10	1	MILD STEEL / NITRILE
SB205	5.5 MM	6.2	9.2	1	MILD STEEL / NITRILE
SB206	6 MM	6.7	10	1	MILD STEEL / NITRILE
SB207SS	6 MM	6.7	11	1	STAINLESS STEEL / NITRILE
SB207V	6 MM	6.7	11	1	MILD STEEL / VITON
SB207	6 MM	6.7	11	1	MILD STEEL / NITRILE
SB004	1/4 INCH	6.86	13.21	1.22	MILD STEEL/NITRILE
SB005	1/4 INCH	6.99	13.34	1.22	MILD STEEL/NITRILE
SB210	6.7 MM	7.3	10.2	1	MILD STEEL / NITRILE
SB3138	8 MM	8	14	1	MILD STEEL / NITRILE
SB3270EPR	A/C FITTING	8.13	16	1.27	MILD STEEL / EPDM
SB006	5/16 INCH	8.31	13.48	1.22	MILD STEEL/NITRILE
SB007	5/16 INCH	8.64	14.22	1.22	MILD STEEL/NITRILE
SB212	8 MM	8.7	13	1	MILD STEEL / NITRILE
SB212SS	8 MM	8.7	13	1	STAINLESS STEEL / NITRILE
SB213	8 MM	8.7	14	1	MILD STEEL / NITRILE
SB215	8.5 MM	9.3	13.3	1	MILD STEEL / NITRILE
SB3076	10 MM	10	17	1.5	MILD STEEL / NITRILE
SB3076SS	10 MM	10	17	1.5	STAINLESS STEEL / NITRILE
SB020	3/8 INCH 1/8 BSP	10.35	15.88	2.03	MILD STEEL/NITRILE
SB020SS	3/8 INCH 1/8 BSP	10.35	15.88	2.03	STAINLESS STEEL / NITRILE
SB020SSV	3/8 INCH 1/8 BSP	10.35	15.88	2.03	STAINLESS STEEL / VITON
SB216SS	10 MM	10.37	16	2	STAINLESS STEEL / NITRILE
SB216	10 MM	10.37	16	2	MILD STEEL / NITRILE
SB510	1/8 BSPF	10.4	14.7	1.25	MILD STEEL / NITRILE
SB217SS	10 MM	10.7	16	1.5	STAINLESS STEEL / NITRILE
SB217	10 MM	10.7	16	1.5	MILD STEEL / NITRILE
SB218	10 MM	10.7	18	1.5	MILD STEEL / NITRILE
SB3249EPR	A/C FITTING	11.18	19.1	1.27	MILD STEEL / EPDM
SB008	0.4 INCH	11.26	18.36	2.03	MILD STEEL/NITRILE

PART#	SHAFT SIZE	ID	OD	HT	MATERIAL
SB219	11 MM	11.4	16.3	1.5	MILD STEEL / NITRILE
SB009	7/16 INCH	11.69	19.05	2.03	MILD STEEL/NITRILE
SB220	11 mm	11.8	18.5	1.5	MILD STEEL /NITRILE
SB221	11 MM	11.8	19.1	1.5	MILD STEEL / NITRILE
SB3077	12 MM	12	19	1.5	MILD STEEL / NITRILE
SB222SS	12 MM	12.7	18	1.5	MILD STEEL / NITRILE
SB222	12 MM	12.7	18	1.5	MILD STEEL / NITRILE
SB223	12 MM	12.7	20	1.5	MILD STEEL / NITRILE
SB021SSV	1/2 INCH 1/4 BS	13.7	20.57	2.03	STAINLESS STEEL / VITON
SB021SS	1/2 INCH 1/4 BS	13.7	20.57	2.03	STAINLESS STEEL / NITRILE
SB021EPR	1/2 INCH 1/4 BS	13.7	20.57	2.03	MILD STEEL / EPDM
SB021	1/2 INCH 1/4 BSP	13.7	20.57	2.03	MILD STEEL/NITRILE
SB225	13 MM	13.74	22	1.5	MILD STEEL / NITRILE
SB511	1/4 BSPF	13.84	18.7	1.25	MILD STEEL / NITRILE
SB511SS	1/4 BSPF	13.84	18.7	1.25	STAINLESS STEEL
SB226	13.5 MM	14	18.7	1.5	MILD STEEL / NITRILE
SB3063	14 MM	14	22	1.5	MILD STEEL / NITRILE
SB227	14 MM	14.7	22	1.5	MILD STEEL / NITRILE
SB010	9/16 INCH	14.86	22.23	2.03	MILD STEEL/NITRILE
SB3217EPR	A/C FITTING	15.37	28	1.27	MILD STEEL / EPDM
SB022	0.6 INCH	15.83	22.23	2.03	MILD STEEL/NITRILE
SB228	16MM BONDED SEAL	16	23	1.6	MILD STEEL / NITRILE
SB011	5/8 INCH	16.51	25.4	2.03	MILD STEEL/NITRILE
SB229SS	16 MM	16.7	24	1.5	STAINLESS STEEL / NITRILE
SB229	16 MM	16.7	24	1.5	MILD STEEL / NITRILE
SB3250EPR	A/C FITTING	17.16	25.27	1.27	MILD STEEL / EPDM
SB023V	3/8 BSP	17.28	23.8	2.03	MILD STEEL / VITON
SB023SSV	3/8 BSP	17.28	23.8	2.03	STAINLESS STEEL / VITON
SB023SS	3/8 BSP	17.28	23.8	2.03	STAINLESS STEEL / NITRILE
SB023	3/8 BSP	17.28	23.8	2.03	MILD STEEL/NITRILE
SB023EPR	3/8 BSP	17.28	23.8	2.03	MILD STEEL / EPDM
SB512SS	3/8 BSPF	17.35	22.7	1.25	STAINLESS STEEL
SB512	3/8 BSPF	17.35	22.7	1.25	MILD STEEL / NITRILE
SB230	17 MM	17.4	24	1.5	MILD STEEL / NITRILE
SB231	17.5 MM	18	24.7	1.5	MILD STEEL / NITRILE
SB3064	18 MM	18	27	2	MILD STEEL / NITRILE
SB012	11/16 INCH	18.16	25.4	2.34	MILD STEEL/NITRILE
SB232SS	18 MM	18.7	26	1.5	STAINLESS STEEL / NITRILE
SB232	18 MM	18.7	26	1.5	MILD STEEL / NITRILE
SB024	3/4 INCH	19.69	26.92	2.34	MILD STEEL / NITRILE
SB233	20 MM	20.7	28	1.5	MILD STEEL / NITRILE
SB025V	13/16 INCH 1/2 BSP	21.5	28.58	2.34	MILD STEEL / VITON
SB025	13/16 INCH 1/2 BSP	21.5	28.58	2.34	MILD STEEL / NITRILE
SB025SS	13/16 INCH 1/2 BSP	21.5	28.58	2.34	STAINLESS STEEL / NITRILE
SB025SSV	13/16 INCH 1/2 BSP	21.5	28.58	2.34	STAINLESS STEEL / VITON
SB234	21 MM	21.54	28.7	2.5	MILD STEEL / NITRILE
SB513	1/2 BSPF	21.65	26.7	1.25	MILD STEEL / NITRILE
SB236	22 MM	22.7	30	2	MILD STEEL / NITRILE
SB026	7/8 INCH 5/8 BSP	23.49	31.75	2.34	MILD STEEL / NITRILE
SB026EPR	7/8 INCH 5/8 BSP	23.49	31.75	2.34	MILD STEEL / EPDM
SB026SS	7/8 INCH 5/8 BSP	23.49	31.75	2.34	STAINLESS STEEL / NITRILE
SB026SSV	7/8 INCH 5/8 BSP	23.49	31.75	2.34	STAINLESS STEEL / VITON
SB013	15/16 INCH	24.26	33.27	2.34	MILD STEEL/NITRILE
SB238	24 MM	24.7	32	2	MILD STEEL / NITRILE

PART#	SHAFT SIZE	ID	OD	HT	MATERIAL
SB3065	26 MM	26	35	2	MILD STEEL / NITRILE
SB239	26 MM	26.7	35	2	MILD STEEL / NITRILE
SB027SSV	1 INCH 3/4 BS	27.05	34.93	2.34	STAINLESS STEEL / VITON
SB027	1 INCH 3/4 BSP	27.05	34.93	2.34	MILD STEEL / NITRILE
SB027SS	1 INCH 3/4 BS	27.05	34.93	2.34	STAINLESS STEEL / NITRILE
SB027EPR	1 INCH 3/4 BSP	27.05	34.93	2.34	MILD STEEL / EPDM
SB240	27 MM	27.2	36	2	MILD STEEL / NITRILE
SB514	3/4 BSPF	27.3	32.5	1.25	MILD STEEL / NITRILE
SB028	1 1/16 INCH	27.82	38.61	2.34	MILD STEEL / NITRILE
SB241	28 MM	28.7	37	2	MILD STEEL / NITRILE
SB014	1 1/8 INCH	29.33	36.58	2.34	MILD STEEL/NITRILE
SB029	1 3/16 INCH 7/8 BSP	30.81	38.1	2.34	MILD STEEL / NITRILE
SB242	30 MM	31	39	2	MILD STEEL / NITRILE
SB015	1 1/4 INCH	32.64	41.4	3.25	MILD STEEL/NITRILE
SB243	33 MM	33.7	42	2	MILD STEEL / NITRILE
SB030	1 5/16 INCH 1 BSP	33.89	42.8	2.5	MILD STEEL / NITRILE
SB030EPR	1 5/16 INCH 1 BSP	33.89	42.8	2.5	MILD STEEL / EPDM
SB031	1 5/16 INCH 1 BSP	33.89	42.8	2.5	MILD STEEL / NITRILE
SB030SS	1 5/16 INCH 1 BSP	33.89	42.89	2.5	STAINLESS STEEL / NITRILE
SB030SSV	1 5/16 INCH 1 BSP	33.89	42.89	2.5	STAINLESS STEEL / VITON
SB515	1 BSPF	34.2	39.5	2	MILD STEEL / NITRILE
SB244	33 MM	34.3	43	2	MILD STEEL / NITRILE
SB016	1 3/8 INCH	35.94	44.45	3.25	MILD STEEL/NITRILE
SB245	36 MM	36.7	46	2	MILD STEEL / NITRILE
SB017	1 1/2 INCH	38.96	47.75	3.25	MILD STEEL/NITRILE
SB334		40	51	2.5	MILD STEEL / NITRILE
SB246	39 MM	40	51	2.5	MILD STEEL / NITRILE
SB247	42 MM	42.7	53	3	MILD STEEL / NITRILE
SB516	1 1/4 BSPF	42.8	49.5	2	MILD STEEL / NITRILE
SB032EPR	1 5/8 INCH 1 1/4 BSP	42.93	52.38	2.5	MILD STEEL / EPDM
SB032SS	1 5/8 INCH 1 1/4 BSP	42.93	52.38	2.5	STAINLESS STEEL / NITRILE
SB032	1 5/8 INCH 1 1/4 BSP	42.93	52.38	2.5	MILD STEEL / NITRILE
SB032SSV	1 5/8 INCH 1 1/4 BSP	42.93	52.38	2.5	STAINLESS STEEL / VITON
SB018	1 3/4 INCH	45.34	57.15	3.25	MILD STEEL/NITRILE
SB033SSV	1 7/8 INCH 1 1/2 BSP	48.44	58.6	2.5	STAINLESS STEEL / VITON
SB033	1 7/8 INCH 1 1/2 BSP	48.44	58.6	2.5	MILD STEEL / NITRILE
SB033SS	1 7/8 INCH 1 1/2 BSP	48.44	58.6	2.5	STAINLESS STEEL / NITRILE
SB517	1 1/2 BSPF	48.7	55.5	2	MILD STEEL / NITRILE
SB248	48 MM	48.7	59	3	MILD STEEL / NITRILE
SB033EPR	1 7/8 INCH 1 1/2 BSP	49.44	58.6	2.5	MILD STEEL / EPDM
SB019	2 INCH	51.69	63.5	3.25	MILD STEEL/NITRILE
SB034	2 1/8 INCH 1 3/4 BSP	54.89	69.85	3.25	MILD STEEL / NITRILE
SB035		58.04	70.36	3.25	MILD STEEL / NITRILE
SB518	2 BSPF	60.5	68.5	2	MILD STEEL / NITRILE
SB036	2 BSP	60.58	73.03	2.5	MILD STEEL / NITRILE
SB036SS	2 BSP	60.58	73.03	2.5	STAINLESS STEEL / NITRILE
SB036SSV	2 BSP	60.58	73.03	2.5	STAINLESS STEEL / VITON
SB037	2 1/2 INCH	64.39	77.72	3.25	MILD STEEL / NITRILE
SB038	2 1/4 BSP	66.68	69.98	3.25	MILD STEEL / NIYRILE
SB039	2 1/2 BSP	76.08	90.17	3.25	MILD STEEL / NITRILE
SB079	3 BSP	88.47	101.6	3.25	MILD STEEL / NITRILE
SB254	88 MM	89.09	101.5	3.25	MILD STEEL / NITRILE

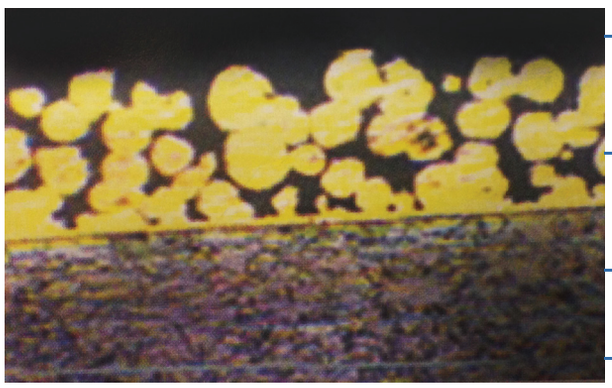
EZI GLIDE (EZU)



EZU SELF LUBRICATING BUSHING (SF-1 MATERIAL)

- DRY GOOD
- OILED GOOD
- GREASED GOOD
- WATER FAIR

Dry or trace of oil or grease only required



1. PTFE/pb wear surface, 0.01-0.03mm, provides an initial transfer film, which effectively coats the mating surface on the bearing assembly, forming an oxide type solid lubricant film.

2. Sintered bronze interlay, 0.20-0.35mm, provides maximum thermal conductivity away from the bearing surface, also serves as a reservior for PTFE-Lead wear surface.

3. Low-carbon steel, backing, gives exceptionally high load carrying capacity, excellent heat dissipation

4. Copper/Tin plating 0.002mm, provides good corrosion resistance

MAX LOAD	STATIC	250 N/mm2
	VERY LOW SPEED	140 N/mm2
	ROTATING OSCILLATING	60 N/mm2
MAX PV DRY RUNNING	SHORT TERM	3.6 N/mm2* m/s
	CONTINOUS OPERATION	1.8 N/mm2* m/s

FRICTION COEFICIENT		0.03-0.20
MAXIMUM SPEED	Dry	2 m/s
	HYDRODYNAMIC	>2 m/s
SHAFT SURFACE FINISH - Ra		em = 0.4
SHAFT HARDNESS		HB > 200
TEMPERATURE LIMIT		-195°C- +280°C

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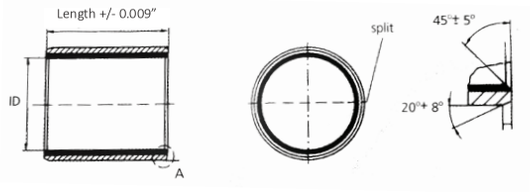
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EZI GLIDE(EZU)

EZU SELF LUBRICATING BUSHES
MACHINING - IMPERIAL SIZES



SF 1 COMPOSITE BEARING

STEEL BACKED - COPPER/TIN PLATED

SINTERED POROUS TIN BRONZE INTERLAY

PTFE/LED OVERLAY

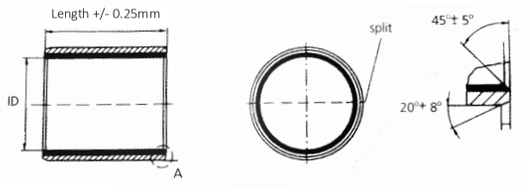
Manufactured to: DIN 1494
Dimensions part 2

NORMAL BEARING ID	RECOMMENDED SHAFT DIA MIN	MAX	RECOMMENDED HOUSING BORE MIN	MAX
1/8"	0.1236	0.1243	0.1873	0.1878
5/32"	0.1547	0.1554	0.2186	0.2191
3/16"	0.1858	0.1865	0.2497	0.2503
1/4"	0.2481	0.2490	0.3122	0.3128
5/16"	0.3106	0.3115	0.3747	0.3753
3/8"	0.3731	0.3740	0.4684	0.4691
7/16"	0.4355	0.4365	0.5309	0.5316
1/2"	0.4980	0.4990	0.5934	0.5941
9/16"	0.5605	0.5615	0.6559	0.6566
5/8"	0.6230	0.6240	0.7184	0.7192
11/16"	0.6855	0.6865	0.7809	0.7817
3/4"	0.7479	0.7491	0.8747	0.8755
7/8"	0.8729	0.8741	0.9997	1.0005
1"	0.9979	0.9991	1.1246	1.1256
1 1/8"	1.1226	1.1238	1.2808	1.2818

NORMAL BEARING ID	RECOMMENDED SHAFT DIA MIN	MAX	RECOMMENDED HOUSING BORE MIN	MAX
1 1/4"	1.2475	1.2488	1.4058	1.4068
1 3/8"	1.3722	1.3738	1.5308	1.5318
1 1/2"	1.4972	1.4988	1.6558	1.6568
1 5/8"	16222	1.6238	1.7808	1.7818
1 3/4"	1.7471	1.7487	1.9371	1.9381
1 7/8"	1.8721	1.8737	2.0621	2.0633
2"	1.9969	1.9987	2.1871	2.1883
2 1/4"	2.2489	2.2507	2.4365	2.4977
2 1/2"	2.4993	2.5011	2.6869	2.6881
2 3/4"	2.7482	2.7500	2.9358	2.9370
3"	2.9982	3.0000	3.1858	3.1872
3 1/2"	3.4978	3.5000	3.6858	3.6872
4"	3.9978	4.0000	4.1585	4.1872
5"	4.9961	4.9986	5.1844	5.1860
6"	5.9975	6.0000	6.1858	6.1874
7"	6.9929	6.9954	7.1812	7.1830

EZI GLIDE(EZU)

EZU SELF LUBRICATING BUSHES
MACHINING - METRIC SIZES



SF 1 COMPOSITE BEARING

STEEL BACKED - COPPER/TIN PLATED

SINTERED POROUS TIN BRONZE INTERLAY

PTFE/LED OVERLAY

Manufactured to: DIN 1494
Dimensions part 2

NORMAL BEARING ID	RECOMMENDED SHAFT DIA MIN	MAX	RECOMMENDED HOUSING BORE MIN	MAX
2	1.994	2.000	3.500	3.508
3	2.994	3.000	4.500	4.508
4	3.992	4.000	5.500	5.508
5	4.978	4.990	7.000	7.0115
6	5.978	5.990	8.000	8.015
7	6.972	6.987	9.000	9.015
8	7.972	7.987	10.000	10.015
10	9.972	9.987	12.000	12.018
12	11.966	11.984	14.000	14.018
13	12.966	12.984	15.000	15.018
14	13.966	13.984	16.000	16.018
15	14.966	14.984	17.000	17.018
16	15.966	15.984	18.000	18.018
17	16.966	16.984	19.000	19.021
18	17.966	17.984	20.000	20.021
20	19.959	19.984	23.000	23.021
22	21.959	21.980	25.000	25.021
24	23.959	23.980	27.000	27.021
25	24.959	24.980	28.000	28.021
28	27.959	27.980	32.000	32.025
30	29.959	29.980	34.000	34.025
32	31.950	31.975	36.000	36.025
35	34.950	34.975	39.000	39.025
37	36.950	36.975	41.000	41.025
40	39.950	39.975	44.000	44.025
45	44.950	44.975	50.000	50.025
50	49.950	40.975	55.000	55.030
55	54.940	54.970	60.000	60.030
60	59.940	59.970	65.000	65.030
65	64.940	64.970	70.000	70.030

NORMAL BEARING ID	RECOMMENDED SHAFT DIA MIN	MAX	RECOMMENDED HOUSING BORE MIN	MAX
70	69.940	69.970	75.000	75.030
75	74.940	74.970	80.000	80.030
80	79.954	80.000	85.000	85.035
85	84.946	85.000	90.000	90.035
90	89.946	90.000	95.000	95.035
95	94.946	95.000	100.000	100.035
100	99.946	100.000	105.000	105.035
105	104.946	105.000	110.000	110.035
110	109.946	110.000	115.000	115.035
115	114.946	115.000	120.000	120.035
120	119.946	120.000	125.000	125.040
125	124.937	125.000	130.000	130.040
130	129.937	130.000	135.000	135.040
135	134.937	135.000	140.000	140.040
140	139.937	140.000	145.000	145.040
150	149.937	150.000	155.000	155.040
160	159.937	160.000	165.000	165.040
170	169.937	170.000	175.000	175.040
180	179.937	180.000	185.000	185.046
190	189.928	190.000	195.000	195.046
200	199.928	200.000	205.000	205.046
210	209.928	210.000	215.000	215.046
220	219.928	220.000	225.000	225.046
230	229.928	230.000	235.000	235.046
240	239.928	240.000	245.000	245.046
250	249.928	250.000	255.000	255.052
260	259.919	260.000	265.000	265.052
270	269.919	270.000	275.000	275.052
280	279.919	280.000	285.000	285.052
290	289.919	290.000	295.000	295.052
300	299.919	300.00	305.000	305.052

EZI-GLIDE (SF1)

SELF LUBRICATING BEARING -- OIL LESS BEARING

EZI-GLIDE is the ultimate in oil less bearing design — Low Wear / Low Friction

OUTSTANDING FEATURES

* Steel backing — with a layer of sintered porous bronze particles (0.2 - 0.35mm)
* Impregnated overlaid layer of PTFE with Pb (0.01-0.05mm) on the bronze layer
* It may be used where oil can not be applied or is difficult to apply
* Suitable for rotating, oscillating and reciprocating motion
* Similar static and dynamic friction with elimination of stick - slip under slow sliding speeds
* Resists most solvents and many industrial liquids and gases, including water and oil: most of which improve the performance.
* Compact and light
* Forms a transfer film in operation, which can protect mating metal surfaces.

Specific Load Mpa	Temperature Range C	Coefficient of Friction	PV factor limit Mpa-m/s	Wear depth limit mm	Thermal conductivity Kcal/M.br.C	Coefficient of linear expansion
280	-195 to +270	=0.20	3.6	0.05	2.41	2.7x10(-5)

Wear Comparison between EZI-GLIDE SF1 material and other materials

MATERIAL	TEST TIME (HOURS)	WEAR DEPTH (mm)
SF-1	**1000**	**<0.025**
GRAPHITE-FILLED BRONZE	158	0.25
OIL-FILLED POROUS BRONZE	105	0.25
MOS(2) - FILLED PHENOLICS	73	0.125
ANTIFRICTION GRAPHITE	24	0.125
ASBESTOS IMPREGNATED WITH MOS(2)	0.8	0.125
NYLON	0.3	0.25

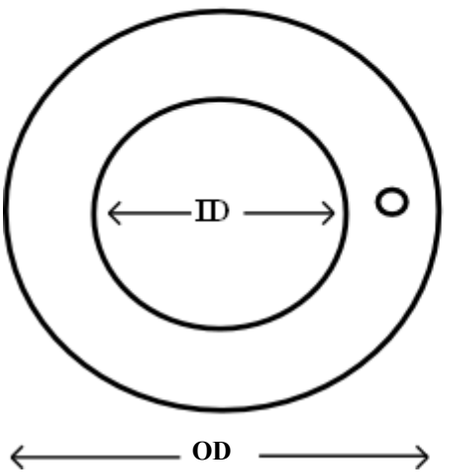
MANUFACTURED IN ACCORDANCE WITH **DIN 1494**

THRUST WASHER

EZI-GLIDE (SF1)

BACKING -- STEEL LINING -- BRONZE

OVERLAY -- PTFE / LEAD





PART #	ID	OD	THICKNESS	
TW01002001.5	10	20	1.5	STEEL/BRONZE/PTFE
TW01202401.5	12	24	1.5	STEEL/BRONZE/PTFE
TW01402601.5	14	26	1.5	STEEL/BRONZE/PTFE
TW01603001.5	16	30	1.5	STEEL/BRONZE/PTFE
TW01803201.5	18	32	1.5	STEEL/BRONZE/PTFE
TW02003601.5	20	36	1.5	STEEL/BRONZE/PTFE
TW02203801.5	22	38	1.5	STEEL/BRONZE/PTFE
TW02404201.5	24	42	1.5	STEEL/BRONZE/PTFE
TW02604401.5	26	44	1.5	STEEL/BRONZE/PTFE
TW02804801.5	28	48	1.5	STEEL/BRONZE/PTFE
TW03205401.5	32	54	1.5	STEEL/BRONZE/PTFE
TW03806201.5	38	62	1.5	STEEL/BRONZE/PTFE
TW04206601.5	42	66	1.5	STEEL/BRONZE/PTFE
TW04807402	48	74	2	STEEL/BRONZE/PTFE
TW05207802	52	78	2	STEEL/BRONZE/PTFE
TW06209002	62	90	2	STEEL/BRONZE/PTFE
TWS08112002	81	112	2	STEEL/BRONZE/PTFE
TWS09114001.3	91	140	1.3	STAINLESS STEEL
TWS100.514001.3	100.5	140	1.3	STAINLESS STEEL
TW10515002.5	105	150	2.5	STEEL/BRONZE/PTFE

SELF-LUBRICATING BUSHING

METRIC



EZI-GLIDE -- (SF1)

RETROFIT FOR "GLACIER - DU BUSH" "PERMALUBE" AND SIMILAR

BACKING --------- STEEL LINING ---------- BRONZE OVERLAY -------- PTFE / LEAD

PART #	ID	OD	LENGTH
EZU004005.504	4	5.5	4
EZU004005.510	4	5.5	10
EZU00500705	5	7	5
EZU00500706	5	7	6
EZU00500708	5	7	8
EZU00500710	5	7	10
EZU00600806	6	8	6
EZU00600808	6	8	8
EZU00600810	6	8	10
EZU00600820	6	8	20
EZU00700912	7	9	12
EZU00801006	8	10	6
EZU00801006SS	8	10	6
EZU00801008	8	10	8
EZU00801008SS	8	10	8
EZU00801010	8	10	10
EZU00801012	8	10	12
EZU00901120	9	11	20
EZU00901123	9	11	23
EZU01001206SS	10	12	6
EZU01001208	10	12	8
EZU01001208SS	10	12	8
EZU01001209	10	12	9
EZU01001210	10	12	10
EZU01001212SS	10	12	12
EZU01001212	10	12	12
EZU01001215	10	12	15
EZU01001220	10	12	20
EZU01201408	12	14	8
EZU01201409	12	14	9
EZU01201410	12	14	10
EZU01201412	12	14	12
EZU01201415	12	14	15
EZU01201420	12	14	20
EZU01201425	12	14	25
EZU012.5014.508	12.5	14.5	8

PART #	ID	OD	LENGTH
EZU012.5014.515	12.5	14.5	15
EZU01301512	13	15	12
EZU01301520	13	15	20
EZU01401610	14	16	10
EZU01401612	14	16	12
EZU01401615	14	16	15
EZU01401620	14	16	20
EZU01401625	14	16	25
EZU01501710	15	17	10
EZU01501715	15	17	15
EZU01501720	15	17	20
EZU01501725	15	17	25
EZU01601810	16	18	10
EZU01601810SS	16	18	10
EZU01601812	16	18	12
EZU01601815	16	18	15
EZU01601815SS	16	18	15
EZU01601820	16	18	20
EZU01601825	16	18	25
EZU01701905	17	19	5
EZU01701913	17	19	13
EZU01701915	17	19	15
EZU01701920	17	19	20
EZU01701925	17	19	25
EZU01701930	17	19	30
EZU01802012	18	20	12
EZU01802015	18	20	15
EZU01802015SS	18	20	15
EZU01802020	18	20	20
EZU01802025	18	20	25
EZU018021.0251	18	21	15
EZU01902315	19	23	15
EZU01902430	19	24	30
EZU02002215	20	22	15
EZU02002310	20	23	10
EZU02002315	20	23	15

SELF-LUBRICATING BUSHING

METRIC



EZI-GLIDE -- (SF1)

RETROFIT FOR "GLACIER - DU BUSH" "PERMALUBE" AND SIMILAR

BACKING --------- STEEL LINING ---------- BRONZE OVERLAY -------- PTFE / LEAD

PART #	ID	OD	LENGTH
EZU02002320	20	23	20
EZU02002321.5	20	23	21.5
EZU02002325	20	23	25
EZU02002330	20	23	30
EZU02002420	20	24	20
EZU02202515	22	25	15
EZU02202520	22	25	20
EZU02202525	22	25	25
EZU02202530	22	25	30
EZU022.4.26.415	22.4	26.4	15
EZU02402725	24	27	25
EZU02402730	24	27	30
EZU02502810	25	28	10
EZU02502815	25	28	15
EZU02502820	25	28	20
EZU02502825	25	28	25
EZU02502830	25	28	30
EZU02502840	25	28	40
EZU02502850	25	28	50
EZU02502925	25	29	25
EZU02603029.5	26	30	29.5
EZU02803208	28	32	8
EZU02803220	28	32	20
EZU02803230	28	32	30
EZU03003415	30	34	15
EZU03003416	30	34	16
EZU03003420	30	34	20
EZU03003425	30	34	25
EZU03003430	30	34	30
EZU03003432	30	34	32
EZU03003440	30	34	40
EZU03203416	32	34	16
EZU03203440	32	34	40
EZU03203620	32	36	20
EZU03203624	32	36	24
EZU03203630	32	36	30

PART #	ID	OD	LENGTH
EZU03203632	32	36	32
EZU03203640	32	36	40
EZU03203655	32	36	55
EZU03503916	35	39	16
EZU03503920	35	39	20
EZU03503925	35	39	25
EZU03503930	35	39	30
EZU03503935	35	39	35
EZU03503940	35	39	40
EZU03503950	35	39	50
EZU03504025	35	40	25
EZU03604022	36	40	22
EZUE03704008	37	40	8
EZU03704120	37	41	20
EZU03804220	38	42	20
EZU03804230	38	42	30
EZU03804235	38	42	35
EZU03804240	38	42	40
EZU03804250	38	42	50
EZU03904315	39	43	15
EZU04004420	40	44	20
EZU04004425	40	44	25
EZU04004427	40	44	27
EZU04004430	40	44	30
EZU04004440	40	44	40
EZU04004450	40	44	50
EZU04004516	40	45	16
EZU04004530	40	45	30
EZU04004540	40	45	40
EZU04004550	40	45	50
EZU04204620	42	46	20
EZU04204640	42	46	40
EZU04204650	42	46	50
EZU04404820	44	48	20
EZU04404830	44	48	30
EZU04404850	44	48	50

SELF-LUBRICATING BUSHING

METRIC

EZI-GLIDE -- (SF1)

RETROFIT FOR "GLACIER - DU BUSH" "PERMALUBE" AND SIMILAR



BACKING --------- STEEL LINING ---------- BRONZE OVERLAY -------- PTFE / LEAD

PART #	ID	OD	LENGTH
EZU04504820	45	48	20
EZU04505020	45	50	20
EZU04505025	45	50	25
EZU04505030	45	50	30
EZU04505035	45	50	35
EZU04505040	45	50	40
EZU04505045	45	50	45
EZU04505050	45	50	50
EZU04505060	45	50	60
EZUE04705008	47	50	8
EZU05005513	50	55	13
EZU05005520	50	55	20
EZU05005525	50	55	25
EZU05005530	50	55	30
EZU05005535	50	55	35
EZU05005540	50	55	40
EZU05005550	50	55	50
EZU05005560	50	55	60
EZU05506030	55	60	30
EZU05506035	55	60	35
EZU05506040	55	60	40
EZU05506050	55	60	50
EZU05506055	55	60	55
EZU05506060	55	60	60
EZU06006513	60	65	13
EZU06006520	60	65	20
EZU06006525	60	65	25
EZU06006530	60	65	30
EZU06006535	60	65	35
EZU06006540	60	65	40
EZU06006550	60	65	50
EZU06006560	60	65	60
EZU06006570	60	65	70
EZU06206570	62	65	70
EZU06306630	63	66	30
EZU06306840	63	68	40
EZU06507025	65	70	25

PART #	ID	OD	LENGTH
EZU06507030	65	70	30
EZU06507035	65	70	35
EZU06507040	65	70	40
EZU06507050	65	70	50
EZU06507060	65	70	60
EZU06507070	65	70	70
EZU07007515	70	75	15
EZU07007530	70	75	30
EZU07007535	70	75	35
EZU07007540	70	75	40
EZU07007550	70	75	50
EZU07007560	70	75	60
EZU07007570	70	75	70
EZU07007580	70	75	80
EZU07508015	75	80	15
EZU07508025	75	80	25
EZU07508030	75	80	30
EZU07508035	75	80	35
EZU07508040	75	80	40
EZU07508050	75	80	50
EZU07508060	75	80	60
EZU07508070	75	80	70
EZU07508080	75	80	80
EZU08008530	80	85	30
EZU08008540	80	85	40
EZU08008550	80	85	50
EZU08008560	80	85	60
EZU08008570	80	85	70
EZU080085100	80	85	100
EZU08509030	85	90	30
EZU08509035	85	90	35
EZU08509040	85	90	40
EZU08509050	85	90	50
EZU08509060	85	90	60
EZU08509080	85	90	80
EZU085090100	85	90	100
EZU09009520	90	95	20
EZU09009530	90	95	30

SELF-LUBRICATING BUSHING

METRIC



EZI-GLIDE -- (SF1)

RETROFIT FOR "GLACIER - DU BUSH" "PERMALUBE" AND SIMILAR

BACKING --------- STEEL LINING ---------- BRONZE OVERLAY -------- PTFE / LEAD

PART #	ID	OD	LENGTH
EZU09009535	90	95	35
EZU09009540	90	95	40
EZU09009550	90	95	50
EZU09009560	90	95	60
EZU090095100	90	95	100
EZU09510030	95	100	30
EZU09510035	95	100	35
EZU09510040	95	100	40
EZU09510045	95	100	45
EZU09510050	95	100	50
EZU09510060	95	100	60
EZU09510080	95	100	80
EZU095100120	95	100	120
EZU10010520	100	105	20
EZU10010530	100	105	30
EZU10010535	100	105	35
EZU10010540	100	105	40
EZU10010550	100	105	50
EZU10010560	100	105	60
EZU10010570	100	105	70
EZU100105100	100	105	100
EZU100105115	100	105	115
EZU100105120	100	105	120
EZU10511020	105	110	20
EZU10511030	105	110	30
EZU10511035	105	110	35
EZU10511040	105	110	40
EZU10511045	105	110	45
EZU10511050	105	110	50
EZU105110115	105	110	115
EZU11011535	110	115	35
EZU11011540	110	115	40
EZU11011545	110	115	45
EZU11011550	110	115	50
EZU11011555	110	115	55
EZU11011560	110	115	60
EZU11011570	110	115	70
EZU110115115	110	115	115

PART #	ID	OD	LENGTH
EZU11512035	115	120	35
EZU11512040	115	120	40
EZU11512045	115	120	45
EZU11512050	115	120	50
EZU11512060	115	120	60
EZU11512070	115	120	70
EZU115120100	115	120	100
EZU12012520	120	125	20
EZU12012540	120	125	40
EZU12012545	120	125	45
EZU12012550	120	125	50
EZU12012560	120	125	60
EZU12012570	120	125	70
EZU120125100	120	125	100
EZU12513050	125	130	50
EZU13013535	130	135	35
EZU13013539	130	135	39
EZU13013540	130	135	40
EZU13013545	130	135	45
EZU13013550	130	135	50
EZU13013560	130	135	60
EZU130135100	130	135	100
EZU13514060	135	140	60
EZU13514080	135	140	80
EZU140145100	135	140	100
EZU14014506	140	145	6
EZU14014519	140	145	19
EZU14014540	140	145	40
EZU14014549	140	145	49
EZU14014560	140	145	60
EZU14014565	140	145	65
EZU14014570	140	145	70
EZU15015540	150	155	40
EZU15015550	150	155	50
EZU15015560	150	155	60
EZU15015580	150	155	80
EZU150155100	150	155	100

SELF-LUBRICATING BUSHING

METRIC

EZI-GLIDE -- (SF1)

RETROFIT FOR "GLACIER - DU BUSH" "PERMALUBE" AND SIMILAR



BACKING --------- STEEL LINING ---------- BRONZE OVERLAY -------- PTFE / LEAD

PART #	ID	OD	LENGTH
EZU15516040	155	160	40
EZU16016535	160	165	35
EZU16016540	160	165	40
EZU16016550	160	165	50
EZU16016580	160	165	80
EZU16016596	160	165	96
EZU160165100	160	165	100
EZU17017540	170	175	40
EZU17017560	170	175	60
EZU17017575	170	175	75
EZU17017580	170	175	80
EZU17017585	170	175	85
EZU17518065	175	180	65
EZU18018550	180	185	50
EZU18018580	180	185	80
EZU180185100	180	185	100
EZU180185120	180	185	120
EZU180185130	180	185	130
EZU180185140	180	185	140
EZU19019540	190	195	40
EZU20020515	200	205	15
EZU20020550	200	205	50
EZU20020560	200	205	60
EZU20020570	200	205	70
EZU20020580	200	205	80
EZU21021519.5	210	215	19.5
EZU21021520	210	215	20
EZU21021535	210	215	35
EZU21021575	210	215	75
EZU22022515	220	225	15
EZU22022560	220	225	60
EZU23023560	230	235	60
EZU24024560	240	245	60
EZU26026570	260	265	70

PART #	ID	OD	LENGTH
EZU28028585	280	285	85

SELF-LUBRICATING BUSHING

IMPERIAL



EZI-GLIDE -- (SF1)

RETROFIT FOR "GLACIER - DU BUSH" "PERMALUBE" AND SIMILAR

BACKING --------- STEEL LINING ---------- BRONZE OVERLAY -------- PTFE / LEAD

PART #	ID	OD	LENGTH
EZUI012018012	0.125	0.187	0.125
EZUI012018018	0.125	0.187	0.187
EZUI015021015	0.156	0.219	0.156
EZUI015021025	0.156	0.219	0.25
EZUI018025018	0.187	0.25	0.187
EZUI018025025	0.187	0.25	0.25
EZUI018025037	0.187	0.25	0.375
EZUI025031025	0.25	0.312	0.25
EZUI025031037	0.25	0.312	0.375
EZUI031037037	0.312	0.375	0.375
EZUI031037050	0.312	0.375	0.5
EZUI031037075	0.312	0.375	0.75
EZUI037046025	0.375	0.468	0.25
EZUI037046037	0.375	0.468	0.375
EZUI037046050	0.375	0.468	0.5
EZUI037046075	0.375	0.468	0.75
EZUI043053050	0.437	0.531	0.5
EZUI043053075	0.437	0.531	0.75
EZUI050059037	0.5	0.593	0.375
EZUI050059050	0.5	0.593	0.5
EZUI050059062	0.5	0.593	0.625
EZUI050059075	0.5	0.593	0.75
EZUI050059087	0.5	0.593	0.875
EZUI050059023	0.5	0.594	0.236
EZUI050062250	0.5	0.625	0.25
EZUI056065050	0.562	0.656	0.5
EZUI056065075	0.562	0.656	0.75
EZUI062071050	0.625	0.718	0.5
EZUI062071062	0.625	0.718	0.625
EZUI062071075	0.625	0.718	0.75
EZUI062071087	0.625	0.718	0.875
EZUI068078087	0.687	0.781	0.875
EZUI075087050	0.75	0.875	0.5
EZUI075087055	0.75	0.875	0.55

PART #	ID	OD	LENGTH
EZUI075087075	0.75	0.875	0.75
EZUI075087100	0.75	0.875	1
EZUI075087125	0.75	0.875	1.25
EZUI087100062	0.875	1	0.625
EZUI087100075	0.875	1	0.75
EZUI087100087	0.875	1	0.875
EZUI087100100	0.875	1	1
EZUI087100125	0.875	1	1.25
EZUI100112062	1	1.125	0.625
EZUI100112075	1	1.125	0.75
EZUI100112100	1	1.125	1
EZUI100112125	1	1.125	1.25
EZUI100112150	1	1.125	1.5
EZUI100112193	1	1.125	1.937
EZUI100112200	1	1.125	2
EZUI112125100	1.125	1.25	1
EZUI112128075	1.125	1.281	0.75
EZUI112128100	1.125	1.281	1
EZUI125137112	1.25	1.375	1.125
EZUI125140075	1.25	1.406	0.75
EZUI125140100	1.25	1.406	1
EZUI125140112	1.25	1.406	1.125
EZUI125140125	1.25	1.406	1.25
EZUI125140150	1.25	1.406	1.5
EZUI125140175	1.25	1.406	1.75
EZUI137153100	1.375	1.531	1
EZUI137153112	1.375	1.531	1.125
EZUI137153137	1.375	1.531	1.375
EZUI137153175	1.375	1.531	1.75
EZUI150165056	1.5	1.656	0.562
EZUI150165075	1.5	1.656	0.75
EZUI150165100	1.5	1.656	1
EZUI150165125	1.5	1.656	1.25
EZUI150165150	1.5	1.656	1.5
EZUI150165175	1.5	1.656	1.75
EZUI150165200	1.5	1.656	2
EZUI162178100	1.625	1.781	1

SELF-LUBRICATING BUSHING

IMPERIAL



EZI-GLIDE -- (SF1)

RETROFIT FOR "GLACIER - DU BUSH" "PERMALUBE" AND SIMILAR

BACKING --------- STEEL LINING ---------- BRONZE OVERLAY -------- PTFE / LEAD

PART #	ID	OD	LENGTH
EZUI162178150	1.625	1.781	1.5
EZUI175193062	1.75	1.937	0.625
EZUI175193100	1.75	1.937	1
EZUI175193150	1.75	1.937	1.5
EZUI175193175	1.75	1.937	1.75
EZUI175193200	1.75	1.937	2
EZUI187206050	1.875	2.062	0.5
EZUI187206100	1.875	2.062	1
EZUI187206187	1.875	2.062	1.875
EZUI187206225	1.875	2.062	2.25
EZUI200218075	2	2.187	0.75
EZUI200218100	2	2.187	1
EZUI200218125	2	2.187	1.25
EZUI200218150	2	2.187	1.5
EZUI200218200	2	2.187	2
EZUI200218250	2	2.187	2.5
EZUI225243150	2.25	2.437	1.5
EZUI225243200	2.25	2.437	2
EZUI225243225	2.25	2.437	2.25
EZUI225243250	2.25	2.437	2.5
EZUI225243300	2.25	2.437	3
EZUI250268137	2.5	2.687	1.375
EZUI250268200	2.5	2.687	2
EZUI250268250	2.5	2.687	2.5
EZUI250268300	2.5	2.687	3
EZUI250268350	2.5	2.687	3.5
EZUI275293200	2.75	2.937	2
EZUI275293250	2.75	2.937	2.5
EZUI275293300	2.75	2.937	3
EZUI275293350	2.75	2.937	3.5
EZUI300318100	3	3.187	1
EZUI300318150	3	3.187	1.5
EZUI300318200	3	3.187	2
EZUI300318300	3	3.187	3
EZUI300318375	3	3.187	3.75
EZUI350368250	3.5	3.687	2.5
EZUI350368300	3.5	3.687	3
EZUI350368375	3.5	3.687	3.75
EZUI400418300	4	4.187	3
EZUI400418475	4	4.187	4.75
EZUI400418500	4	4.187	5
EZUI400418375	4	4.188	3.75
EZUI500518300	5	5.187	3
EZUI500518375	5	5.187	3.75
EZUI550568500	5.5	5.687	5
EZUI600618300	6	6.187	3
EZUI600618375	6	6.187	3.75

SELF-LUBRICATING BUSHING

EZI-GLIDE -- (SF1)

RETROFIT FOR "GLACIER - DU BUSH" "PERMALUBE" AND SIMILAR



FLANGED

BACKING --------- STEEL LINING ---------- BRONZE OVERLAY -------- PTFE / LEAD

PART #	ID	OD	LENGTH
EZF00600808	6	8	8
EZF00801007.5	8	10	7.5
EZF01001209	10	12	9
EZF01001212	10	12	12
EZF01001217	10	12	17
EZF01201409	12	14	9
EZF01201417	12	14	17
EZF01401612	14	16	12
EZF01501709	15	17	9
EZF01501717	15	17	17
EZF01601812	16	18	12
EZF01601817	16	18	17
EZF01802012	18	20	12
EZF01802017	18	20	17
EZF01802022	18	20	22
EZF02002311.5	20	23	11.5
EZF02002315	20	23	15
EZF02002316.5	20	23	16.5
EZF02002321.5	20	23	21.5
EZF02202521.5	22	25	21.5
EZF02202525	22	25	25
EZF02502811.5	25	28	11.5
EZF02502816.5	25	28	16.5
EZF02502821.5	25	28	21.5
EZF03003426	30	34	26
EZFB03303825.4	33	38	25.4
EZFB034.6038382	34.6	38	38.2
EZF03503926	35	39	26
EZF04004420	40	44	20
EZF04004422	40	44	22
EZFB10010590	100	105	90

BOUNDRY-LUBRICATING BUSHING

EZI-GLIDE -- (SF2)

RETROFIT FOR "GLACIER" - DX "BUSH" AND SIMILAR



A GREASED BUSH OFTEN FOUND ON EARTHMOVING EQUIPMENT AND AUTOMOTIVE STEERING JOINTS

LINING ---------- ACETAL

BACKING --------- STEEL

METRIC

PART #	ID	OD	LENGTH
EZX01001210	10	12	10
EZX01401716	14	17	16
EZX01401820	14	18	20
EZX01501725	15	17	25
EZX02002310	20	23	10
EZX02002315	20	23	15
EZX02002320	20	23	20
EZX02002325	20	23	25
EZX02002425	20	24	25
EZX02202515	22	25	15
EZX02202520	22	25	20
EZX02502820	25	28	20
EZX02502824	25	28	24
EZX02502825	25	28	25
EZX02502830	25	28	30
EZX02503022	25	30	22
EZX03003416	30	34	16
EZX03003424	30	34	24
EZX03003430	30	34	30
EZX03003440	30	34	40
EZX03503916	35	39	16
EZX03503920	35	39	20
EZX03503930	35	39	30
EZX03503940	35	39	40
EZX03503950	35	39	50
EZX04004420	40	44	20

PART #	ID	OD	LENGTH
EZX04004430	40	44	30
EZX04004440	40	44	40
EZX04004450	40	44	50
EZX04004516	40	45	16
EZX04004540	40	45	40
EZX04504967	45	49	67
EZX04505030	45	50	30
EZX04505040	45	50	40
EZX04505050	45	50	50
EZX04505060	45	50	60
EZX05005525	50	55	25
EZX05005530	50	55	30
EZX05005540	50	55	40
EZX05005550	50	55	50
EZX05005560	50	55	60
EZX05005570	50	55	70
EZX05005575	50	55	75
EZX05506030	55	60	30
EZX05506040	55	60	40
EZX05506050	55	60	50
EZX05506070	55	60	70
EZX05506075	55	60	75
EZX06006513	60	65	13
EZX06006540	60	65	40
EZX06006545	60	65	45
EZX06006550	60	65	50
EZX06006560	60	65	60
EZX06006570	60	65	70
EZX06507040	65	70	40
EZX06507050	65	70	50

BOUNDRY-LUBRICATING BUSHING

EZI-GLIDE -- (SF2)

RETROFIT FOR "GLACIER" - DX "BUSH" AND SIMILAR



A GREASED BUSH OFTEN FOUND ON EARTHMOVING EQUIPMENT AND AUTOMOTIVE STEERING JOINTS

LINING ---------- ACETAL

BACKING --------- STEEL

PART #	ID	OD	LENGTH
EZX07007515	70	75	15
EZX07007535	70	75	35
EZX07007540	70	75	40
EZX07007550	70	75	50
EZX07007560	70	75	60
EZX07007580	70	75	80
EZX07508060	75	80	60
EZX08008540	80	85	40
EZX08008550	80	85	50
EZX08008560	80	85	60
EZX08008570	80	85	70
EZX08008580	80	85	80
EZX08008585	80	85	85
EZX080085100	80	85	100
EZX09009540	90	95	40
EZX09009560	90	95	60
EZX09009580	90	95	80
EZX090095100	90	95	100
EZX10010560	100	105	60
EZX10010580	100	105	80
EZX100105100	100	105	100
EZX100105115	100	105	115
EZX12012560	120	125	60
EZX13013550	130	135	50
EZX13013560	130	135	60
EZXS20030002	200	300	2
EZXS20030002.5	200	300	2.5
EZXS20030003	200	300	3

PART #	ID	OD	LENGTH
EZX21522070	215	220	70
EZX23524050	235	240	50

IMPERIAL

EZXI050059050	0.5	0.593	0.5
EZXI087100125	0.875	1	1.25
EZXI100112100	1	1.125	1
EZXI100112125	1	1.125	1.25
EZXI100112187	1	1.125	1.875
EZXI100125078	1	1.25	0.785
EZXI100125125	1	1.25	1.25
EZXI100125187	1	1.25	1.875
EZXI125140125	1.25	1.406	1.25
EZXI150165125	1.5	1.656	1.25
EZXI150165150	1.5	1.656	1.5
EZXI175193200	1.75	1.937	2
EZXI200218150	2	2.187	1.5
EZXI250268250	2.5	2.687	2.5
EZXI300318150	3	3.187	1.5

CONTROL BANK SEALS

CB

COMBINED WIPER / SHAFT SEAL

NOMINAL SIZES FOR IDENTIFICATION ONLY

TYPICAL PART # -- CB01202407



STEEL BACKED

RUBBER COVERED

SPRING ENERGISED LIP

ID	OD	WIDTH
12	24	7
18	34.8	7
22	34	6.2
22	40	7
25	37.8	5.5
26	44	6.8
27	38.6	6.5

CONTROL BANK X RINGS (RECTANGULAR QUAD RING)

NITRILE RUBBER

TYPICAL PART # -- XR24.6031.43.6



ID	OD	WIDTH
24.6	31.4	3.6
27.67	35	3.34
31.5	38.3	3.6

CONTROL BANK WIPERS

NYLON / URETHANE

TYPICAL PART # -- CBW028



SEE GOLD SECTION FOR ASSOCIATED seals

ID	OD	HT
14.3	18.6	1.8
16	21.5	1.5
16	20.3	3
16.2	20.3	1.75
19	24.4	3.5
25	30.7	3
28	33.7	3
31	37	2.5

SEE ALSO

THE FOLLOWING TYPES ARE COMMON

WIPER SEAL------ ANY METAL CASED or FLEXIBLE STYLE

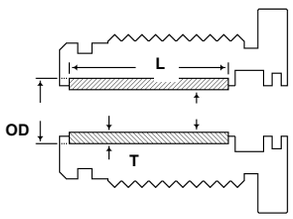
ROD SEAL------- ANY SINGLE ACTING SEAL ---**SA,SM**

------ ANY AIR / LOW PRESSURE ROD SEALS --**SU,UM,DI,DIM**

------ ANY ORING / QUAD RING

IMPERIAL -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

CFP -- CARBON FILLED PTFE
P -- PTFE
BFP -- BRONZE FILLED PTFE
GFN -- GLASS FILLED NYLON
PR -- PHENOLIC RESIN / FABRIC
A -- ACETAL

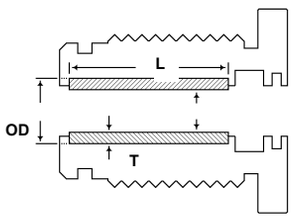
NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

PART #	OD	L	T	MATERIAL
BR0069067033B	0.691	0.67	0.033	BFP
BR0081067033B	0.816	0.67	0.033	BFP
BR0100025093A	1	0.25	0.093	A
BR0100025093P	1	0.25	0.093	PR
BR0100037062P	1	0.375	0.062	PR
BR0100037P	1	0.375	0.125	PR
BR1000325130G	1	3.25	0.13	GFN
BR0108096040B	1.08	0.96	0.04	BFP
BR0112025093P	1.125	0.25	0.093	PR
BR0112037062P	1.125	0.375	0.062	PR
BR0112050062P	1.125	0.5	0.062	PR
BR0125025093P	1.25	0.25	0.093	PR
BR0125037P	1.25	0.375	0.125	PR
BR0125043G	1.25	0.437	0.125	GFN
BR0125050062P	1.25	0.5	0.062	PR
BR0125050G	1.25	0.5	0.125	GFN
BR0125075062P	1.25	0.75	0.062	PR
BR0125100G	1.25	1	0.125	GFN
BR0133112040B	1.33	1.125	0.04	BFP
BR0137025093P	1.375	0.25	0.093	PR
BR0137050062P	1.375	0.5	0.062	PR
BR0137100062P	1.375	1	0.062	PR
BR0137112062A	1.375	1.125	0.062	A
BR0150025089P	1.5	0.25	0.089	PR
BR0150025093P	1.5	0.25	0.093	PR
BR0150025P	1.5	0.25	0.125	PR
BR0150025132P	1.5	0.25	0.132	PR
BR0150031062P	1.5	0.312	0.062	PR
BR0150037062P	1.5	0.375	0.062	PR
BR0150037093A	1.5	0.375	0.093	A
BR0150037093G	1.5	0.375	0.093	GFN
BR0150037093P	1.5	0.375	0.093	PR
BR0150037G	1.5	0.375	0.125	GFN
BR0150050G	1.5	0.5	0.125	GFN
BR0150100093P	1.5	1	0.093	PR

PART #	OD	L	T	MATERIAL
BR0158200040B	1.58	2	0.04	BFP
BR0162037093P	1.625	0.375	0.093	PR
BR0192037G	1.625	0.375	0.125	GFN
BR0162037G	1.625	0.375	0.125	GFN
BR0162050062G	1.625	0.5	0.062	GFN
BR0162050G	1.625	0.5	0.125	GFN
BR0162081062P	1.625	0.812	0.062	PR
BR0162098062P	1.625	0.98	0.062	PR
BR0162100062P	1.625	1	0.062	PR
BR0162125062P	1.625	1.25	0.062	PR
BR0168098062P	1.687	0.98	0.062	PR
BR0175037093A	1.75	0.375	0.093	A
BR0175037093P	1.75	0.375	0.093	PR
BR0175037G	1.75	0.375	0.125	GFN
BR0175037P	1.75	0.375	0.125	PR
BR0175050G	1.75	0.5	0.125	GFN
BR0175050P	1.75	0.5	0.125	PR
BR0175075G	1.75	0.75	0.125	GFN
BR0185200050B	1.85	2	0.5	BFP
BR0187037093P	1.875	0.375	0.093	PR
BR0187037G	1.875	0.375	0.125	GFN
BR0187050062P	1.875	0.5	0.062	PR
BR0187050G	1.875	0.5	0.125	GFN
BR0187075062P	1.875	0.75	0.062	PR
BR0187098062P	1.875	0.98	0.062	PR
BR0187100062P	1.875	1	0.062	PR
BR02000205B	2	0.025	0.059	BFP
BR0200018P	2	0.187	0.125	GFN
BR0200025062P	2	0.25	0.062	PR
BR0200025089P	2	0.25	0.089	PR
BR0200025093P	2	0.25	0.093	PR
BR0200025G	2	0.25	0.125	GFN
BR0200025P	2	0.25	0.125	PR
BR0200031062P	2	0.312	0.062	PR
BR0200031G	2	0.312	0.125	GFN
BR0200036062P	2	0.36	0.062	PR
BR0200037093A	2	0.375	0.093	A

IMPERIAL -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

CFP -- CARBON FILLED PTFE
P -- PTFE
BFP -- BRONZE FILLED PTFE
GFN -- GLASS FILLED NYLON
PR -- PHENOLIC RESIN / FABRIC
A -- ACETAL

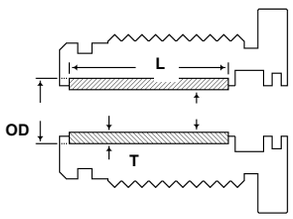
NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

PART #	OD	L	T	MATERIAL
BR0200037093G	2	0.375	0.093	GFN
BR0200037093P	2	0.375	0.093	PR
BR0200037G	2	0.375	0.125	GFN
BR0200050G	2	0.5	0.125	GFN
BR0200050P	2	0.5	0.125	PR
BR0200062G	2	0.625	0.125	GFN
BR0200062P	2	0.625	0.125	PR
BR0200072062P	2	0.72	0.062	PR
BR0200075062P	2	0.75	0.062	PR
BR0200075093P	2	0.75	0.093	PR
BR0200075G	2	0.75	0.125	GFN
BR0200075P	2	0.75	0.125	PR
BR0200087P	2	0.875	0.125	PR
BR0200098062P	2	0.98	0.062	PR
BR0200100062P	2	1	0.062	PR
BR0200100P	2	1	0.125	PR
BR0200150SF	2	1.5	0.125	PR
BR0212098060G	2.12	0.984	0.06	GFN
BR0212075062P	2.125	0.75	0.062	PR
BR0212098062P	2.125	0.98	0.062	PR
BR0212098125P	2.125	0.98	0.125	PR
BR0212100062P	2.125	1	0.062	PR
BR0212125062P	2.125	1.25	0.062	PR
BR0212150062P	2.125	1.5	0.062	PR
BR0225013132P	2.25	0.132	0.132	PR
BR0225025G	2.25	0.25	0.125	GFN
BR0225025P	2.25	0.25	0.125	PR
BR0225037093A	2.25	0.375	0.093	A
BR0225037093P	2.25	0.375	0.093	PR
BR0225037G	2.25	0.375	0.125	GFN
BR0225050G	2.25	0.5	0.125	GFN
BR0225062G	2.25	0.625	0.125	GFN
BR0225075G	2.25	0.75	0.125	GFN
BR0225075P	2.25	0.75	0.125	PR
BR0225087P	2.25	0.875	0.125	PR
BR0225100062P	2.25	1	0.062	PR
BR0225100G	2.25	1	0.125	GFN
BR0225100P	2.25	1	0.125	PR
BR0235200050A	2.35	2	0.5	A

PART #	OD	L	T	MATERIAL
BR0237037093P	2.375	0.375	0.093	PR
BR0237098062P	2.375	0.98	0.062	PR
BR0237100062P	2.375	1	0.062	PR
BR0237100P	2.375	1	0.125	PR
BR0237118062P	2.375	1.187	0.062	PR
BR0237146062P	2.375	1.465	0.062	PR
BR0237150062P	2.375	1.5	0.062	PR
BR0250018062P	2.5	0.187	0.062	PR
BR0250018P	2.5	0.187	0.125	PR
BR0250025089P	2.5	0.25	0.089	PR
BR0250025G	2.5	0.25	0.125	GFN
BR0250025P	2.5	0.25	0.125	PR
BR0250031062P	2.5	0.312	0.062	PR
BR0250031P	2.5	0.312	0.125	PR
BR0250037093A	2.5	0.375	0.093	A
BR0250037093G	2.5	0.375	0.093	GFN
BR0250037093P	2.5	0.375	0.093	PR
BR0250037G	2.5	0.375	0.125	GFN
BR0250050062P	2.5	0.5	0.062	PR
BR0250050G	2.5	0.5	0.125	GFN
BR0250062G	2.5	0.625	0.25	GFN
BR0250075G	2.5	0.75	0.125	GFN
BR0250087P	2.5	0.875	0.125	PR
BR0250100G	2.5	1	0.125	GFN
BR0250125062G	2.5	1.25	0.062	GFN
BR0250126062P	2.5	1.26	0.062	PR
BR0250150P	2.5	1.5	0.125	PR
BR0262050062P	2.625	0.5	0.062	PR
BR0262098060G	2.625	0.98	0.06	GFN
BR0262098062P	2.625	0.99	0.062	PR
BR0262100062P	2.625	1	0.062	PR
BR0262100G	2.625	1	0.125	GFN
BR0262146062P	2.625	1.093	0.062	PR
BR0262124062P	2.625	1.235	0.062	PR
BR0262125060G	2.625	1.25	0.06	GFN
BR0262125062P	2.625	1.25	0.062	PR
BR0262126062P	2.625	1.26	0.062	PR
BR0262140062P	2.625	1.406	0.062	PR
BR0262150062P	2.625	1.5	0.625	PR
BR0262156062P	2.625	1.562	0.062	PR
BR0262168062P	2.625	1.687	0.062	PR

IMPERIAL -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

CFP -- CARBON FILLED PTFE
P -- PTFE
BFP -- BRONZE FILLED PTFE
GFN -- GLASS FILLED NYLON
PR -- PHENOLIC RESIN / FABRIC
A -- ACETAL

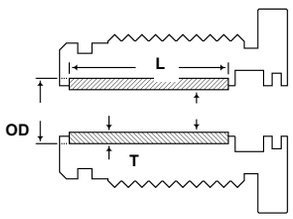
NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

PART #	OD	L	T	MATERIAL
BR0262169060G	2.625	1.69	0.06	GFN
BR0262169060P	2.625	1.69	0.06	PR
BR0275025G	2.75	0.25	0.125	GFN
BR0275037093P	2.75	0.375	0.093	PR
BR0275037G	2.75	0.375	0.125	GFN
BR0275037QMN	2.75	0.375	0.125	GFN
BR0275050G	2.75	0.5	0.125	GFN
BR0275050P	2.75	0.5	0.125	PR
BR0275062G	2.75	0.625	0.125	GFN
BR0275062P	2.75	0.625	0.125	PR
BR0275075G	2.75	0.75	0.125	GFN
BR0275075P	2.75	0.75	0.125	PR
BR0275093P	2.75	0.937	0.125	PR
BR0275100G	2.75	1	0.125	GFN
BR0275100P	2.75	1	0.125	PR
BR0275125G	2.75	1.25	0.125	GFN
BR0275125P	2.75	1.25	0.125	PR
BR0275150P	2.75	1.5	0.125	PR
BR0275200P	2.75	2	0.125	PR
BR0287087P	2.875	0.875	0.125	PR
BR0287100060G	2.875	1	0.06	GFN
BR0287100062P	2.875	1	0.062	PR
BR0287150062P	2.875	1.5	0.062	PR
BR0287179062P	2.875	1.79	0.062	PR
BR0287181062P	2.875	1.812	0.062	PR
BR0300018062P	3	0.187	0.062	PR
BR0300025113P	3	0.25	0.113	PR
BR0300025G	3	0.25	0.125	GFN
BR0300031G	3	0.312	0.125	GFN
BR0300037093A	3	0.375	0.093	A
BR0300037093G	3	0.375	0.093	GFN
BR0300037G	3	0.375	0.125	GFN
BR0300037156A	3	0.375	0.156	A
BR0300050G	3	0.5	0.125	GFN
BR0300062G	3	0.625	0.125	GFN
BR0300075G	3	0.75	0.125	GFN
BR0300100100G	3	1	0.101	GFN
BR0300100G	3	1	0.125	GFN
BR0300100P	3	1	0.125	PR
BR0300100130G	3	1	0.13	GFN

PART #	OD	L	T	MATERIAL
BR0312050090P	3.125	0.5	0.09	PR
BR0312050G	3.125	0.5	0.125	GFN
BR0312050P	3.125	0.5	0.125	PR
BR0312050187P	3.125	0.5	0.187	PR
BR0312098062P	3.125	0.972	0.062	PR
BR0312098060G	3.125	0.984	0.06	GFN
BR0312100062G	3.125	1	0.062	GFN
BR0312100062P	3.125	1	0.062	PR
BR0312100187P	3.125	1	0.187	PR
BR0312140062P	3.125	1.235	0.062	PR
BR0312125062G	3.125	1.25	0.062	GFN
BR0312125062P	3.125	1.25	0.062	PR
BR0312126060G	3.125	1.26	0.06	GFN
BR0312149062P	3.125	1.49	0.062	GFN
BR0312150062G	3.125	1.5	0.062	GFN
BR0312150062P	3.125	1.5	0.062	PR
BR0312156062P	3.125	1.562	0.062	PR
BR0312165060G	3.125	1.65	0.06	GFN
BR0312165062P	3.125	1.652	0.062	PR
BR0317150089A	3.177	1.5	0.089	A
BR0325025G	3.25	0.25	0.125	GFN
BR0325031062P	3.25	0.312	0.062	PR
BR0325031G	3.25	0.312	0.125	GFN
BR0325037B	3.25	0.375	0.059	BFP
BR0325037093A	3.25	0.375	0.093	A
BR0325037093P	3.25	0.375	0.093	PR
BR0325037G	3.25	0.375	0.125	GFN
BR0325037QMN	3.25	0.375	0.125	GFN
BR0325037P	3.25	0.375	0.125	PR
BR0325050062P	3.25	0.5	0.062	PR
BR0325050G	3.25	0.5	0.125	GFN
BR0325062G	3.25	0.625	0.125	GFN
BR0325075G	3.25	0.75	0.125	GFN
BR0325075P	3.25	0.75	0.125	PR
BR0325075130G	3.25	0.75	0.13	GFN
BR0325100062P	3.25	1	0.062	PR
BR0325100G	3.25	1	0.125	GFN
BR0325112P	3.25	1.125	0.125	PR
BR0325150G	3.25	1.5	0.125	GFN
BR0325150P	3.25	1.5	0.125	PR

IMPERIAL -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

CFP -- CARBON FILLED PTFE
P -- PTFE
BFP -- BRONZE FILLED PTFE
GFN -- GLASS FILLED NYLON
PR -- PHENOLIC RESIN / FABRIC
A -- ACETAL

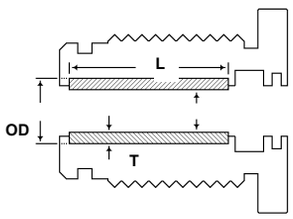
NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

PART #	OD	L	T	MATERIAL
BR0325200P	3.25	2	0.125	PR
BR1003325145G	3.25	10.03	0.145	GFN
BR0337105062P	3.375	1.05	0.062	PR
BR0337174062P	3.375	1.74	0.062	PR
BR0337187062P	3.375	1.875	0.062	PR
BR0343162093P	3.437	1.625	0.093	PR
BR0343196093P	3.437	1.968	0.093	PR
BR0343200093P	3.437	2	0.093	PR
BR0343275093P	3.437	2.75	0.093	PR
BR0344119098P	3.446	1.196	0.098	PR
BR0344119196P	3.446	1.196	0.196	PR
BR0344274196P	3.446	2.744	0.196	PR
BR0345197100G	3.45	1.97	1	GFN
BR0345276100G	3.45	2.76	1	GFN
BR0350025113P	3.5	0.25	0.113	PR
BR0350025G	3.5	0.25	0.125	GFN
BR0350031G	3.5	0.312	0.125	GFN
BR0350037093G	3.5	0.375	0.093	GFN
BR0350037093P	3.5	0.375	0.093	PR
BR0350037G	3.5	0.375	0.125	GFN
BR0350050G	3.5	0.5	0.125	GFN
BR0350056G	3.5	0.562	0.125	GFN
BR0350056P	3.5	0.562	0.125	PR
BR0350062G	3.5	0.625	0.125	GFN
BR0350075G	3.5	0.75	0.125	GFN
BR0350100G	3.5	1	0.125	GFN
BR0350100P	3.5	1	0.125	PR
BR0350112130G	3.5	1.11	0.125	GFN
BR0350112P	3.5	1.125	0.125	PR
BR0350150P	3.5	1.5	0.125	GFN
BR0362050P	3.625	0.5	0.9	PR
BR0362075P	3.625	0.75	0.125	PR
BR0362100P	3.625	1	0.125	PR
BR0362125062P	3.625	1.25	0.062	PR
BR0362150062G	3.625	1.5	0.062	GFN
BR0362150062P	3.625	1.5	0.062	PR
BR0362156062P	3.625	1.562	0.062	PR
BR0362189060G	3.625	1.89	0.06	GFN

PART #	OD	L	T	MATERIAL
BR0362237093P	3.625	2.375	0.093	PR
BR0368087093P	3.687	0.875	0.093	PR
BR03691870098	3.696	1.87	0.094	PR
BR03692360094	3.696	2.36	0.094	PR
BR0370188100G	3.7	1.88	0.1	GFN
BR0370236100G	3.7	2.36	1	GFN
BR0375025G	3.75	0.25	0.125	GFN
BR0375025P	3.75	0.25	0.125	PR
BR0375037G	3.75	0.375	0.125	GFN
BR0375050G	3.75	0.5	0.125	GFN
BR0375062G	3.75	0.625	0.125	GFN
BR0375075G	3.75	0.75	0.125	GFN
BR0375100G	3.75	1	0.125	GFN
BR0375100P	3.75	1	0.125	PR
BR0375123P	3.75	1.235	0.125	PR
BR0375150G	3.75	1.5	0.125	GFN
BR0375150P	3.75	1.5	0.125	PR
BR0375200P	3.75	2	0.125	PR
BR0376200130G	3.76	2	0.06	GFN
BR0387025G	3.875	0.25	0.125	GFN
BR0387025P	3.875	0.25	0.125	PR
BR0387125187P	3.875	1.25	0.187	PR
BR0387157062P	3.875	1.57	0.062	PR
BR0395244100G	3.95	2.44	1	GFN
BR0400018175A	4	0.187	0.175	A
BR0400025113P	4	0.25	0.113	PR
BR0400025G	4	0.25	0.125	GFN
BR0400031062P	4	0.312	0.062	PR
BR0400031G	4	0.312	0.125	GFN
BR0400031P	4	0.312	0.125	PR
BR0400037B	4	0.375	0.059	BFP
BR0400037G	4	0.375	0.125	GFN
BR0400037P	4	0.375	0.125	PR
BR0400050A	4	0.5	0.125	A
BR0400050G	4	0.5	0.125	GFN
BR0400062G	4	0.625	0.125	GFN

IMPERIAL -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

CFP -- CARBON FILLED PTFE
P -- PTFE
BFP -- BRONZE FILLED PTFE
GFN -- GLASS FILLED NYLON
PR -- PHENOLIC RESIN / FABRIC
A -- ACETAL

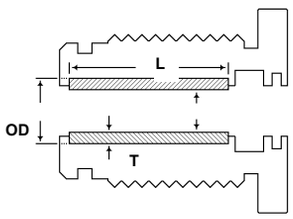
NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

PART #	OD	L	T	MATERIAL
BR0400068G	4	0.687	0.125	GFN
BR0400068P	4	0.687	0.125	PR
BR0400075G	4	0.75	0.125	GFN
BR0400087P	4	0.875	0.125	PR
BR0400100G	4	1	0.125	GFN
BR0400100130A	4	1	0.13	A
BR0400100130G	4	1	0.13	GFN
BR0400125P	4	1.25	0.125	PR
BR0400125130G	4	1.25	0.13	GFN
BR0400150G	4	1.5	0.125	GFN
BR0400150P	4	1.5	0.125	PR
BR0400156093P	4	1.562	0.093	PR
BR0400156P	4	1.625	0.125	GFN
BR0418156093P	4.187	1.562	0.093	PR
BR0418256093P	4.187	2.562	0.093	PR
BR0420157100G	4.2	1.575	0.1	GFN
BR04202545010	4.2	2.545	0.01	GFN
BR0425025G	4.25	0.25	0.125	GFN
BR0425025P	4.25	0.25	0.125	PR
BR0425031G	4.25	0.312	0.125	GFN
BR0425037G	4.25	0.375	0.125	GFN
BR0425050G	4.25	0.5	0.125	GFN
BR0425062G	4.25	0.625	0.125	GFN
BR0425075G	4.25	0.75	0.125	GFN
BR0425100G	4.25	1	0.125	GFN
BR0425125P	4.25	1.25	0.125	PR
BR0425125130P	4.25	1.25	0.13	PR
BR0425150G	4.25	1.5	0.125	GFN
BR0425150P	4.25	1.5	0.125	PR
BR0425156093P	4.25	1.562	0.093	PR
BR0425188125P	4.25	1.88	0.125	GFN
BR0425189128G	4.25	1.89	0.13	GFN
BR0431075A	4.312	0.75	0.125	A
BR0445236100G	4.43	2.362	1	GFN
BR0443237093P	4.437	2.375	0.093	PR
BR0450025P	4.5	0.25	0.125	PR
BR0450031G	4.5	0.312	0.125	GFN

PART #	OD	L	T	MATERIAL
BR0450037G	4.5	0.375	0.125	GFN
BR0450037P	4.5	0.375	0.125	PR
BR0450050G	4.5	0.5	0.125	GFN
BR0450050P	4.5	0.5	0.125	PR
BR0450062G	4.5	0.625	0.125	GFN
BR0450062P	4.5	0.625	0.125	PR
BR0450075G/1	4.5	0.75	0.125	GFN
BR0450075G	4.5	0.75	0.125	GFN
BR0450075P	4.5	0.75	0.125	PR
BR0450087G	4.5	0.875	0.125	GFN
BR0450093P	4.5	0.921	0.125	PR
BR0450100G	4.5	1	0.125	GFN
BR0450100130G	4.5	1	0.13	GFN
BR0450100187P	4.5	1	0.187	PR
BR0450147P	4.5	1.475	0.125	PR
BR0450150G	4.5	1.5	0.125	GFN
BR0450150P	4.5	1.5	0.125	PR
BR0470197100G	4.7	1.97	0.1	GFN
BR0475025P	4.75	0.25	0.125	PR
BR0475031P	4.75	0.312	0.125	GFN
BR0475037G	4.75	0.375	0.125	GFN
BR0475037P	4.75	0.375	0.125	PR
BR0475050G	4.75	0.5	0.125	GFN
BR0475075G	4.75	0.75	0.125	GFN
BR0475100G	4.75	1	0.125	GFN
BR0475123P	4.75	1.235	0.125	PR
BR0475125G	4.75	1.25	0.125	GFN
BR0475125P	4.75	1.25	0.125	PR
BR0475150G	4.75	1.5	0.125	GFN
BR0475150P	4.75	1.5	0.125	PR
BR0475164130G	4.75	1.64	0.13	GFN
BR0493196G	4.937	1.696	0.093	GFN
BR0493196P	4.937	1.968	0.093	PR
BR0500018175A	5	0.187	0.175	A
BR0500025P	5	0.25	0.125	PR
BR0500031P	5	0.312	0.125	PR
BR0500037G	5	0.375	0.125	GFN
BR0500037144P	5	0.375	0.144	PR
BR0500043062P	5	0.437	0.062	PR

IMPERIAL -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

CFP -- CARBON FILLED PTFE
P -- PTFE
BFP -- BRONZE FILLED PTFE
GFN -- GLASS FILLED NYLON
PR -- PHENOLIC RESIN / FABRIC
A -- ACETAL

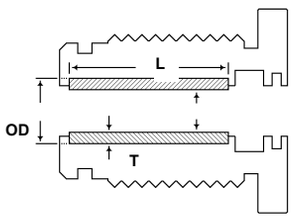
NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

PART #	OD	L	T	MATERIAL
BR0500050G	5	0.5	0.125	GFN
BR0500050P	5	0.5	0.125	PR
BR0500056P	5	0.562	0.125	PR
BR0500062G	5	0.625	0.125	GFN
BR0500062P	5	0.625	0.125	PR
BR0500075G	5	0.75	0.125	GFN
BR0500100G	5	1	0.125	GFN
BR05001105125	5	1.105	0.125	PR
BR0500112P	5	1.125	0.125	PR
BR0500112130G	5	1.125	0.13	GFN
BR0500125P	5	1.25	0.125	PR
BR0500150G	5	1.5	0.125	GFN
BR0500154125P	5	1.545	0.125	PR
BR0500156P	5	1.562	0.125	PR
BR0500156130G	5	1.562	0.13	GFN
BR0500175P	5	1.75	0.125	PR
BR0520252100G	5.2	2.52	0.1	GFN
BR0525031P	5.25	0.312	0.125	GFN
BR0525050G	5.25	0.5	0.125	GFN
BR0525050187P	5.25	0.5	0.187	PR
BR0525075G	5.25	0.75	0.125	GFN
BR0525075P	5.25	0.75	0.125	PR
BR0525100G	5.25	1	0.125	GFN
BR0525100P	5.25	1	0.125	PR
BR0525102125G	5.25	1.025	0.125	GFN
BR0525150G	5.25	1.5	0.125	GFN
BR0525150P	5.25	1.5	0.125	PR
BR0525362130G	5.25	3.625	0.13	GFN
BR0550031P	5.5	0.315	0.125	PR
BR0550037G	5.5	0.375	0.125	GFN
BR0550050A	5.5	0.5	0.125	A
BR0550050G	5.5	0.5	0.125	GFN
BR0550062G	5.5	0.625	0.125	GFN
BR0550075G	5.5	0.75	0.125	GFN
BR0550087187P	5.5	0.875	0.187	PR
BR0550100G	5.5	1	0.125	GFN
BR0550100187P	5.5	1	0.187	PR
BR0550125G	5.5	1.25	0.125	GFN
BR0550125P	5.5	1.25	0.125	PR
BR0550125130G	5.5	1.25	0.13	GFN

PART #	OD	L	T	MATERIAL
BR0550150P	5.5	1.5	0.125	PR
BR0550175P	5.5	1.75	0.125	PR
BR0575050G	5.75	0.5	0.125	GFN
BR0575050P	5.75	0.5	0.125	PR
BR0575075G	5.75	0.75	0.125	GFN
BR0575075P	5.75	0.75	0.125	PR
BR0575100G	5.75	1	0.125	GFN
BR0575150G	5.75	1.5	0.125	GFN
BR0575150P	5.75	1.5	0.125	PR
BR0575165130G	5.75	1.65	0.13	GFN
BR0575175P	5.75	1.75	0.125	PR
BR0575200130G	5.75	2	0.125	GFN
BR0575200P	5.75	2	0.125	PR
BR0575237130G	5.75	2.375	0.13	GFN
BR0593362093P	5.937	3.625	0.093	PR
BR0600018175A	6	0.187	0.175	A
BR0600037P	6	0.375	0.125	PR
BR0600037G	6	0.375	0.125	PR
BR0600043062P	6	0.437	0.062	PR
BR0600050A	6	0.5	0.125	A
BR0600050G	6	0.5	0.125	GFN
BR0600050P	6	0.5	0.125	GFN
BR0600062G	6	0.625	0.125	GFN
BR0600075G	6	0.75	0.125	GFN
BR0600100G	6	1	0.125	GFN
BR0600100P	6	1	0.125	PR
BR0600107130G	6	1.062	0.125	GFN
BR0600124P	6	1.24	0.125	PR
BR0600125P	6	1.25	0.125	PR
BR0600125130G	6	1.25	0.13	GFN
BR0600131P	6	1.312	0.125	PR
BR0600132130G	6	1.32	0.13	GFN
BR0600150G	6	1.5	0.125	GFN
BR0600150P	6	1.5	0.125	PR
BR0600150130G	6	1.5	0.13	GFN
BR0600175G	6	1.75	0.125	GFN
BR0600175P	6	1.75	0.125	PR
BR620196100G	6.2	1.96	1	GFN
BR0620196100G	6.2	1.96	1	GFN

IMPERIAL -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

CFP -- CARBON FILLED PTFE
P -- PTFE
BFP -- BRONZE FILLED PTFE
GFN -- GLASS FILLED NYLON
PR -- PHENOLIC RESIN / FABRIC
A -- ACETAL

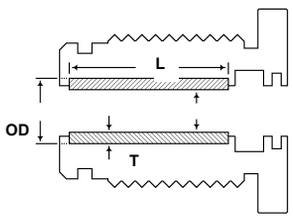
NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

PART #	OD	L	T	MATERIAL
BR0625050G	6.25	0.5	0.125	GFN
BR0625062P	6.25	0.625	0.125	PR
BR0625075G	6.25	0.75	0.125	GFN
BR0625075P	6.25	0.75	0.125	PR
BR0625100G	6.25	1	0.125	GFN
BR0625150G	6.25	1.5	0.125	GFN
BR0625150P	6.25	1.5	0.125	PR
BR0625150130G	6.25	1.5	0.13	GFN
BR0625150130P	6.25	1.5	0.13	PR
BR0625175P	6.25	1.75	0.125	PR
BR0625175130G	6.25	1.75	0.13	GFN
BR0650050G	6.5	0.5	0.125	GFN
BR0650050P	6.5	0.5	0.125	PR
BR0650062G	6.5	0.625	0.125	GFN
BR0650062P	6.5	0.625	0.125	PR
BR0650075G	6.5	0.75	0.125	GFN
BR0650100G	6.5	1	0.125	GFN
BR0650100P	6.5	1	0.125	PR
BR0650100187P	6.5	1	0.187	PR
BR0650148P	6.5	1.48	0.125	GFN
BR0650150G	6.5	1.5	0.125	GFN
BR0650150P	6.5	1.5	0.125	PR
BR0650150187P	6.5	1.5	0.187	PR
BR0650175P	6.5	1.75	0.125	PR
BR0650350130G	6.5	3.5	0.13	GFN
BR0650025250P	6.6	0.25	0.25	PR
BR0675100G	6.75	1	0.125	GFN
BR0675150G	6.75	1.5	0.125	GFN
BR0675150P	6.75	1.5	0.125	PR
BR0600037144P	7	0.375	0.144	PR
BR0700050G	7	0.5	0.125	GFN
BR0700062G	7	0.625	0.125	GFN
BR0700068P	7	0.687	0.125	PR
BR0700075G	7	0.75	0.125	GFN
BR0700075P	7	0.75	0.125	PR
BR0700075187P	7	0.75	0.187	PR
BR0700100G	7	1	0.125	GFN
BR0700125P	7	1.25	0.125	PR
BR0700150G	7	1.5	0.125	GFN

PART #	OD	L	T	MATERIAL
BR0700150P	7	1.5	0.125	PR
BR0700150130G	7	1.5	0.13	GFN
BR0700150187P	7	1.5	0.187	PR
BR0700175G	7	1.75	0.125	GFN
BR0700175P	7	1.75	0.125	PR
BR0700200G	7	2	0.125	GFN
BR0700200P	7	2	0.125	PR
BR0700312G	7	3.125	0.125	GFN
BR0700312130G	7	3.125	0.125	GFN
BR0700312P	7	3.125	0.125	PR
BR0703175145G	7.03	1.75	0.145	GFN
BR0720315100G	7.2	3.15	0.1	GFN
BR0725020175A	7.25	0.187	0.2	A
BR0725050G	7.25	0.5	0.125	GFN
BR0725075A	7.25	0.75	0.125	A
BR0725125G	7.25	1.25	0.125	GFN
BR0725137P	7.25	1.375	0.125	PR
BR0725139125P	7.25	1.39	0.125	PR
BR0725175P	7.25	1.75	0.125	PR
BR0725200P	7.25	2	0.125	PR
BR0725306187P	7.25	3.06	0.187	PR
BR0737737187G	7.37	7.37	0.187	GFN
BR0737159187G	7.375	1.59	0.187	GFN
BR0750050G	7.5	0.5	0.125	GFN
BR0750062P	7.5	0.625	0.125	PR
BR0750075G	7.5	0.75	0.125	GFN
BR0750100G	7.5	1	0.125	GFN
BR0750150P	7.5	1.5	0.125	PR
BR0775150P	7.75	1.5	0.125	PR
BR0775200130G	7.75	2	0.13	GFN
BR0800050062P	8	0.5	0.062	PR
BR0800050G	8	0.5	0.125	GFN
BR0800050P	8	0.5	0.125	PR
BR0800050187A	8	0.5	0.187	A
BR0800050250A	8	0.5	0.25	A
BR0800075P	8	0.75	0.125	PR

IMPERIAL -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



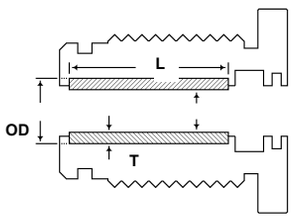
MATERIAL CODES

CFP -- CARBON FILLED PTFE
P -- PTFE
BFP -- BRONZE FILLED PTFE
GFN -- GLASS FILLED NYLON
PR -- PHENOLIC RESIN / FABRIC
A -- ACETAL

NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

PART #	OD	L	T	MATERIAL
BR0800100G	8	1	0.125	GFN
BR0800100P	8	1	0.125	PR
BR0800100187P	8	1	0.187	PR
BR0800150G	8	1.5	0.125	GFN
BR0800150P	8	1.5	0.125	PR
BR0800150187P	8	1.5	0.187	PR
BR0800500130G	8	5	0.13	GFN
BR0825100G	8.25	1	0.125	GFN
BR0825125P	8.25	1.25	0.125	PR
BR0825150P	8.25	1.5	0.125	PR
BR0825150130G	8.25	1.5	0.13	GFN
BR0825150130P	8.25	1.5	0.13	PR
BR0825175G	8.25	1.75	0.125	GFN
BR0825175P	8.25	1.75	0.125	PR
BR0825200187P	8.25	2	0.187	PR
BR0825200190G	8.25	2	0.19	GFN
BR0825212G	8.25	2.125	0.125	GFN
BR0825212130G	8.25	2.125	0.13	GFN
BR0825225P	8.25	2.25	0.125	PR
BR0825400187P	8.25	4	0.187	PR
BR0825412130G	8.25	4.125	0.13	GFN
BR0850050G	8.5	0.5	0.125	GFN
BR0850062G	8.5	0.625	0.125	GFN
BR0850062P	8.5	0.625	0.125	PR
BR0850075P	8.5	0.75	0.125	PR
BR0850100G	8.5	1	0.125	GFN
BR0850100187P	8.5	1	0.187	PR
BR0850237130G	8.5	2.375	0.13	GFN
BR0850300130G	8.5	3	0.13	GFN
BR0850400187P	8.5	4	0.187	PR
BR0875100P	8.75	1	0.125	GFN
BR0875150P	8.75	1.5	0.125	PR
BR0900050187G	9	0.5	0.187	GFN
BR0900050187P	9	0.5	0.187	PR
BR0900100G	9	1	0.125	GFN
BR0900150A	9	1.5	0.125	A
BR0900200P	9	2	0.125	PR
BR0925100G	9.25	1	0.125	GFN
BR0925174G	9.25	1.741	0.125	GFN
BR0925174P	9.25	1.741	0.125	PR
BR0925175P	9.25	1.75	0.125	PR
BR0925175130G	9.25	1.75	0.13	GFN
BR0925225P	9.25	2.25	0.125	PR
BR0925225130G	9.25	2.25	0.13	GFN
BR0925225130P	9.25	2.25	0.13	PR
BR0950050G	9.5	0.5	0.125	GFN
BR0950050P	9.5	0.5	0.125	PR
BR0950062G	9.5	0.625	0.125	GFN
BR0950062P	9.5	0.625	0.125	PR
BR0950075G	9.5	0.75	0.125	GFN
BR0950075P	9.5	0.75	0.125	PR
BR0950100G	9.5	1	0.125	GFN
BR0950100P	9.5	1	0.125	PR
BR0950150G	9.5	1.5	0.125	GFN
BR0950150P	9.5	1.5	0.125	PR
BR0950200G	9.5	2	0.125	GFN
BR0950200P	9.5	2	0.125	PR
BR1000050187G	10	0.5	0.187	GFN
BR1000075P	10	0.75	0.125	PR
BR1000100G	10	1	0.125	GFN
BR1000100P	10	1	0.125	PR
BR1000125G	10	1.25	0.125	GFN
BR1000125P	10	1.25	0.125	PR
BR1000150G	10	1.5	0.125	GFN
BR1000200P	10	2	0.125	PR
BR1000276130G	10	2.76	0.13	GFN
BR1025100G	10.25	1	0.125	GFN
BR1037300P	10.375	3	0.187	PR
BR1050050G	10.5	0.5	0.125	GFN
BR1050100G	10.5	1	0.125	GFN
BR1050150G	10.5	1.5	0.125	GFN
BR1050150P	10.5	1.5	0.125	PR
BR1050237130G	10.5	2.375	0.13	GFN
BR1050275P	10.5	2.75	0.125	PR
BR1050275130G	10.5	2.75	0.13	GFN
BR1050275130P	10.5	2.75	0.13	PR
BR1053275145G	10.53	2.75	0.145	GFN

IMPERIAL -- BEARING RING



ROD or PISTON

GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

CFP -- CARBON FILLED PTFE
P -- PTFE
BFP -- BRONZE FILLED PTFE
GFN -- GLASS FILLED NYLON
PR -- PHENOLIC RESIN / FABRIC
A -- ACETAL

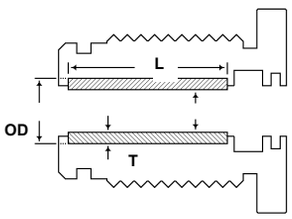
NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

MATERIAL

PART #	OD	L	T	MATERIAL
BR1075200P	10.75	2	0.125	PR
BR1100050G	11	0.5	0.125	GFN
BR1100100G	11	1	0.125	GFN
BR1100100P	11	1	0.125	PR
BR1100150G	11	1.5	0.125	GFN
BR1100325130G	11	3.25	0.13	GFN
BR1137262187G	11.375	2.625	0.187	GFN
BR11371100187	11.375	11	0.187	GFN
BR1153387145G	11.5	3.387	0.145	GFN
BR1150400130G	11.5	4	0.13	GFN
BR1175300P	11.75	3	0.187	PR
BR1200050G	12	0.5	0.125	GFN
BR1200100G	12	1	0.125	GFN
BR1200150P	12	1.5	0.125	PR
BR1250150P	12.5	1.5	0.125	PR
BR1300100G	13	1	0.125	GFN
BR1312787187G	13.125	7.875	0.187	GFN
BR1400100G	14	1	0.125	GFN
BR1600100G	16	1	0.125	GFN

METRIC -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

CFP -- CARBON FILLED PTFE
P -- PTFE
BFP -- BRONZE FILLED PTFE
GFN -- GLASS FILLED NYLON
PR -- PHENOLIC RESIN / FABRIC
A -- ACETAL

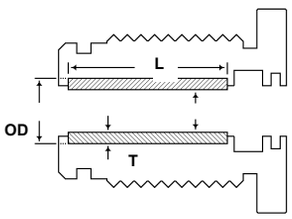
NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

PART #	OD	L	T	MATERIAL
BRM013031.5CP	13	3	1.5	CFP
BRM01612.251P	16	12.25	1	PTFE
BRM017.1CPTF	17.1	1.6	1.1	CFP
BRM017.502.210	17.5	2.2	1.06	GFN
BRM0180081.5	18	8	1.5	A
BRM01904.11.66	19	4.1	1.66	A
BRM019CPTFE	19	5.6	1.5	CFP
BRM020CPTFE	20	1.4	1.82	CFP
BRM02007.52A	20	7.5	2	A
BRM02009.52G	20	9.5	2	GFN
BRM021101.5CP	21	10	1.5	CFP
BRM02303.91.5C	23	3.9	1.5	CFP
BRM02305.62.5P	23	5.6	2.5	PR
BRM02402.2518	24	2.3	1.8	CFP
BRM02407.52A	24	7.5	2	A
BRM024092CPT	24	9	2	CFP
BRM02409.42G	24	9.4	2	GFN
BRM024.55CPTF	24.6	1.8	1.75	CFP
BRM025CPTFE	25	1.4	1.62	CFP
BRM02503.81.5	25	3.8	1.5	GFN
BRM025041.5CP	25	4	1.5	CFP
BRM02505.62.5P	25	5.6	2.5	PR
BRM025082G	25	8	2	GFN
BRM02509.52P	25	9.5	2	PR
BRMP0251204.5	25	12	4.5	A
BRM02603.83G	26	3.8	3	GFN
BRM026092APR	26	9	2	APR
BRM026092CPT	26	9	2	CFP
BRM02609.42G	26	9.4	2	GFN
BRM02609.43P	26	9.4	3	PR
BRM02609.82A	26	9.8	2	A

PART #	OD	L	T	MATERIAL
BRM02705.62.5C	27	5.6	2.5	GFN
BRM02709.52.5C	27	9.5	2.5	CFP
BRM028101.5CP	28	10	1.5	CFP
BRM029062A	29	6	2	A
BRM02909.32.5P	29	9.3	2.5	PR
BRM02909.62G	29	9.6	2	GFN
BRM029102A	29	10	2	A
BRM02919.82P	29	19.8	2	PR
BRM029.8065.4A	29.8	6	5.4	GFN
BRM03002.022.0	30	2.1	2.08	BFP
BRM03005.42.5	30	5.4	2.5	GFN
BRM03005.52.5P	30	5.5	2.5	PR
BRM03008.12P	30	8.1	2	PR
BRM03009.52G	30	9.5	2	GFN
BRM03009.52.5A	30	9.5	2.5	A
BRM03009.72.5P	30	9.7	2.5	PR
BRM03011.42.5C	30	11.4	2.5	CFP
BRMP0301205	30	12	5	A
BRM030.405.625	30.4	5.6	2.5	PR
BRM03109.43G	31	9.4	3	GFN
BRM032031.5A	32	3	1.5	A
BRM03203.91.5C	32	3.9	1.5	CFP
BRM03205.32.5P	32	5.3	2.5	PR
BRM03205.42.5	32	5.4	2.5	GFN
BRM03205.51.5B	32	5.5	1.5	BFP
BRM032062A	32	6	2	A
BRM03208.12P	32	8.1	2	PR
BRM032091.25A	32	9	1.25	A
BRM032091.3A	32	9	1.3	A
BRM032092.5P	32	9	2.5	PR
BRM03209.52A	32	9.5	2	A
BRM03209.52CP	32	9.5	2	CFP
BRM03209.52G	32	9.5	2	GFN
BRM03209.83G	32	9.8	3	GFN
BRM032101.5A	32	10	1.5	A
BRM032101.5CP	32	10	1.5	CFP
BRM032102A	32	10	2	A

METRIC -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

CFP -- CARBON FILLED PTFE
P -- PTFE
BFP -- BRONZE FILLED PTFE
GFN -- GLASS FILLED NYLON
PR -- PHENOLIC RESIN / FABRIC
A -- ACETAL

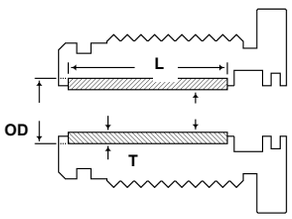
NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

PART #	OD	L	T	MATERIAL
BRM03305.52.5	33	5.5	2.5	GFN
BRM033101.5CP	33	10	1.5	GFN
BRM03409.53G	34	9.5	3	GFN
BRM03409.62G	34	9.6	2	GFN
BRM034101.5CP	34	10	1.5	CFP
BRM034152A	34	15	2	A
BRM03419.82A	34	19.8	2	A
BRM03419.82P	34	19.8	2	PR
BRM034.21.153A	34.2	1.2	3	A
BRM03503.81.5P	35	3.8	1.5	PR
BRM03505.62.5P	35	5.6	2.5	PR
BRM035082.5CP	35	8	2.5	CFP
BRM03508.12P	35	8.1	2	PR
BRM03209.42.5C	35	9.4	2.5	CFP
BRM03509.52CP	35	9.5	2	CFP
BRM03509.52G	35	9.5	2	GFN
BRM03509.53P	35	9.5	3	PR
BRM035CPTFE	35	9.7	2.5	CFP
BRM03509.72.5P	35	9.7	2.5	PR
BRM035101.5CP	35	10	1.5	CFP
BRM035152.5G	35	15	2.5	GFN
BRM03603.81.5	36	3.8	1.5	GFN
BRM03609.33G	36	9.3	3	GFN
BRM03609.52G	36	9.5	2	GFN
BRM03611.22.5	36	11.2	2.5	GFN
BRM03619.72P	36	19.7	2	PR
BRM036202CPT	36	20	2	CFP
BRM036.7505.62	36.8	5.6	2.5	PR
BRM03705.42.5	37	5.4	2.5	GFN
BRM037092.5P	37	9	2.5	PR
BRM03709.72.5P	37	9.7	2.5	PR
BRM037112.5G	37	11	2.5	GFN
BRM037202.5P	37	20	2.5	PR
BRM03809.43G	38	9.4	3	GFN
BRM038103P	38	10	3	PR
BRM03819.53P	38	19.5	3	PR

PART #	OD	L	T	MATERIAL
BRM038203P	38	20	3	PR
BRM03906.32G	39	6.3	2	GFN
BRM039082	39	8	2	.
BRM03909.52G	39	9.5	2	GFN
BRM039101.5CP	39	10	1.5	CFP
BRM039202CPT	39	20	2	CFP
BRM039252P	39	25	2	PR
BRM039.8252.3P	39.8	25	2.3	PR
BRM040022A	40	2	2	A
BRM040031.5A	40	3	1.5	A
BRM040041.5P	40	4	1.5	PR
BRM04005.42.5	40	5.4	2.5	GFN
BRM04005.62.5P	40	5.6	2.5	PR
BRM040062A	40	6	2	A
BRM04006.12.5	40	6.1	2.5	GFN
BRM04008.12P	40	8.1	2	PR
BRM04008.12.5P	40	8.1	2.5	PR
BRM04008.31.3A	40	8.3	1.3	A
BRM04009.52G	40	9.5	2	GFN
BRM04009.52P	40	9.5	2	PR
BRM0409.52PTF	40	9.5	2	PTFE
BRM04009.52.5P	40	9.5	2.5	PR
BRM04009.72.5P	40	9.7	2.5	PR
BRM04009.73G	40	9.7	3	GFN
BRM040101.5A	40	10	1.5	A
BRM040102A	40	10	2	A
BRMP0401205	40	12	5	A
BRM04012.72.5P	40	12.7	2.5	PR
BRM040141.5A	40	14	1.5	A
BRMS040141.5	40	14	1.5	GFN
BRM040152A	40	15	2	A
BRM040152.5G	40	15	2.5	GFN
BRM04019.53P	40	19.5	3	PR
BRM04024.52.5A	40	24.5	2.5	A
BRM04102.52.5A	41	2.5	2.5	A
BRM04105.62.5	41	5.6	2.5	GFN
BRM041062.5AP	41	6	2.5	GFN
BRM04109.43G	41	9.4	3	GFN
BRM04109.502A	41	9.5	2	A

METRIC -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

CFP -- CARBON FILLED PTFE
P -- PTFE
BFP -- BRONZE FILLED PTFE
GFN -- GLASS FILLED NYLON
PR -- PHENOLIC RESIN / FABRIC
A -- ACETAL

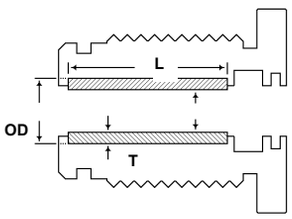
NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

PART #	OD	L	T	MATERIAL
BRM04109.52.5	41	9.5	2.5	GFN
BRM042042G	42	4	2	GFN
BRM420603SF	42	6	3	PR
BRM04209.42A	42	9.4	2	A
BRM04209.42G	42	9.4	2	GFN
BRM04209.63G	42	9.6	3	GFN
BRM04215.52P	42	15.5	2	PR
BRM043.105.62.	43.1	5.6	2.5	PR
BRM04406.32G	44	6.3	2	GFN
BRM044092CPT	44	9	2	CFP
BRM04409.52P	44	9.5	2	PR
BRM04415.22.5	44	15.2	2.5	GFN
BRM044161.5P	44	16	1.5	PR
BRM044202SF	44	20	2	PR
BRM04504.82.5	45	4.8	2.5	GFN
BRM04505.52.5	45	5.5	2.5	GFN
BRM04505.62.5P	45	5.6	2.5	PR
BRM04506.510G	45	6.5	10	GFN
BRM045082.5A	45	8	2.5	A
BRM04509.52G	45	9.5	2	GFN
BRM04509.52.5C	45	9.5	2.5	CFP
BRM04509.62.5	45	9.6	2.5	GFN
BRM04509.72.5P	45	9.7	2.5	PR
BRM04509.83G	45	9.8	3	GFN
BRM045122A	45	12	2	A
BRM045122.5P	45	12	2.5	PR
BRMP0451205	45	12	5	A
BRM04514.53P	45	14.5	3	PR
BRMS045151.5	45	15	1.5	GFN
BRM045152.5G	45	15	2.5	GFN
BRM04515.55A	45	15.5	5	A
BRM045202P	45	20	2	PR
BRM045202.5A	45	20	2.5	A
BRM045202.5P	45	20	2.5	PR
BRM045202.5SF	45	20	2.5	PR
BRM04604.32PT	46	4.3	2	PTFE
BRM04605.42.5	46	5.4	2.5	GFN
BRM04609.53P	46	9.5	3	PR
BRM04609.73G	46	9.7	3	GFN

PART #	OD	L	T	MATERIAL
BRM046102PTF	46	10	2	PTFE
BRM04612.83G	46	12.8	3	GFN
BRM04612.83P	46	12.8	3	PR
BRM046203P	46	20	3	PR
BRM047.206.947	47.2	6.9	4.7	A
BRM048252P	48	25	2	PR
BRM480305SF	48	30	5	PR
BRM04919.82G	49	19.8	2	GFN
BRM050032A	50	3	2	A
BRM050041.5P	50	4	1.5	PR
BRM050042.5CP	50	4	2.5	CFP
BRM050043P	50	4	3	PR
BRM05004.62A	50	4.6	2	A
BRM050051.6CP	50	5	1.6	CFP
BRM05005.62.5	50	5.4	2.5	GFN
BRM050062P	50	6	2	PR
BRM050062.5BP	50	6	2.5	BFP
BRM050082.5P	50	8	2.5	PR
BRM05008.91.3A	50	8.9	1.3	A
BRM05009.52.5A	50	9.5	2.5	A
BRM05009.52.5	50	9.5	2.5	GFN
BRM05009.52.5P	50	9.5	2.5	PR
BRM05009.53G	50	9.5	3	GFN
BRM05009.53.5	50	9.5	3.5	GFN
BRM05009.72.5S	50	9.7	2.5	PR
BRM05009.72.5P	50	9.7	2.5	PR
BRM05009.72.8A	50	9.7	2.8	PR
BRM050101.5A	50	10	1.5	A
BRM050102A	50	10	2	A
BRM05012.53P	50	12.5	3	PR
BRM05014.52.5P	50	14.5	2.5	PR
BRM05014.72P	50	14.7	2	PR
BRMS050151.5	50	15	1.5	GFN
BRM050152G	50	15	2	GFN
BRM050152.5G	50	15	2.5	GFN
BRM050153P	50	15	3	PR
BRMP0501505	50	15	5	A
BRM050192P	50	19	2	PR
BRM050192.5P	50	19	2.5	PR

METRIC -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

CFP -- CARBON FILLED PTFE
P -- PTFE
BFP -- BRONZE FILLED PTFE
GFN -- GLASS FILLED NYLON
PR -- PHENOLIC RESIN / FABRIC
A -- ACETAL

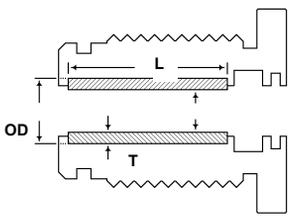
NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

PART #	OD	L	T	MATERIAL
BRM050253P	50	25	3	PR
BRM050.805.625	50.8	5.6	2.5	PR
BRM050.8102P	50.8	10	2	PR
BRM051083A	51	8	3	A
BRM05109.53G	51	9.5	3	GFN
BRM05112.53G	51	12.5	3	GFN
BRM051203A	51	20	3	A
BRM051223P	51	22	3	PR
BRM053104SF	53	10	4	PR
BRM05312.83G	53	12.8	3	GFN
BRM05409.63G	54	9.6	3	GFN
BRM054.8102P	54.8	10	2	PR
BRM055043P	55	4	3	PR
BRM05505.32.5A	55	5.3	2.5	A
BRM055062.5P	55	6	2.5	PR
BRM055063P	55	6	3	PR
BRM055082.5G	55	8	2.5	GFN
BRM055083P	55	8	3	PR
BRM055093P	55	9	3	PR
BRM05509.52.5	55	9.5	2.5	GFN
BRM05509.72.5S	55	9.7	2.5	PR
BRM05509.72.5P	55	9.7	2.5	PR
BRM05509.82A	55	9.8	2	A
BRM05509.82G	55	9.8	2	GFN
BRM05509.83G	55	9.8	3	GFN
BRM05510.22.5P	55	10.2	2.5	PR
BRM055122P	55	12	2	PR
BRM05512.52.5P	55	12.5	2.5	PR
BRM05512.53G	55	12.5	3	GFN
BRM055144P	55	14	4	PR
BRM055152.5G	55	15	2.5	GFN
BRM055152.5SF	55	15	2.5	PR
BRM055152.5P	55	15	2.5	PR
BRMP0551505	55	15	5	A
BRM05515.83P	55	15.8	3	PR
BRMS055162	55	16	2	GFN
BRM055162.5A	55	16	2.5	A
BRM055202.5P	55	20	2.5	PR

PART #	OD	L	T	MATERIAL
BRM055252.5P	55	25	2.5	PR
BRM055.805.625	55.8	5.6	2.5	PR
BRM056083A	56	8	3	A
BRM05609.53P	56	9.5	3	PR
BRM05612.53G	56	12.5	3	GFN
BRM056203A	56	20	3	A
BRM056253SF	56	25	3	PR
BRM056383P	56	38	3	PR
BRM05712.53G	57	12.5	3	GFN
BRM058251.5A	58	25	1.5	A
BRM059252P	59	25	2	PR
BRM059.15CPTF	59.2	2	1.73	CFP
BRM06005.42.5	60	5.4	2.5	GFN
BRM06005.62P	60	5.6	2	PR
BRM060062P	60	6	2	PR
BRM06006.92.5P	60	6.9	2.5	PR
BRM06007.92G	60	7.9	2	GFN
BRM060082.5G	60	8	2.5	GFN
BRM06009.23G	60	9.2	3	GFN
BRM06009.52.5	60	9.5	2.5	GFN
BRM06009.53G	60	9.5	3	GFN
BRM06009.53P	60	9.5	3	PR
BRM06009.62G	60	9.6	2	GFN
BRM06009.72.5P	60	9.7	2.5	PR
BRM060123P	60	12	3	PR
BRM06012.53G	60	12.5	3	GFN
BRM06012.62P	60	12.6	2	PR
BRM06012.72.5P	60	12.7	2.5	PR
BRM06014.53P	60	14.5	3	PR
BRM060152P	60	15	2	PR
BRM060152.5P	60	15	2.5	PR
BRM060154P	60	15	4	PR
BRMP0601505	60	15	5	A
BRM06015.53P	60	15.5	3	PR
BRM06015.83P	60	15.8	3	PR
BRMS060162	60	16	2	GFN
BRM060202.5G	60	20	2.5	GFN

METRIC -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

CFP -- CARBON FILLED PTFE
P -- PTFE
BFP -- BRONZE FILLED PTFE
GFN -- GLASS FILLED NYLON
PR -- PHENOLIC RESIN / FABRIC
A -- ACETAL

NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

MATERIAL

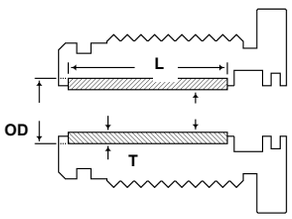
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BRM061083A	61	8	3	A
BRM06109.52.5	61	9.5	2.5	GFN
BRM06109.53G	61	9.5	3	GFN
BRM06109.62.5C	61	9.6	2.5	CFP
BRM06112.22.5P	61	12.2	2.5	PR
BRM06112.53G	61	12.5	3	GFN
BRM06114.52.5	61	14.5	2.5	GFN
BRM061203A	61	20	3	A
BRM061253P	61	25	3	PR
BRM062083A	62	8	3	A
BRM06212.53G	62	12.5	3	GFN
BRM062203A	62	20	3	A
BRM062203G	62	20	3	GFN
BRM063033A	63	3	3	A
BRM063033.7A	63	3	3.7	A
BRM06303.13A	63	3.1	3	A
BRM063042P	63	4	2	PR
BRM06305.62A	63	5.6	2	A
BRM06305.62.5A	63	5.6	2.5	A
BRM06305.62.5P	63	5.6	2.5	PG
BRM06305.62.5P	63	5.6	2.5	PR
BRM063062.5P	63	6	2.5	PR
BRM063081.5A	63	8	1.5	A
BRM063082.5G	63	8	2.5	GFN
BRM06309.52G	63	9.5	2	GFN
BRM06309.53P	63	9.5	3	PR
BRM06309.72.5P	63	9.7	2.5	PR
BRM06309.73G	63	9.7	3	GFN
BRM06309.83G	63	9.8	3	GFN
BRM063101.3A	63	10	1.3	A
BRM063102A	63	10	2	A
BRM06310.22P	63	10.2	2	PR
BRM063111.5P	63	11	1.5	PR
BRM063123P	63	12	3	PR
BRM06312.83P	63	12.8	3	PR
BRM063151.5A	63	15	1.5	A
BRM063152CPT	63	15	2	CFP
BRM063152.5P	63	15	2.5	PR
BRM06315.53P	63	15.5	3	PR
BRMS063172	63	17	2	GFN

MATERIAL

PART #	OD	L	T	MATERIAL
BRM063202.5P	63	20	2.5	PR
BRH057	63	29.5	3	A
BRM063.505.62.	63.5	5.6	2.5	PR
BRM06409.52.5P	64	9.5	2.5	PR
BRM064102G	64	10	2	GFN
BRM06419.32G	64	19.3	2	GFN
BRM06505.42.5	65	5.3	2.5	GFN
BRM065062.5P	65	6	2.5	PR
BRM06507.92.5P	65	7.9	2.5	PR
BRM065083P	65	8	3	PR
BRM06509.52.5A	65	9.5	2.5	A
BRM06509.52.5	65	9.5	2.5	GFN
BRM06509.52.5P	65	9.5	2.5	PR
BRM06509.72.5P	65	9.7	2.5	PR
BRM06510.22P	65	10.2	2	PR
BRM065124P	65	12	4	PR
BRM06512.53G	65	12.5	3	GFN
BRM06512.83	65	12.8	3	A
BRM065152.5G	65	15	2.5	GFN
BRM065153P	65	15	3	PR
BRMP0651505	65	15	5	A
BRMS065172	65	17	2	GFN
BRM065182.5P	65	18	2.5	PR
BRM06519.53P	65	19.5	3	PR
BRM06519.81.5	65	19.8	1.5	GFN
BRM065202.5P	65	20	2.5	PR
BRM065252.5P	65	25	2.5	PR
BRM06531.92.5P	65	31.9	2.5	PR
BRM066083A	66	8	3	A
BRM06609.53G	66	9.5	3	GFN
BRM066121.5P	66	12	1.5	PR
BRM06612.73G	66	12.7	3	GFN
BRH060	66	16	3	A
BRM066203A	66	20	3	A
BRM06706.32G	67	6.3	2	GFN
BRM06809.72.5P	68	9.7	2.5	PR
BRM06814.72.5P	68	14.7	2.5	PR
BRM06823.42.5A	68	23.4	2.5	A

METRIC -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

CFP -- CARBON FILLED PTFE
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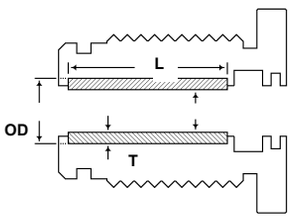
NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

PART #	OD	L	T	MATERIAL
BRM068.505.62.	68.5	5.6	2.5	PR
BRM06912.53G	69	12.5	3	GFN
BRM06912.83G	69	12.8	3	A
BRM06912.83P	69	12.8	3	PR
BRM06929.73P	69	29.7	3	PR
BRM069303G	69	30	3	GFN
BRM07005.62.5	70	5.6	2.5	GFN
BRM070062.5A	70	6	2.5	A
BRM070062.5P	70	6	2.5	PR
BRM07006.82.5	70	6.8	2.5	GFN
BRM07006.92.5P	70	6.9	2.5	PR
BRM07007.22.5P	70	7.2	2.5	PR
BRM070092.6A	70	9	2.6	A
BRM07009.52.5P	70	9.5	2.5	PR
BRM07009.72.5P	70	9.7	2.5	PR
BRM07009.72.5S	70	9.7	2.5	PR
BRM07010.33P	70	10.3	3	PR
BRM07010.73P	70	10.7	3	PR
BRM070124P	70	12	4	PR
BRM07012.53G	70	12.5	3	GFN
BRM07014.53P	70	14.5	3	PR
BRM070152.5G	70	15	2.5	GFN
BRM07015.73P	70	15.7	3	PR
BRMS070182	70	18	2	GFN
BRM070182.5P	70	18	2.5	PR
BRM070202.5P	70	20	2.5	PR
BRM070203P	70	20	3	PR
BRM070303P	70	30	3	PR
BRM07112.53G	71	12.5	3	GFN
BRMS071182	71	18	2	GFN
BRM071202.5P	71	20	2.5	PR
BRM07205.42.5	72	5.4	2.5	GFN
BRM07505.42.5	75	5.4	2.5	GFN
BRM07505.72.5P	75	5.7	2.5	PR
BRM075062.5P	75	6	2.5	PR
BRM07509.52.5C	75	9.5	2.5	CFP
BRM07509.72.5P	75	9.7	2.5	PR
BRM07509.73P	75	9.7	3	PR

PART #	OD	L	T	MATERIAL
BRM075102.5P	75	10	2.5	PR
BRM07511.84P	75	11.8	4	PR
BRM07512.53G	75	12.5	3	GFN
BRM075143P	75	14	3	PR
BRM07514.53P	75	14.5	3	PR
BRM075152P	75	15	2	PR
BRM075152.5P	75	15	2.5	PR
BRMP0751505	75	15	5	A
BRM075182.5P	75	18	2.5	PR
BRMS075202	75	20	2	GFN
BRM075202.5P	75	20	2.5	PR
BRM075203P	75	20	3	PR
BRM075252.5P	75	25	2.5	PR
BRM07529.72.5A	75	29.7	2.5	A
BRM07529.72.5P	75	29.7	2.5	PR
BRM07612.83G	76	12.8	3	GFN
BRM07629.73P	76	29.7	3	PR
BRM076.205.625	76.2	5.6	2.5	PR
BRM07812.53G	78	12.5	3	GFN
BRM07812.62P	78	12.6	2	PR
BRM07812.62.5P	78	12.6	2.5	PR
BRM079.44.55.1	79.4	4.5	5.1	BFP
BRM080043A	80	4	3	A
BRM080052A	80	5	2	A
BRM080052P	80	5	2	PR
BRM08005.72.5P	80	5.7	2.5	PR
BRM080062A	80	6	2	A
BRM080064G	80	6	4	GFN
BRM08007.32P	80	7.3	2	PR
BRM080082.5G	80	8	2.5	GFN
BRM08009.52.5A	80	9.5	2.5	A
BRM08009.52.5P	80	9.5	2.5	PR
BRM08009.72.5P	80	9.7	2.5	PR
BRM080102P	80	10	2	PR
BRM080102.5P	80	10	2.5	PR
BRM080103P	80	10	3	PR
BRM080124P	80	12	4	PR
BRM08012.53G	80	12.5	3	GFN
BRM080133P	80	13	3	PR

METRIC -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

CFP -- CARBON FILLED PTFE
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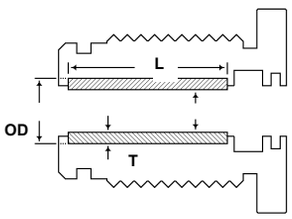
NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

PART #	OD	L	T	MATERIAL
BRM08013.71.5A	80	13.7	1.5	A
BRM080141.5A	80	14	1.5	A
BRM080142.5P	80	14	2.5	PR
BRM080151.5A	80	15	1.5	A
BRM080152P	80	15	2	PR
BRM080152.5P	80	15	2.5	PR
BRM08016.73P	80	16.7	3	PR
BRMS080202	80	20	2	GFN
BRM080202.5P	80	20	2.5	PR
BRM080203P	80	20	3	PR
BRM080253P	80	25	3	PR
BRM08112.73P	81	12.7	3	PR
BRM081303P	81	30	3	PR
BRM082.5102P	82.5	10	2	PR
BRM08409.32G	84	9.3	2	GFN
BRM08409.52.5P	84	9.5	2.5	PR
BRH078	84	16	3	A
BRM08423.52.5P	84	23.5	2.5	PR
BRM08423.55P	84	23.5	5	PR
BRM085034A	85	3	4	A
BRM085062.5P	85	6	2.5	PR
BRM08506.12.5P	85	6.1	2.5	PR
BRM08509.52.5P	85	9.5	2.5	PR
BRM08509.53P	85	9.5	3	PR
BRM08512.53G	85	12.5	3	GFN
BRM08512.53P	85	12.5	3	PR
BRM08514.53P	85	14.5	3	PR
BRM085152P	85	15	2	PR
BRM085152.5G	85	15	2.5	GFN
BRM085152.5SF	85	15	2.5	PR
BRM085152.5P	85	15	2.5	PR
BRM085153P	85	15	3	PR
BRM085154P	85	15	4	PR
BRM085202.5P	85	20	2.5	PR
BRM085203P	85	20	3	PR
BRM08524.33P	85	24.3	3	PR
BRM085252.5P	85	25	2.5	PR
BRM085253P	85	25	3	PR
BRH078/1	85	29.5	3.5	A

PART #	OD	L	T	MATERIAL
BRM08529.73P	85	29.7	3	PR
BRM085303P	85	30	3	PR
BRM085403P	85	40	3	PR
BRM08612.53G	86	12.5	3	GFN
BRM08612.53P	86	12.5	3	PR
BRM08612.73P	86	12.7	3	PR
BRM08619.23P	86	19.2	3	PR
BRM08624.33P	86	24.3	3	PR
BRM086303G	86	30	3	GFN
BRM086353SF	86	35	3	PR
BRM086503A	86	50	3	A
BRM086503SF	86	50	3	PR
BRM086.66102P	86.7	10	2	PR
BRM088.905.625	88.9	5.6	2.5	PR
BRM09005.72.5	90	5.7	2.5	GFN
BRM09005.72.5P	90	5.7	2.5	PR
BRM09009.52.5P	90	9.5	2.5	PR
BRM09009.53P	90	9.5	3	PR
BRM09009.72.5	90	9.7	2.5	GFN
BRM09009.72.5P	90	9.7	2.5	PR
BRM090102.5P	90	10	2.5	PR
BRM090103P	90	10	3	PR
BRM09012.53P	90	12.5	3	PR
BRM09012.54P	90	12.5	4	PR
BRM09012.54.5P	90	12.5	4.5	PR
BRM09012.73P	90	12.7	3	PR
BRM09012.73G	90	12.8	3	GFN
BRM090152P	90	15	2	PR
BRM090152.5G	90	15	2.5	GFN
BRM090153P	90	15	3	PR
BRM090154P	90	15	4	PR
BRM09019.73P	90	19.7	3	PR
BRMS090202	90	20	2	GFN
BRM090202.5P	90	20	2.5	PR
BRM090203P	90	20	3	PR
BRM090245P	90	24	5	PR
BRM090253P	90	25	3	PR
BRM090303P	90	30	3	PR
BRM090353P	90	35	3	PR

METRIC -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

CFP -- CARBON FILLED PTFE
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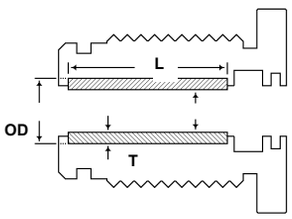
NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

PART #	OD	L	T	MATERIAL
BRM09112.53G	91	12.5	3	GFN
BRM094152G	94	15	2	GFN
BRM094202P	94	20	2	PR
BRM09505.62.5	95	5.6	2.5	GFN
BRM095062.5P	95	6	2.5	PR
BRM09506.12.5P	95	6.1	2.5	PR
BRM095082.5P	95	8	2.5	PR
BRM09509.52P	95	9.5	2	PR
BRM09509.52.5	95	9.5	2.5	GFN
BRM09509.52.5P	95	9.5	2.5	PR
BRM095102.5P	95	10	2.5	PR
BRM095102.5SF	95	10	2.5	PR
BRM095124P	95	12	4	PR
BRM09512.53G	95	12.5	3	GFN
BRM09512.54.5P	95	12.5	4.5	PR
BRM09512.62.5P	95	12.6	2.5	PR
BRM09512.73G	95	12.7	3	GFN
BRM09514.74P	95	14.7	4	PR
BRM09514.92.5P	95	14.9	2.5	PR
BRM095152P	95	15	2	PR
BRM095152.5G	95	15	2.5	GFN
BRM095153P	95	15	3	PR
BRM095202.5P	95	20	2.5	PR
BRM095252.5P	95	25	2.5	PR
BRM095253P	95	25	3	PR
BRM09612.53P	96	12.5	3	PR
BRM09612.83G	96	12.8	3	GFN
BRM09624.73P	96	24.7	3	PR
BRM09628.73P	96	28.7	3	PR
BRM096303G	96	30	3	GFN
BRM09639.53P	96	39.5	3	PR
BRM096603SF	96	60	3	PR
BRM09709.52.5A	97	9.5	2.5	A
BRM098104P	98	10	4	PR
BRM100043A	100	4	3	A
BRM100053P	100	5	3	PR
BRM10005.42.5	100	5.4	2.5	GFN
BRM10005.82A	100	5.8	2	A

PART #	OD	L	T	MATERIAL
BRM10005.810A	100	5.8	10	A
BRM100062P	100	6	2	PR
BRM100063P	100	6	3	PR
BRM10006.12.5P	100	6.1	2.5	PR
BRM10006.14P	100	6.1	4	PR
BRM100082.5P	100	8	2.5	PR
BRM100092.5CP	100	9	2.5	CFP
BRM100092.5P	100	9	2.5	PR
BRM10009.52.5P	100	9.5	2.5	CFP
BRM10009.52.5	100	9.5	2.5	GFN
BRM10009.52.5P	100	9.5	2.5	PR
BRM10009.73P	100	9.7	3	PR
BRM10009.82.5A	100	9.8	2.5	A
BRM100102P	100	10	2	PR
BRM100123P	100	12	3	PR
BRM10012.53P	100	12.5	3	PR
BRM10012.54.5P	100	12.5	4.5	PR
BRM10012.73P	100	12.7	3	PR
BRM10012.83P	100	12.8	3	PR
BRM100142.5P	100	14	2.5	PR
BRM100151.5A	100	15	1.5	A
BRM100151.5PT	100	15	1.5	PTFE
BRM100152P	100	15	2	PR
BRM100152.5P	100	15	2.5	PR
BRM100153P	100	15	3	PR
BRM100153.5P	100	15	3.5	PR
BRM100154P	100	15	4	PR
BRM10016.93P	100	16.9	3	PR
BRM100173.5P	100	17	3.5	PR
BRM100203P	100	20	3	PR
BRM100204P	100	20	4	PR
BRM10022.53P	100	22.5	3	PR
BRM100252.5P	100	25	2.5	PR
BRM100253P	100	25	3	PR
BRMS100262	100	26	2	GFN
BRM100303P	100	30	3	PR
BRM10112.53G	101	12.5	3	GFN
BRM101403A	101	40	3	A
BRM101.605.62.	101.6	5.6	2.5	PR
BRM10323.42.5P	103	23.4	2.5	PR

METRIC -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

CFP -- CARBON FILLED PTFE
P -- PTFE
BFP -- BRONZE FILLED PTFE
GFN -- GLASS FILLED NYLON
PR -- PHENOLIC RESIN / FABRIC
A -- ACETAL

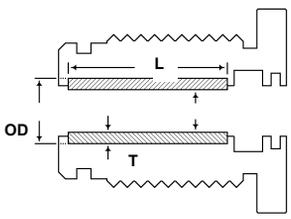
NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

PART #	OD	L	T	MATERIAL
BRM104152G	104	15	2	GFN
BRM105062.5P	105	6	2.5	PR
BRM105064P	105	6	4	PR
BRM105082.5P	105	8	2.5	PR
BRM10509.52.5	105	9.5	2.5	GFN
BRM10509.52.5P	105	9.5	2.5	PR
BRM10509.72.5	105	9.7	2.5	GFN
BRM105104.3B	105	10	4.3	BFP
BRM10512.54.5P	105	12.5	4.5	PR
BRM10512.73P	105	12.7	3	PR
BRM105143.5P	105	14	3.5	PR
BRM105152.5P	105	15	2.5	PR
BRM105154P	105	15	4	PR
BRH099	105	16	3	A
BRM105202P	105	20	2	PR
BRM105253P	105	25	3	PR
BRM10612.83G	106	12.8	3	GFN
BRM106193P	106	19	3	PR
BRH099/1	106	29.5	3.5	A
BRM10809.52.5P	108	9.5	2.5	PR
BRM110062.5P	110	6	2.5	PR
BRM110063P	110	6	3	PR
BRM110064P	110	6	4	PR
BRM11007.92.5P	110	7.9	2.5	PR
BRM11008.72.5P	110	8.7	2.5	PR
BRM11009.52.5P	110	9.5	2.5	PR
BRM110103G	110	10	3	GFN
BRM110123P	110	12	3	PR
BRM110124P	110	12	4	PR
BRM11012.54.5P	110	12.5	4.5	PR
BRM11012.63P	110	12.6	3	PR
BRM11014.72G	110	14.7	2	GFN
BRM110152.5P	110	15	2.5	GFN
BRM110153P	110	15	3	PR
BRM110154P	110	15	4	PR
BRM110155P	110	15	5	PR
BRM110202P	110	20	2	PR
BRM110203P	110	20	3	PR
BRM11022.53P	110	22.5	3	PR

PART #	OD	L	T	MATERIAL
BRM110252.5P	110	25	2.5	PR
BRM110253P	110	25	3	PR
BRMS110282	110	28	2	GFN
BRM110303P	110	30	3	PR
BRM11112.53P	111	12.5	3	PR
BRM11112.73G	111	12.7	3	GFN
BRM11506.12.5P	115	6.1	2.5	PR
BRM11506.14P	115	6.1	4	PR
BRM11507.82.5P	115	7.8	2.5	PR
BRM11507.92.5P	115	7.9	2.5	PR
BRM11509.52.5P	115	9.5	2.5	PR
BRM11509.53P	115	9.5	3	PR
BRM115104.5P	115	10	4.5	PR
BRM11512.53G	115	12.5	3	GFN
BRM115152.5P	115	15	2.5	PR
BRM115152.5SF	115	15	2.5	PR
BRM115153P	115	15	3	PR
BRM115154P	115	15	4	PR
BRM115154.5P	115	15	4.5	PR
BRM11516.85G	115	16.8	5	GFN
BRM115202P	115	20	2	PR
BRM115204P	115	20	4	PR
BRM11524.73P	115	24.7	3	PR
BRM115252.5P	115	25	2.5	PR
BRMS115302	115	30	2	GFN
BRM11612.53P	116	12.5	3	PR
BRM11612.83P	116	12.8	3	PR
BRM117503.5P	117	50	3.5	PR
BRM118055PTF	118	5	5	CFP
BRM118504G	118	50	4	GFN
BRM11914.82.5	119	14.8	2.5	GFN
BRM12314.802C	119	123	15	CFP
BRM120062.5P	120	6	2.5	PR
BRM120063P	120	6	3	PR
BRM120064A	120	6	4	A
BRM120064P	120	6	4	PR
BRM12007.92.5P	120	7.9	2.5	PR

METRIC -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

CFP -- CARBON FILLED PTFE
P -- PTFE
BFP -- BRONZE FILLED PTFE
GFN -- GLASS FILLED NYLON
PR -- PHENOLIC RESIN / FABRIC
A -- ACETAL

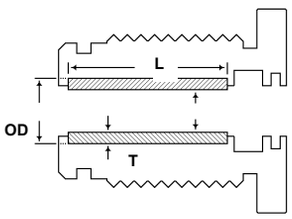
NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

PART #	OD	L	T	MATERIAL
BRM120082.5P	120	8	2.5	PR
BRM120084P	120	8	4	PR
BRM12009.52.5	120	9.5	2.5	GFN
BRM12009.52.5P	120	9.5	2.5	PR
BRM12009.72.5P	120	9.7	2.5	PR
BRM12012.53G	120	12.5	3	GFN
BRM120144P	120	14	4	PR
BRM120152.5P	120	15	2.5	PR
BRM120153P	120	15	3	PR
BRM120154P	120	15	4	PR
BRM120154.5P	120	15	4.5	PR
BRM120155P	120	15	5	PR
BRM12022.53P	120	22.5	3	PR
BRM12024.53P	120	24.5	3	PR
BRM120252.5P	120	25	2.5	PR
BRM120253P	120	25	3	PR
BRMS120302	120	30	2	GFN
BRM120303P	120	30	3	PR
BRM120303.5P	120	30	3.5	PR
BRM120353P	120	35	3	PR
BRM12223.42.5P	122	23.4	2.5	PR
BRM12507.82A	125	7.8	2	A
BRM12507.93P	125	7.9	3	PR
BRM125082.5P	125	8	2.5	PR
BRM125084P	125	8	4	PR
BRM12508.14CP	125	8.1	4	CFP
BRM12509.52.5P	125	9.5	2.5	PR
BRM12509.72.5	125	9.7	2.5	GFN
BRM12509.72.5P	125	9.7	2.5	PR
BRM12509.85P	125	9.8	5	PR
BRM125103P	125	10	3	PR
BRM125104P	125	10	4	PR
BRM12512.53G	125	12.5	3	GFN
BRM12513.33SF	125	13.3	3	PR
BRM12514.71.5A	125	14.7	1.5	A
BRM12514.72.5P	125	14.7	2.5	PR
BRM125152P	125	15	2	PR
BRM125152.5A	125	15	2.5	A
BRM125152.5SF	125	15	2.5	PR
BRM125152.5P	125	15	2.5	PR
BRM125153G	125	15	3	GFN

PART #	OD	L	T	MATERIAL
BRM125153P	125	15	3	PR
BRM125154P	125	15	4	PR
BRM125155P	125	15	5	PR
BRM12516.73.4A	125	16.7	3.4	A
BRM12516.73.4P	125	16.7	3.4	PR
BRM125202P	125	20	2	PR
BRM125203P	125	20	3	PR
BRM125253P	125	25	3	PR
BRM125303P	125	30	3	PR
BRMS125322	125	32	2	GFN
BRM125403P	125	40	3	PR
BRM125606P	125	60	6	PR
BRM12612.53G	126	12.5	3	GFN
BRM126153P	126	15	3	PR
BRH120	126	16	3	A
BRM12619.23P	126	19.2	3	PR
BRM127152P	127	15	2	PR
BRH120/1	127	29.5	3.5	A
BRM12834.64P	128	34.6	4	PR
BRM130072.5G	130	7	2.5	GFN
BRM13007.62.5P	130	7.6	2.5	PR
BRM13007.92.5P	130	7.9	2.5	PR
BRM130084P	130	8	4	PR
BRM13008.14CP	130	8.1	4	CFP
BRM13009.52.5P	130	9.5	2.5	PR
BRM13009.72.5P	130	9.7	2.5	PR
BRM13012.53G	130	12.5	3	GFN
BRM13013.83P	130	13.8	3	PR
BRM13013.83.5P	130	13.8	3.5	PR
BRM130142.5P	130	14	2.5	PR
BRM130152.5P	130	15	2.5	PR
BRM130154P	130	15	4	PR
BRM130155P	130	15	5	PR
BRM130192.5A	130	19	2.5	A
BRM130202P	130	20	2	PR
BRM130203P	130	20	3	PR
BRM130243.5P	130	24	3.5	PR
BRM130252.5P	130	25	2.5	PR
BRM130303.5P	130	30	3.5	PR

METRIC -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

CFP -- CARBON FILLED PTFE
P -- PTFE
BFP -- BRONZE FILLED PTFE
GFN -- GLASS FILLED NYLON
PR -- PHENOLIC RESIN / FABRIC
A -- ACETAL

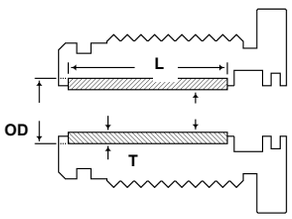
NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

PART #	OD	L	T	MATERIAL
BRM130403.5P	130	40	3.5	PR
BRM130453.5P	130	45	3.5	PR
BRM13112.83P	131	12.8	3	PR
BRM13134.53P	131	34.5	3	PR
BRM13505.62.5P	135	5.6	2.5	PR
BRM13507.92.5P	135	7.9	2.5	PR
BRM13507.94P	135	7.9	4	PR
BRM135092.5P	135	9	2.5	PR
BRM13509.52.5P	135	9.5	2.5	PR
BRM13509.72.5P	135	9.7	2.5	PR
BRM13509.73.5P	135	9.7	3.5	PR
BRM135102.5P	135	10	2.5	PR
BRM135103P	135	10	3	PR
BRM135105P	135	10	5	PR
BRM13513.53P	135	13.5	3	PR
BRM135152.5G	135	15	2.5	GFN
BRM135152.5P	135	15	2.5	PR
BRM135153.5P	135	15	3.5	PR
BRM135155P	135	15	5	PR
BRM135202P	135	20	2	PR
BRM135203.5P	135	20	3.5	PR
BRM135253.5P	135	25	3.5	PR
BRM1350612825	135.06	12.8	2.53	PR
BRM13511282.5	135.1	12.8	2.55	PR
BRM13612.53G	136	12.5	3	GFN
BRM139.3133.32	139.3	133.3	2.6	CFP
BRM14007.82.5P	140	7.8	2.5	PR
BRM140082.5P	140	8	2.5	PR
BRM140084P	140	8	4	PR
BRM14008.14CP	140	8.1	4	CFP
BRM140092.5P	140	9	2.5	PR
BRM14009.52.5P	140	9.5	2.5	PR
BRM14009.72.5P	140	9.7	2.5	PR
BRM140102.5P	140	10	2.5	PR
BRM14012.63G	140	12.6	3	GFN
BRM140143.5P	140	14	3.5	PR
BRM140152.5G	140	15	2.5	GFN

PART #	OD	L	T	MATERIAL
BRM140152.5P	140	15	2.5	PR
BRM140176P	140	17	6	PR
BRM14017.33.5P	140	17.3	3.5	PR
BRM14017.56P	140	17.5	6	PR
BRM140192.5A	140	19	2.5	A
BRM1401910A	140	19	10	A
BRM14019.53P	140	19.5	3	PR
BRM140202P	140	20	2	PR
BRM140203.5P	140	20	3.5	PR
BRM140204P	140	20	4	PR
BRM140273P	140	27	3	PR
BRM140273.5P	140	27	3.5	PR
BRM140353.5P	140	35	3.5	PR
BRMS140362	140	36	2	GFN
BRM140403.5P	140	40	3.5	PR
BRM140503.5P	140	50	3.5	PR
BRM14123.42.5	141	23.4	2.5	GFN
BRM14123.42.5P	141	23.4	2.5	PR
BRM14505.62.5P	145	5.6	2.5	PR
BRM145082.5P	145	8	2.5	PR
BRM14508.14CP	145	8.1	4	CFP
BRM14509.52.5P	145	9.5	2.5	PR
BRM14509.72.5P	145	9.7	2.5	PR
BRM14509.73.5P	145	9.7	3.5	PR
BRM145103.5P	145	10	3.5	PR
BRM145104P	145	10	4	PR
BRM14514.83.5P	145	14.8	3.5	PR
BRM145152.5G	145	15	2.5	GFN
BRM145152.5P	145	15	2.5	PR
BRM145153P	145	15	3	PR
BRM145153.5P	145	15	3.5	PR
BRM145202.5P	145	20	2.5	PR
BRM145203.5P	145	20	3.5	PR
BRM14524.92.5P	145	24.9	2.5	PR
BRM1450612825	145.06	12.8	2.53	PR
BRM14612.53G	146	12.5	3	GFN
BRM146253P	146	25	3	PR
BRH141	147	16	3	A

METRIC -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

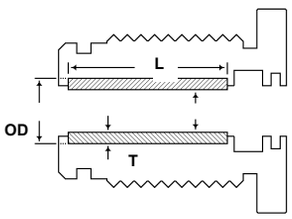
CFP -- CARBON FILLED PTFE
P -- PTFE
BFP -- BRONZE FILLED PTFE
GFN -- GLASS FILLED NYLON
PR -- PHENOLIC RESIN / FABRIC
A -- ACETAL

NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

PART #	OD	L	T	MATERIAL
BRH141/1	148	29.5	3.5	A
BRM150064P	150	6	4	PR
BRM150082.5P	150	8	2.5	PR
BRM150084P	150	8	4	PR
BRM150092.5P	150	9	2.5	PR
BRM150094P	150	9	4	PR
BRM15009.52.5P	150	9.5	2.5	PR
BRM15009.72.5P	150	9.7	2.5	PR
BRM150102G	150	10	2	GFN
BRM15012.52.5P	150	12.5	2.5	PR
BRM15012.53P	150	12.5	3	PR
BRM15012.510P	150	12.5	10	PR
BRM15012.73G	150	12.7	3	GFN
BRM150143.5P	150	14	3.5	PR
BRM150152.5P	150	15	2.5	PR
BRM150153P	150	15	3	PR
BRM150153.5P	150	15	3.5	PR
BRM150154P	150	15	4	PR
BRM150173.5P	150	17	3.5	PR
BRM150186P	150	18	6	PR
BRM150193G	150	19	3	GFN
BRM150202P	150	20	2	PR
BRM150203P	150	20	3	PR
BRM150203.5P	150	20	3.5	PR
BRM150204P	150	20	4	PR
BRM150252P	150	25	2	PR
BRM150353.5P	150	35	3.5	PR
BRMS150393	150	39	3	GFN
BRM15039.53P	150	39.5	3	PR
BRM150403.5P	150	40	3.5	PR
BRM150453.5G	150	45	3.5	GFN
BRM150453.5P	150	45	3.5	PR
BRM154152G	154	15	2	GFN
BRM155152.5G	155	15	2.5	GFN
BRM155152.5P	155	15	2.5	PR
BRM155202.5P	155	20	2.5	PR
BRM155252.5P	155	25	2.5	PR
BRM155403P	155	40	3	PR
BRM15612.53G	156	12.5	3	GFN
BRM156193G	156	19	3	GFN
BRM156203P	156	20	3	PR
BRM16005.42.5A	160	5.4	2.5	A
BRM16005.42.5P	160	5.4	2.5	PR
BRM16007.82A	160	7.8	2	A
BRM16007.82P	160	7.8	2	PR
BRM16007.83A	160	7.8	3	A
BRM16009.52.5P	160	9.5	2.5	PR
BRM16009.53.5P	160	9.5	3.5	PR
BRM16009.54P	160	9.5	4	PR
BRM16009.72.5S	160	9.7	2.5	PR
BRM160106P	160	10	6	PR
BRM16014.91.5A	160	14.9	1.5	A
BRM16014.93.5S	160	14.9	3.5	PR
BRM160152P	160	15	2	PR
BRM160152.5A	160	15	2.5	A
BRM160152.5P	160	15	2.5	PR
BRM160156P	160	15	6	PR
BRM160193G	160	19	3	GFN
BRM16019.33P	160	19.3	3	PR
BRM16019.86P	160	19.8	6	PR
BRM160202P	160	20	2	PR
BRM160203P	160	20	3	PR
BRM160203.5P	160	20	3.5	PR
BRM160206P	160	20	6	PR
BRM16020.53.5	160	20.5	3.5	GFN
BRM16023.42.5P	160	23.4	2.5	PR
BRM16024.73.5P	160	24.7	3.5	PR
BRM16024.91.5A	160	24.9	1.5	A
BRM160252.5P	160	25	2.5	PR
BRM160252.5SF	160	25	2.5	PR
BRM160253SF	160	25	3	PR
BRM160253P	160	25	3	PR
BRM160293A	160	29	3	A
BRM160303P	160	30	3	PR
BRM160303.5SF	160	30	3.5	PR
BRM16034.85G	160	34.8	5	GFN
BRM160353P	160	35	3	PR
BRM160403P	160	40	3	PR
BRM160403.5P	160	40	3.5	PR
BRMS160423	160	42	3	.
BRM160453.5P	160	45	3.5	PR

METRIC -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

CFP -- CARBON FILLED PTFE
P -- PTFE
BFP -- BRONZE FILLED PTFE
GFN -- GLASS FILLED NYLON
PR -- PHENOLIC RESIN / FABRIC
A -- ACETAL

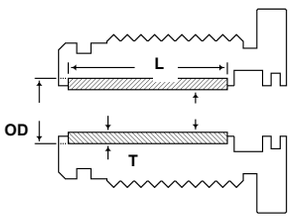
NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

PART #	OD	L	T	MATERIAL
BRM160454P	160	45	4	PR
BRM160503P	160	50	3	PR
BRM16505.82.5P	165	5.8	2.5	PR
BRM16509.72.5P	165	9.7	2.5	PR
BRM165144P	165	14	4	PR
BRM16514.83.5P	165	14.8	3.5	PR
BRM165152.5G	165	15	2.5	GFN
BRM165154P	165	15	4	PR
BRM165202.5P	165	20	2.5	PR
BRM165242.5P	165	24	2.5	PR
BRM16524.54P	165	24.5	4	PR
BRM165253.5P	165	25	3.5	PR
BRM165303P	165	30	3	PR
BRM16612.53G	166	12.5	3	GFN
BRM166193G	166	19	3	GFN
BRH162	168	16	3	A
BRH162/1	168	29.5	3	A
BRM168304P	168	30	4	PR
BRM17009.52.5P	170	9.5	2.5	PR
BRM17009.53P	170	9.5	3	PR
BRM17009.72.5P	170	9.7	2.5	PR
BRM17009.74CP	170	9.7	4	CFP
BRM17009.74P	170	9.7	4	PR
BRM170102.5P	170	10	2.5	PR
BRM170152.5P	170	15	2.5	PR
BRM170154P	170	15	4	PR
BRM170193G	170	19	3	GFN
BRM170193P	170	19	3	PR
BRM170203P	170	20	3	PR
BRM170204P	170	20	4	PR
BRM170206P	170	20	6	PR
BRM170254P	170	25	4	PR
BRM170303P	170	30	3	PR
BRM170303.5P	170	30	3.5	PR
BRM17039.54P	170	39.5	4	PR
BRM170403.5P	170	40	3.5	PR
BRM170504P	170	50	4	PR
BRM170702.5P	170	70	2.5	PR
BRM175152.5G	175	15	2.5	GFN

PART #	OD	L	T	MATERIAL
BRM175202.5P	175	20	2.5	PR
BRM175252.5P	175	25	2.5	PR
BRM18009.53.5P	180	9.5	3.5	PR
BRM18009.72.5P	180	9.7	2.5	PR
BRM180104P	180	10	4	PR
BRM180143.5P	180	14	3.5	PR
BRM180144P	180	14	4	PR
BRM180152.5P	180	15	2.5	PR
BRM180153P	180	15	3	PR
BRM180193P	180	19	3	PR
BRM180203P	180	20	3	PR
BRM18028.54G	180	20.5	4	GFN
BRM180224P	180	22	4	PR
BRM180226P	180	22	6	PR
BRM18022.54P	180	22.5	4	PR
BRM180235P	180	23	5	PR
BRM180252P	180	25	2	PR
BRM180252.5P	180	25	2.5	PR
BRM180302.5P	180	30	2.5	PR
BRM180303P	180	30	3	PR
BRM180404A	180	40	4	A
BRM180454P	180	45	4	PR
BRM180804P	180	80	4	PR
BRM180806P	180	80	6	PR
BRM18123.42.5A	181	23.4	2.5	A
BRM18510.52.5P	185	10.5	2.5	PR
BRM185122.5P	185	12	2.5	PR
BRM185152.5G	185	15	2.5	GFN
BRM185206P	185	20	6	PR
BRM18522.56P	185	22.5	6	PR
BRM185254P	185	25	4	PR
BRM186193G	186	19	3	GFN
BRH183	189	16	3	A
BRH183/1	189	29.5	3	A
BRM190094G	190	9	4	GFN
BRM1909.74CPT	190	9.7	4	CFP
BRM190102.5P	190	10	2.5	PR
BRM190104P	190	10	4	PR

METRIC -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

CFP -- CARBON FILLED PTFE
P -- PTFE
BFP -- BRONZE FILLED PTFE
GFN -- GLASS FILLED NYLON
PR -- PHENOLIC RESIN / FABRIC
A -- ACETAL

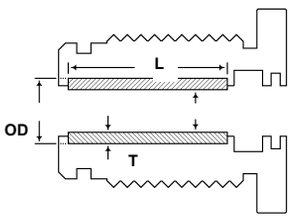
NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

PART #	OD	L	T	MATERIAL
BRM19014.92.5S	190	14.9	2.5	PR
BRM190152.5P	190	15	2.5	PR
BRM190153P	190	15	3	PR
BRM190155P	190	15	5	PR
BRM19022.54P	190	22.5	4	PR
BRM190253P	190	25	3	PR
BRM190254P	190	25	4	PR
BRM19028.54G	190	28.5	4	GFN
BRM19029.73.5P	190	29.7	3.5	PR
BRM190303P	190	30	3	PR
BRM190454P	190	45	4	PR
BRM190504P	190	50	4	PR
BRM195152.5G	195	15	2.5	GFN
BRM19519.23G	195	19.2	3	GFN
BRM19519.23P	195	19.2	3	PR
BRM20005.42.5P	200	5.4	2.5	PR
BRM2009.74CPT	200	9.7	4	CFP
BRM20014.83.5P	200	14.8	3.5	PR
BRM200193G	200	19	3	GFN
BRM200202P	200	20	2	PR
BRM200202PTF	200	20	2	PTFE
BRM200202.5P	200	20	2.5	PR
BRM200203P	200	20	3	PR
BRM200223P	200	22	3	PR
BRM200224P	200	22	4	PR
BRM20022.54P	200	22.5	4	PR
BRM20022.56P	200	22.5	6	PR
BRM20024.62P	200	24.6	2	PR
BRM200251.5A	200	25	1.5	A
BRM200253P	200	25	3	PR
BRM200253.5A	200	25	3.5	A
BRM20028.54G	200	28.5	4	GFN
BRM200404P	200	40	4	PR
BRM200603P	200	60	3	PR
BRM200906P	200	90	6	PR
BRM20323.42.5A	203	23.4	2.5	A
BRM205152.5G	205	15	2.5	GFN
BRM20524.52.5P	205	24.5	2.5	PR
BRM206193G	206	19	3	GFN

PART #	OD	L	T	MATERIAL
BRM208254SF	208	25	4	PR
BRM21009.52.5P	210	9.5	2.5	PR
BRM21009.72.5	210	9.7	2.5	GFN
BRM210184P	210	18	4	PR
BRM210405SF	210	40	5	PR
BRM21049.54P	210	49.5	4	PR
BRH207	213	16	3	A
BRH207/1	214	29.5	3.5	A
BRM21509.74CP	215	9.7	4	CFP
BRM21514.72.5P	215	14.7	2.5	PR
BRM215202.5P	215	20	2.5	PR
BRM215203P	215	20	3	PR
BRM21524.52.5P	215	24.5	2.5	PR
BRM21524.53P	215	24.5	3	PR
BRM21549.54P	215	49.5	4	PR
BRM216193G	216	19	3	GFN
BRM220193G	220	19	3	GFN
BRM22019.33P	220	19.3	3	PR
BRM22028.34G	220	28.3	4	GFN
BRM220302P	220	30	2	PR
BRM220304G	220	30	4	GFN
BRM220304P	220	30	4	PR
BRM220504G	220	50	4	GFN
BRM220603.31G	220	60	3.31	GFN
BRM22514.92.5P	225	14.9	2.5	PR
BRM225193P	225	19	3	PR
BRM22519.82.5	225	19.8	2.5	.
BRM225254P	225	25	4	PR
BRM225256P	225	25	6	PR
BRM225454P	225	45	4	PR
BRM225504P	225	50	4	PR
BRM226193G	226	19	3	GFN
BRM230154CPT	230	15	4	CFP
BRM230252.5P	230	25	2.5	PR
BRM230253P	230	25	3	PR

METRIC -- BEARING RING

ROD or PISTON



GROOVE LENGTH " L "

+ 0.010 - + 0.015 "

HOUSING TOLERANCES

ROD --- H8

PISTON --- h8



MATERIAL CODES

CFP -- CARBON FILLED PTFE
P -- PTFE
BFP -- BRONZE FILLED PTFE
GFN -- GLASS FILLED NYLON
PR -- PHENOLIC RESIN / FABRIC
A -- ACETAL

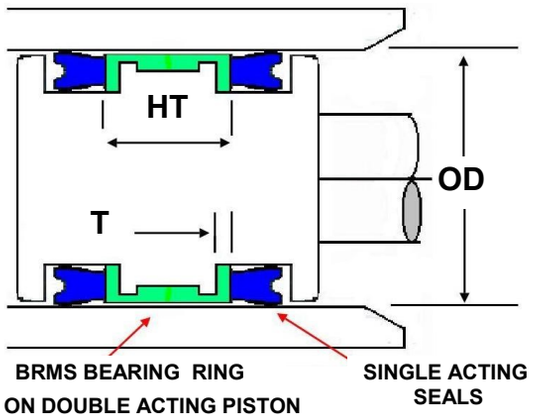
NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

PART #	OD	L	T	MATERIAL
BRM230404P	230	40	4	PR
BRM230504P	230	50	4	PR
BRM230603.29G	230	60	3.29	GFN
BRM240154CPT	240	15	4	CFP
BRM240253P	240	25	3	PR
BRM240304A	240	30	4	A
BRM245252.5P	245	25	2.5	PR
BRM2501306P	250	13	6	PR
BRM250152.5P	250	15	2.5	PR
BRM250154CPT	250	15	4	CFP
BRM250193G	250	19	3	GFN
BRM250202P	250	20	2	PR
BRM25024.52.5P	250	24.5	2.5	PR
BRM25024.53P	250	24.5	3	PR
BRM25024.54P	250	24.5	4	PR
BRM250276P	250	27	6	PR
BRM250302P	250	30	2	PR
BRM250504.5P	250	50	4.5	PR
BRM25054.54P	250	54.5	4	PR
BRM25459.53.5P	254	59.5	3.5	PR
BRM25524.92.5S	255	4.9	2.5	PR
BRM25519.52PT	255	19.5	2	PTFE
BRM25525.43.5P	255	25.4	3.5	PR
BRM255594P	255	59	4	PR
BRM26009.74CP	260	9.7	4	CFP
BRM260154CPT	260	16	4	CFP
BRM260252.5SF	260	25	2.5	PR
BRM26029.54P	260	29.5	4	PR
BRM260303P	260	30	3	PR
BRM260504.5P	260	50	4.5	PR
BRM27019.23P	270	19.2	3	PR
BRM27024.92.5S	270	24.9	2.5	PR
BRM28014.72.5P	280	14.7	2.5	PR
BRM280154CPT	280	15	4	CFP
BRM280302.5P	280	30	2.5	PR
BRM280303P	280	30	3	PR

PART #	OD	L	T	MATERIAL
BRM280604P	280	60	4	PR
BRM285252.5PB	285	25	2.5	PR
BRM290254P	290	25	4	PR
BRM290404P	290	40	4	PR
BRM03005.52.5A	300	5.5	2.5	A
BRM30013.73.5P	300	13.7	3.5	PR
BRM300303P	300	30	3	PR
BRM300304SF	300	30	4	PR
BRM300306P	300	30	6	PR
BRM300504P	300	50	4	PR
BRM310204CPT	310	20	4	CFP
BRM310353SF	310	35	3	PR
BRM3103530	310	35	30	.
BRM32013.73.5P	320	13.7	3.5	PR
BRM320303P	320	30	3	PR
BRM32069.54P	320	69.5	4	PR
BRM330204P	330	20	4	PR
BRM340254P	340	25	4	PR
BRM360403SF	360	40	3	PR
BRM379.3603.18	379	9.5	3.18	PR
BRM42025.55PB	420	25.5	5	PTFE

BEARING RINGS (METRIC)

PISTON ONLY

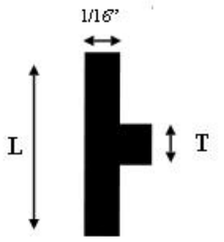


HIGH STRENGTH ACETAL / NYLON

SUPPLIED AS REPLACEMENT PART

PART #	OD	HT	T
BRMS040141.5	40	14	1.5
BRMS045151.5	45	15	1.5
BRMS050151.5	50	15	1.5
BRMS055162	55	16	2
BRMS060162	60	16	2
BRMS063172	63	17	2
BRMS065172	65	17	2
BRMS070182	70	18	2
BRMS071182	71	18	2
BRMS075202	75	20	2
BRMS080202	80	20	2
BRMS090202	90	20	2
BRMS100262	100	26	2
BRMS110282	110	28	2
BRMS115302	115	30	2
BRMS120302	120	30	2
BRMS125322	125	32	2
BRMS140362	140	36	2
BRMS150393	150	39	3
BRMS160423	160	42	3

BEARING RINGS (T SHAPE)



PISTON



GROOVE LENGTH " L "
+ 0.010 - + 0.015 "

NB --WHEN RESIZING RING --BUTT JOIN MUST HAVE 1/8" GAP

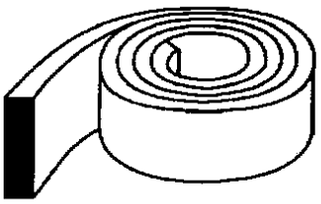
RADIAL EXTRUSION GAP -- SEE PAGE 208 -- "INSTALLATION OF SINGLE ACTING"

GLASS FILLED NYLON / ACETAL

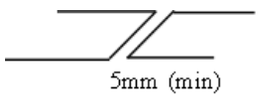
PART #	OD	L	T
TWR162043187	1.625	0.437	0.187
TWR162056187	1.625	0.562	0.187
TWR200043187	2	0.437	0.187
TWR225043187	2.25	0.437	0.187
TWR250056187	2.5	0.562	0.187
TWR262056187	2.625	0.562	0.187
TWR275056187	2.75	0.562	0.187
TWR300056187	3	0.562	0.187
TWR325056187	3.25	0.562	0.187
TWR325056187A	3.25	0.562	0.187
TWR350075250	3.5	0.75	0.25
TWR387056187A	3.875	0.562	0.187
TWR400056187	4	0.562	0.187
TWR450056187	4.5	0.562	0.187
TWR450075250	4.5	0.75	0.25
TWR475056187A	4.75	0.562	0.187
TWR500500141A	5	0.5	0.141
TWR500075500	5	0.75	0.5
TWR550075250	5.5	0.75	0.25
TWR575056187A	5.75	0.562	0.187
TWR600062250	6	0.625	0.25
TWR650075250	6.5	0.75	0.25
TWR750075250	7.5	0.75	0.25
TWR850075250	8.5	0.75	0.25

BEARING STRIP

CONTAMINATION STRIP / RINGS



BRONZE FILLED PTFE **CUT LENGTH TO SUIT**



EXPANSION GAP

STRENGTH

TENSILE -- 2,100 PSI

COMPRESSIVE -- 1,500 PSI

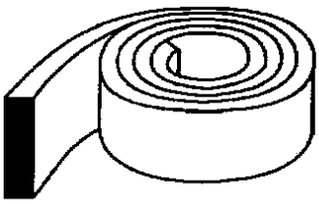
ACTUAL BEARING STRIP WIDTH IS LESS THAN GROOVE WIDTH

PART #	GROOVE WIDTH	THICK NESS
BSM02.5W2.5	2.5	2.5
BSM03.2W1.5	3.2	1.5
BSM04.2W1.5	4.2	1.5
BSM04.2W2CS	4.2	2
BSM04.2W2.5CS	4.2	2.5
BSM04.2W4	4.2	4
BSM04.8W2CS	4.8	2
BSM04.8W2.5	4.8	2.5
BSM05.4W2.4CS	5.4	2.4
BSM05.6W2.5SF	5.6	2.5
BSM05.6W2.5	5.6	2.5
BSM05.8W2.5	5.8	2.5
BSM06.3W1.5CS	6.3	1.5
BSM06.3W1.5	6.3	1.5
BSM06.3W2	6.3	2
BSM06.3W2CS	6.3	2
BSM06.3W2.3	6.3	2.3
BSM06.3W2.5	6.3	2.5
BSM06.3W2.5CS	6.3	2.5
BSM06.3W3CS	6.3	3
BSM06.3W3.5	6.3	3.5
BSM06.3W4	6.3	4
BSM07.6W4CS	7.6	4
BSM07.7W1.7CS	7.7	1.7
BSM08.1W1.5CS	8.1	1.5
BSM08.1W2	8.1	2

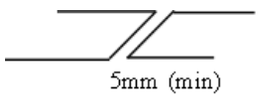
PART #	GROOVE WIDTH	THICK NESS
BSM08.1W2CS	8.1	2
BSM08.1W2.5	8.1	2.5
BSM08.1W3	8.1	3
BSM08.1W3CS	8.1	3
BSM08.1W4	8.1	4
BSM08.7W4CS	8.7	4
BSM09.2W2	9.2	2
BSM09.2W4CS	9.2	4
BSM09.7W2CS	9.7	2
BSM09.7W2.5T	9.7	2.5
BSM09.7W2.5SF	9.7	2.5
BSM09.7W2.5	9.7	2.5
BSM09.7W2.5CS	9.7	2.5
BSM09.7W3CS	9.7	3
BSM09.7W4	9.7	4
BSM09.7W4CS	9.7	4
BSM10W1.5CS	10	1.5
BSM10W2	10	2
BSM10W2CS	10	2
BSM10W2.5CS	10	2.5
BSM10W2.5	10	2.5
BSM10W3CS	10	3
BSM10W4	10	4
BSM10W4CS	10	4
BSM12W2.5	12	2.5
BSM12W2.5CS	12	2.5
BSM12W3	12	3
BSM12W4CS	12	4
BSM12.7W1.6CS	12.7	1.6

BEARING STRIP

CONTAMINATION STRIP / RINGS



BRONZE FILLED PTFE **CUT LENGTH TO SUIT**



EXPANSION GAP

STRENGTH

TENSILE -- 2,100 PSI

COMPRESSIVE -- 1,500 PSI

ACTUAL BEARING STRIP WIDTH IS LESS THAN GROOVE WIDTH

PART #	GROOVE WIDTH	THICK NESS
BSM12.7W3	12.7	3
BSM12.7W3CS	12.7	3
BSM13W1.5	13	1.5
BSM13W2.5	13	2.5
BSM15W1.5	15	1.5
BSM15W2CS	15	2
BSM15W2.5	15	2.5
BSM15W2.5CS	15	2.5
BSM15W2.5SF	15	2.5
BSM15W3	15	3
BSM15W4	15	4
BSM15W5CS	15	5
BSM19W0.8	19	0.8
BSM20W2CS	20	2
BSM20W2.5	20	2.5
BSM20W2.5CS	20	2.5
BSM20W3	20	3
BSM20W3.5CS	20	3.5
BSM20W4	20	4
BSM24W4CS	24	4
BSM25W2.5SF	24.5	2.5
BSM25W2CS	25	2
BSM25W2.5	25	2.5
BSM25W2.5CS	25	2.5
BSM25W3	25	3
BSM25W3SF	25	3
BSM25W3CS	25	3
BSM25W3.5CS	25	3.5
BSM25W4CS	25	4

PART #	GROOVE WIDTH	THICK NESS
BSM25W4SF	25	4
BSM25W5	25	5
BSM30W1.5CS	30	1.5
BSM30W2.5	30	2.5
BSM30W3	30	3
BSM30W3SF	30	3
BSM30W4	30	4
BSM40W2.5CS	40	2.5

LEATHER CUP

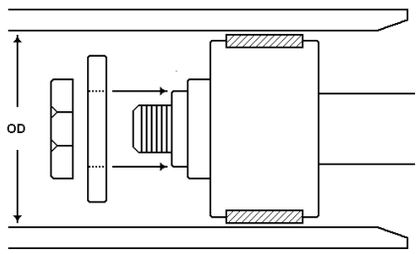
WATER PUMP CUP SEALS

BLANK - UN CUT CENTRE HOLE



PART #	OD	HOLE	SEAL LENGTH
LC068	0.687		0.375
LC075	0.75		
LC087	0.875		0.437
LC100	1		0.437
LC112	1.125		0.5
LC125	1.25		0.5
LC131	1.312		0.5
LC137	1.375		0.5
LC150	1.5		0.5
LC162	1.625		0.5
LC175	1.75		0.625
LC187	1.875		0.625
LC200	2		0.75
LC212	2.125		0.625
LC225	2.25		0.75
LC237	2.375		0.75
LC250	2.5		0.812
LC262	2.625		0.75
LC275	2.75		0.75
LC287	2.875		0.75
LC300	3		0.75
LC312	3.125		
LC325	3.25		
LC337	3.375		
LC350	3.5		1
LC362	3.625		
LC375	3.75		1
LC387	3.875		
LC400	4		1
LC412	4.125		
LC425	4.25		
LC437	4.375		
LC450	4.5		

FABRIC CUP





FABRIC REINFORCED NITRILE RUBBER

MAXIMUM PRESSURE 3,000 PSI

Type FBT has fabric reinforced base only, with nitrile lips

Designed for water pumping wind mills

ALL CUPS SUPPLIED CENTRE PUNCHED

PART #	OD	HOLE	SEAL LENGTH
FB043	0.437		0.25
FB050	0.5		0.375
FB062	0.625		0.375
FB075	0.75		0.312
FB087	0.875		0.375
FB100	1		0.25
FB112	1.125		0.437
FB125	1.25		0.437
FB125/1	1.25	0.5	0.125
FBT125/1	1.25	0.5	0.625
FB137	1.375		0.5
FBT137	1.375	0.375	0.375
FB137ARC2	1.375	0.625	0.437
FB143	1.437		0.5
FB150	1.5		0.5
FBT150/1	1.5	0.562	0.5
FB162	1.625		0.5
FB175	1.75		0.5
FBT175	1.75	0.5	0.75
FB187	1.875		0.5
FB200	2		0.5
FBT200/1	2	0.625	0.5
FB200ARC4	2	0.625	0.81

PART #	OD	HOLE	SEAL LENGTH
FB200/1	2	0.75	0.5
FB212	2.125		0.625
FB212/1	2.125	0.625	0.875
FB225	2.25		0.5
FBT225	2.25	0.75	0.375
FB237	2.375		0.5
FB250	2.5		0.5
FBT250/1	2.5	0.625	0.5
FB262	2.625		0.5
FB262ARC5	2.625	0.875	0.81
FB275	2.75		0.5
FBT275/1	2.75	0.75	0.5
FB287	2.875		0.5
FB300	3		0.625
FBT300	3	0.75	0.5
FB312	3.125		0.625
FB325	3.25		0.625
FB325ARC7	3.25	1	0.81
FB337	3.375		0.625
FB350	3.5		0.625
FBT350	3.5	0.75	1
FB362	3.625		0.625
FB375	3.75		0.625

PART #	OD	HOLE	SEAL LENGTH
FB387	3.875		0.625
FB387ARC13	3.875	1.125	0.81
FB400	4		0.625
FB412	4.125		0.75
FB425	4.25		0.625
FB450	4.5		0.625
FB462	4.625		0.625
FB475	4.75		0.625
FB475ARC15	4.75	1.25	0.81
FB500	5		0.75
FB525	5.25		0.75
FB537	5.375	1.25	0.875
FB550	5.5		0.75
FB575	5.75		0.75
FB575ARC23/1	5.75	1.5	0.81
FB600	6		0.75
FB612	6.125		0.75
FB625	6.25		0.75
FB650	6.5		0.75
FB675	6.75		0.75
FB700	7		0.75
FB700ARC23/15	7	2.75	1
FB725	7.25		0.75
FB750	7.5		0.75
FB775	7.75		0.75
FB800	8		1
FB825ARC23/16	8.25	2.75	1
FB850	8.5		1
FB900	9		1
FB950	9.5		1
FB1000	10		1

PART #	OD	HOLE	SEAL LENGTH
FB1400	14		1

Rotary Joint

SUPPLIED AS REPLACEMENT PART

NEW PIONEERING DESIGN CAN INVOLVE CONCIDERABLE DEVELOPMENT



SW



SW.....C



SW.....F

PART #	ID	OD	SEAL HEIGHT	MATERIAL

CS

HYDRAULIC CUSHION SEAL

(LIQUID CRYSTAL POLYMER RESIN)



NOMINAL DIMENSIONS ONLY

REPLACEMENT PART ONLY

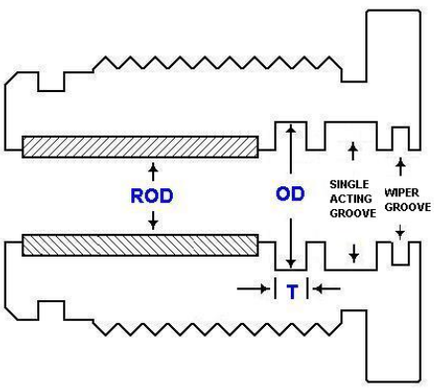
PART #	ID	OD	THICKNESS	LENGTH
CS025	25.3	29.3	2.0	3.7 / 5.0
CS035	33.5	38.5	2.5	4.7 / 6.0
CS060	59.5	64.5	2.5	4.7 / 6.0
CS065	63.5	68.5	2.5	4.7 / 6.0
CS070	69.5	74.5	2.5	4.7 / 6.0
CS075	76.5	81.5	2.5	4.7 / 6.0
CS078	78.0	88.0	5.0	6.5/8.0
CS080	78.5	83.5	2.5	4.7 / 6.0
CS085	86.5	91.5	2.5	4.7 / 6.0
CS088	88.0	98.0	5.0	6.5/8.0
CS090	89.5	94.5	2.5	4.7 / 6.0
CS093	93.0	103.0	5.0	6.5/8.0
CS095	94.5	99.5	2.5	4.7 / 6.0
CS100	99.5	104.5	2.5	4.7 / 6.0
CS105	103.5	108.5	2.5	4.7 / 6.0

BUFFER SEALS

PRIMARY GLAND SEAL

HBP HBT HBI HBY

IMPERIAL





PRESSURE

SS **BUFF** **HBY**

HBT **HBI**

TYPICALLY UP TO 5000 PSI

USUALLY INSTALLED IN TANDEM WITH SINGLE ACTING SEALS TO ABSORB SHOCK

BUFF (CATERPILLAR) STYLE INCLUDED FOR IDENTIFICATION ONLY

PART #	ROD	OD	T GROOVE	SEAL WIDTH
SS031126	0.312	0.61	0.126	0.117
SS037126	0.375	0.673	0.126	0.117
SS043126	0.437	0.735	0.126	0.117
SS050126	0.5	0.798	0.126	0.117
SS056126	0.562	0.86	0.126	0.117
SS062126	0.625	0.923	0.126	0.117
SS068126	0.687	0.985	0.126	0.117
SS075126	0.75	1.048	0.126	0.117
SS081126	0.812	1.11	0.126	0.117
SS087126	0.875	1.173	0.126	0.117
SS093126	0.937	1.235	0.126	0.117
SS100126	1	1.298	0.126	0.117
SS106126	1.062	1.36	0.126	0.117
SS112126	1.125	1.423	0.126	0.117
SS112156	1.125	1.5	0.156	0.152
SS112156V	1.125	1.5	0.165	0.156

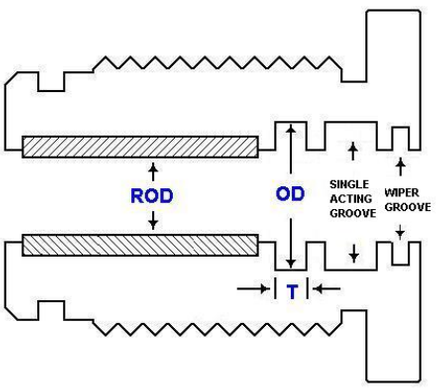
PART #	ROD	OD	T GROOVE	SEAL WIDTH
SS118126	1.187	1.485	0.126	0.117
SS125126	1.25	1.548	0.126	0.117
SS125166	1.25	1.67	0.126	0.117
BUFF125	1.25	1.783	0.135	0.112
BUFF175/1	1.25	2.39	0.135	0.112
SS131126	1.312	1.61	0.126	0.117
SS137126	1.375	1.637	0.126	0.117
SS143126	1.437	1.735	0.126	0.117
SS150126	1.5	1.798	0.126	0.117
SS150166	1.5	1.924	0.166	0.15
SS150145	1.5	2.033	0.145	0.142
BUFF150	1.5	2.05	0.135	0.112
SS150247/1	1.5	2.09	0.247	0.232
SS150247	1.5	2.116	0.247	0.232
SS162126	1.625	1.923	0.126	0.117
SS162166	1.625	2.049	0.166	0.15
SS175126	1.75	2.048	0.126	0.117
SS175166	1.75	2.174	0.166	0.15
SS175145	1.75	2.283	0.145	0.14
BUFF175	1.75	2.29	0.135	0.112
BUFF187	1.875	2.24	0.135	0.112
SS187166	1.875	2.299	0.166	0.15
SS200126	2	2.298	0.126	0.117
SS200166	2	2.424	0.166	0.15

BUFFER SEALS

PRIMARY GLAND SEAL

HBP HBT HBI HBY

IMPERIAL





PRESSURE

SS **BUFF** **HBY**

HBT **HBI**

TYPICALLY UP TO 5000 PSI

USUALLY INSTALLED IN TANDEM WITH SINGLE ACTING SEALS TO ABSORB SHOCK

PART #	ROD	OD	T GROOVE	SEAL WIDTH
HBYI200	2	2.53	0.247	0.235
SS200145	2	2.533	0.145	0.142
BUFF200	2	2.55	0.135	0.112
SS200247	2	2.594	0.262	0.247
SS200247/1	2	2.616	0.247	0.232
SS212166	2.125	2.549	0.166	0.15
BUFF212	2.125	2.6	0.135	0.112
SS225166	2.25	2.674	0.166	0.15
SS225225	2.25	2.891	0.225	0.216
BUFF225	2.25	2.92	0.207	0.187
SS237166	2.375	2.799	0.166	0.15
BUFF237	2.375	3	0.207	0.187
SS250166	2.5	2.924	0.166	0.15
SS250247	2.5	3.049	0.247	0.232
HBYI250	2.5	3.14	0.247	0.235
SS250225	2.5	3.141	0.225	0.203
BUFF250	2.5	3.18	0.207	0.187
SS262166	2.625	3.049	0.166	0.15
SS275166	2.75	3.174	0.166	0.15
SS275247	2.75	3.366	0.247	0.232
SS275225	2.75	3.391	0.225	0.203
BUFF275	2.75	3.41	0.207	0.187
HBYI275	2.75	3.42	0.247	0.235
SS287166	2.875	3.299	0.166	0.15
SS287247	2.875	3.491	0.247	0.232
SS300166	3	3.424	0.166	0.15
SS300247	3	3.616	0.247	0.232

BUFF (CATERPILLAR) STYLE INCLUDED FOR IDENTIFICATION ONLY

PART #	ROD	OD	T GROOVE	SEAL WIDTH
HBYI300	3	3.616	0.247	0.235
HBYI300/1	3	3.64	0.247	0.235
SS300225	3	3.641	0.225	0.221
BUFF300	3	3.66	0.207	0.187
SS312247	3.125	3.741	0.247	0.232
SS325247	3.25	3.866	0.247	0.232
HBYI325	3.25	3.89	0.247	0.235
SS325225	3.25	3.891	0.24	0.225
BUFF325	3.25	3.91	0.207	0.187
SS337247	3.375	3.991	0.247	0.232
SS350247	3.5	4.116	0.247	0.232
HBYI350	3.5	4.14	0.247	0.235
SS350225	3.5	4.141	0.225	0.221
BUFF350	3.5	4.15	0.207	0.187
SS362247	3.625	4.241	0.247	0.232
SS375247	3.75	4.366	0.247	0.232
SS375225	3.75	4.391	0.225	0.221
SS387247	3.875	4.491	0.247	0.232
SS400247/1	4	4.594	0.247	0.232
SS400247	4	4.616	0.247	0.232
HBYI400	4	4.64	0.247	0.235
BUFF400	4	4.662	0.207	0.187
SS400320	4	4.83	0.32	0.304
SS412247	4.125	4.741	0.247	0.232
SS412320	4.125	4.955	0.32	0.304

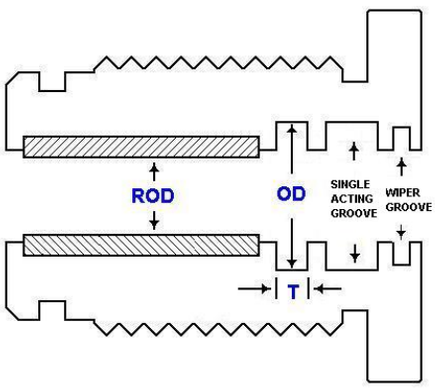
BUFFER SEALS

PRIMARY GLAND SEAL



HBP HBT HBI HBY

IMPERIAL





PRESSURE

SS **BUFF** **HBY**

HBT **HBI**

TYPICALLY UP TO 5000 PSI

USUALLY INSTALLED IN TANDEM WITH SINGLE ACTING SEALS TO ABSORB SHOCK

BUFF (CATERPILLAR) STYLE INCLUDED FOR IDENTIFICATION ONLY

PART #	ROD	OD	T GROOVE	SEAL WIDTH
SS425247	4.25	4.866	0.247	0.232
SS425320	4.25	5.08	0.32	0.304
SS425250	4.25	5.23	0.247	0.232
BUFF425	4.25	5.25	0.248	0.225
SS437247	4.375	4.991	0.247	0.232
SS437320	4.375	5.205	0.32	0.304
BUFF437	4.375	5.225	0.248	0.225
SS450247	4.5	5.116	0.247	0.232
SS450320	4.5	5.33	0.32	0.304
HBYI450	4.5	5.48	0.247	0.235
BUFF475	4.75	5.75	0.248	0.225
SS500320	5	5.83	0.32	0.304
BUFF500	5	5.96	0.248	0.225
HBYI500	5	5.96	0.247	0.235
HBYI550	5.5	6.125	0.247	0.235
BUFF575	5.75	6.75	0.248	0.216
SS600247	6	6.616	0.247	0.232
HBYI600	6	6.62	0.247	0.235
SS700247	7	7.616	0.247	0.232
HBYI800	8	8.61	0.247	0.235

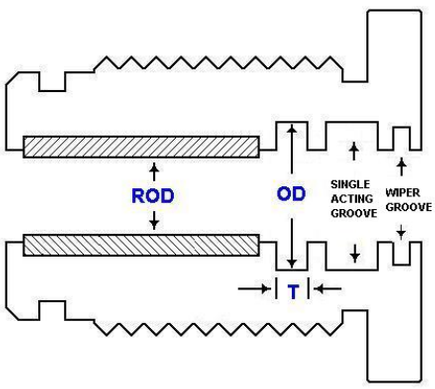
BUFFER SEALS

PRIMARY GLAND SEAL



HBP HBT HBI HBY

METRIC





PRESSURE

SS BUFF HBY

HBT HBI

TYPICALLY UP TO 5000 PSI

USUALLY INSTALLED IN TANDEM WITH SINGLE ACTING SEALS TO ABSORB SHOCK

PART #	ROD	OD	T GROOVE	SEAL WIDTH
HBT014	14	19	2	1.8
HBP014	14	19.5	3.5	3.4
HBP015	15	20.5	3.5	3.4
HBT016/1	16	20.9	2	1.8
HBT016	16	23.2	3.2	3
HBP017	17	22.5	3.5	3.4
HBT018	18	26	3	2.9
HBP019	19	26.1	4.5	4.3
HBT020/1	20	26	2	1.8
HBP020	20	27.1	4.5	4.4
HBT020A	20	27.3	3.2	3
HBT020	20	30.7	4.2	4
HBT020PU	20	31	4.2	4
HBT022/2	22	28	2	1.8
HBP022	22	29.1	4.5	4.3
HBT022/3	22	30.3	3	2.7
HBT022/1	22	30.3	3.2	3
HBT022/1PU	22	30.3	4.2	4
HBY022	22	32.7	4.2	4
HBT022	22	32.7	4.2	4
HBP023	23	30.1	4.5	4.3
HBT025/1	25	32	3.2	3
HBP025	25	32.1	4.5	4.3

BUFF (CATERPILLAR) STYLE INCLUDED FOR IDENTIFICATION ONLY

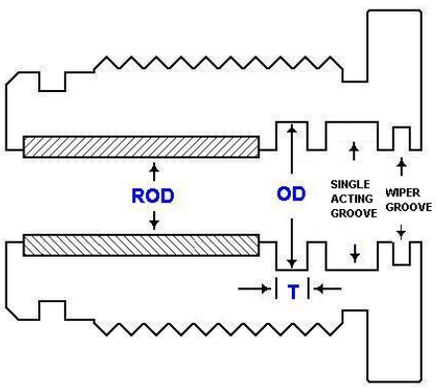
PART #	ROD	OD	T GROOVE	SEAL WIDTH
HBT025/2	25	35	4.2	4
HBT025	25	35.7	4.2	4
HBT025V	25	36	4.2	4
HBP028	28	35.1	4.5	4.3
HBT028/1	28	36	4.2	4
HBT028	28	38.7	4.2	4
HBY028	28	38.7	4.2	4
HBP030	30	37.1	4.5	4.3
HBT030/1	30	37.3	3.4	3.2
HBT030	30	40.7	4.2	4
HBT032/1	32	39.3	3.4	3.1
HBT032	32	42.7	4.2	4
HBP035	35	42.1	4.5	4.3
HBT035/2	35	42.3	3.2	3
HBT035/1	35	45	3.2	3
HBT035	35	45.7	4.2	4
HBP036	36	43.1	4.5	4.3
HBT036	36	47	4.2	4
HBP038	38	48.4	7	6.8
HBY038	38	48.7	4.2	4
HBP040	40	50.4	7	6.8
HBT040A/1	40	50.7	4.2	4
HBT040A	40	50.7	4.2	4
HBT040	40	55.1	6.3	6
HBY040	40	55.5	6.3	6
HBP045	45	55.4	7	6.8
HBT045/1	45	55.7	4.2	4

BUFFER SEALS

PRIMARY GLAND SEAL

HBP HBT HBI HBY

METRIC





PRESSURE

SS **BUFF** **HBY**

HBT **HBI**

TYPICALLY UP TO 5000 PSI

USUALLY INSTALLED IN TANDEM WITH SINGLE ACTING SEALS TO ABSORB SHOCK

PART #	ROD	OD	T GROOVE	SEAL WIDTH
HBT045/2	45	58	4.2	4
HBT045	45	60.1	6.3	6
HBY045NOK	45	60.5	6.3	6
HBY045	45	60.5	6.3	6
HBP047	47	57.4	7	6.8
HBP050	50	60.4	7	6.8
HBT050/1	50	60.7	4.2	4
HBT050/3	50	65.1	6.3	6
HBT050	50	65.1	6.3	6
HBY050	50	65.5	6.3	6
HBY050NOK	50	65.5	6.3	6
HBT052	52	66	6.3	6
HBT055/1	55	65.7	4.2	3.9
HBY055	55	70.5	6.3	6
HBT055	55	70.5	6.3	6
HBT056/1	56	66.7	4.2	4
HBT056	56	71.1	6.3	6
HBP060	60	70.4	7	6.8
HBT060	60	75.1	6.3	6
HBY060	60	75.5	6.3	6
HBT063A	63	73.3	4.2	4
HBP063	63	73.4	7	6.8
HBT063	63	78.1	6.3	6
HBY063	63	78.5	6.3	6
HBT065	65	80.1	6.3	6
HBY065	65	80.5	6.3	6

BUFF (CATERPILLAR) STYLE INCLUDED FOR IDENTIFICATION ONLY

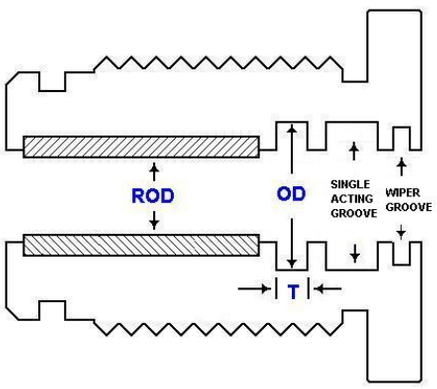
PART #	ROD	OD	T GROOVE	SEAL WIDTH
HBP070	70	80.4	7	6.8
HBT070/1	70	82	4.2	3.9
HBT070PU	70	85.1	6.3	6
HBT070	70	85.1	6.3	6
HBY070NOK	70	85.5	6.3	6
HBY070	70	85.5	6.3	6
HBT072	72	82.7	4.2	4
HBT073	73	88.5	6.3	6
HBT075	75	90.5	6.3	6
HBY075	75	90.5	6.3	6
HBT080/1	80	90.7	4.2	4
HBT080	80	95.1	6.3	6
HBT080/2	80	95.1	6.3	6
HBY080	80	95.5	6.3	6
HBY080NOK	80	95.5	6.3	6
HBT083	83	93.7	4.2	4
HBT085	85	100.1	6.3	6
HBY085	85	100.5	6.3	6
HBY085NOK	85	100.5	6.3	6
HBT090	90	105.1	6.3	6
HBY090	90	105.5	6.3	6
HBY090NOK	90	105.5	6.3	6
HBY090/1	90	105.5	8.8	8.5
HBT095	95	110.1	6.3	6
HBY095	95	110.5	6.3	6

BUFFER SEALS

PRIMARY GLAND SEAL

HBP HBT HBI HBY

METRIC





PRESSURE

SS **BUFF** **HBY**

HBT **HBI**

TYPICALLY UP TO 5000 PSI

USUALLY INSTALLED IN TANDEM WITH SINGLE ACTING SEALS TO ABSORB SHOCK

PART #	ROD	OD	T GROOVE	SEAL WIDTH
HBY095NOK	95	110.5	6.3	6
HBT100/2	100	110	5.2	4.9
HBT100/1	100	110.7	4.1	4
HBT100	100	115.1	6.3	6
HBY100	100	115.5	6.3	6
HBY100NOK	100	115.5	6.3	6
HBY105	105	120.5	6.3	6
HBY105NOK	105	120.5	6.3	6
HBT105	105	120.5	6.3	6
HBT108	108	123.1	6.3	6
HBT110/1	110	120	5.2	4.9
HBT110	110	125.1	6.3	6
HBY110K	110	125.5	6.3	6
HBY110NOK	110	125.5	6.3	6
HBT115/1	115	125	5.2	4.9
HBT115	115	130.1	6.3	6
HBY115	115	130.5	6.3	6
HBY115NOK	115	130.5	6.3	6
HBT120/1	120	130	5.2	4.9
HBT120	120	135.1	6.3	6
HBY120	120	135.5	6.3	6
HBY120NOK	120	135.5	6.3	6
HBT125/1	125	135	5.2	4.9
HBY125	125	140.5	6.3	6
HBT125	125	145.1	6.3	6
HBT128	128	143.5	6	5.8

BUFF (CATERPILLAR) STYLE INCLUDED FOR IDENTIFICATION ONLY

PART #	ROD	OD	T GROOVE	SEAL WIDTH
HBT130	130	145.1	6.3	6
HBY130NOK	130	145.5	6.3	6
HBY130	130	145.5	6.3	6
HBT134	134	146	4.2	4
HBT135	135	150.1	6.3	6
HBY135	135	150.5	6.3	6
HBT140	140	155.5	6.3	6
HBY140NOK	140	155.5	6.3	6
HBY140	140	155.5	6.3	6
HBY150NOK	150	165.5	6.3	6
HBT150	150	165.5	6.3	6
HBY150	150	165.5	6.3	6
HBY155	155	170.5	6.3	6
HBY160	160	175.5	6.3	6
HBY160NOK	160	175.5	6.3	6
HBT160	160	175.5	6.3	6
HBT165	165	180	6.3	6
HBT170KYB	170	185.1	6.3	6
HBT170	170	185.1	6.3	6
HBY170	170	185.5	6.3	6
HBY170NOK	170	185.5	6.3	6
HBT170/1	170	190.5	8.1	7.7
HBT175	175	190.5	6	5.8

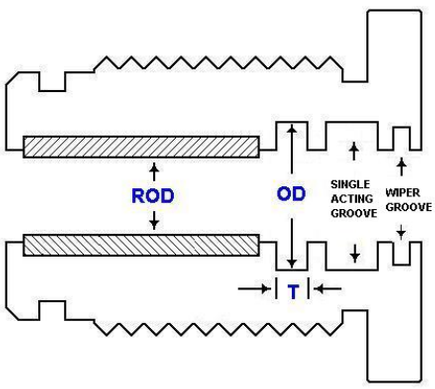
BUFFER SEALS

PRIMARY GLAND SEAL



HBP HBT HBI HBY

METRIC





PRESSURE

SS **BUFF** **HBY**

HBT **HBI**

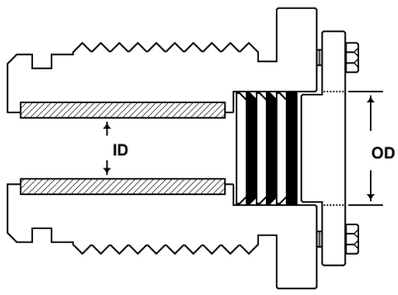
TYPICALLY UP TO 5000 PSI

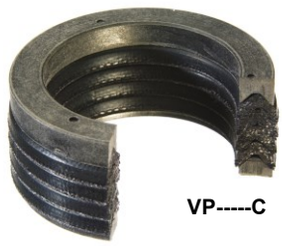
USUALLY INSTALLED IN TANDEM WITH SINGLE ACTING SEALS TO ABSORB SHOCK

BUFF (CATERPILLAR) STYLE INCLUDED FOR IDENTIFICATION ONLY

PART #	ROD	OD	T GROOVE	SEAL WIDTH
HBT180	180	195.1	6.3	6
HBT185	185	200.5	6.3	6
HBT190	190	205.1	6.3	6
HBT200	200	220.5	8.1	7.7
HBT200PTFE	200	220.5	8.1	7.7
HBT210	210	230.5	8.1	7.7
HBY210NOK	210	231	8	7.7
HBT220	220	240.5	8.1	7.7
HBT230	230	250.5	8.1	7.7
HBT240	240	260.5	8.1	7.7
HBT250	250	270.5	8.1	7.7
HBT260	260	284	8.1	7.7
HBT270	270	294	8.1	7.7
HBT280	280	304	8.1	7.7
HBT310	310	334	8.1	7.7

VEE PACKING







MAXIMUM 10,000 PSI

EXTRA VEES NORMALLY AVAILABLE

HEAVY DUTY ROD / PISTON SEA

STANDARD PACKING

NYLON MALE/FEMALE ADAPTORS

RUBBER FABRIC SEALING VEES

HYDRA LOCK PACKING

NYLON MALE/FEMALE ADAPTORS

KEEPER RING INCLUDED

POLYURETHANE SEALING VEES

Tighten gland nut until 'snug' --- then give 1/4 turn --DO NOT over tighten

IMPERIAL VEE PACKING

PART #	ID	OD	NOMINAL HOUSING LENGTH
VP025100C	0.25	1	1.187
VP037087PTFE	0.375	0.875	1.125
VP037100C	0.375	1	1.031
VP043081C	0.437	0.812	0.74
VP050087C	0.5	0.875	0.74
VP050100C	0.5	1	0.875
VP062093C	0.625	0.937	0.656
VP062100C	0.625	1	0.74
VP062112C	0.625	1.125	0.875
VP062125C	0.625	1.25	1.031
VP068118C	0.687	1.187	1
VP075112C	0.75	1.125	0.74
VP075125C	0.75	1.25	0.875
VP075137C	0.75	1.375	1.031
VP075150C	0.75	1.5	1.187
VP075162C	0.75	1.625	1.3
VP081131C	0.812	1.312	0.875
VP087125C	0.875	1.25	0.74
VP087137C	0.875	1.375	0.875
VP087150C	0.875	1.5	1.031
VP100137C	1	1.375	0.74
VP100150C	1	1.5	0.875
VP100162C	1	1.625	1.031
VP100175C	1	1.75	1.187
VP112162C	1.125	1.625	0.875
VP112175C	1.125	1.75	1.031

PART #	ID	OD	NOMINAL HOUSING LENGTH
VP118168C	1.187	1.687	0.875
VP118181C	1.187	1.812	1.125
VP125175C	1.25	1.75	0.875
VP125187C	1.25	1.875	1.031
VP125200C	1.25	2	1.187
VP125225C	1.25	2.25	1.5
VP137175C	1.375	1.75	0.74
VP137187C	1.375	1.875	0.875
VP137200C	1.375	2	1.031
VP137212C	1.375	2.125	1.187
VP143206C	1.437	2.062	1.031
VP150200C	1.5	2	0.875
VP150200HL	1.5	2	1
VP150206C	1.5	2.062	1.125
VP150212C	1.5	2.125	1.031
VP150225C	1.5	2.25	1.187
VP150250C	1.5	2.5	1.5
VP162212C	1.625	2.125	0.875
VP162225C	1.625	2.25	1.031
VP175225C	1.75	2.25	0.875
VP175225CNBR	1.75	2.25	0.875
VP175237C	1.75	2.375	1.031
VP175250C	1.75	2.5	1.187
VP175275C	1.75	2.75	1.5
VP187237C	1.875	2.375	0.875
VP187250C	1.875	2.5	1.031
VP187262C	1.875	2.625	1.187

IMPERIAL VEE PACKING

PART #	ID	OD	NOMINAL HOUSING LENGTH
VP193243C	1.937	2.437	0.875
VP200250C	2	2.5	0.875
VP200250HL	2	2.5	1
VP200256C	2	2.562	1
VP200262C	2	2.625	1.031
VP200275C	2	2.75	1.187
VP200300C	2	3	1.5
VP212262C	2.125	2.625	1
VP212275C	2.125	2.75	1.031
VP212287C	2.125	2.875	1.187
VP218293C	2.187	2.937	1.187
VP225275C	2.25	2.75	0.875
VP225287C	2.25	2.875	1.031
VP225300C	2.25	3	1.187
VP225300CNBR	2.25	3	1.187
VP225325C	2.25	3.25	1.5
VP237287C	2.375	2.875	0.875
VP237300C	2.375	3	1.031
VP237312C	2.375	3.125	1.187
VP250287C	2.5	2.875	0.74
VP250300C	2.5	3	0.875
VP250300HL	2.5	3	1
VP250312C	2.5	3.125	1.031
VP250325C	2.5	3.25	1.187
VP250337C	2.5	3.375	1.3
VP250350C	2.5	3.5	1.5
VP275325C	2.75	3.25	0.875
VP275337C	2.75	3.375	1.031
VP275350C	2.75	3.5	1.187
VP275375C	2.75	3.75	1.5
VP287337C	2.875	3.375	0.875
VP287362C	2.875	3.625	1.187
VP293393C	2.937	3.937	1.765
VP300350C	3	3.5	0.875
VP300350HL	3	3.5	1
VP300362C	3	3.625	1.031
VP300375C	3	3.75	1.187
VP300400C	3	4	1.5
VP312350C	3.125	3.5	0.74
VP312387C	3.125	3.875	1.187
VP325362C	3.25	3.625	0.74
VP325375C	3.25	3.75	1.125
VP325400C	3.25	4	1.187
VP325425C	3.25	4.25	1.5
VP337387C	3.375	3.875	0.875

PART #	ID	OD	NOMINAL HOUSING LENGTH
VP337400C	3.375	4	1.031
VP337412C	3.375	4.125	1.187
VP340400C	3.4	4	
VP350400C	3.5	4	0.875
VP350400HL	3.5	4	1
VP350412C	3.5	4.125	1.031
VP350425C	3.5	4.25	1.187
VP350450C	3.5	4.5	1.5
VP375425/1C	3.75	4.25	
VP375425C	3.75	4.25	0.875
VP375437C	3.75	4.375	1.031
VP375450C	3.75	4.5	1.187
VP400450C	4	4.5	0.875
VP400450HL	4	4.5	1
VP400462C	4	4.625	1.031
VP400475C	4	4.75	1.187
VP400500C	4	5	1.5
VP400512C	4	5.125	1.75
VP400525C	4	5.25	
VP406481C	4.062	4.812	1.187
VP425475C	4.25	4.75	0.875
VP425500C	4.25	5	1.187
VP425512C	4.25	5.125	1.3
VP425525C	4.25	5.25	1.5
VP450500C	4.5	5	0.875
VP450500HL	4.5	5	1
VP450525C	4.5	5.25	1.187
VP450537C	4.5	5.375	1.3
VP450550C	4.5	5.5	1.5
VP475525C	4.75	5.25	0.875
VP475537C	4.75	5.375	1.031
VP475550C	4.75	5.5	1.187
VP475562C	4.75	5.625	1.3
VP475575C	4.75	5.75	1.5
VP500550C	5	5.5	0.875
VP500550HL	5	5.5	1
VP500562C	5	5.625	1.031
VP500575C	5	5.75	1.187
VP500587C	5	5.875	1.3
VP500600C	5	6	1.5
VP500625C	5	6.25	2.375
VP512562C	5.125	5.625	0.875
VP525575C	5.25	5.75	0.875
VP525600C	5.25	6	1.187
VP525625C	5.25	6.25	1.5
VP537625C	5.375	6.25	1.3

IMPERIAL VEE PACKING

PART #	ID	OD	NOMINAL HOUSING LENGTH
VP550600C	5.5	6	0.875
VP550600HL	5.5	6	1.75
VP550625C	5.5	6.25	1.187
VP550637C	5.5	6.375	1.3
VP550650C	5.5	6.5	1.5
VP575625C	5.75	6.25	0.875
VP575637C	5.75	6.375	1.031
VP575650C	5.75	6.5	1.187
VP575675C	5.75	6.75	1.5
VP587637C	5.875	6.375	0.875
VP600650C	6	6.5	0.875
VP600650025HL	6	6.5	1.75
VP600675C	6	6.75	1.187
VP600700C	6	7	1.5
VP625687C	6.25	6.875	1.031
VP625700C	6.25	7	1.187
VP637700C	6.375	7	
VP650700C	6.5	7	0.875
VP650725C	6.5	7.25	1.187
VP650750C	6.5	7.5	1.5
VP650775C	6.5	7.75	1.562
VP675737C	6.75	7.375	1.031
VP675750C	6.75	7.5	1.187
VP687787C	6.875	7.875	1.5
VP700750C	7	7.5	0.875
VP700750HL	7	7.5	1
VP700800C	7	8	1.5
VP725775C	7.25	7.75	0.875
VP750800C	7.5	8	0.875
VP750800HL	7.5	8	1.05
VP750812C	7.5	8.125	1.031
VP750825C	7.5	8.25	
VP750850C	7.5	8.5	1.5
VP800850C	8	8.5	0.875
VP800900C	8	9	1.5
VP812862C	8.125	8.625	0.875
VP825875C	8.25	8.75	0.875
VP825900C	8.25	9	1.187
VP850900HL	8.5	9	1.05
VP850975C	8.5	9.75	2.062
VP875937C	8.75	9.375	1.031

PART #	ID	OD	NOMINAL HOUSING LENGTH
VP900950C	9	9.5	0.875
VP900975C	9	9.75	1.187
VP9001000C	9	10	1.5
VP9001025C	9	10.25	1.812
VP912975C	9.125	9.75	1.031
VP937987C	9.375	9.875	0.875
VP9371000C	9.375	10	1.031
VP9621012C	9.625	10.125	0.875
VP9751050C	9.75	10.5	1.187
VP10001100C	10	11	1.5
VP10001125C#	10	11.25	
VP10501200C	10.5	12	
VP11001200C	11	12	1.5
VP12501425C	12.5	14.25	2.875

METRIC VEE PACKING

PART #	ID	OD	NOMINAL HOUSING LENGTH
VPM00801818.5	8	18	18.5
VPM01002018.5	10	20	18.5
VPM01202218.5	12	22	18.5
VPM013.502516.5	13.5	25	16.5
VPM01402418.5	14	24	18.5
VPM01502518.5	15	25	18.5
VPM01503225	15	35	25
VPM01602618.5	16	26	18.5
VPM01802818.5	18	28	18.5
VPM01803223.5	18	32	23.5
VPM02003018.5	20	30	18.5
VPM02203422.5	22	34	22.5
VPM02303510.4	23	35	10.4
VPM02403610.4	24	36	10.4
VPM02503722.5	25	37	22.5
VPM02504022.5	25	40	22.5
VPM02704211	27	42	11
VPM02804022.5	28	40	22.5
VPM02804322.5	28	43	22.5
VPM03004222.5	30	42	22.5
VPM03004522.5	30	45	22.5
VPM03005037	30	50	37
VPM03204422.5	32	44	22.5
VPM03204722.5	32	47	22.5
VPM03504722.5	35	47	22.5
VPM03505022.5	35	50	22.5
VPM03604822.5	36	48	22.5
VPM03605122.5	36	51	22.5
VPM03705328	37	53	28
VPM037.4055VUHM	37.4	55	
VPM037.4055VPTF	37.4	55	25
VPM04005222.5	40	52	22.5
VPM04005522.5	40	55	22.5
VPM04005622.5	40	56	22.5
VPM04005630	40	56	30
VPM04006030	40	60	30
VPM04105611	41	56	11

PART #	ID	OD	NOMINAL HOUSING LENGTH
VPM04205422.5	42	54	22.5
VPM04205722.5	42	57	22.5
VPM04506022.5	45	60	22.5
VPM04506226	45	62	26
VPM04506522.5	45	65	22.5
VPM04506527.5	45	65	27.5
VPM04706533	47	65	33
VPM04806312.5	48	63	12.5
VPM04806322.5	48	63	22.5
VPM05006522.5	50	65	22.5
VPM05006524.6	50	65	24.6
VPM05007030	50	70	30
VPM05506724	55	67	24
VPM05507022.5	55	70	22.5
VPM05507026.5	55	70	26.5
VPM05507530	55	75	30
VPM05607122.5	56	71	22.5
VPM05607249	56	72	49
VPM05607637	56	76	37
VPM06007522.5	60	75	22.5
VPM06007727	60	77	27
VPM060080C	60	80	30
VPM06008037	60	80	37
VPM06008537	60	85	37
VPM06307822.5	63	78	22.5
VPM06308337	63	83	37
VPM063.507840	63.5	78	41
VPM06508022.5	65	80	22.5
VPM06508026	65	80	26
VPM06508540	65	85	40
VPM07008522.5	70	85	22.5
VPM07009040	70	90	40
VPM07508725	75	87	25
VPM07509022.5	75	90	22.5
VPM07509540	75	95	40
VPM07510034	75	100	34
VPM08009522.5	80	95	22.5
VPM08010030	80	100	30
VPM08010040	80	100	40
VPM08510022.5	85	100	22.5
VPM08510540	85	105	40
VPM09010522.5	90	105	22.5
VPM09011022.5	90	110	22.5

METRIC VEE PACKING

PART #	ID	OD	NOMINAL HOUSING LENGTH
VPM09011040	90	110	40
VPM09512050	95	120	50
VPM10011530	100	115	30
VPM10012525	100	120	25
VPM10012040	100	120	40
VPM10512030	105	120	30
VPM10512540	105	125	40
VPM10513033	105	130	33
VPM10513040	105	130	40
VPM11012530	110	125	30
VPM11013040	110	130	40
VPM11513030	115	130	30
VPM11513530	115	135	30
VPM11514046	115	140	46
VPM12014049	120	140	49
VPM12014546	120	145	46
VPM12015028	120	150	28
VPM12514034	125	140	34
VPM12515046	125	140	46
VPM13015029	130	150	29
VPM13015542.5	130	155	42.5
VPM13016028	130	160	28
VPM13516055	130	160	55
VPM13516040	135	160	40
VPM14015534	140	155	34
VPM14016546	140	165	46
VPM14517038.1	145	170	38.1
VPM15017040	150	170	40
VPM15018030.5	150	180	30.5
VPM15018060	150	180	60
VPM16018040	160	180	40
VPM16018541	160	185	41
VPM16019060	160	190	60
VPM16519550.5	160	195	50.5
VPM17020032.5	170	200	32.5
VPM17520042	175	200	42
VPM18021060	180	210	60
VPM19022042	190	220	42
VPM19522532.5	195	225	32.5
VPM20022040	200	220	40
VPM20022544	200	225	44

PART #	ID	OD	NOMINAL HOUSING LENGTH
VPM20023060	200	230	60
VPM21024050	210	240	50
VPM21223734	212	237	32
VPM22025033.8	220	250	33.8
VPM22025052	220	250	52
VPM23026048.5	230	260	48.5
VPM24027048	240	270	48
VPM24027060	240	270	60
VPM24527532.5	245	275	32.5
VPM25027042	250	270	42
VPM25028042	250	280	42
VPM25028054	250	280	42
VPM26029060	260	290	60
VPM27030055	270	300	45
VPM29032035	290	320	35
VPM30033060	300	330	60
VPM31034060	310	340	60
VPM32035060	320	350	60
VPM32036046	320	360	46
VPM33036060	330	360	60
VPM36039060	360	390	60
VPM37040055	370	400	55
VPM40043046	400	430	46
VPM40044065	400	440	65
VPM42046080	420	460	80
VPM44048068	440	480	68
VPM45049065	450	490	65

COVER SEAL

STATIC SEAL

INTERCHANGE WITH ORINGS / ORING and BACKUP



K83

Seals on ID only



K84

Seals on OD only



K85

Seals both ID and OD

Housing Dimensions

PART #	OD	ID	HT	
K84E-014	14	11	2.6	
K85-218	38.1	31.75	5.28	Imperial Oring 218 with 1 Backup
K85-222	44.45	38.1	5.28	Imperial Oring 222 With 1 Backup
K85-223	47.62	41.27	5.28	Imperial Oring 223 With 1 Backup
K85-326	50.8	41.27	7.89	Imperial Oring 326 with 1 Backup
K85-224	50.8	44.45	5.28	Imperial Oring 224 with 1 Backup
K85-133	50.8	46.03	4.34	Imperial Oring 133 with 1 backup
K85-226	57.15	50.8	5.28	Imperial Oring 226 with 1 Backup
K85-330	63.5	53.97	7.89	Imperial Oring 330 with 1 Backup
K85-228	63.5	57.15	5.28	Imperial Oring 228 with 1 Backup
K85-229	66.67	60.32	5.28	Imperial Oring 229 with 1 Backup
K85-230	69.85	63.5	5.28	Imperial Oring 230 With 1 Backup
K85-070T	70	65	5	
K85-075	75	69.6	6.2	
K85-334	76.2	66.67	7.89	Imperial Oring 334 with 1 Backup
K85-232	76.2	69.85	5.28	Imperial Oring 232 with 1 Backup
K85-233	79.37	73.02	5.28	Imperial Oring 233 with 1 Backup
K85-234	82.55	76.2	5.28	Impeeial Oring 234 with 1 Backup
K85-338	88.9	79.37	7.89	Imperial Oring 338 with 1 Backup
K85-236	88.9	82.55	5.28	Imperial Oring 236 with 1 Backup

COVER SEAL

STATIC SEAL

INTERCHANGE WITH ORINGS / ORING and BACKUP



K83

Seals on ID only



K84

Seals on OD only



K85

Seals both ID and OD

Housing Dimensions

PART #	OD	ID	HT	
K85-237	92.07	85.72	5.28	Imperial Oring 237 with 1 Backup
K85-340	95.25	85.72	7.89	Imperial Oring 340 with 1 Backup
K85-238	95.25	88.9	5.28	Imperial Oring 238 with 1 Backup
K85-342	101.6	92.07	7.89	Imperial Oring 342 with 1 Backup
K85-240	101.6	95.25	5.28	Imperial Oring 240 with 1 Backup
K85-343	104.77	95.25	7.89	Imperial Oring 343 with 1 Backup
K83I-100	105.6	100	6.2	
K85-242	107.95	101.6	5.28	Imperial Oring 242 with 1 Backup
K85-346	114.3	104.77	7.89	Imperial Oring 346 with 1 Backup
K85-244	114.3	107.95	5.28	Imperial Oring 244 with 1 Backup
K85-347	117.47	107.95	7.89	Imperial Oring 347 with 1 Backup
K85-348	120.65	111.12	7.89	Imperial Oring 348 with 1 Backup
K85-246	120.65	114.3	5.28	Imperial Oring 246 with 1 Backup
K85-425	127	114.3	10.36	Imperial Oring 425 with 1 Backup
K85-350	127	117.47	7.89	Imperial Oring 350 with 1 Backup
K85-248	127	120.65	5.28	Imperial Oring 248 with 1 Backup
K85-249	130.17	123.82	5.28	Imperial Oring 249 with 1 Backup
K85-352	133.35	123.82	7.89	Imperial Oring 352 with 1 Backup
K85-250	133.35	127	5.28	Imperial Oring 250 with 1 Backup
K85-354	139.7	130.17	7.89	Imperial Oring 354 with 1 Backup
K85-252	139.7	133.35	5.28	Imperial Oring 252 with 1 Backup
K85-356	146.05	136.52	7.89	Imperial Oring 356 with 1 Backup

COVER SEAL

STATIC SEAL

INTERCHANGE WITH ORINGS / ORING and BACKUP



K83

Seals on ID only



K84

Seals on OD only



K85

Seals both ID and OD

Housing Dimensions

PART #	OD	ID	HT	
K85-433	152.4	139.7	10.36	Imperial Oring 433 with 1 Backup
K85-358	152.4	142.87	7.89	Imperial Oring 358 with 1 Backup
K85-256	152.4	146.05	5.28	Imperial Oring 256 with 1 Backup
K85-435	158.75	146.05	10.36	Imperial Oring 435 with 1 Backup
K85-437	165.1	152.4	10.36	Imperial Oring 437 with 1 Backup
K85-259	165.1	158.75	5.28	Imperial Oring 259 with 1 Backup
K85-439	177.8	165.1	10.36	Imperial Oring 439 with 1 Backup
K85-443	203.8	190.5	10.36	Imperial Oring 443 with 1 Backup
K85-446	228.6	215.9	10.36	imperial Oring 446 with 1 Backup
K85-448	254	241.3	10.36	Imperial Oring 448 with 1 Backup
K85-452	304.8	292.1	10.36	Imperial Oring 452 with 1 Backup
K85-453	317.5	304.8	10.36	Imperial Oring 453 with 1 Backup

WATER PUMP SEALS

SEALS INTENDED FOR COLD WATER ONLY

For WIND MILL cup seals SEE PAGE W130



1PC

BROWN FABRIC RESIN



2PC

BROWN FABRIC RESIN

WITH ENERGISER



3PC

BROWN FABRIC RESIN

WITH ENERGISER

AND BACKUP

PART #	ID	OD	SEAL LENGTH
WDS12X20X5.61P	12	20	5.6
WDS12X20X5.81P	12	20	5.8
WDS12X20X62PC	12	20	6
WDS13X20X51PC	13	20	5
WDS14X22X5E	14	22	
WDS14X22X5.81P	14	22	5.8
WDS14X22X61PC	14	22	6
WDS14X22X72PC	14	22	7
WDS14X24X93PC	14	24	9
WDS15X24X8.53P	15	24	8.5
WDS15X28X103PC	15	28	10
WDS15X28X7/12P	15	28	7
WDS15X30X7.22P	15	30	7.2
WDS16X24X5.21P	16	24	5.2
WDS16X24X5.81P	16	24	5.8
WDS16X24X61PC	16	24	6
WDS16X26X93PC	16	26	9
WDS18X26X5.81P	18	26	5.8
WDS18X26X61PC	18	26	6
WDS18X28X103PC	18	28	10
WDS018283.5E#	18	28	3.5
WDS18X28X82PC	18	28	8
WDS18X30X7.22P	18	30	7.2
WDS18X30X93PC	18	30	9
WDS20X28X5.51P	20	28	5.5
WDS20X30X103PC	20	30	10
WDS02030.5E#	20	30	3.5

WATER PUMP SEALS

SEALS INTENDED FOR COLD WATER ONLY

For WIND MILL cup seals SEE PAGE W130



1PC

BROWN FABRIC RESIN



2PC

BROWN FABRIC RESIN

WITH ENERGISER



3PC

BROWN FABRIC RESIN

WITH ENERGISER

AND BACKUP

PART #	ID	OD	SEAL LENGTH
WDS20X30X7.22P	20	30	7.2
WDS20X30X93PC	20	30	9
WDS20X35X103PC	20	35	10
WDS02035.5E#	20	35	3.5
WDS20X35X8.32P	20	35	8.3
WDS22X30X61PC	22	30	6
WDS22X30X72PC	22	30	7
WDS22X32X103PC	22	32	10
WDS22X35X103PC	22	35	10
WDS022354E#	22	35	4
WDS22X35X8.32P	22	35	8.3
WDS24X32X5.81P	24	32	5.8
WDS24X32X72PC	24	32	7
WDS24X34X103PC	24	34	10
WDS25X35X103PC	25	35	10
WDS25X35X8.32P	25	35	8.3
WDS26X32X6.71P	26	32	6.7
WDS26X33X4.31P	26	33	4.3
WDS28X38X103PC	28	38	10
WDS28X40X103PC	28	40	10
WDS28X40X82PC	28	40	8
WDS42X50X61PC	42	50	6

WATER PUMP SEALS

SEALS INTENDED FOR COLD WATER ONLY

For WIND MILL cup seals SEE PAGE W124



WVA

HARD BROWN FABRIC RESIN

HIGH PRESSURE



WVB

NITRILE RUBBER FABRIC

LOW PRESSURE

PART #	ID	OD	SEAL LENGTH
WVA15X25X5	15	25	5
WVB15X25X6	15	25	6
WVA15X28X6.5	15	28	6.5
WVA15X30X7.5	15	30	7.5
WVA16X30X7	16	30	7
WVB16X30X8.5	16	30	8.5
WVA18X26X5	18	26	5
WVA18X28X5.5	18	28	5.5
WVA18X28X6	18	28	6
WVA18X30X6	18	30	6
WVB18X30X7	18	30	7
WVA18X32X7.1	18	32	7.1
WVA20X30X5.5BR	20	30	5.5
WVA20X30X5.5	20	30	5.5
WVB20X30X7.5	20	30	7.5
WVA20X32X6.7	20	32	6.7
WVA20X35X7.5	20	35	7.5
WVB20X35X9	20	35	9
WVA22X32X5.7	22	32	5.7
WVA22X35X7	22	35	7
WVB22X35X9	22	35	9
WVA22X38X8.5	22	38	8.5
WVA24X35X6	24	35	6
WVA25X35X5.5	25	35	5.5
WVA25X37X6.7	25	37	6.7
WVA25X38X7	25	38	7
WVA28X38X6	28	38	6
WVA30X45X7.5	30	45	7.5
WVB30X45X9.5	30	45	9.5
WVA36X48X6	36	48	6

WATER PUMP SEALS

SEALS INTENDED FOR COLD WATER ONLY

For WIND MILL cup seals SEE PAGE W124



WVA

HARD BROWN FABRIC RESIN

HIGH PRESSURE



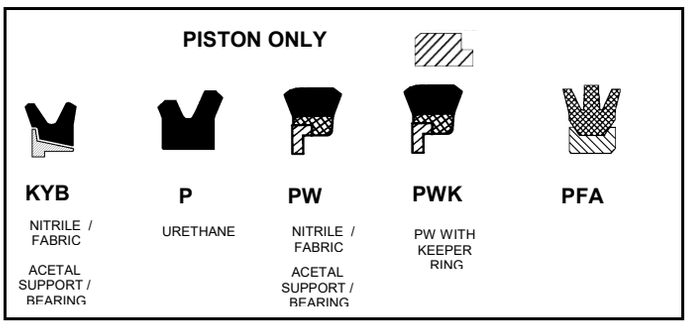
WVB

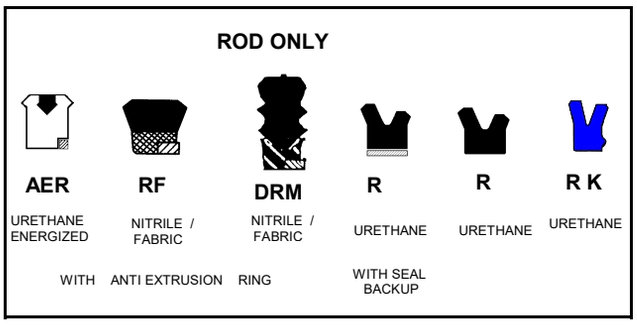
NITRILE RUBBER FABRIC

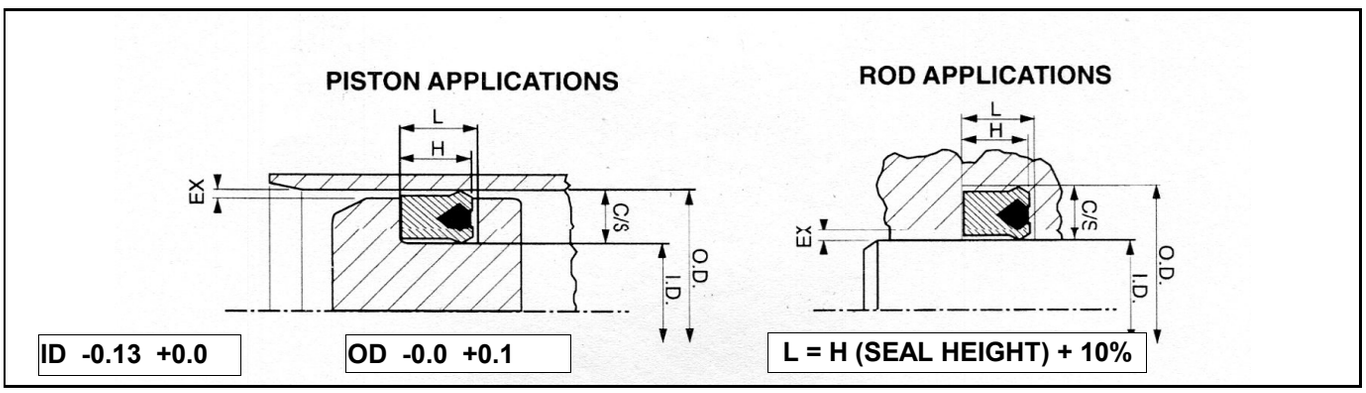
LOW PRESSURE

PART #	ID	OD	SEAL LENGTH
WVB36X48X7.5	36	48	7.5
WVA36X56X10	36	56	10
WVA38X48X6	38	48	6
WVA45X60X7.5	45	60	7.5
WVB45X60X9	45	60	9
WVA50X60X5.5	50	60	5.5
WVA50X65X7.5	50	65	7.5
WVA55X65X5.5	55	65	5.5
WVA55X70X7.5	55	70	7.5

SINGLE ACTING (METRIC)

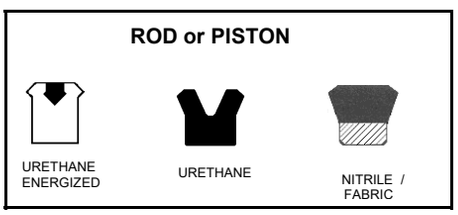






TYPE -- *KYB* **PISTON ONLY**

TYPE -- *DRM* **ROD ONLY**



SHOCK LOADING ? -- BUFFER SEALS and/or BACKUPS MAY ALSO BE REQUIRED

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM00300803.5	3	8	3.5
SM00301006	3	10	6
SM00401004	4	10	4
SM00401006	4	10	6
SM00401105	4	11	5
SM00401204	4	12	4
SM00401205.5	4	12	5.5
SM004.5009.504	4.5	9.5	4
SM004.501104.5	4.5	11	4.5
SM004.501105	4.5	11	5
SM004.5012.504P	4.5	12.5	4
SM004.5012.5045	4.5	12.5	4.5
SM00501004	5	10	4
SM00501005	5	10	5
BRT00511	5	11	4
SM00501105	5	11	5

PART #	ID	OD	H
SM00501107	5	11	7
SM00501108	5	11	8
SM00501205	5	12	5
SM00501205.5	5	12	5.5
SM00501206	5	12	6
SM00501206.3	5	12	6.3
SM00501208	5	12	8
SM00501404.5	5	14	4.5
SM00501406	5	14	6
SM00501408	5	14	8
SM00501508P	5	15	8
SM00501606	5	16	6
SM00501608	5	16	8
SM005.5012.55.5	5.5	12.5	5.5
SM00600903.5R	6	9	3.5
SM00600903.5R-K	6	9	3.5
SM00601003	6	10	3

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM00601005	6	10	5
SM00601204	6	12	4
SM00601205	6	12	5
SM00601205.5	6	12	5.5
SM00601206	6	12	6
SM00601207	6	12	7
SM00601208	6	12	8
SM00601305	6	13	5
SM00601305R	6	13	5
SM00601305.5	6	13	5.5
SM00601308	6	13	8
SM006013.505	6	13.5	5
SM00601404	6	14	4
SM00601405	6	14	5
SM00601405.7R	6	14	5.7
SM00601405.8R	6	14	5.8
SM00601406	6	14	6
SM00601406P	6	14	6
SM00601408P	6	14	8
SM00601408	6	14	8
SM00601505	6	15	5
SM00601506	6	15	6
SM00601508	6	15	8
SM00601605	6	16	5
SM00601606	6	16	6
SM00601608	6	16	8
SM00601610P	6	16	10
SM00602008	6	20	8
SM006.3016.308	6.3	16.3	8
SM00701407	7	14	7
SM00701505	7	15	5
SM00701507	7	15	7
SM007.1017.108	7.1	17.1	8
SM00801204	8	12	4
SM00801205	8	12	5
SM00801404	8	14	4
SM00801404R	8	14	4
SM00801406	8	14	6
SM00801408	8	14	8
SM00801505	8	15	5
SM00801506	8	15	6
SM00801508	8	15	8
SM00801604	8	16	4
SM00801605.5P	8	16	5.5
SM00801605.7	8	16	5.7
SM00801606	8	16	6
SM00801608	8	16	8
SM00801808	8	18	8
SM00801908	8	19	8
SM00802008	8	20	8
SM00802008R	8	20	8
SM00802210	8	22	10

PART #	ID	OD	H
SM008.401605.8	8.4	16	5.8
SM008.6013.831P	8.6	13.8	3.1
SM00901508P	9	15	8
SM00901604	9	16	4
SM00901605.5P	9	16	5.5
SM00901606	9	16	6
SM00901705.5	9	17	5.5
SM00901706	9	17	6
SM00901906	9	19	6
SM00901908	9	19	8
BRT009.75012.7	9.75	12.7	1
SM010013.602.3R	10	13.6	2.3
SM01001402.5	10	14	2.5
SM01001404	10	14	4
SM01001404R	10	14	4
SM010014.53.6PS	10	14.5	3.6
SM01001503	10	15	3
SM01001504	10	15	4
SM01001604	10	16	4
SM01001604.5R	10	16	4.5
SM01001605.5P	10	16	5.5
SM01001606	10	16	6
SM01001608	10	16	8
SM01001608P	10	16	8
SM01001706.3F	10	17	6.3
SM01001804	10	18	4
SM01001805	10	18	5
SM01001805.5	10	18	5.5
SM01001806	10	18	6
SM01001808	10	18	8
SM01002004.5R	10	20	4.5
SM01002005	10	20	5
SM01002006	10	20	6
SM01002007	10	20	7
SM01002008	10	20	8
SM01002206	10	22	6
SM01002208	10	22	8
SM01002510	10	25	10
SM01002608	10	26	8
SM01002609.5	10	26	9.5
SM01002810	10	28	10
SM01101704	11	17	4
SM01101704.5	11	17	4.5
SM011.2019.205	11.2	19.2	5
SM011.2021.208	11.2	21.2	8
SM011.301603.5R	11.3	16	3.5
SM01201603R	12	16	3
SM01201703	12	17	3
SM01201703.7R	12	17	3.7
SM01201804	12	18	4

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM01201804.5PT	12	18	4.5
SM01201805	12	18	5
SM01201806	12	18	6
SM01201808	12	18	8
SM01201905V	12	19	5
SM01201905	12	19	5
SM01201905.7R	12	19	5.7
SM01201905.7RLK	12	19	5.7
SM012019.507	12	19.5	7
SM01202004	12	20	4
SM01202004.4R-H	12	20	4.4
SM01202005	12	20	5
SM01202005.5P	12	20	5.5
SM01202005.5R	12	20	5.5
SM01202005.8RLK	12	20	5.8
SM01202006	12	20	6
SM01202007	12	20	7
SM01202008	12	20	8
SM01202105E	12	21	5
SM01202205	12	22	5
SM01202206	12	22	6
SM01202207	12	22	7
SM01202207RK	12	22	7
SM01202208	12	22	8
SM01202306.5R	12	23	6.5
SM01202307.2RF	12	23	7.2
SM01202406	12	24	6
SM01202408	12	24	8
SM01202409	12	24	9
SM01202410	12	24	10
SM01202508	12	25	8
SM01202510	12	25	10
SM01202610	12	26	10
SM01202810	12	28	10
SM01203210	12	32	10
SM012.5022.508	12.5	22.5	8
BRT012.96015.8	12.96	15.8	1
SM013017.503.3R	13	17.5	3.3
SM01301904E	13	19	4
SM01301904ER	13	19	4
SM01302005R	13	20	5
SM01302207P	13	22	7
SM01302308R	13	23	8
SM01302508	13	25	8
SM01302607	13	26	7
SM01402004	14	20	4
SM01402004.8	14	20	4.8
SM01402005	14	20	5
SM01402005.5P	14	20	5.5
SM01402006	14	20	6
SM01402008	14	20	8
SM01402105	14	21	5

PART #	ID	OD	H
SM01402204	14	22	4
SM01402205	14	22	5
SM01402205.8RLK	14	22	5.8
SM01402207F	14	22	7
SM01402212	14	22	12
SM01402405	14	24	5
SM01402406	14	24	6
SM01402407.2RK	14	24	7.2
SM01402408	14	24	8
SM01402505.5	14	25	5.5
SM01402605	14	26	5
SM01402807	14	28	7
SM01402810	14	28	10
SM01403005	14	30	5
SM01403208	14	32	8
SM01502003	15	20	3
SM01502104	15	21	4
SM01502105R	15	21	5
SM015021.504.2R	15	21.5	4.2
SM01502205	15	22	5
SM01502205.5	15	22	5.5
SM01502206E	15	22	6
SM01502206	15	22	6
SM01502208	15	22	8
SM01502305	15	23	5
SM01502305.7R	15	23	5.7
SM01502306.4F	15	23	6.4
SM01502505P	15	25	5
SM01502507	15	25	7
SM01502508	15	25	8
SM01502508.3R	15	25	8.3
SM01502509R	15	25	9
SM01502510E	15	25	10
SM01502510	15	25	10
SM01502706	15	27	6.3
SM01502706.7RF	15	27	6.7
SM01502707	15	27	7
DRM01502719	15	27	19
SM01502808	15	28	8
SM01502810	15	28	10
SM01503006	15	30	6
SM01503008	15	30	8
SM01503010	15	30	10
SM015.425.5065R	15.4	25.5	6.5
SM015.802003	15.8	20	3
SM01602203	16	22	3
SM01602204RLK	16	22	4
SM01602204	16	22	4
SM01602205R	16	22	5
SM01602205	16	22	5
SM01602205.5P	16	22	5.5
SM01602207	16	22	7

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM01602208	16	22	8
SM01602210	16	22	10
SM01602305.5R	16	23	5.5
SM01602404	16	24	4
SM01602405	16	24	5
SM01602405.7R	16	24	5.7
SM01602405.8RLK	16	24	5.8
SM01602406	16	24	6
SM01602406.5R	16	24	6.5
SM01602406.7RF	16	24	6.7
SM01602407F	16	24	7
SM01602408	16	24	8
SM01602409	16	24	9
SM01602505	16	25	5
SM01602605	16	26	5
SM01602606	16	26	6
SM01602607	16	26	7
SM01602607.8R	16	26	7.8
SM01602608	16	26	8
SM01602806	16	28	6
SM01602807.2RF	16	28	7.2
SM01602809P	16	28	9
SM01602906	16	29	6
SM01603005	16	30	5
SM01603006	16	30	6
SM01603208	16	32	8
SM01603605	16	36	5
SM01702504	17	25	4
SM01702504P	17	25	4
SM01702505.5	17	25	5.5
SM01702505.5P	17	25	5.5
SM01702506	17	25	6
SM01702510	17	25	10
SM01703006	17	30	6
SM01703007	17	30	7
SM01703210	17	32	10
SM01802204R	18	22	4
SM01802208	18	22	8
SM01802404.9RK	18	24	4.9
SM01802405	18	24	5
SM01802405R	18	24	5
SM01802405.2F	18	24	5.2
SM01802408	18	24	8
SM01802505	18	25	5
SM01802505RLK	18	25	5
SM01802604	18	26	4
SM01802605	18	26	5
SM01802605.5P	18	26	5.5
SM01802605.8RF	18	26	5.8
SM01802606	18	26	6
SM01802606RLK	18	26	6
SM01802606.5	18	26	6.5
SM01802608	18	26	8

PART #	ID	OD	H
SM01802608RK	18	26	8
SM01802805	18	28	5
SM01802805.8F	18	28	5.8
SM01802805.8R	18	28	5.8
SM01802806RF	18	28	6
SM01802807R	18	28	7
SM01802808	18	28	8
SM01803006	18	30	6
SM01803007.2RF	18	30	7.2
SM01803008	18	30	8
SM01803010	18	30	10
SM01803108	18	31	8
SM01803207	18	32	7
SM01803408	18	34	8
SM18020012	18	200	12
BRT01902501.6	19	25	1.6
SM01902503P	19	25	3
SM01902506	19	25	6
SM01902507	19	25	7
SM01902606JR	19	26	6
SM01902704	19	27	4
SM01902706R	19	27	6
SM01903408	19	34	8
SM019.503007PTF	19.5	30	7
SM02002503.2R	20	25	3.2
SM02002503.5	20	25	3.5
SM02002503.7R	20	25	3.7
SM02002603.3	20	26	3.3
SM02002603.5R	20	26	3.5
SM02002605	20	26	5
SM02002605RK	20	26	5
SM02002605.5RK	20	26	5.5
SM02002705	20	27	5
SM02002705.8R	20	27	5.8
SM02002706RF	20	27	6
SM02002706	20	27	6
BRT02028B	20	28	2
BRT02028	20	28	3
SM02002804	20	28	4
SM02002805	20	28	5
SM02002805.5	20	28	5.5
SM02002805.7RK	20	28	5.7
SM02002805.8F	20	28	5.8
SM02002806	20	28	6
SM02002806RF	20	28	6
SM02002806RK	20	28	6
SM02002806.4RF	20	28	6.4
SM02002806.7RF	20	28	6.7
SM02002807	20	28	7
SM02002808	20	28	8
SM02002808RK	20	28	8
BRT02030B	20	30	2
BRT02030	20	30	3

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM02003004	20	30	4
SM02003005	20	30	5
SM02003005P	20	30	5
SM02003006	20	30	6
SM02003006RK	20	30	6
SM02003007RK	20	30	7
SM02003007P	20	30	7
SM02003007.3E	20	30	7.3
SM02003007.5R	20	30	7.5
SM02003008	20	30	8
SM02003008RF	20	30	8
SM02003008RK	20	30	8
SM02003008.2RF	20	30	8.2
SM02003010	20	30	10
SM02003010E	20	30	10
SM02003010RK	20	30	10
SM02003108	20	31	8
BRT02032	20	32	1
SM02003205	20	32	5
SM02003206	20	32	6
SM02003207.5R	20	32	7.5
SM02003208	20	32	8
SM02003209PWK	20	32	9
SM02003211	20	32	11
SM02003310	20	33	10
DRM02003318.5	20	33	18.5
SM020034.512	20	34.5	12
SM02003507	20	35	7
SM02003508	20	35	8
SM02003510	20	35	10
SM02003510PSL	20	35	10
SM02003608	20	36	8
SM02003610	20	36	10
SM02003712	20	37	12
SM02004008	20	40	8
SM02004010E	20	40	10
SM02004010	20	40	10
SM02004012	20	40	12
SM02004411P	20	44	11
SM021029.505R	21	29.5	5
SM02103712P	21	37	12
SM02202602.8	22	26	2.8
SM02202804	22	28	4
SM02202804.5RLK	22	28	4.5
SM02202804.5	22	28	4.5
SM02202805.7R	22	28	5.7
SM02202808	22	28	8
SM02202905	22	29	5
SM02202905R	22	29	5
BRT02230B	22	30	2
BRT02230	22	30	3
SM02203005R	22	30	5
SM02203005	22	30	5

PART #	ID	OD	H
SM02203005.5RK	22	30	5.5
SM02203005.5HPU	22	30	5.5
SM02203005.8R	22	30	5.8
SM02203006RK	22	30	6
SM02203006	22	30	6
SM02203006.5RF	22	30	6.5
SM02203006.7RF	22	30	6.7
SM02203007	22	30	7
SM02203007RK	22	30	7
SM02203008R	22	30	8
SM02203008RK	22	30	8
SM02203010	22	30	10
SM02203205	22	32	5
SM02203206	22	32	6
SM02203206RK	22	32	6
SM02203207	22	32	7
SM02203207F	22	32	7
SM02203207RK	22	32	7
SM02203208	22	32	8
SM02203209.7RF	22	32	9.7
SM02203210	22	32	10
SM02203210E	22	32	10
SM02203406	22	34	6
SM02203409.2RF	22	34	9.2
SM02203410	22	34	10
SM02203509PWK	22	35	9
SM02203509.7RF	22	35	9.7
SM02203510	22	35	10
SM02203510PWK	22	35	10
DRM02203519	22	35	19
SM02203609	22	36	9
SM02203810	22	38	10
SM02204010	22	40	10
SM02204010E	22	40	10
SM02204012	22	40	12
SM02204210	22	42	10
SM02204612	22	46	12
SM022.403005	22.4	30	5
SM022.4032.408	22.4	32.4	8
BRT022.5026.82	22.5	26.82	1
SM022.5031.505	22.5	31.5	5
SM022.703305.3	22.7	33	5.3
SM02303105.5R	23	31	5.5
SM02303506R	23	35	6
SM023.5031.505	23.5	31.5	5
SM02403006	24	30	6
SM02403204	24	32	4
SM02403205.5P	24	32	5.5
SM02403206	24	32	6
SM02403207	24	32	7
SM02403405	24	34	5

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM02403405.7F	24	34	5.7
SM02403407	24	34	7
SM02403606	24	36	6
SM02404008	24	40	8
BRT024.132.1	24.1	32.1	3.5
SM02503006	25	30	6
SM02503105R	25	31	5
SM02503106	25	31	6
BRT02532B	25	32	2
SM02503204R	25	32	4
SM02503204	25	32	4
SM02503205	25	32	5
SM02503205.8P	25	32	5.8
SM02503206RSL	25	32	6
SM02503206R	25	32	6
SM02503207	25	32	7
BRT02533B	25	33	2
SM02503304	25	33	4
SM02503305RK	25	33	5
SM02503305	25	33	5
SM02503305.5	25	33	5.5
SM02503305.7RF	25	33	5.7
SM02503305.8RLK	25	33	5.8
SM02503306	25	33	6
SM02503306.2R	25	33	6.2
SM02503306.4F	25	33	6.4
SM02503306.5RK	25	33	6.5
SM02503306.8RK	25	33	6.8
SM02503307RLK	25	33	7
SM02503307	25	33	7
SM02503307.3RK	25	33	7.3
SM02503308	25	33	8
SM02503308RK	25	33	8
SM02503310R	25	33	10
SM02503310RK	25	33	10
BRT02535B	25	35	2
SM02503505	25	35	5
SM02503506	25	35	6
SM02503506F	25	35	6
SM02503506RK	25	35	6
SM02503507RK	25	35	7
SM02503507	25	35	7
SM02503507.3RK	25	35	7.3
SM02503507.3AER	25	35	7.3
SM02503508	25	35	8
SM02503508RK	25	35	8
SM02503508E	25	35	8
SM02503508.7RF	25	35	8.7
SM02503509F	25	35	9
SM02503510RK	25	35	10
SM02503510E	25	35	10
SM02503510	25	35	10
SM02503605R	25	36	5

PART #	ID	OD	H
SM02503606	25	36	6
SM02503606.9	25	36	6.9
SM02503706R	25	37	6
SM02503707	25	37	7
BRT02538	25	38	3
SM02503807	25	38	7
SM02503808	25	38	8
SM02503809.3PWK	25	38	9.3
SM02503809.5	25	38	9.5
SM02503809.5RF	25	38	9.5
SM02503809.7RF	25	38	9.7
SM02503810	25	38	10
DRM02503818	25	38	18
SM02504006	25	40	6
SM02504006.5	25	40	6.5
SM02504008	25	40	8
SM02504008.5PW	25	40	8.5
SM02504010	25	40	10
SM02504010E	25	40	10
SM02504208	25	42	8
SM02504308	25	43	8
SM02504411P	25	44	11
SM02504508	25	45	8
SM02504510	25	45	10
SM02505010	25	50	10
SM02505012	25	50	12
SM02502903.2PTF	25.1	29.3	3.2
SM025.2031.1053	25.2	31.1	5.3
SM025.4030.206	25.4	30.2	6
SM02603204.7	26	32	4.7
SM02603205P	26	32	5
SM02603610	26	36	10
SM02603808	26	38	8
SM02604008.5PWK	26	40	8.5
SM02604009	26	40	9
SM02604009.4PWK	26	40	9.4
SM02604208	26	42	8
SM02604712	26	47	12
SM02703504	27	35	4
SM02703505	27	35	5
SM02703510P	27	35	10
SM02703606AP	27	36	6
SM02703606	27	36	6
SM02703806	27	38	6
SM028032.803	28	32.8	3
SM02803403.5P	28	34	3.5
BRT02835	28	35	3
SM02803504.5F	28	35	4.5
SM02803505	28	35	5
SM02803506	28	35	6
SM02803507R	28	35	7

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM028035.505	28	35.5	5
SM028035.505R	28	35.5	5
SM028035.505RK	28	35.5	5
SM028035.505AR	28	35.5	5
SM02803604	28	36	4
SM02803605	28	36	5
SM02803605.5R	28	36	5.5
SM02803605.8RK	28	36	5.8
SM02803605.8F	28	36	5.8
SM02803606	28	36	6
SM02803606.1RF	28	36	6.1
SM02803606.3RLK	28	36	6.3
SM02803606.5	28	36	6.5
SM02803607	28	36	7
SM02803607P	28	36	7
SM02803608	28	36	8
SM02803608RK	28	36	8
SM02803805	28	38	5
SM02803805.6	28	38	5.6
SM02803805.8RK	28	38	5.8
SM02803806	28	38	6
SM02803806R	28	38	6
SM02803807	28	38	7
SM02803807P	28	38	7
SM02803807.2RK	28	38	7.2
SM02803807.2R	28	38	7.2
SM02803807.3E	28	38	7.3
SM02803808	28	38	8
SM02803808RF	28	38	8
SM02803810	28	38	10
SM02803810E	28	38	10
SM02803810R	28	38	10
SM02803810RK	28	38	10
SM02804006	28	40	6
SM02804008	28	40	8
SM02804008.5R	28	40	8.5
SM02804009P	28	40	9
SM02804009.2RF	28	40	9.2
SM02804010E	28	40	10
SM02804010	28	40	10
SM02804109.7RF	28	41	9.7
DRM02804119	28	41	19
SM02804310	28	43	10
SM02804408	28	44	8
SM02804808.5	28	48	8.5
SM02804810	28	48	10
SM02804812	28	48	12
SM02805013	28	50	13
SM02903705.5P	29	37	5.5
SM02904010	29	40	10
SM03003604.3RE	30	36	4.3
SM03003606RLK	30	36	6
SM03003606.3R	30	36	6.3

PART #	ID	OD	H
SM03003608	30	36	8
SM03003706	30	37	6
SM03003708	30	37	8
SM030037.506.5F	30	37.5	6.5
SM03003804	30	38	4
SM03003805	30	38	5
SM03003805.5RK	30	38	5.5
SM03003805.7	30	38	5.7
SM03003805.8F	30	38	5.8
SM03003805.8RLK	30	38	5.8
SM03003806	30	38	6
SM03003806RF	30	38	6
SM03003806RK	30	38	6
SM03003806.4F	30	38	6.4
SM03003807JPU	30	38	7
SM03003807RFDA	30	38	7
SM03003807	30	38	7
SM03003807RK	30	38	7
SM03003808	30	38	8
SM03003808RLK	30	38	8
SM03003810	30	38	10
BRT03040B	30	40	2
BRT03040	30	40	3
SM03004005	30	40	5
SM03004005.5	30	40	5.5
SM03004006E	30	40	6
SM03004006F	30	40	6
SM03004006RK	30	40	6
SM03004006	30	40	6
SM03004006.5	30	40	6.5
SM03004006.5R	30	40	6.5
SM03004007	30	40	7
SM03004007E	30	40	7
SM03004007.3	30	40	7.3
SM03004007.3AER	30	40	7.3
SM03004008	30	40	8
SM03004009R	30	40	9
SM03004010E	30	40	10
SM03004010RK	30	40	10
SM03004010AER	30	40	10
SM03004010	30	40	10
SM03004206	30	42	6
SM03004207E	30	42	7
SM03004208	30	42	8
SM03004209	30	42	9
SM03004210	30	42	10
SM03004210E	30	42	10
SM03004212R	30	42	12
BRT03043	30	43	3
SM03004306.5	30	43	6.5
SM03004309R	30	43	9
SM03004309RK	30	43	9
SM03004310R	30	43	10
DRM03004318	30	43	18
SM030043.609.5	30	43.6	9.5

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM03004405.5	30	44	5.5
BRT03045	30	45	3
SM03004506P	30	45	6
SM03004508	30	45	8
SM03004508.2RF	30	45	8.2
SM03004508.7RF	30	45	8.7
SM03004509PWK	30	45	9
SM03004510RK	30	45	10
SM03004510V	30	45	10
SM03004510E	30	45	10
SM03004510	30	45	10
SM03004511F	30	45	11
SM03004512P	30	45	12
SM03004610	30	46	10
SM03004707R	30	47	7
SM03004710	30	47	10
SM03004807R	30	48	7
SM03004810	30	48	10
SM03005009	30	50	9
SM03005010	30	50	10
SM03005010E	30	50	10
SM03005011	30	50	11
SM03005012	30	50	12
SM03005014PWK	30	50	14
SM03005014.2RF	30	50	14.2
SM03005210	30	52	10
SM03103804.7P	31	38	4.7
SM03104710	31	47	10
SM031.5041.506	31.5	41.5	6
SM031.5044.39.5	31.5	44.3	9.5
SM031.5046.510	31.5	46.5	10
BRT031.58035.9	31.58	35.9	1
SM031.8041.3063	31.8	41.3	6.3
SM03203905P	32	39	5
SM03203908	32	39	8
BRT03240	32	40	3
SM03204004	32	40	4
SM03204005	32	40	5
SM03204005.5	32	40	5.5
SM03204005.7F	32	40	5.7
SM03204006	32	40	6
SM03204006RK	32	40	6
SM03204006.3	32	40	6.3
SM03204006.5RLK	32	40	6.5
SM03204007RK	32	40	7
SM03204007.7R	32	40	7.7
SM03204008	32	40	8
SM03204008RLK	32	40	8
SM03204008.5RF	32	40	8.5
SM03204008.7RF	32	40	8.7
SM03204010	32	40	10
SM032041.508R	32	41.5	8

PART #	ID	OD	H
BRT03242B	32	42	2
BRT03242	32	42	3
SM03204205.7R	32	42	5.7
SM03204206	32	42	6
SM03204206RK	32	42	6
SM03204207RLK	32	42	7
SM03204207	32	42	7
SM03204207R	32	42	7
SM03204207.3RK	32	42	7.3
SM03204208	32	42	8
SM03204210	32	42	10
SM03204210E	32	42	10
SM03204210.7RF	32	42	10.7
SM0320434.2R	32	43	4.2
SM03204406	32	44	6
SM03204406.3	32	44	6.3
SM03204506	32	45	6
SM03204508	32	45	8
SM03204509.5AR	32	45	9.5
SM03204509.5RF	32	45	9.5
SM03204509.7RF	32	45	9.7
SM03204510	32	45	10
SM03204510E	32	45	10
SM03204610	32	46	10
SM03204710	32	47	10
DRM03204721	32	47	21
DRM03204722.5	32	47	22.5
BRT03248	32	48	3
SM03204808	32	48	8
SM03204810	32	48	10
SM03205010	32	50	10
SM03205012	32	50	12
SM03205210	32	52	10
SM032.503808	32.5	38	8
SM03303908	33	39	8
SM03304005.5R	33	40	5.5
SM03304008	33	40	8
SM03304208	33	42	8
SM03304306	33	43	6
SM03304310R	33	43	10
SM03304310	33	43	10
SM03304509P	33	45	9
SM03404407R	34	44	7
SM03404508	34	45	8
SM03404509	34	45	9
SM03405010RLK	34	50	10
SM03405012	34	50	12
SM03405014	34	50	14
BRT03638.6	34.25	38.6	0.9
SM03504105	35	41	5
SM03504206RSL	35	42	6
SM03504207R	35	42	7

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM03504210	35	42	10
BRT03543	35	43	3
SM03504305	35	43	5
SM03504305.7RK	35	43	5.7
SM03504306	35	43	6
SM03504306R	35	43	6
SM03504306RF	35	43	6
SM03504306RK	35	43	6
SM03504306.5F	35	43	6.5
SM03504307F	35	43	7
SM03504307RK	35	43	7
SM03504307	35	43	7
SM03504308RLK	35	43	8
SM03504308.3R	35	43	8.2
SM03504309P	35	43	9
BRT03544	35	44	
SM03504407	35	44	7
BRT03545B	35	45	2
BRT03545	35	45	3
SM03504505	35	45	5
SM03504506	35	45	6
SM03504506RK	35	45	6
SM03504506E	35	45	6
SM03504506P	35	45	6
SM03504507	35	45	7
SM03504507RV	35	45	7
SM03504507RK	35	45	7
SM03504507JR	35	45	7
SM03504507.5RF	35	45	7.5
SM03504507.5F	35	45	7.5
SM03504507.7R	35	45	7.7
SM03504508	35	45	8
SM03504508PWK	35	45	8
SM03504509PW	35	45	9
SM03504510	35	45	10
SM03504510E	35	45	10
SM03504510RF	35	45	10
SM03504510RK	35	45	10
DRM03504524	35	45	24
SM03504606	35	46	6
SM03504608	35	46	8
SM03504610	35	46	10
SM03504706	35	47	6
DRM03504722	35	47	22
SM03504808	35	48	8
SM03504810P	35	48	10
SM03504810	35	48	10
SM03505008R	35	50	8
SM03505008	35	50	8
SM03505009R	35	50	9
SM03505009	35	50	9
SM03505009.5AER	35	50	9.5
SM03505010	35	50	10
SM03505010E	35	50	10
SM03505010PW	35	50	10

PART #	ID	OD	H
SM03505010RF	35	50	10
SM03505011.2RF	35	50	11.2
SM03505011.5RF	35	50	11.5
DRM03505021.5	35	50	21.5
SM03505109R	35	51	9
SM03505212	35	52	12
SM03505510	35	55	10
SM03505512	35	55	12
SM035.504506	35.5	45	6
SM035.504506.5R	35.5	45	6.5
SM035.5050.510	35.5	50.5	10
SM03604306.2RF	36	43	6.2
BRT036441.5	36	44	1.5
SM03604404	36	44	4
SM03604405.3	36	44	5.3
SM03604405.8RLK	36	44	5.8
SM03604406RK	36	44	6
SM03604406.1RF	36	44	6.1
SM03604406.3R	36	44	6.3
SM03604408E	36	44	8
SM03604408	36	44	8
SM03604506.5	36	45	6.5
SM03604605	36	46	5
SM03604606	36	46	6
SM03604607E	36	46	7
SM03604607	36	46	7
SM03604607.3RK	36	46	7.3
SM03604608RK	36	46	8
SM03604608.2RF	36	46	8.2
SM03604610RK	36	46	10
SM03604610	36	46	10
SM03604804	36	48	4
SM03604806	36	48	6
SM03604808	36	48	8
SM03604808R	36	48	8
SM03604809.2RF	36	48	9.2
SM03604810	36	48	10
SM03604811.7RF	36	48	11.7
SM03605008	36	50	8
BRT03650.5	36	50.5	5
SM03605107.1	36	51	7.1
SM03605110R-K	36	51	10
SM03605110	36	51	10
SM03605110R	36	51	10
DRM03605121	36	51	21
SM03605210RK	36	52	10
SM03704506P	37	45	6
SM03704507P	37	45	7
SM03704706R	37	47	6
SM03704708	37	47	8
SM03704710	37	47	10
BRT03751	37	51	1.7

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM03804504.8	38	45	4.8
SM03804506	38	45	6
SM03804506.5	38	45	6.5
SM038045.506	38	45.5	6
SM03804606.5	38	46	6.5
BRT03804801.9	38	48	1.9
BRT03848	38	48	3
SM03804806	38	48	6
SM03804808R	38	48	8
SM03804809RK	38	48	9
SM03804810	38	48	10
SM03805006	38	50	6
SM03805006RK	38	50	6
SM03805008	38	50	8
SM03805008.5RLK	38	50	8.5
SM03805009	38	50	9
SM03805010	38	50	10
SM03805210	38	52	10
SM038052.509.5	38	52.5	9.5
SM03805310	38	53	10
SM03805510	38	55	10
SM03805810	38	58	10
SM03806010	38	60	10
SM03806212	38	62	12
SM03904806.5	39	48	6.5
SM03905410	39	54	10
SM03905810	39	58	10
SM03905810R	39	58	10
SM03905813	39	58	13
SM04004607R	40	46	7
BRT04048	40	48	3
SM04004805	40	48	5
SM04004805.7E	40	48	5.7
SM04004805.7RK	40	48	5.7
SM04004806	40	48	6
SM04004806.5F	40	48	6.5
SM04004807F	40	48	7
SM04004808	40	48	8
SM04004808AR	40	48	8
SM04004808RV	40	48	8
SM04004810	40	48	10
SM04004811	40	48	11
SM040049.509.5R	40	49.5	9.5
BRT04050N	40	50	
BRT04050C	40	50	
BRT04050B	40	50	2
BRT04050	40	50	3
SM04005005	40	50	5
SM04005006	40	50	6
SM04005006R	40	50	6
SM04005006E	40	50	6
SM04005006RK	40	50	6
SM04005006.5	40	50	6.5

PART #	ID	OD	H
SM04005006.5P	40	50	6.5
SM04005007	40	50	7
SM04005007NOK	40	50	7
SM04005007RK	40	50	7
SM04005007.3AER	40	50	7.3
SM04005007.5RF	40	50	7.5
SM04005007.7RF	40	50	7.7
SM04005008	40	50	8
SM04005009	40	50	9
SM04005009RK	40	50	9
SM04005009.7RF	40	50	9.7
SM04005010PW	40	50	10
SM04005010	40	50	10
SM04005010E	40	50	10
SM04005010RF	40	50	10
SM04005010RLK	40	50	10
SM04005010.5F	40	50	10.5
SM04005206	40	52	6
SM04005207	40	52	7
SM04005208	40	52	8
SM04005210	40	52	10
SM04005210.9AR	40	52	10.9
SM04005210.9R	40	52	10.9
SM04005212	40	52	12
DRM04005221.5	40	52	21.5
BRT04053B	40	53	2
SM04005308	40	53	8
BRT04055B	40	55	2
BRT04055	40	55	3
KR04005506	40	55	6
SM04005507	40	55	7
SM04005507RF	40	55	7
SM04005507.5AR	40	55	7.5
SM04005507.7RF	40	55	7.7
SM04005508	40	55	8
SM04005509.5AER	40	55	9.5
SM04005510	40	55	10
SM04005510PWK	40	55	10
SM04005510RF	40	55	10
SM04005511F	40	55	11
SM04005511.4AER	40	55	11.4
SM04005511.5RK	40	55	11.5
DRM04005521.5	40	55	21.5
SM04005606	40	56	6
SM04005608	40	56	8
SM04005610	40	56	10
SM04005610E	40	56	10
SM04006010	40	60	10
SM04006010E	40	60	10
SM04006010RF	40	60	10
SM04006012	40	60	12
SM04006313	40	60	13
SM04006013.5PW1	40	60	13.5
SM04006013.5PW	40	60	13.5
SM04006014PWK	40	60	14

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM04006014.2RF	40	60	14.2
SM04006014.5F	40	60	14.5
DRM04006028.5	40	60	28.5
SM04006510	40	65	10
SM04006512	40	65	12
SM040.8050.807P	40.8	50.8	7
SM04105710	41	57	10
SM04106110	41	61	10
BRT04246.62.15	42	46.6	2.15
SM04205005	42	50	5
SM04205005.7P	42	50	5.7
SM04205005.7RK	42	50	5.7
SM04205006E	42	50	6
SM04205006RLK	42	50	6
SM04205006	42	50	6
SM04205006.5E	42	50	6.5
SM04205008P	42	50	8
SM04205008	42	50	8
SM04205010P	42	50	10
SM04205111	42	51	11
SM04205205P	42	52	5
SM04205206	42	52	6
SM04205207R	42	52	7
SM04205208RLK	42	52	8
SM04205208	42	52	8
SM04205208.7RF	42	52	8.7
SM04205210	42	52	10
SM04205309R	42	53	9
SM04205309	42	53	9
SM04205507	42	55	7
SM04205508	42	55	8
SM04205708	42	57	8
SM04205813R	42	58	13
SM04206210	42	62	10
SM04206212R	42	62	12
SM04206212	42	62	12
SM04305506	43	55	6
SM04306310	43	63	10
SM04405008.5	44	50	8.5
SM04405709	44	57	9
BRT04460	44	60	3
SM04406012P	44	60	12
SM044.5054.506	44.5	54.5	6
SM04205006F	45	50	6
SM04505103	45	51	3
SM04505206	45	52	6
SM04505210	45	52	10
SM04505212RLK	45	52	12
SM04505305.3	45	53	5.3
SM04505305.8RLK	45	53	5.8

PART #	ID	OD	H
SM04505306	45	53	6
SM04505306F	45	53	6
SM04505306.3RLK	45	53	6.3
SM04505307	45	53	7
SM04505308	45	53	8
SM04505310	45	53	10
BRT04555N	45	55	
BRT04555B	45	55	2
BRT04555	45	55	3
SM04505505	45	55	5
SM04505505.8RLK	45	55	5.8
SM04505506E	45	55	6
SM04505506V	45	55	6
SM04505506	45	55	6
SM04505506.3R	45	55	6.3
SM04505506.5	45	55	6.5
SM04505506.5R	45	55	6.5
SM04505507	45	55	7
SM04505507NOK	45	55	7
SM04505507R	45	55	7
SM04505507RK	45	55	7
SM04505507.2RF	45	55	7.2
SM04505507.3E	45	55	7.3
SM04505507.3RK	45	55	7.3
SM04505507.5RF	45	55	7.5
SM04505508RK	45	55	8
SM04505510RK	45	55	10
SM04505510	45	55	10
SM04505510RF	45	55	10
SM04505510R	45	55	10
SM04505511.5R	45	55	11.5
SM04505512	45	55	12
SM04505607	45	56	7
SM04505610	45	56	10
SM04505706	45	57	6
SM04505709.5F	45	57	9.5
SM04505709.7RF	45	57	9.7
SM045057.709.5	45	57.7	9.5
SM04505809	45	58	9
SM04505810	45	58	10
SM04505812	45	58	12
BRT04560	45	60	3
SM04506009	45	60	9
SM04506010PW	45	60	10
SM04506010E	45	60	10
SM04506010AER	45	60	10
SM04506010	45	60	10
SM04506010.5RF	45	60	10.5
SM04506011.4AER	45	60	11.4
SM04506011.5RK	45	60	11.5
SM04506012	45	60	12
DRM04506021.5	45	60	21.5
SM04506110	45	61	10
SM04506310E	45	63	10
SM04506310PWK	45	63	10

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM04506310.5PWK	45	63	10.5
SM04506312	45	63	12
SM04506510R	45	65	10
SM04506510E	45	65	10
SM04506510	45	65	10
SM04506512	45	65	12
SM04506512E	45	65	12
SM04506514PWK	45	65	14
SM04506514.2RF	45	65	14.2
SM04506513.5F	45	65	14.5
DRM04506526.5	45	65	26.5
SM04506610	45	66	10
SM04507012	45	70	12
SM04507015.5	45	70	15.5
SM04507016	45	70	16
SM04605205	46	52	5
SM04605408RLK	46	54	8
SM04605606	46	56	6
SM04605607P	46	56	7
SM04605608	46	56	8
SM04605806	46	58	6
SM04606210	46	62	10
SM04607012	46	70	12
SM04705510	47	55	10
SM04706512	47	65	12
SM04805806	48	58	6
SM04805806.5	48	58	6.5
SM04805808	48	58	8
SM04805810	48	58	10
SM048058.512PTF	48	58.5	12
SM04806006	48	60	6
SM04806006RLK	48	60	6
SM04806007.9	48	60	7.9
SM04806009	48	60	9
BRT04863B	48	63	2
SM04806308.5P	48	63	8.5
SM04806309P	48	63	9
SM04806309.5PFA	48	63	9.5
SM04806310P	48	63	10
SM04806310AP	48	63	10
SM04806310	48	63	10
SM04806311.5P	48	63	11.5
SM04806312	48	63	12
SM04806810	48	68	10
SM04806812	48	68	12
SM04808016P	48	80	16
SM049.505705	49.5	57	5
SM05005710	50	57	10
BRT05058B	50	58	2
BRT05058	50	58	3
SM05005805.3	50	58	5.3
SM05005806	50	58	6

PART #	ID	OD	H
SM05005808RK	50	58	8
SM05005808	50	58	8
SM05005812	50	58	12
SM05005910AER	50	59	10
SM05005910	50	59	10
BRT05060B	50	60	2
BRT05060	50	60	3
SM05006005P	50	60	5
SM05006005	50	60	5
SM05006006RK	50	60	6
SM05006006E	50	60	6
SM05006006	50	60	6
SM05006006.5RSL	50	60	6.5
SM05006007RK	50	60	7
SM05006007RF	50	60	7
SM05006007	50	60	7
SM05006007.2RF	50	60	7.2
SM05006007.3AER	50	60	7.3
SM05006007.3P	50	60	7.3
SM05006007.3RK	50	60	7.3
SM05006007.5F	50	60	7.5
SM05006007.5RF	50	60	7.5
SM05006008RF	50	60	8
SM05006008	50	60	8
SM05006009RLK	50	60	9
SM05006010RLK	50	60	10
SM05006010RF	50	60	10
SM05006010E	50	60	10
SM05006010AR	50	60	10
SM05006010	50	60	10
SM05006010.5RF	50	60	10.5
SM05006011.4E	50	60	11.4
SM05006012	50	60	12
SM05006206	50	62	6
SM05006208AR	50	62	8
SM05006209	50	62	9
SM05006209EP	50	62	9
SM05006209RF	50	62	9
SM05006209F	50	62	9
SM05006209.5	50	62	9.5
SM05006210	50	62	10
SM05006212	50	62	12
BRT05063N	50	63	
BRT05063	50	63	3
SM05006306	50	63	6
SM05006306.5	50	63	6.5
SM05006308	50	63	8
SM05006309	50	63	9
SM05006309P	50	63	9
SM05006310NOK	50	63	10
SM05006310RLK	50	63	10
SM05006310R	50	63	10
SM05006310	50	63	10
SM05006310RDZ	50	63	10
SM05006314P	50	63	14

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
DRM05006319	50	63	19
BRT05065B	50	65	2
BRT05065	50	65	3
SM05006506	50	65	6
SM05006507.5	50	65	7.5
SM05006508	50	65	8
SM05006509RDZ	50	65	9
SM05006509R	50	65	9
SM05006509	50	65	9
SM05006509RK	50	65	9
SM05006510	50	65	10
SM05006510PW	50	65	10
SM05006510RF	50	65	10
SM05006510E	50	65	10
SM05006510.5PWK	50	65	10.5
SM05006511.4AER	50	65	11.4
SM05006511.5RK	50	65	11.5
SM05006512	50	65	12
SM05006514.5R	50	65	14.5
DRM05006521.5	50	65	21.5
DRM05006523	50	65	23
DRM05006524.5	50	65	24.5
SM050065.506R	50	65.5	6
SM05006612	50	66	12
SM05006812	50	68	12
BRT05070	50	70	3
SM05007008	50	70	8
SM05007009P	50	70	9
SM05007010	50	70	10
SM05007010E	50	70	10
SM05007012	50	70	12
SM05007012E	50	70	12
SM05007012.3APV	50	70	12.3
SM05007013.5RLK	50	70	13.5
SM05007013.7RF	50	70	13.7
SM05007014RF	50	70	14
SM05007014PWK	50	70	14
SM05007016.3PW	50	70	16.3
SM05007018	50	70	18
DRM05007028	50	70	28
DRM05007030	50	70	30
SM05007512.5	50	75	12.5
SM05008025F	50	80	25
SM050.907013	50.9	70	13
SM05106614	51	66	14
SM05206206	52	62	6
SM05206207P	52	62	7
SM05206210	52	62	10
SM05206210R	52	62	10
SM05206212	52	62	12
BRT05265	52	65	
SM05206506	52	65	6
SM05206810AR	52	68	10
SM05206909R	52	69	9
SM05207012	52	70	12
BRT05363B	53	63	2
SM05306306	53	63	6
SM05306306.5	53	63	6.5
SM05306308	53	63	8
SM05306310	53	63	10
SM05306312	53	63	12
SM05306508	53	65	8
SM05307009R	53	70	9
SM05307312	53	73	12
SM05406406	54	64	6
SM05406609.2RF	54	66	9.2
SM05407012	54	70	12
SM05506308RLK	55	63	8
SM05506308	55	63	8
SM05506308R	55	63	8
SM05506311.4RK	55	63	11.4
SM05506407.3R	55	64	7.3
BRT05565B	55	65	2
BRT05565	55	65	3
SM05506505	55	65	5
SM05506506R	55	65	6
SM05506506RK	55	65	6
SM05506506E	55	65	6
SM05506506	55	65	6
SM05506506.3R	55	65	6.3
SM05506507P	55	65	7
SM05506507.3F	55	65	7.3
SM05506507.3R	55	65	7.3
SM05506507.5RF	55	65	7.5
SM05506507.7RF	55	65	7.7
SM05506508RK	55	65	8
SM05506508	55	65	8
SM05506508F	55	65	8
SM05506510	55	65	10
SM05506510RK	55	65	10
SM05506510E	55	65	10
SM05506510RF	55	65	10
SM05506511.8RDZ	55	65	12
SM05506512	55	65	12
SM05506512AR	55	65	12
SM05506610	55	66	10
SM05506710R	55	67	10
BRT05568	55	68	3
SM05506810RDZ	55	68	10
SM05506810RK	55	68	10
SM05506813AER	55	68	13
BRT05570B	55	70	2
BRT05570	55	70	3
SM05507007.5	55	70	7.5
SM05507008	55	70	8
SM05507009	55	70	9

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM05507009RK	55	70	9
SM05507010	55	70	10
SM05507010RF	55	70	10
SM05507010R	55	70	10
SM05507010.2RF	55	70	10.2
SM05507011.4AER	55	70	11.4
SM05507011.5RK	55	70	11.5
SM05507012	55	70	12
SM05507012E	55	70	12
DRM05507021	55	70	21
DRM05507023.5	55	70	23.5
SM055070.506R	55	70.5	6
BRT05571	55	71	3
SM05507110R	55	71	10
SM05507112RK	55	71	12
SM05507112	55	71	12
SM05507210	55	72	10
SM05507510	55	75	10
SM05507512	55	75	12
SM05507512E	55	75	12
SM05507513AP	55	75	13
SM05507513.5RF	55	75	13.5
SM05507513.7RF	55	75	13.7
SM05507514.2RF	55	75	14.2
SM05507514.5PWK	55	75	14.5
DRM05507528.5	55	75	28.5
DRM05507530	55	75	30
SM05507610	55	76	10
BRT05577A	55	77	3
SM05508012	55	80	12
SM05508015	55	80	15
SM05606408E	56	64	8
SM05606408RLK	56	64	8
SM05606507.3RK	56	65	7.3
BRT05666B	56	66	2
SM05606605	56	66	5
SM05606606E	56	66	6
SM05606606	56	66	6
SM05606606.5RK	56	66	6.5
SM05606606.5	56	66	6.5
SM05606608RK	56	66	8
SM05606608.5	56	66	8.5
SM05606610	56	66	10
SM05606610R	56	66	10
SM05606610RK	56	66	10
SM05606610S	56	66	10
SM05606808.5R	56	68	8.5
SM05607011.5R	56	70	11.5
SM05607012	56	70	12
SM05607108.4	56	71	8.4
SM05607110R	56	71	10
SM05607110AR	56	71	10
SM05607110	56	71	10
SM05607111.4AER	56	71	11.4

PART #	ID	OD	H
SM05607111.5RK	56	71	11.5
SM05607111.5	56	71	11.5
DRM05607123.5	56	71	23.5
SM05607612	56	76	12
SM05607613.5RF	56	76	13.5
SM05607614.2RF	56	76	14.2
DRM05607626.5	56	76	26.5
SM05608015	56	80	15
SM056.105837TRR	56.1	58.3	7
SM05706308	57	63	8
SM05706310	57	63	10
SM05706713.5R	57	67	13.5
SM05708416R	57	84	16
SM05806806	58	68	6
SM05806814	58	68	14
SM05807006	58	70	6
SM05807212P	58	72	12
BRT05878	58	78	3
SM05807812	58	78	12
BRT06065B	60	65	2
SM06006806.3RLK	60	68	6.3
SM06006808	60	68	8
SM06006808RK	60	68	8
SM06006811.5	60	68	11.5
SM06006811.5RK	60	68	11.5
SM06006814	60	68	14
SM060069.5067RF	60	69.5	6.7
BRT06070	60	70	3
SM06007005	60	70	5
SM06007006RK	60	70	6
SM06007006	60	70	6
SM06007006V	60	70	6
SM06007006.3R	60	70	6.3
SM06007007RK	60	70	7
SM06007007.2R	60	70	7.2
SM06007007.5RLK	60	70	7.5
SM06007007.5V	60	70	7.5
SM06007007.5R	60	70	7.5
SM06007007.5FE	60	70	7.5
SM06007007.7RF	60	70	7.7
SM06007008RF	60	70	8
SM06007008	60	70	8
SM06007008E	60	70	8
SM06007010E	60	70	10
SM06007010RK	60	70	10
SM06007010	60	70	10
SM06007010.5RF	60	70	10.5
SM06007010.7RF	60	70	10.7
SM06007011.5RK	60	70	11.5
SM06007012	60	70	12
SM06007012P	60	70	12
SM06007012RK	60	70	12

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM06007012E	60	70	12
SM06007012.7RF	60	70	12.7
SM06007013	60	70	13
SM06007013.5R	60	70	13.5
BRT06071	60	71	3
SM06007107	60	71	7
SM06007208R	60	72	8
SM06007209RLK	60	72	9
SM06007209.7RF	60	72	9.7
SM06007210	60	72	10
BRT06073	60	73	3
SM06007308	60	73	8
SM06007310RK	60	73	10
SM06007310NOK	60	73	10
SM06007310R	60	73	10
SM06007313AER	60	73	13
SM06007408R	60	74	8
BRT06075	60	75	3
SM06007508	60	75	8
SM06007509RK	60	75	9
SM06007509	60	75	9
SM06007510RK	60	75	10
SM06007510	60	75	10
SM06007510E	60	75	10
SM06007511.4AER	60	75	11.4
SM06007511.5PFA	60	75	11.5
SM06007512RF	60	75	12
SM06007512RK	60	75	12
SM06007512E	60	75	12
SM06007512	60	75	12
SM06007512.2RF	60	75	12.2
SM06007512.7RF	60	75	12.7
SM06007513	60	75	13
DRM06007521.5	60	75	21.5
DRM06007523.5	60	75	23.5
BRT06076	60	76	3
SM06007610RK	60	76	10
SM06007610R	60	76	10
SM06007612	60	76	12
DRM06007725	60	77	25
SM06007810R	60	78	10
BRT06080	60	80	3
SM06008006	60	80	6
SM06008010	60	80	10
SM06008012PW	60	80	12
SM06008012RK	60	80	12
SM06008012	60	80	12
SM06008012.5PFA	60	80	12.5
SM06008014RF	60	80	14
SM06008014PWK	60	80	14
SM06008014PW	60	80	14
SM06008014.2RF	60	80	14.2
SM06008016PW	60	80	16
SM06008018	60	80	18
DRM06008028.5	60	80	28.5

PART #	ID	OD	H
DRM06008030	60	80	30
SM06008510	60	85	10
SM06008512	60	85	12
SM06008512.5	60	85	12.5
SM06009015	60	90	15
SM06009016	60	90	16
SM06106705	61	67	5
SM06106908RLK	61	69	8
SM06107008R	61	70	8
BRT06171	61	71	3
SM06107106	61	71	6
SM06107106.5	61	71	6.5
SM06107815.5	61	78	15.5
SM06108012	61	80	12
SM06207008P	62	70	8
SM06207010	62	70	10
SM06207210	62	72	10
SM06207510	62	75	10
SM06207810	62	78	10
SM06208010	62	80	10
SM06208210	62	82	10
SM06208212	62	82	12
SM06307108	63	71	8
SM06307108RK	63	71	8
SM06307108.7RF	63	71	8.7
SM06307206	63	72	6
BRT06373B	63	73	
SM06307306	63	73	6
SM06307306E	63	73	6
SM06307310RK	63	73	10
SM06307311.8	63	73	11.8
SM06307312FE	63	73	12
SM06307312RK	63	73	12
SM06307312	63	73	12
BRT06375B	63	75	2
SM06307506	63	75	6
SM06307508.5P	63	75	8.5
SM06307508.5R	63	75	8.5
SM06307509.2R	63	75	9.2
SM06307510	63	75	10
SM06307510.7RF	63	75	10.7
SM06307511.4R	63	75	11.4
SM06307512	63	75	12
SM06307514	63	75	14
BRT06378	63	78	3
SM06307810R	63	78	10
SM06307810RK	63	78	10
SM06307810E	63	78	10
SM06307810	63	78	10
SM06307811.4AER	63	78	11.4
SM06307811.5RK	63	78	11.5
SM06307812.2RF	63	78	12.2
SM06308010	63	80	10

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM06308012	63	80	12
SM06308016	63	80	16
BRT0638112.3A	63	81	12.3
SM06308311.8AER	63	83	11.8
SM06308312	63	83	12
SM06308312RK	63	83	12
SM06308313.5RF	63	83	13.5
SM06308314.2RF	63	83	14.2
DRM06308325	63	83	25
DRM06308327	63	83	27
SM06407609.5	64	76	9.5
BRT06480	64	80	3
SM06408008	64	80	8
SM06408012	64	80	12
SM06507308	65	73	8
SM06507311.5R	65	73	11.5
SM06507311.5	65	73	11.5
BRT06575B	65	75	2
BRT06575	65	75	3
SM06507506R-K	65	75	6
SM06507506E	65	75	6
SM06507506	65	75	6
SM06507506.3R	65	75	6.3
SM06507507.3	65	75	7.3
SM06507508R	65	75	7.6
SM06507509	65	75	9
SM06507510RK	65	75	10
SM06507510	65	75	10
SM06507512	65	75	12
SM06507512E	65	75	12
SM06507512.5RLK	65	75	12.5
SM06507513RK	65	75	13
SM06507513.2RF	65	75	13.2
SM06507610	65	76	10
SM06507709R	65	77	9
SM06507709.3RF	65	77	9.3
BRT06578	65	78	3
SM06507810RK	65	78	10
SM06507810AER	65	78	10
SM06507810NOK	65	78	10
SM06507810R	65	78	10
SM06507810RDZ	65	78	10
SM06507910	65	79	10
BRT06580	65	80	3
SM06508007.5	65	80	7.5
SM06508008.4	65	80	8.4
SM06508009AER	65	80	9
SM06508009	65	80	9
SM06508009RK	65	80	9
SM06508009R	65	80	9
SM06508010	65	80	10
SM06508010E	65	80	10
SM06508011	65	80	11

PART #	ID	OD	H
SM06508011.2RF	65	80	11.2
SM06508012AR	65	80	12
SM06508012RK	65	80	12
SM06508012	65	80	12
SM06508012E	65	80	12
BRT06585	65	85	3
SM06508510	65	85	10
SM06508510R	65	85	10
SM06508512E	65	85	12
SM06508512	65	85	12
DRM06508527	65	85	27
SM06508610	65	86	10
BRT06590	65	90	3
SM06509008	65	90	8
SM06509013	65	90	13
SM06509015	65	90	15
SM06607608	66	76	8
SM06607706	66	77	6
SM06608010	66	80	10
SM06707706	67	77	6
SM06707709.5	67	77	9.5
SM06707712	67	77	12
SM06708416R	67	84	16
SM06708712	67	87	12
SM06709511.5	67	95	11.5
SM06807608	68	76	8
SM06807812	68	78	12
SM06808009	68	80	9
BRT0690801.5	69.1	80	1.5
BRT06907904.5	69.2	79.4	4.5
SM07007808RK	70	78	8
SM07007808	70	78	8
SM07007811.5RK	70	78	11.5
BRT07080	70	80	3
SM07008005	70	80	5
SM07008006	70	80	6
SM07008006E	70	80	6
SM07008006RK	70	80	6
SM07008006.3R	70	80	6.3
SM07008007.2R	70	80	7.2
SM07008007.5F	70	80	7.5
SM07008007.7RF	70	80	7.7
SM07008008	70	80	8
SM07008010AR	70	80	10
SM07008010E	70	80	10
SM07008010RK	70	80	10
SM07008010	70	80	10
SM07008011.5RK	70	80	11.5
SM07008012RK	70	80	12
SM07008012AER	70	80	12
SM07008012	70	80	12

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM07008012.7RF	70	80	12.7
SM07008110	70	81	10
SM07008208P	70	82	8
SM07008208.7R	70	82	8.7
SM07008209F	70	82	9
SM07008210	70	82	10
SM07008210F	70	82	10
SM07008210R	70	82	10
SM07008210.2RF	70	82	10.2
SM07008212	70	82	12
SM07008212AR	70	82	12
BRT07083B	70	83	2
BRT07083	70	83	3
SM07008310AER	70	83	10
SM07008310NOK	70	83	10
SM07008310R	70	83	10
SM07008310RK	70	83	10
SM07008312	70	83	12
SM07008313R	70	83	13
DRM07008323.5	70	83	23.5
SM07008410	70	84	10
SM07008412RF	70	84	12
SM07008412.2RF	70	84	12.2
BRT07085	70	85	3
SM07008508	70	85	8
SM07008509R	70	85	9
SM07008509AER	70	85	9
SM07008509RK	70	85	9
SM07008509	70	85	9
SM07008510	70	85	10
SM07008510AER	70	85	10
SM07008510E	70	85	10
SM07008510RK	70	85	10
SM07008510.5	70	85	10.5
SM07008511RF	70	85	11
SM07008511.4AER	70	85	11.4
SM07008511.4R	70	85	11.4
SM07008512RF	70	85	12
SM07008512PWK	70	85	12
SM07008512E	70	85	12
SM07008512	70	85	12
SM07008512RK	70	85	12
SM07008512.5RF	70	85	12.5
SM07008513RK	70	85	13
DRM07008521	70	85	21
DRM07008523.5	70	85	23.5
SM07008612P	70	86	12
BRT07090	70	90	3
KR07009006.5	70	90	6.5
SM07009010	70	90	10
SM07009012PW	70	90	12
SM07009012PWK	70	90	12
SM07009012E	70	90	12
SM07009012	70	90	12
SM07009012RK	70	90	12

PART #	ID	OD	H
SM07009013	70	90	13
SM07009013.5R	70	90	13.5
SM07009013.5AR	70	90	13.5
SM07009013.5	70	90	13.5
SM07009013.7RF	70	90	13.7
SM07009014PWK	70	90	14
SM07009014RF	70	90	14
SM07009015	70	90	15
SM07009018	70	90	18
DRM07009028.5	70	90	28.5
SM07009110	70	91	10
SM07009212	70	92	12
SM07009512	70	95	12
SM07108006	71	80	6
SM07108006.5P	71	80	6.5
SM07108106R	71	81	6
SM07108106	71	81	6
SM07109112	71	91	12
SM07208012P	72	80	12
SM07208709R	72	87	9
SM07209010	72	90	10
SM07308510	73	85	10
SM074.508209R	74.5	82	9
SM07508306.3	75	83	6.3
SM07508306.3RLK	75	83	6.3
SM07508306.5E	75	83	6.5
SM07508308RK	75	83	8
SM07508311.5RK	75	83	11.5
BRT075841.5	75	84	1.5
BRT07585	75	85	3
SM07508506	75	85	6
SM07508506E	75	85	6
SM07508506RK	75	85	6
SM07508506.3R	75	85	6.3
SM07508507	75	85	7
SM07508508RLK	75	85	8
SM07508510	75	85	10
SM07508510R	75	85	10
SM07508510.5RF	75	85	10.5
SM07508510.7RF	75	85	10.7
SM07508511.5RF	75	85	11.5
SM07508511.5RK	75	85	11.5
SM07508512	75	85	12
SM07508512E	75	85	12
SM07508610	75	86	10
SM07508708.7R	75	87	8.7
SM07508709.3F	75	87	9.3
BRT07588	75	88	3
SM07508809.5P	75	88	9.5
SM07508810RDZ	75	88	10
SM07508810AER	75	88	10
SM07508810NOK	75	88	10

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM07508810RK	75	88	10
SM07508812.5AER	75	88	12.5
SM07508813E	75	88	13
BRT07590N	75	90	
BRT07590	75	90	3
SM07509007.5	75	90	7.5
SM07509009	75	90	9
SM07509009AER	75	90	9
SM07509009R	75	90	9
SM07509009RK	75	90	9
SM07509010RK	75	90	10
SM07509010E	75	90	10
SM07509010	75	90	10
SM07509010.5RF	75	90	10.5
SM07509010.5R	75	90	10.5
SM07509011RF	75	90	11
SM07509011.2RF	75	90	11.2
SM07509012	75	90	12
SM07509012E	75	90	12
SM07509012RK	75	90	12
SM07509012.5RF	75	90	12.5
BRT07595	75	95	3
SM07509510	75	95	10
SM07509512R	75	95	12
SM07509512	75	95	12
SM07509512E	75	95	12
SM07509512.5R	75	95	12.5
SM07509513	75	95	13
SM07509513.5	75	95	13.5
SM07509514PWK	75	95	14
SM07509514RF	75	95	14
SM07509514.2RF	75	95	14.2
DRM07509528.5	75	95	28.5
SM07510015	75	100	15
SM07510018P	75	100	18
SM07608205	76	82	5
SM07608408RLK	76	84	8
SM07608806R	76	88	6
SM07609114	76	91	14
SM07609212	76	92	12
SM076.5090.510R	76.5	90.5	10
SM076.5090.510	76.5	90.5	10
SM07708712RK	77	87	12
SM07709209R	77	92	9
SM07808611.5R	78	86	11.5
SM07808614	78	86	14
SM07808813.5R	78	88	13.5
SM07809511.5	78	95	11.5
SM07908808R	79	88	8
SM07908912FE	79	89	12
SM08008808	80	88	8

PART #	ID	OD	H
SM08008811.5RK	80	88	11.5
BRT08090	80	90	3
SM08009005	80	90	5
SM08009005.4	80	90	5.4
SM08009006	80	90	6
SM08009006E	80	90	6
SM08009007.2	80	90	7.2
SM08009008R	80	90	8
SM08009010	80	90	10
SM08009010E	80	90	10
SM08009010RK	80	90	10
SM08009012AR	80	90	12
SM08009012S	80	90	12
SM08009012RF	80	90	12
SM08009012	80	90	12
SM08009012RK	80	90	12
SM08009110	80	91	10
SM08009208.7	80	92	8.7
SM08009208.7R	80	92	8.7
SM08009209F	80	92	9
SM08009209RLK	80	92	9
BRT08093	80	93	3
SM08009308	80	93	8
SM08009310RK	80	93	10
SM08009310AER	80	93	10
SM08009310NOK	80	93	10
SM08009313R	80	93	13
SM08009314.2RF	80	93	14.2
SM08009410	80	94	10
BRT08095B	80	95	
BRT08095	80	95	3
SM08009508	80	95	8
SM08009509RK	80	95	9
SM08009509	80	95	9
SM08009509R	80	95	9
SM08009509AER	80	95	9
SM08009510RF	80	95	10
SM08009510NOK	80	95	10
SM08009510RK	80	95	10
SM08009510	80	95	10
SM08009510.4R	80	95	10.4
SM08009511R	80	95	11
SM08009511.4AER	80	95	11.4
SM08009511.4E	80	95	11.4
SM08009511.8R	80	95	11.8
SM08009512RF	80	95	12
SM08009512	80	95	12
SM08009512RK	80	95	12
DRM08009521.5	80	95	21.5
SM08009609.5AR	80	96	9.5
SM08009609.5RLK	80	96	9.5
SM08009610.2RF	80	96	10.2
SM08009612	80	96	12
BRT080100N	80	100	
BRT080100	80	100	3

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
KR08010006	80	100	6
SM08010009.5	80	100	9.5
SM08010010RK	80	100	10
SM08010010	80	100	10
SM08010011.7RF	80	100	11.7
SM08010012	80	100	12
SM08010012E	80	100	12
SM08010012PTFE	80	100	12
SM08010012RF	80	100	12
SM08010012RK	80	100	12
SM08010012.5PFA	80	100	12.5
SM080100125PFAV	80	100	12.5
SM08010013AP	80	100	13
SM08010013	80	100	13
SM08010013.2PWK	80	100	13.2
SM08010013.5PW	80	100	13.5
SM08010013.5	80	100	13.5
SM08010014.2RF	80	100	14.2
SM08010014.5PWK	80	100	14.5
SM08010015	80	100	15
SM08010015RK	80	100	15
DRM08010029	80	100	29
DRM08010030	80	100	30
SM08010512	80	105	12
SM08010515	80	105	15
SM08011012	80	110	12
SM08011015	80	110	15
SM00801606RV	80	160	1
SM08110016	81	100	16
SM08209210	82	92	10
SM08210210	82	102	10
SM08310314	83	103	14
SM08509306.5R	85	93	6.5
SM08509308RLK	85	93	8
SM08509311R	85	93	11
SM08509311.5	85	93	11.5
SM08509312RK	85	93	12
SM08509505	85	95	5
SM08509507.7RF	85	95	7.7
SM08509508.5	85	95	8.5
SM08509509	85	95	9
SM08509512	85	95	12
SM08509512RK	85	95	12
DRM08509522	85	95	22
SM085095.506	85	95.5	6
SM08509610	85	96	10
SM08509708.5R	85	97	8.5
SM08509709	85	97	9
DRM08509823	85	98	23
BRT085100B	85	100	2
BRT085100	85	100	3
SM08510009	85	100	9

PART #	ID	OD	H
SM08510009NOK	85	100	9
SM08510009R	85	100	9
SM08510009RK	85	100	9
SM08510009.5P	85	100	9.5
SM08510010E	85	100	10
SM08510010R	85	100	10
SM08510010AER	85	100	10
SM08510010RK	85	100	10
SM08510010	85	100	10
SM08510011.5RF	85	100	11.5
SM08510011.7RF	85	100	11.7
SM08510012AR	85	100	12
SM08510012E	85	100	12
SM08510012P	85	100	12
SM08510012RK	85	100	12
SM08510012	85	100	12
SM08510012.5AER	85	100	12.5
SM08510013R	85	100	13
SM08510025	85	100	25
SM08510209	85	102	9
SM085104.513PWK	85	104.5	13
SM085104.513PW	85	104.5	13
SM085104.514PWK	85	104.5	14
BRT085105B	85	105	
BRT085105	85	105	3
SM08510510	85	105	10
SM08510512RK	85	105	12
SM08510512R	85	105	12
SM08510512	85	105	12
SM08510512E	85	105	12
SM08510513PWK	85	105	13
SM08510514PW	85	105	14
SM08510514PWK	85	105	14
SM08510514.2RF	85	105	14.2
SM08510515AER	85	105	15
SM08510515	85	105	15
SM08510518	85	105	18
DRM08510528.5	85	105	28.5
SM08511012	85	110	12
SM08609611.5	86	96	11.5
SM08610112RLK	86	101	12
SM08610216R	86	102	16
SM08709511.5	87	95	11.5
SM08809608RLK	88	96	8
SM08810009	88	100	9
BRT088102	88	102	3
SM089.509709R	89.5	97	9
SM0900986.3RLK	90	98	6.3
SM09009806.3R	90	98	6.3
SM09009808RK	90	98	8
SM09009810.9RK	90	98	10.9
SM09009811.5RK	90	98	11.5

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM09010005	90	100	5
SM09010006.5	90	100	6.5
SM09010006.8	90	100	6.8
SM09010007RK	90	100	7
SM09010008E	90	100	8
SM09010009RK	90	100	9
SM09010009	90	100	9
SM09010010	90	100	10
SM09010010RF	90	100	10
SM09010011.5RK	90	100	11.5
SM09010012E	90	100	12
SM09010012DZ	90	100	12
SM09010012AER	90	100	12
SM09010012-AS	90	100	12
SM09010013R	90	100	13
SM09010209F	90	102	9
SM09010209RLK	90	102	9
SM09010214	90	102	14
BRT090105N	90	105	
BRT090105	90	105	3
SM09010506	90	105	6
BRT0901057N	90	105	7
SM09010508.4	90	105	8.4
SM09010508.5AR	90	105	8.5
SM09010509RK	90	105	9
SM09010509R	90	105	9
SM09010509NOK	90	105	9
SM09010509	90	105	9
SM09010510AER	90	105	10
SM09010510NOK	90	105	10
SM09010510RK	90	105	10
SM09010510R	90	105	10
SM09010511.4AER	90	105	11.4
SM09010511.4R	90	105	11.4
SM09010511.5RK	90	105	11.5
SM09010511.5	90	105	11.5
SM09010512RK	90	105	12
SM09010512	90	105	12
DRM09010523.5	90	105	23.5
DRM09010531.5	90	105	31.5
SM090106.2105RF	90	106.2	10.5
BRT090110B	90	110	2
BRT090110	90	110	3
SM09011009	90	110	9
SM09011010	90	110	10
SM09011011.5R	90	110	11.5
SM09011011.5RF	90	110	11.5
SM09011012E	90	110	12
SM09011012	90	110	12
SM09011012R	90	110	12
SM09011012R-K	90	110	12
SM09011012.3PWK	90	110	12.3
SM09011013RK	90	110	13
SM09011013	90	110	13
SM09011013.5RF	90	110	13.5

PART #	ID	OD	H
SM09011014RLK	90	110	14
SM09011014.5AER	90	110	14.5
SM09011015	90	110	15
SM09011015RK	90	110	15
SM09011017AER	90	110	17
DRM09011029	90	110	29
DRM09011030.5	90	110	30.5
BRT090115	90	115	3
SM09011512E	90	115	12
SM09011512	90	115	12
SM09011515	90	115	15
SM09012012	90	120	12
SM09012015	90	120	15
SM09109705	91	97	5
SM09109908RLK	91	99	8
SM09210006.3RLK	92	100	6.3
SM09210006.5R	92	100	6.5
BRT093103B	93	103	2
SM09510308RLK	95	103	8
SM09510311.5RK	95	103	11.5
SM09510507	95	105	7
SM09510508RLK	95	105	8
SM09510508.7R	95	105	8.7
SM09510510	95	105	10
SM09510510RF	95	105	10
SM09510510.7RF	95	105	10.7
SM09510511.5	95	105	11.5
SM09510512AR	95	105	12
BRT095110B	95	110	2
BRT095110	95	110	3
SM09511009	95	110	9
SM09511009RK	95	110	9
SM09511010	95	110	10
SM09511010AER	95	110	10
SM09511010NOK	95	110	10
SM09511010RK	95	110	10
SM09511012R	95	110	12
SM09511012RK	95	110	12
SM09511012PW	95	110	12
SM09511012	95	110	12
SM09511012E	95	110	12
SM09511211.7RF	95	112	11.7
BRT095115	95	115	3
SM09511512RK	95	115	12
SM09511512	95	115	12
SM09511512E	95	115	12
SM09511512R	95	115	12
SM09511513.5	95	115	13.5
SM09511514.2RF	95	115	14.2
SM09511514.5PWK	95	115	14.5
SM09511515	95	115	15
SM09511515AER	95	115	15

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
DRM09511526.5	95	115	26.5
SM09512012	95	120	12
SM09512013	95	120	13
SM09610511	96	105	11
SM09710511.5R	97	105	11.5
SM09710513R	97	105	13
SM09710513RLK	97	105	13
SM09710513AR	97	105	13
SM09710514	97	105	14
SM09711209R	97	112	9
SM09810708R	98	107	8
SM09810812FE	98	108	12
SM09811209	98	112	9
SM09811309R	98	113	9
SM09811810.5R	98	118	10.5
SM09910912R	99	109	12
SM09910913.5R	99	109	13.5
SM10010806.5R	100	108	6.5
SM10010808R	100	108	8
SM10010811.5RK	100	108	11.5
SM10011005	100	110	5
SM10011006	100	110	6
SM10011008	100	110	8
SM10011011	100	110	11
SM10011011.5R-K	100	110	11.5
SM10011014R	100	110	14
SM10011015	100	110	15
SM10011209	100	112	9
SM10011312.5AR	100	113	12.5
SM10011312.5R	100	113	12.5
DRM100114.323	100	114.3	23
BRT100115B	100	115	2
BRT100115	100	115	3
SM10011506P	100	115	6
SM10011509	100	115	9
SM10011509E	100	115	9
SM10011509R	100	115	9
SM10011509RK	100	115	9
SM10011510	100	115	10
SM10011510AER	100	115	10
SM10011510R	100	115	10
SM10011511RF	100	115	11
SM10011511RK	100	115	11
SM10011511.2RF	100	115	11.2
SM10011511.5RF	100	115	11.5
SM10011511.8R	100	115	11.8
SM10011512	100	115	12
SM10011512AR	100	115	12
SM10011512E	100	115	12
SM10011512RK	100	115	12
SM10011513.5R	100	115	13.5
SM10011515	100	115	15

PART #	ID	OD	H
BRT100120	100	120	3
KR10012006.5	100	120	6.5
SM10012010	100	120	10
SM10012011.7RF	100	120	11.7
SM10012012E	100	120	12
SM10012012RK	100	120	12
SM10012012	100	120	12
SM10012012AR	100	120	12
SM10012012.5PWK	100	120	12.5
SM10012013P	100	120	13
SM10012013.5R	100	120	13.5
SM10012013.5PW1	100	120	13.5
SM10012013.5PW	100	120	13.5
SM10012013.5	100	120	13.5
SM10012013.5RF	100	120	13.5
SM10012014F	100	120	14
SM10012014RF	100	120	14
SM10012014RK	100	120	14
SM10012014.2RF	100	120	14.2
SM10012014.5AER	100	120	14.5
SM10012014.5R	100	120	14.5
SM10012015	100	120	15
SM10012015RK	100	120	15
SM10012024RF	100	120	24
DRM10012030	100	120	30
SM10012510	100	125	10
SM10012512E	100	125	12
SM10012512	100	125	12
SM10012515	100	125	15
SM10012515RK	100	125	15
SM10012516.2AP	100	125	16.2
SM10013012P	100	130	12
SM10013012RK	100	130	12
SM10013015	100	130	15
SM10013018	100	130	18
SM100.411509	100.4	115	9
SM10311607.8R	103	116	7.8
SM10411705.3	104	117	5.3
SM104.511209R	104.5	112	9
SM104.511705.3	104.5	117	5.3
SM1051136.3RLK	105	113	6.3
SM10511306.3R	105	113	6.3
SM10511308RK	105	113	8
SM10511311	105	113	11
SM10511311.5RK	105	113	11.5
SM10511313.5R	105	113	13.5
SM10511509	105	115	9
SM10511510R	105	115	10
SM10511510RF	105	115	10
SM10511510.7RF	105	115	10.7
SM10511511.5R	105	115	11.5
SM10511512RK	105	115	12

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM10511513.5	105	115	13.5
DRM10511823.5	105	118	23.5
BRT105120	105	120	3
SM10512008	105	120	8
SM10512009	105	120	9
SM10512010R	105	120	10
SM10512010RK	105	120	10
SM10512011	105	120	11
SM10512012	105	120	12
SM10512012AER	105	120	12
SM10512013	105	120	13
SM10512015	105	120	15
DRM10512032	105	120	32
BRT105125	105	125	3
SM10512510	105	125	10
SM10512511	105	125	11
SM10512512R-K	105	125	12
SM10512512E	105	125	12
SM10512512RF	105	125	12
SM10512512PWK	105	125	12
SM10512512	105	125	12
SM10512512R	105	125	12
SM10512512.2RF	105	125	12.2
SM10512513	105	125	13
SM10512515	105	125	15
SM10512515E	105	125	15
SM10512515NOK	105	125	15
SM10512515P	105	125	15
SM10512516	105	125	16
SM10513012	105	130	12
SM10513015	105	130	15
SM10513018	105	130	18
SM10513514R	105	135	14
SM10611608RLK	106	116	8
SM10612008.4RK	106	120	8.4
SM10612008.5P	106	120	8.5
SM10612010R	106	120	10
SM10612109	106	121	9
SM10612616	106	126	16
SM10711305	107	113	5
SM10711508RLK	107	115	8
SM10713015	107	130	15
SM10811608RLK	108	116	8
SM11011811.5RK	110	118	11.5
BRT110120	110	120	3
SM11012006P	110	120	6
SM11012008	110	120	8
SM11012012	110	120	12
SM11012409.5	110	124	9.5
BRT110125B	110	125	2
BRT110125	110	125	3
SM11012509R	110	125	9

PART #	ID	OD	H
SM11012509RK	110	125	9
SM11012509KYB	110	125	9
SM11012509	110	125	9
SM11012509E	110	125	9
SM11012509.5RLK	110	125	9.5
SM11012510R	110	125	10
SM11012510P	110	125	10
SM11012511RF	110	125	11
SM11012511RK	110	125	11
SM11012511.7RF	110	125	11.7
SM11012512	110	125	12
SM11012512AER	110	125	12
SM11012512E	110	125	12
SM11012514.6AR	110	125	14
SM11012515	110	125	15
SM11012515RK	110	125	15
BRT110130N	110	130	
BRT110130	110	130	3
SM11013009	110	130	9
SM11013010	110	130	10
SM11013010NOK	110	130	10
SM11013010R	110	130	10
SM11013011	110	130	11
SM11013011.5AR	110	130	11.5
SM11013012AER	110	130	12
SM11013012S	110	130	12
SM11013012NOK	110	130	12
SM11013012PWK	110	130	12
SM11013012	110	130	12
SM11013012P	110	130	12
SM11013012RK	110	130	12
SM11013012.2RF	110	130	12.2
SM11013014.5AER	110	130	14.5
SM11013015	110	130	15
SM11013015AR	110	130	15
SM11013015NOK	110	130	15
SM11013016	110	130	16
DRM11013030	110	130	31
DRM11013235	110	132	35
SM11013515	110	135	15
SM11013515.2RF	110	135	15.2
SM11013518	110	135	18
SM11014015	110	140	15
SM11014018	110	140	18
SM11014515	110	145	15
BRT110.3124.7	110.3	124.7	1.9
SM11212509	112	125	9
SM11212509R	112	125	9
SM11212509P	112	125	9
SM11212710NOK	112	127	10
SM11212712RLK	112	127	12
SM11212712	112	127	12
BRT11213202	112	132	2

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM11213214	112	132	14
SM11213215	112	132	15
SM11213216	112	132	16
BRT11213302	112	133	2
SM11213314	112	133	14
SM11312306RK	113	123	6
SM11312509.6	113	125	9.6
SM11312710P	113	127	10
SM11312812RK	113	128	12
DRM11413019	114	130	19
SM114.812505.7	114.8	125	5.7
SM11512308RLK	115	123	8
SM11512508	115	125	8
SM11512512	115	125	12
SM11512512AR	115	125	12
SM11512515	115	125	15
SM11512714R	115	127	14
BRT115130N	115	130	
BRT115130B	115	130	2
BRT115130	115	130	3
SM11513009	115	130	9
SM11513009NOK	115	130	9
SM11513009R	115	130	9
SM11513010	115	130	10
SM11513012	115	130	12
SM11513013.5	115	130	13.5
SM11513014.5	115	130	14.5
SM11513015	115	130	15
DRM11513029	115	130	29
BRT115135	115	135	3
SM11513512RK	115	135	12
SM11513512R	115	135	12
SM11513512NOK	115	135	12
SM11513514RF	115	135	14
SM11513515	115	135	15
SM11513516R	115	135	16
SM11514012	115	140	12
SM11514015AP	115	140	15
SM11514015	115	140	15
SM11514018	115	140	18
SM11712713.5FE	117	127	13.5
SM11713010	117	130	10
SM11713012	117	130	12
SM11713309.2R	117	133	9.2
SM117.813309.2R	117.8	133	9.2
SM11812611.5RK	118	126	11.5
SM11812613RLK	118	126	13
SM11812614	118	126	14
SM11812614P	118	126	14
SM11813010	118	130	10

PART #	ID	OD	H
SM11813012	118	130	12
SM11813309P	118	133	9
SM11813309R	118	133	9
SM11813416R	118	134	16
SM119.512709R	119.5	127	9
SM1201286.3RLK	120	128	6.3
SM12012806.3R	120	128	6.3
SM12012811.5RLK	120	128	11.5
BRT120130	120	130	3
SM12013005	120	130	5
SM12013007	120	130	7
SM12013007.2R	120	130	7.2
SM12013010.2RF	120	130	10.2
SM12013011.5RK	120	130	11.5
SM12013012	120	130	12
SM12013013	120	130	13
SM12013013.5R	120	130	13.5
SM12013210	120	132	10
SM12013212	120	132	12
SM120132.7097RF	120	132.7	9.7
BRT120135B	120	135	2
BRT120135	120	135	3
SM12013509	120	135	9
SM12013511.5R	120	135	11.5
SM12013512	120	135	12
SM12013512.2RF	120	135	12.2
SM12013514.5AER	120	135	14.5
SM12013515	120	135	15
SM12013515RK	120	135	15
DRM12013521	120	135	21
SM120136.509R	120	136.5	9
BRT120140	120	140	3
SM12014010	120	140	10
SM12014011.5RF	120	140	11.5
SM12014012	120	140	12
SM12014012AP	120	140	12
SM12014012R	120	140	12
SM12014012AER	120	140	12
SM12014012RK	120	140	12
SM12014012.2RF	120	140	12.2
SM12014013	120	140	13
SM12014014.5	120	140	14.5
SM12014014.6AR	120	140	14.6
SM12014014.6RK	120	140	14.6
SM12014015	120	140	15
DRM12014029	120	140	29
SM12014512	120	145	12
SM12014515	120	145	15
SM12014518	120	145	18
SM12014518.5RF	120	145	18.5
SM12015015	120	150	15
SM12015015RK	120	150	15
SM12015019AP	120	150	19

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM12212808RLK	122	128	8
SM12414515	124	145	15
SM12513306.5R	125	133	6.5
SM12513308R	125	133	8
SM12513311.5RK	125	133	11.5
SM12513512RK	125	135	12
SM12513513.5R	125	135	13.5
BRT125140	125	140	3
SM12514008.5	125	140	8.5
SM12514009RK	125	140	9
SM12514009	125	140	9
SM12514009E	125	140	9
SM12514011	125	140	11
SM12514012	125	140	12
SM12514013	125	140	13
SM12514015E	125	140	15
SM12514015	125	140	15
BRT125145	125	145	3
SM12514510	125	145	10
SM12514512	125	145	12
SM12514512R	125	145	12
SM12514512R-K	125	145	12
SM12514513R	125	145	13
SM12514514.5AER	125	145	14.5
SM12514515	125	145	15
DRM12514528	125	145	28
SM12515013.2RF	125	150	13.2
SM12515014PWK	125	150	14
SM12515014RK	125	150	14
SM12515014.2RF	125	150	14.2
SM12515015	125	150	15
SM12515018	125	150	18
SM12515515	125	155	15
SM12515518	125	155	18
SM12613205	126	132	5
SM12613408RLK	126	134	8
SM12713508R	127	135	8
DRM12714221.5	127	142	21.5
SM12715116	127	151	16
SM13013811.5RK	130	138	11.5
SM13014006	130	140	6
SM13014008	130	140	8
SM13014012AR	130	140	12
SM13014509	130	145	9
SM13014510NOK	130	145	10
SM13014512	130	145	12
SM13014512.7RF	130	145	12.7
SM13014514.7RF	130	145	14.7
SM13014515	130	145	15
BRT130150N	130	150	
BRT130150	130	150	3
SM13015010	130	150	10

PART #	ID	OD	H
SM13015012	130	150	12
SM13015012KYB	130	150	12
SM13015012NOK	130	150	12
SM13015012R	130	150	12
SM13015014.5AER	130	150	14
SM13015014.5R	130	150	14.5
SM13015015P	130	150	15
SM13015015RK	130	150	15
SM13015015E	130	150	15
SM13015015	130	150	15
SM13015015.7RF	130	150	15.7
SM13015016R	130	150	16
SM13015016	130	150	16
DRM13015026	130	150	26
SM13015210P	130	152	10
SM13015213	130	152	13
SM13015215P	130	152	15
SM13015512	130	155	12
SM13015515	130	155	15
SM13016015	130	160	15
SM13016018	130	160	18
SM13016515	130	165	15
SM13214206R	132	142	6
SM13214508.5	132	145	8.5
SM13214509	132	145	9
SM13215215	132	152	15
SM13514308R	135	143	8
SM13514311.5RLK	135	143	11.5
SM13514508RLK	135	145	8
SM13514512AR	135	145	12
BRT135150	135	150	3
SM13515008.5RF	135	150	8.5
SM13515009P	135	150	9
SM13515011	135	150	11
SM13515011.5RK	135	150	11.5
SM13515012	135	150	12
SM13515013.7RF	135	150	13.7
SM13515015	135	150	15
SM13515512	135	155	12
SM13515515	135	155	15
DRM13515527	135	155	27
SM13516013.7RF	135	160	13.7
SM13516015	135	160	15
SM13516019	135	160	19
SM13516515	135	165	15
SM13614613.5FE	136	146	13.5
BRT136150	136	150	3
SM13615009	136	150	9
SM13715212R	137	152	12
SM139.815606R	139.8	156	6
SM14014806.3RLK	140	148	6.3

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM14014807	140	148	7
SM14015005	140	150	5
SM14015006	140	150	6
SM14015007R	140	150	7
SM14015011	140	150	11
SM14015011.5RK	140	150	11.5
SM14015015	140	150	15
SM14015210	140	152	10
SM14015509	140	155	9
SM14015510	140	155	10
SM14015510NOK	140	155	10
SM14015510R	140	155	10
SM14015512.7RF	140	155	12.7
DRM14015521	140	155	21
SM14015706	140	157	6
BRT140160	140	160	3
SM14016008	140	160	8
SM14016009	140	160	9
SM14016010	140	160	10
SM14016012R	140	160	12
SM14016012	140	160	12
SM14016012AP	140	160	12
SM14016012RF	140	160	12
SM14016012R-K	140	160	12
SM14016012.2RF	140	160	12.2
SM14016013P	140	160	13
SM14016013PWK	140	160	13
SM14016014P	140	160	14
SM14016014.2RF	140	160	14.2
SM14016014.5AER	140	160	14.5
SM14016014.5RK	140	160	14.5
SM14016015R	140	160	15
SM14016015	140	160	15
SM14016015E	140	160	15
SM14016015R-K	140	160	15
SM14016016	140	160	16
DRM14016027	140	160	27
DRM14016029	140	160	29
SM14016515	140	165	15
SM14016518	140	165	18
BRT140170	140	170	3
SM14017015	140	170	15
SM14017018	140	170	18
SM14017018RK	140	170	18
SM14017022.5RF	140	170	22.2
BRT140174	140	174	4
SM14115113.5R	141	151	13.5
SM14115114	141	151	14
SM14214808RLK	142	148	8
SM14215712RK	142	157	12
SM14315111.5RK	143	151	11.5
SM14315114	143	151	14

PART #	ID	OD	H
SM14515305	145	153	5
SM14515308RLK	145	153	8
SM145154.506R	145	154.5	6
SM14515506.5E	145	155	6.5
SM14515512RK	145	155	12
SM145157.7097RF	145	157.7	9.7
BRT145160B	145	160	
BRT145160	145	160	3
SM14516008	145	160	8
SM14516009	145	160	9
SM14516012	145	160	12
SM14516014P	145	160	14
SM14516515	145	165	15
DRM14516527	145	165	27
SM14517015	145	170	15
SM14517018	145	170	18
SM14517515	145	175	15
SM14517518	145	175	18
SM14816009.5	148	160	9.5
SM14817015P	148	170	15
SM14015515	150	155	15
SM15016012.5P	150	160	12.5
BRT150165	150	165	3
SM15016509	150	165	9
SM15016509R	150	165	9
BRT150170	150	170	3
SM15017010	150	170	10
SM15017010KYB	150	170	10
SM15017012KYB	150	170	12
SM15017012NOK	150	170	12
SM15017012RK	150	170	12
SM15017012	150	170	12
SM15017013.7RF	150	170	13.7
SM15017014.2RF	150	170	14.2
SM15017014.5AER	150	170	14.5
SM15017015	150	170	15
SM15018015	150	170	15
SM15017015E	150	170	15
SM15017016	150	170	16
DRM15017027	150	170	27
SM15018018	150	180	18
SM15018018RK	150	180	18
SM15216011.5R	152	160	11.5
SM154162.708R	154	162.7	8
SM15416911	154	169	11
SM15516512RK	155	165	12
SM15516513FE	155	165	13
SM15517009P	155	170	9
SM15517514P	155	175	14
SM15517515	155	175	15
DRM15517526.5	155	175	26.5
SM15518015	155	180	15

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM16017005	160	170	5
SM16017007.5	160	170	7.5
SM16017008RLK	160	170	8
SM16017011.5RK	160	170	11.5
SM16017012RLK	160	170	12
SM16017012	160	170	12
SM16017507.5	160	175	7.5
SM16017509	160	175	9
SM16017512	160	175	12
SM16017515	160	175	15
SM16017515.7RF	160	175	15.7
SM16017516	160	175	16
SM16517709	160	177	9
BRT160180N	160	180	
BRT160180	160	180	3
SM16018009P	160	180	9
SM16018010	160	180	10
SM16018011.5R	160	180	11.5
SM16018012NOK	160	180	12
SM16018012P	160	180	12
SM16018012	160	180	12
SM16018014.2RF	160	180	14.2
SM16018014.5F	160	180	14.5
SM16018014.5R	160	180	14.5
SM16018015	160	180	15
SM16018015RK	160	180	15
SM16018016	160	180	16
DRM16018026	160	180	26
DRM16018028	160	180	28
BRT160185	160	185	3.5
SM16018512	160	185	12
SM16018515RK	160	185	15
SM16018516R	160	185	16
SM16018516	160	185	16
SM16018518AER	160	185	18
SM16019015	160	190	15
SM16019018	160	190	18
SM16019022	160	190	22
SM16019517	160	195	17
SM16217213.5R	162	172	13.5
SM16317812R	163	178	12
SM16517512RK	165	175	12
SM16517709E	165	177	9
SM16518009	165	180	9
SM16518009P	165	180	9
SM16518009.5	165	180	9.5
SM16818014P	165	180	14
SM17018014.5R	165	180	14.5
SM16518015	165	180	15
SM16518515	165	185	15
DRM16518528.5	165	185	28.5
SM16519015	165	190	15
SM16519016	165	190	16
SM16519520	165	195	20
SM17018313	170	183	13
BRT1701905N	170	190	5
BRT1701905	170	190	5
SM17019012	170	190	12
SM17019012KYB	170	190	12
SM17019012NOK	170	190	12
SM17019012R	170	190	12
SM17019014.5R	170	190	14.5
SM17019015	170	190	15
BRT170195	170	195	3
BRT170195B	170	195	3.5
SM17019512	170	195	12
SM17019515	170	195	15
SM17019516	170	195	16
SM17019516NOK	170	195	16
SM17019516R	170	195	16
DRM17019534	170	195	34
SM17020015RK	170	200	15
SM17020015	170	200	15
SM17020018	170	200	18
SM17020022	170	200	22
SM17021520	170	215	20
SM17117914	171	179	14
SM17117914P	171	179	14
SM17218011.5R	172	180	11.5
SM17218712RK	172	187	12
SM17518512RK	175	185	12
BRT175190	175	190	3
SM17519009P	175	190	9
SM17519515	175	195	15
BRT1752004	175	200	4
SM17520015	175	200	15
SM17520015E	175	200	15
SM17520018.2P	175	200	18.2
SM17520022.7RF	175	200	22.7
SM17520515	175	205	15
SM17521520	175	215	20
SM17521520RK	175	215	20
SM17618816.5FE	176	188	16.5
SM17818810R	178	188	10
SM18019010	180	190	10
SM18019010R	180	190	10
SM18019011RLK	180	190	11
SM18019511.5RK	180	195	11.5
SM18019512R	180	195	12
SM18019512.5R	180	195	12.5
SM18019618R	180	196	18
BRT180200	180	200	3

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



P KYB PW PWK PFA RF DRM R E U F AER R K

NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM18020012.5	180	200	12.5
SM18020014PWK	180	200	14
SM18020014.2RF	180	200	14.2
SM18020015	180	200	15
SM18020015JPU	180	200	15
BRT180205	180	205	3
SM18020512	180	205	12
SM18020515	180	205	15
SM18020516NOK	180	205	16
SM18020516NOK-P	180	205	16
SM18020516	180	205	16
DRM18020535	180	205	30
DRM18020533	180	205	33
SM18020518	180	205	118
SM18021015	180	210	15
SM18021020.2RF	180	210	20.2
SM18021022	180	210	22
SM18021515	180	215	15
SM18319313.5R	183	193	13.5
SM18319314	183	193	14
SM18519508RLK	185	195	8
SM18519512	185	195	12
SM18520007.5	185	200	7.5
SM18520009	185	200	9
SM18520012	185	200	12
SM18520015	185	200	15
DRM18520021	185	200	21
SM18520515	185	205	15
SM18521015	185	210	15
SM18521016	185	210	16
DRM18521033	185	210	33
SM18521515	185	215	15
SM18521619R	185	216	19
SM18820312R	188	203	12
SM19020515	190	205	15
SM19020516	190	205	16
BRT190210	190	210	3
SM19021012P	190	210	12
SM19021014.2RF	190	210	14.2
SM19021015	190	215	15
SM19021015RK	190	215	15
SM19021515	190	215	15
SM19021516	190	215	16
DRM19021533	190	215	33
SM19022015	190	220	15
SM19022016	190	220	16
SM19022019PFA	190	220	19
SM19022022	190	220	22
SM19022025	190	220	25
SM19521512	195	215	12
SM19521515AR	195	215	15
SM19522016P	195	220	16

PART #	ID	OD	H
SM19820811.7RF	198	208	11.7
SM19821017.5FE	198	210	17.5
SM20021215RK	200	212	15
SM20021512	200	215	12
SM20022010.5R	200	220	10.5
SM20022012E	200	220	12
SM20022012	200	220	12
SM20022014.2RF	200	220	14.2
SM20022015E	200	220	15
SM20022015R	200	220	15
SM20022015RK	200	220	15
SM20022015	200	220	15
SM20022018	200	220	18
BRT2002255	200	225	5
SM20022515	200	225	15
SM20022515R	200	225	15
SM20022516	200	225	16
SM20022516KYB	200	225	16
SM20022516NOK	200	225	16
SM20022516NOK-NBR	200	225	16
SM20022519R	200	225	19
SM20022520	200	225	20
DRM20022533	200	225	33
SM20023015	200	230	15
SM20023018	200	230	18
SM20023022	200	230	22
SM20023520	200	235	20
SM20024020	200	240	20
SM20522012.5R	205	220	12.5
SM20523020	205	230	20
SM20721713.5R	207	217	13.5
SM20721714	207	217	14
SM21022011RLK	210	220	11
SM21022515	210	225	15
BRT210230	210	230	3
SM21023012	210	230	12
SM21023012R	210	230	12
SM21023015RK	210	230	15
SM21023015	210	230	15
BRT210235	210	235	3
SM21023515	210	235	15
SM21023516NOK	210	235	16
SM21023518.2AR	210	235	18.2
SM21024015	210	240	15
SM21024018	210	240	18
SM21024022.2RF	210	240	22.2
SM21024028R	210	240	28
SM21222410R	212	221	10
SM21222212RK	212	222	12
SM21222308RLK	212	223	8
SM21223719E	212	237	19

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM21522512R	215	225	12
SM21524015	215	240	15
SM21524016P	215	240	16
SM21524016	215	240	16
SM21524019	215	240	19
DRM21524033	215	240	33
SM21524518	215	245	18
SM22024012	220	240	12
SM22024015	220	240	15
SM22024015R	220	240	15
DRM22024021.5	220	240	21.5
SM22024515R	220	245	15
SM22024518	220	245	18
SM22025015	220	250	15
SM22025018RK	220	250	18
SM22025018	220	250	18
SM22025019R	220	250	19
SM22025020.2RF	220	250	20.2
SM22025022.7R	220	250	22.7
BRT223254	223	254	5
SM22524012	225	240	12
SM22524211	225	242	11
SM22525015	225	250	15
SM22525015JPU	225	250	15
SM22525019P	225	250	19
DRM22525033	225	250	33
SM22525526	225	255	26
SM22625016P	226	250	16
SM22825012HPU	228	250	12
SM23025012	230	250	12
SM23025012.5	230	250	12.5
SM23025015	230	250	15
SM23025015P	230	250	15
SM23025018	230	250	18
SM23025518	230	255	18
SM23025522P	230	255	22
DRM23025533	230	255	33
SM23026018	230	260	18
SM23026018RK	230	260	18
SM23026020KYB	230	260	20
SM23026020.2RF	230	260	20.2
SM23026022	230	260	22
SM23124114.5R	231	241	14.5
SM23525410R	235	254	10
SM23525512	235	255	12
SM23526019	235	260	19
SM23526019.1E	235	260	19.1
SM23626119E	236	261	19

PART #	ID	OD	H
SM23825014P	238	250	14
SM24025012R	240	250	12
SM24026015RK	240	260	15
SM24026016	240	260	16
SM24026016P	240	260	16
SM24026516	240	265	16
SM24026518	240	265	18
DRM24026534	240	265	34
SM24027018	240	270	18
SM24027018R	240	270	18
SM24527015	245	270	15
SM24527518RK	245	275	18
SM24527518	245	275	18
SM25027015	250	270	15
SM25027015R	250	270	15
BRT250275	250	275	3
SM25027518	250	275	18
SM25027519	250	275	19
SM25028018P	250	280	18
SM25028018	250	280	18
SM25028019	250	280	19
SM25028020KYB	250	280	20
SM25028022	250	280	22
SM25227310R	252	273	10
SM25227310R-K	252	273	10
SM25827815RK	258	278	15
SM26028014	260	280	14
SM26028014.6AR	260	280	14.6
SM26029018	260	290	18
SM26529519	265	295	19
SM27030012P	270	300	12
SM27030018	270	300	18
SM27030019	270	300	19
SM27529511AR	275	295	11
SM27530016	275	300	16
SM28030015	280	300	15
SM28030016	280	300	16
SM28030018	280	300	18
DRM28030532.5	280	305	32.5
SM28031018RK	280	310	18
SM28031019R	280	310	19
SM28032020	280	320	20
SM29031012	290	310	12
BRT290320	290	320	2
SM29032018	290	320	18
SM29032019P	290	320	19
SM29032020P	290	320	20
SM30032015	300	320	15

SINGLE ACTING -- METRIC

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DRM--- rod only ++++ KYB- -- piston only



P KYB PW PWK PFA RF DRM R E U F AER R K

NO LETTERS AT THE END OF PART # DENOTES STYLE "u" OTHERWISE LETTERS DENOTE / PICTURE ABOVE

PART #	ID	OD	H
SM30033017	300	330	17
SM30033018	300	330	18
SM30033019	300	330	19
SM30033020KYB	300	330	20
SM31033015	310	330	15
SM31034022	310	340	22
SM32033008HD	320	330	8
SM32035015	320	350	15
SM32035019	320	350	19
SM32536020	325	360	20
SM33035015	330	350	15
BRT332352B	332	352	2
SM34036015	340	360	15
SM36038016	360	380	16
SM36040030AER	360	400	30
SM37040022P	370	400	22
SM37539512	375	395	12
SM40042519	400	425	19
SM42045022P	420	450	22
SM43045015	430	450	15
SM60064030E	600	640	30

PART #	ID	OD	H

SINGLE ACTING (IMPERIAL)

PISTON ONLY



KYB	P	PW	PWK
NITRILE / FABRIC ACETAL SUPPORT / BEARING	URETHANE	NITRILE / FABRIC ACETAL SUPPORT / BEARING	PW WITH KEEPER RING

ROD ONLY

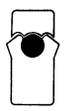


RW	AR	AER	RF	DR	R	R	FE	TRR
NITRILE / FABRIC ACETAL SUPPORT / BEARING	URETHANE	URETHANE ENERGIZED	NITRILE / FABRIC	NITRILE / FABRIC	URETHANE WITH SEAL BACKUP	URETHANE	HOIST SEAL	NITRILE SEAL WITH BACKUP

WITH ANTI EXTRUSION RING

TYPE -- *KYB* PISTON ONLY **SEE PAGE 188**

TYPE -- *DR* ROD ONLY **SEE PAGE 186**



Single acting seal with "PIP" ring converted for double acting use.

A large range of "PIP" rings are available exstock

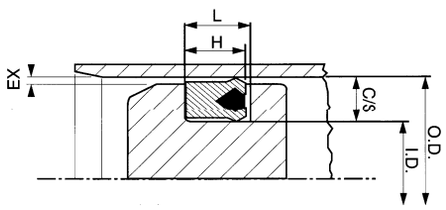
ROD or PISTON



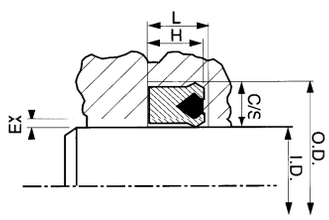
URETHANE ENERGIZED	URETHANE	NITRILE / FABRIC

SHOCK LOADING ? -- BUFFER SEALS and/or BACKUPS MAY ALSO BE REQUIRED

PISTON APPLICATIONS



ROD APPLICATIONS



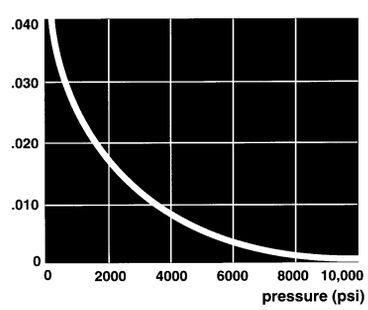
GROOVE WIDTH

H	1/8	3/16	1/4	5/16	3/8	1/2	9/16	5/8	3/4
L	.138	.207	.275	.344	.413	.550	.619	.688	.825
TOLERANCE	+.015 -.000	+.015 -.000	+.015 -.000	+.015 -.000	+.015 -.000	+.015 -.000	+.015 -.000	+.015 -.000	+.015 -.000

GROOVE DEPTH

C/S		DIA. TOLERANCES			
		ROD APPLICATIONS		PISTON APPLICATIONS	
FRAC.	DEC.	ROD DIA.	GROOVE DIA.	CYL. DIA.	GROOVE DIA.
1/8	.125	+.000 -.001	+.002 -.000	+.002 -.000	+.000 -.002
3/16	.187	+.000 -.002	+.002 -.000	+.002 -.000	+.000 -.002
1/4	.250	+.000 -.002	+.003 -.000	+.003 -.000	+.000 -.003
5/16	.312	+.000 -.002	+.004 -.000	+.003 -.000	+.000 -.004
3/8	.375	+.000 -.002	+.005 -.000	+.004 -.000	+.000 -.005
1/2	.500	+.000 -.003	+.007 -.000	+.005 -.000	+.000 -.007
5/8	.625	+0.000 -0.003	+0.009 -0.000	+0.006 -0.000	+0.000 -0.009

SUGGESTED MAXIMUM EXTRUSION GAPS (EX)



The **EXTRUSION GAP CHART** provides recommendations for the maximum acceptable extrusion gap at various pressure ranges. Eccentricity, ovality, bearing clearance, and normal wear of the mating parts must be considered when calculating the extrusion gap. This chart is intended as a guide and each application should be thoroughly tested.

Seals fitted with Anti Extrusion Rings - e.g. AER-may have extrusion gap 2 to 3 times as great as standard seals

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DR --- rod only ++++ KYB- -- piston only



LETTERS AT END OF PART # DENOTE STYLE / PICTURE ABOVE

PART #	ID	OD	HT
SA018043125E	0.187	0.437	0.125
SA018043250U	0.187	0.437	0.25
SA018043250E	0.187	0.437	0.25
SA018050250F	0.187	0.5	0.25
SA018050250U	0.187	0.5	0.25
SA018056187EV	0.187	0.562	0.187
SA018056187E	0.187	0.562	0.187
SA018068187E	0.187	0.687	0.187
SA025043197U	0.25	0.437	0.197
SA025050125U	0.25	0.5	0.125
SA025050187P	0.25	0.5	0.187
SA025050187F	0.25	0.5	0.187
SA025050250E	0.25	0.5	0.25
SA025050250U	0.25	0.5	0.25
SA025056250F	0.25	0.562	0.25
SA025062187E	0.25	0.625	0.187
SA025062187U	0.25	0.625	0.187
SA025062312U	0.25	0.625	0.312
SA031050187U	0.312	0.5	0.187
SA031056125EV	0.312	0.562	0.125
SA031056125E	0.312	0.562	0.125
SA031056250E	0.312	0.562	0.25
SA031062193EV	0.312	0.625	0.193
SA031062250F	0.312	0.625	0.25
SA031062250U	0.312	0.625	0.25
SA031068187E	0.312	0.687	0.187
SA031068187U	0.312	0.687	0.187
SA037062125E	0.375	0.625	0.125
SA037062125U	0.375	0.625	0.125
SA037062250E	0.375	0.625	0.25
SA037062250U	0.375	0.625	0.25
SA037075187PV	0.375	0.75	0.187
SA037075187E	0.375	0.75	0.187
SA037075197E	0.375	0.75	0.197
SA037075250E	0.375	0.75	0.25
SA037075281F	0.375	0.75	0.281
SA037075312E	0.375	0.75	0.312
SA037087250E	0.375	0.875	0.25
SA037100312EP	0.375	1	0.312
SA043068125E	0.437	0.687	0.125
SA043068125U	0.437	0.687	0.125
SA043068250E	0.437	0.687	0.25
SA043068250U	0.437	0.687	0.25
SA043075156R	0.437	0.75	0.156
SA043075187U	0.437	0.75	0.187
SA043081187E	0.437	0.812	0.187

PART #	ID	OD	HT
SA043081250U	0.437	0.812	0.25
SA043081281F	0.437	0.812	0.281
SA043093375E	0.437	0.937	0.375
SA046068125P	0.46	0.68	0.125
SA050075125E	0.5	0.75	0.125
SA050075125P	0.5	0.75	0.125
SA050075125U	0.5	0.75	0.125
SA050075187E	0.5	0.75	0.187
SA050075187R	0.5	0.75	0.187
SA050075250E	0.5	0.75	0.25
SA050087281F	0.5	0.87	0.281
SA050087187E	0.5	0.875	0.187
SA050087250P	0.5	0.875	0.25
SA050087312E	0.5	0.875	0.312
SA050100250U	0.5	1	0.25
SA050100250E	0.5	1	0.25
SA050100375E	0.5	1	0.375
SA050100750E	0.5	1	0.75
SA056081125E	0.562	0.812	0.125
SA056081187R	0.562	0.812	0.187
SA056081185TRR	0.562	0.812	0.187
SA056081250P	0.562	0.812	0.25
SA056093187U	0.562	0.937	0.187
SA056093187E	0.562	0.937	0.187
SA056093281F	0.562	0.937	0.281
SA056106250E	0.562	1.062	0.25
SA062081187R	0.625	0.812	0.187
SA062087125P	0.625	0.875	0.125
SA062087125E	0.625	0.875	0.125
SA062087187E	0.625	0.875	0.187
SA062087250E	0.625	0.875	0.25
SA062087250R	0.625	0.875	0.25
SA062100187E	0.625	1	0.187
SA062100187U	0.625	1	0.187
SA062100250E	0.625	1	0.25
SA062100281F	0.625	1	0.281
SA062100312E	0.625	1	0.312
SA062112250E	0.625	1.125	0.25
SA062112250U	0.625	1.125	0.25
SA062112375E	0.625	1.125	0.375
SA068093125E	0.687	0.937	0.125
SA068093250E	0.687	0.937	0.25
SA068106250P	0.687	1.062	0.25
SA068118375E	0.687	1.187	0.375
BRTI075100125	0.75	1	0.125
SA075100125U	0.75	1	0.125

SINGLE ACTING -- IMPERIAL

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DR --- rod only ++++ KYB- -- piston only



LETTERS AT END OF PART # DENOTE STYLE / PICTURE ABOVE

PART #	ID	OD	HT
SA075100125E	0.75	1	0.125
SA075100187E	0.75	1	0.187
SA075100187U	0.75	1	0.187
SA075100187F	0.75	1	0.187
SA075100187R	0.75	1	0.187
SA075100185TRR	0.75	1	0.187
SA075100250AR	0.75	1	0.25
SA075100250R-K	0.75	1	0.25
SA075100250FR20	0.75	1	0.25
SA075100250RDZ	0.75	1	0.25
SA075100250E	0.75	1	0.25
SA075106156E	0.75	1.062	0.156
SA075109281F	0.75	1.094	0.281
SA075112187EHP	0.75	1.125	0.187
SA075112187E	0.75	1.125	0.187
SA075112250E	0.75	1.125	0.25
SA075112250U	0.75	1.125	0.25
SA075112250P	0.75	1.125	0.25
SA075112312E	0.75	1.125	0.312
SA075112375E	0.75	1.125	0.375
SA075125250E	0.75	1.25	0.25
SA075125250P	0.75	1.25	0.25
SA075125312P	0.75	1.25	0.312
SA075125375F	0.75	1.25	0.375
SA075125375E	0.75	1.25	0.375
SA075137312E	0.75	1.375	0.312
SA075137312EP	0.75	1.375	0.312
SA075150375E	0.75	1.5	0.375
SA081106125E	0.812	1.062	0.125
SA081106187R-H	0.812	1.062	0.187
SA081106250E	0.812	1.062	0.25
SA081118187E	0.812	1.187	0.187
SA081118344U	0.812	1.187	0.344
SA081131375E	0.812	1.312	0.375
SA081131375F	0.812	1.312	0.375
SA087112125U	0.875	1.125	0.125
SA087112125E	0.875	1.125	0.125
SA087112125R	0.875	1.125	0.125
SA087112156F	0.875	1.125	0.156
SA087112187E	0.875	1.125	0.187
SA087112187R	0.875	1.125	0.187
SA087112250E	0.875	1.125	0.25
SA087112250FR20	0.875	1.125	0.25
SA087112250R	0.875	1.125	0.25
SA087112250RK33	0.875	1.125	0.25
SA087112250U	0.875	1.125	0.25

PART #	ID	OD	HT
SA087125187E	0.875	1.25	0.187
SA087125187R	0.875	1.25	0.187
SA087125250E	0.875	1.25	0.25
SA087125250U	0.875	1.25	0.25
SA087125312E	0.875	1.25	0.312
SA087125312U	0.875	1.25	0.312
SA087125343F	0.875	1.25	0.343
SA087125375F	0.875	1.25	0.375
SA087137250E	0.875	1.375	0.25
SA087137250P	0.875	1.375	0.25
SA087137375E	0.875	1.375	0.375
SA087137375F	0.875	1.375	0.375
SA087150312E	0.875	1.5	0.312
SA093118250E	0.937	1.187	0.25
SA093125187E	0.937	1.25	0.187
SA093131187E	0.937	1.312	0.187
SA093131312E	0.937	1.312	0.312
SA093143250E	0.937	1.437	0.25
SA093143250R	0.937	1.437	0.25
SA093143250U	0.937	1.437	250
SA100125156U	1	1.125	0.156
SA100125250U	1	1.125	0.25
SA100124187R	1	1.24	0.187
BRTI100125125	1	1.25	0.125
SA100125125E	1	1.25	0.125
SA100125125U	1	1.25	0.125
SA100125185TRR	1	1.25	0.187
SA100125187RF	1	1.25	0.187
SA100125187FR20	1	1.25	0.187
SA100125187E	1	1.25	0.187
SA100125187F	1	1.25	0.187
SA100125250FR20	1	1.25	0.25
SA100125250AR	1	1.25	0.25
SA100125250ARV	1	1.25	0.25
SA100125250EH	1	1.25	0.25
SA100125250RK	1	1.25	0.25
SA100125250E	1	1.25	0.25
BRTI100131062	1	1.312	0.062
SA100131156E	1	1.312	0.156
SA100131224E	1	1.315	0.224
SA100137187E	1	1.375	0.187
SA100137187U	1	1.375	0.187
SA100137218E	1	1.375	0.21
SA100137250FR20	1	1.375	0.25
SA100137250E	1	1.375	0.25
SA100137250R	1	1.375	0.25

SINGLE ACTING -- IMPERIAL

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DR --- rod only ++++ KYB- -- piston only



LETTERS AT END OF PART # DENOTE STYLE / PICTURE ABOVE

PART #	ID	OD	HT
SA100137312E	1	1.375	0.312
SA100137312R	1	1.375	0.312
SA100137312EV	1	1.375	0.312
SA100137375E	1	1.375	0.375
SA100137437E	1	1.375	0.437
SA100143250P	1	1.437	0.25
SA100150125V	1	1.5	0.125
SA100150250U-H	1	1.5	0.25
SA100150250RF	1	1.5	0.25
SA100150250R	1	1.5	0.25
SA100150250F	1	1.5	0.25
SA100150250EV	1	1.5	0.25
SA100150250E	1	1.5	0.25
SA100150312P	1	1.5	0.312
SA100150375E	1	1.5	0.375
SA100150375RF	1	1.5	0.375
SA100150375R	1	1.5	0.375
SA100150375F	1	1.5	0.375
SA100150382RF	1	1.5	0.382
DR100150075	1	1.5	0.75
SA100162312E	1	1.625	0.312
SA100162437E	1	1.625	0.437
SA100162437F	1	1.625	0.437
SA100162500E	1	1.625	0.5
SA100175375E	1	1.75	0.375
SA106131187E	1.062	1.312	0.187
SA106137312E	1.062	1.375	0.312
SA106143187E	1.062	1.437	0.187
SA106143312E	1.062	1.437	0.312
SA106156250P	1.062	1.562	0.25
SA106131125E	1.062	1.937	0.125
SA106156250E	1.062	1.937	0.25
SA106131250E	1.062	1.937	0.25
SA106156375E	1.062	1.937	0.375
BRTI112137062A	1.125	1.375	0.062
SA112137125E	1.125	1.375	0.125
SA112137187HPU	1.125	1.375	0.187
SA112137187E	1.125	1.375	0.187
SA112137250U	1.125	1.375	0.25
SA112137250E	1.125	1.375	0.25
SA125150125E	1.125	1.5	0.125
BRTI112150125	1.125	1.5	0.125
SA112150187E	1.125	1.5	0.187
SA112150250U	1.125	1.5	0.25
SA112150250E	1.125	1.5	0.25
SA112150312U	1.125	1.5	0.312

PART #	ID	OD	HT
SA112150312E	1.125	1.5	0.312
BRTI112150312	1.125	1.5	0.312
SA112150375E	1.125	1.5	0.375
SA112156353RF	1.125	1.562	0.353
SA112162250EHP	1.125	1.625	0.25
SA112162250E	1.125	1.625	0.25
SA112162250M	1.125	1.625	0.25
SA112162250U	1.125	1.625	0.25
SA112162312E	1.125	1.625	0.312
SA112162312U	1.125	1.625	0.312
SA112162375F	1.125	1.625	0.375
SA112162375E	1.125	1.625	0.375
SA125175250F	1.125	1.75	0.25
SA112175312E	1.125	1.75	0.312
SA112175375E	1.125	1.75	0.375
SA112175375P	1.125	1.75	0.375
SA112175437E	1.125	1.75	0.437
SA112175437F	1.125	1.75	0.437
SA112175500E	1.125	1.75	0.5
SA112187375E	1.125	1.875	0.375
SA112200625E	1.125	2	0.625
SA112200625F	1.125	2	0.625
SA118143125E	1.187	1.437	0.125
SA118143250E	1.187	1.437	0.25
BRTI118150062	1.187	1.5	0.062
SA118150156E	1.187	1.5	0.156
SA118150156U	1.187	1.5	0.156
SA118150250R	1.187	1.5	0.25
SA118156250E	1.187	1.562	0.25
SA118156312E	1.187	1.562	0.312
SA118156375E	1.187	1.562	0.375
SA118162250P	1.187	1.625	0.25
SA118168250E	1.187	1.687	0.25
SA118168375P	1.187	1.687	0.375
SA118168375E	1.187	1.687	0.375
BRTI125150125	1.25	1.5	0.125
SA125150156U	1.25	1.5	0.156
SA125150187E	1.25	1.5	0.187
SA125150250RK33	1.25	1.5	0.25
SA125150250R	1.25	1.5	0.25
SA125150250FR20	1.25	1.5	0.25
SA125150250EH	1.25	1.5	0.25
SA125150250E	1.25	1.5	0.25
SA125150250ARV	1.25	1.5	0.25
SA125150250AR	1.25	1.5	0.25
SA125150250AER	1.25	1.5	0.25

SINGLE ACTING -- IMPERIAL

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DR --- rod only ++++ KYB- -- piston only



LETTERS AT END OF PART # DENOTE STYLE / PICTURE ABOVE

PART #	ID	OD	HT
SA125150312E	1.25	1.5	0.312
SA125150625E	1.25	1.5	0.625
SA125156156F	1.25	1.562	0.156
SA125156156E	1.25	1.562	0.156
SA125162250R	1.25	1.62	0.25
BRTI125162125	1.25	1.625	0.125
SA125162187E	1.25	1.625	0.187
SA125162187R	1.25	1.625	0.187
SA125162227R	1.25	1.625	0.227
SA125162250E	1.25	1.625	0.25
SA125162250AR	1.25	1.625	0.25
SA125162250RF	1.25	1.625	0.25
SA125162250AER	1.25	1.625	0.25
SA125162265E	1.25	1.625	0.265
SA125162312RK	1.25	1.625	0.312
SA125162312RDZ	1.25	1.625	0.312
BRTI125162312	1.25	1.625	0.312
SA125162312E	1.25	1.625	0.312
SA125162375E	1.25	1.625	0.375
SA125168375E	1.25	1.687	0.375
BRTI125175125	1.25	1.75	0.125
SA125175250E	1.25	1.75	0.25
SA125175250U	1.25	1.75	0.25
SA125175250R	1.25	1.75	0.25
SA125175281F	1.25	1.75	0.281
SA125175375RF	1.25	1.75	0.375
SA125175375F	1.25	1.75	0.375
SA125175375E	1.25	1.75	0.375
SA125175375FU	1.25	1.75	0.375
SA125175375R	1.25	1.75	0.375
DR125175075	1.25	1.75	0.75
SA125187312EV	1.25	1.875	0.312
SA125187312P	1.25	1.875	0.312
SA125187312E	1.25	1.875	0.312
SA125187375E	1.25	1.875	0.375
SA125187397R	1.25	1.875	0.397
SA125187437E	1.25	1.875	0.437
SA125187437F	1.25	1.875	0.437
SA125187437RF	1.25	1.875	0.437
SA125187445RF	1.25	1.875	0.445
SA125187500E	1.25	1.875	0.5
BRTI125200125	1.25	2	0.125
SA125200250E	1.25	2	0.25
SA125200375E	1.25	2	0.375
SA125200468RF	1.25	2	0.468
SA131156125E	1.312	1.562	0.125
SA131156156E	1.312	1.562	0.156

PART #	ID	OD	HT
SA131156185TRR	1.312	1.562	0.187
SA131156375E	1.312	1.562	0.375
SA131159187R	1.312	1.594	0.187
SA131168312E	1.312	1.687	0.312
SA131175375P	1.312	1.75	0.375
SA131181375E	1.312	1.812	0.375
SA137162125E	1.375	1.625	0.125
BRTI137162125	1.375	1.625	0.125
SA137162156U	1.375	1.625	0.156
SA137162187E	1.375	1.625	0.187
SA137162250R	1.375	1.625	0.25
SA137162250AR	1.375	1.625	0.25
SA137162250E	1.375	1.625	0.25
SA137162250EH	1.375	1.625	0.25
SA137162250FR20	1.375	1.625	0.25
SA137165187U	1.375	1.656	0.187
BRTI137168062	1.375	1.687	0.062
SA137168156E	1.375	1.687	0.156
SA137168187E	1.375	1.687	0.187
SA137168218U	1.375	1.687	0.218
SA137168250E	1.375	1.687	0.25
BRTI137175125	1.375	1.75	0.125
SA137175187E	1.375	1.75	0.187
SA137175187R	1.375	1.75	0.187
SA137175250E	1.375	1.75	0.25
SA137175250FR20	1.375	1.75	0.25
SA137175275P	1.375	1.75	0.275
SA137175312E	1.375	1.75	0.312
SA137175312U	1.375	1.75	0.312
SA137175312V	1.375	1.75	0.312
SA137175312R	1.375	1.75	0.312
BRTI137175312	1.375	1.75	0.312
SA137175375E	1.375	1.75	0.375
SA137187250E	1.375	1.875	0.25
SA137187312E	1.375	1.875	0.312
SA137187375AER-H	1.375	1.875	0.375
SA137187375E	1.375	1.875	0.375
SA137187375R	1.375	1.875	0.375
SA137193375P	1.375	1.937	0.375
SA137200312E	1.375	2	0.312
SA137200312R	1.375	2	0.312
SA137200323RF	1.375	2	0.323
SA137200375R	1.375	2	0.375
SA137200375E	1.375	2	0.375
SA137200437PWK	1.375	2	0.437
SA137200437E	1.375	2	0.437
SA137200500E	1.375	2	0.5

SINGLE ACTING -- IMPERIAL

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DR --- rod only ++++ KYB- -- piston only



LETTERS AT END OF PART # DENOTE STYLE / PICTURE ABOVE

PART #	ID	OD	HT
SA137212375E	1.375	2.125	0.375
SA143168125E	1.437	1.687	0.125
SA143168139E	1.437	1.687	0.139
SA143168250E	1.437	1.687	0.25
SA143181312E	1.437	1.812	0.312
SA143193375E	1.437	1.812	0.375
SA150175125E	1.5	1.75	0.125
BRTI150175125	1.5	1.75	0.125
SA150175185TRR	1.5	1.75	0.187
SA150175187E	1.5	1.75	0.187
SA150175250ARV	1.5	1.75	0.25
SA150175250E	1.5	1.75	0.25
SA150175250FR20	1.5	1.75	0.25
SA150175250R	1.5	1.75	0.25
SA150175250AR	1.5	1.75	0.25
SA150181312E	1.5	1.812	0.312
SA150187187TRR	1.5	1.875	0.187
SA150187187E	1.5	1.875	0.187
SA150187187R	1.5	1.875	0.187
SA150187250E	1.5	1.875	0.25
SA150187250F	1.5	1.875	0.25
SA150187250R	1.5	1.875	0.25
SA150187250RF	1.5	1.875	0.25
SA150187250TRR	1.5	1.875	0.25
SA150187250U	1.5	1.875	0.25
SA150187250AER	1.5	1.875	0.25
SA150187250FR20	1.5	1.875	0.25
SA150187280TRR	1.5	1.875	0.281
SA150187294FR20	1.5	1.875	0.294
SA150187295DZBN	1.5	1.875	0.295
SA150187312R	1.5	1.875	0.312
SA150187312E	1.5	1.875	0.312
SA150187312RK33	1.5	1.875	0.312
SA150187375E	1.5	1.875	0.375
SA150187375RK	1.5	1.875	0.375
SA150187375FR20	1.5	1.875	0.375
DR150200093	1.5	2	0.093
BRTI150200125	1.5	2	0.125
SA150200250E	1.5	2	0.25
SA150200250R	1.5	2	0.25
SA150200250U	1.5	2	0.25
SA150200250EP	1.5	2	0.25
SA150200281U	1.5	2	0.281
SA150200312E	1.5	2	0.312
SA150200375U	1.5	2	0.375
SA150200375E	1.5	2	0.375

PART #	ID	OD	HT
SA150200375EH	1.5	2	0.375
SA150200375F	1.5	2	0.375
SA150200375P	1.5	2	0.375
SA150200375R	1.5	2	0.375
SA150200375RF	1.5	2	0.375
SA150200500E	1.5	2	0.5
SA150212312E	1.5	2.125	0.312
SA150212375E	1.5	2.125	0.375
SA150212375P	1.5	2.125	0.375
SA150212375R	1.5	2.125	0.375
SA150212401RF	1.5	2.125	0.401
SA150212437E	1.5	2.125	0.437
SA150212437F	1.5	2.125	0.437
SA150212437RF	1.5	2.125	0.437
SA150212500E	1.5	2.125	0.5
SA150218437F	1.5	2.187	0.437
SA150218437RV	1.5	2.187	0.437
SA150225375E	1.5	2.25	0.375
SA150225500E	1.5	2.25	0.5
SA150225625E	1.5	2.25	0.625
SA150250500E	1.5	2.5	0.5
SA156181125E	1.562	1.812	0.125
SA162187125E	1.625	1.875	0.125
SA162187139E	1.625	1.875	0.139
SA162187156E	1.625	1.875	0.156
SA162187250R	1.625	1.875	0.25
SA162200187P	1.625	2	0.187
SA162200187E	1.625	2	0.187
SA162200187U	1.625	2	0.187
SA162200219R	1.625	2	0.219
SA162200250E	1.625	2	0.25
SA162200250U	1.625	2	0.25
SA162200281P	1.625	2	0.281
SA162200312E	1.625	2	0.312
SA162200375E	1.625	2	0.375
SA162212250E	1.625	2.125	0.25
SA162212375P	1.625	2.125	0.375
SA162212375E	1.625	2.125	0.375
SA162225312E	1.625	2.25	0.312
SA162225375E	1.625	2.25	0.375
SA162225375P	1.625	2.25	0.375
SA162225437F	1.625	2.25	0.437
SA162225437E	1.625	2.25	0.437
SA162225500E	1.625	2.25	0.5
SA162237375E	1.625	2.375	0.375
SA162237625E	1.625	2.375	0.625

SINGLE ACTING -- IMPERIAL

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DR --- rod only ++++ KYB- -- piston only



LETTERS AT END OF PART # DENOTE STYLE / PICTURE ABOVE

PART #	ID	OD	HT
SA168206187E	1.687	2.062	0.187
SA168206312E	1.687	2.062	0.312
SA168212375R	1.687	2.125	0.375
BRTI168231250	1.687	2.312	0.25
BRTI175200125	1.75	2	0.125
SA175200125E	1.75	2	0.125
SA175200125RK	1.75	2	0.125
SA175200250AR	1.75	2	0.25
SA175200250ARV	1.75	2	0.25
SA175200250E	1.75	2	0.25
SA175200250R	1.75	2	0.25
BRTI175212125	1.75	2.125	0.125
SA175212187R	1.75	2.125	0.187
SA175212187E	1.75	2.125	0.187
SA175212187EP	1.75	2.125	0.187
SA175212250E	1.75	2.125	0.25
SA175212250FR20	1.75	2.125	0.25
SA175212250R	1.75	2.125	0.25
SA175212250AER	1.75	2.125	0.25
SA175212281RF	1.75	2.125	0.281
SA175212280TRR	1.75	2.125	0.281
SA175212288RF	1.75	2.125	0.288
SA175212312AER	1.75	2.125	0.312
SA175212312RK33	1.75	2.125	0.312
SA175212312RF	1.75	2.125	0.312
SA175212312R	1.75	2.125	0.312
SA175212312EV	1.75	2.125	0.312
SA175212312EH	1.75	2.125	0.312
SA175212312E	1.75	2.125	0.312
SA175212375FR20	1.75	2.125	0.375
SA175212375RSL	1.75	2.125	0.375
SA175212375RDZ	1.75	2.125	0.375
SA175212375E	1.75	2.125	0.375
SA175212375AR	1.75	2.125	0.375
SA175212375AER	1.75	2.125	0.375
SA175212375RK	1.75	2.125	0.375
BRTI175225062	1.75	2.25	0.062
BRTI175225125	1.75	2.25	0.125
SA175225250R	1.75	2.25	0.25
SA175225250U	1.75	2.25	0.25
SA175225250P	1.75	2.25	0.25
SA175225250E	1.75	2.25	0.25
SA175225312R	1.75	2.25	0.312
SA175225375E	1.75	2.25	0.375
SA175225375U	1.75	2.25	0.375
SA175225375R	1.75	2.25	0.375
SA175225375FR20	1.75	2.25	0.375

PART #	ID	OD	HT
SA175225375F	1.75	2.25	0.375
SA175225375EH	1.75	2.25	0.375
SA175225375AER	1.75	2.25	0.375
SA175225375EHF	1.75	2.25	0.375
DR175225075	1.75	2.25	0.75
BRTI175237125	1.75	2.375	0.125
BRTI175237187	1.75	2.375	0.187
SA175237250U	1.75	2.375	0.25
SA175237312E	1.75	2.375	0.312
SA175237375U	1.75	2.375	0.375
SA175237375E	1.75	2.375	0.375
SA175237437RF	1.75	2.375	0.437
SA175237437R	1.75	2.375	0.437
SA175237437E	1.75	2.375	0.437
SA175237445RF	1.75	2.375	0.445
SA175237500E	1.75	2.375	0.5
DR175237093	1.75	2.375	0.937
BRTI175250125	1.75	2.5	0.125
SA175250375U	1.75	2.5	0.375
SA175250375E	1.75	2.5	0.375
SA175250500E	1.75	2.5	0.5
SA175250625E	1.75	2.5	0.625
SA175275500E	1.75	2.75	0.5
SA181250344P	1.812	2.5	0.344
SA181300100F	1.812	3	1
SA187212125E	1.875	2.125	0.125
SA187225187E	1.875	2.25	0.187
SA187225234CAT	1.875	2.25	0.234
SA187225280TRR	1.875	2.25	0.28
SA187225312E	1.875	2.25	0.312
SA187225375U	1.875	2.25	0.375
SA187225375EH	1.875	2.25	0.375
SA187225375E	1.875	2.25	0.375
BRTI187231230A	1.875	2.312	0.23
BRTI187231250	1.875	2.312	0.25
SA187237250E	1.875	2.375	0.25
SA187237250P	1.875	2.375	0.25
SA187237375E	1.875	2.375	0.375
SA187237375U	1.875	2.375	0.375
KRI187250	1.875	2.5	
SA187250312E	1.875	2.5	0.312
SA187250344PWK	1.875	2.5	0.344
SA187250375P	1.875	2.5	0.375
SA187250375U	1.875	2.5	0.375
SA187250375E	1.875	2.5	0.375
SA187250437E	1.875	2.5	0.437

SINGLE ACTING -- IMPERIAL

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DR --- rod only ++++ KYB- -- piston only



LETTERS AT END OF PART # DENOTE STYLE / PICTURE ABOVE

PART #	ID	OD	HT
SA187250500U	1.875	2.5	0.5
SA187250500P	1.875	2.5	0.5
SA187250500E	1.875	2.5	0.5
SA187262375E	1.875	2.625	0.375
SA187287625E	1.875	2.875	0.625
SA200225125U	2	2.25	0.125
SA200225125E	2	2.25	0.125
BRTI200225125	2	2.25	0.125
SA200225187E	2	2.25	0.187
SA200225250FR20	2	2.25	0.25
SA200225250R	2	2.25	0.25
SA200225250E	2	2.25	0.25
SA200225250AR	2	2.25	0.25
BRTI200237062	2	2.375	0.062
SA200237187E	2	2.375	0.187
SA200237187U	2	2.375	0.187
SA200237187R	2	2.375	0.187
SA200237187EV	2	2.375	0.187
SA200237250EV	2	2.375	0.25
SA200237250U	2	2.375	0.25
SA200237250E	2	2.375	0.25
SA200237280TRR	2	2.375	0.281
SA200237312E	2	2.375	0.312
SA200237312RK33	2	2.375	0.312
SA200237312FR20	2	2.375	0.312
SA200237312AER	2	2.375	0.312
SA200237312R	2	2.375	0.312
SA200237375EP	2	2.375	0.375
SA200237375E	2	2.375	0.375
SA200237375R	2	2.375	0.375
SA200237375AER	2	2.375	0.375
SA200237375U	2	2.375	0.375
SA200237375EV	2	2.375	0.375
SA200239268R	2	2.394	0.268
BRTI200250062	2	2.5	0.062
BRTI200250125	2	2.5	0.125
SA200250250E	2	2.5	0.25
SA200250250EP	2	2.5	0.25
SA200250250R	2	2.5	0.25
SA200250312E	2	2.5	0.312
SA200250312F	2	2.5	0.312
SA200250312CAT	2	2.5	0.312
SA200250312R	2	2.5	0.312
SA200250375RK	2	2.5	0.375
SA200250375F	2	2.5	0.375
SA200250375EV	2	2.5	0.375
SA200250375U	2	2.5	0.375

PART #	ID	OD	HT
SA200250375AER	2	2.5	0.375
SA200250375E	2	2.5	0.375
SA200250375EH	2	2.5	0.375
SA200250375FR20	2	2.5	0.375
SA200250375RF	2	2.5	0.375
SA200250413ARP	2	2.5	0.413
SA200250500E	2	2.5	0.5
DR200250069-H	2	2.5	0.69
DR200250081	2	2.5	0.75
SA200256375E	2	2.562	0.375
KRI200262	2	2.625	
BRTI200262125	2	2.625	0.125
BRTI200262187	2	2.625	0.187
SA200262312EV	2	2.625	0.312
SA200262312R	2	2.625	0.312
SA200262312E	2	2.625	0.312
SA200262348P	2	2.625	0.348
SA200262375E	2	2.625	0.375
SA200262397R	2	2.625	0.397
SA200262437RF	2	2.625	0.437
SA200262437E	2	2.625	0.437
SA200262500E	2	2.625	0.5
SA200262500R	2	2.625	0.5
SA200262562E	2	2.625	0.562
SA200262562U	2	2.625	0.562
SA200262735FE	2	2.625	0.735
SA200262835FE	2	2.625	0.835
DR200262100	2	2.625	1
KRI200275	2	2.75	
SA200275250E	2	2.75	0.25
SA200275375E	2	2.75	0.375
SA200275375U	2	2.75	0.375
SA200275437E	2	2.75	0.437
SA200275437F	2	2.75	0.437
SA200275500R	2	2.75	0.5
SA200275500E	2	2.75	0.5
SA200275500P	2	2.75	0.5
SA200275562E	2	2.75	0.562
SA200275562F	2	2.75	0.562
SA200275625E	2	2.75	0.625
SA200300500E	2	3	0.5
SA206256340P	2.062	2.562	0.34
SA212237125E	2.125	2.375	0.125
SA212237250E	2.125	2.375	0.25
BRTI212250062	2.125	2.5	0.062
BRTI212250125	2.125	2.5	0.125

SINGLE ACTING -- IMPERIAL

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DR --- rod only ++++ KYB- -- piston only



LETTERS AT END OF PART # DENOTE STYLE / PICTURE ABOVE

PART #	ID	OD	HT
SA212250187E	2.125	2.5	0.187
SA212250187EH	2.125	2.5	0.187
SA212250187U	2.125	2.5	0.187
SA212250250E	2.125	2.5	0.25
SA212250250P	2.125	2.5	0.25
SA212250280TRR	2.125	2.5	0.281
SA212250312E	2.125	2.5	0.312
SA212250312U	2.125	2.5	0.312
SA212250375E	2.125	2.5	0.375
SA212262250E	2.125	2.625	0.25
SA212262312CAT	2.125	2.625	0.312
SA212262375E	2.125	2.625	0.375
SA212262375F	2.125	2.625	0.375
SA212275312P	2.125	2.75	0.312
SA212275312E	2.125	2.75	0.312
SA212275500EP	2.125	2.75	0.5
SA212275500E	2.125	2.75	0.5
SA212287375E	2.125	2.875	0.375
SA212287562E	2.125	2.875	0.562
SA212312500E	2.125	3.125	0.5
SA212275375F	2.215	2.75	0.375
SA225250125U	2.25	2.5	0.125
BRTI225250125	2.25	2.5	0.125
SA225250125E	2.25	2.5	0.125
SA225250250E	2.25	2.5	0.25
SA225250375E	2.25	2.5	0.375
SA225250375RK	2.25	2.5	0.375
SA225262187E	2.25	2.625	0.187
SA225262250AERV	2.25	2.625	0.25
SA225262250E	2.25	2.625	0.25
SA225262280TRR	2.25	2.625	0.281
SA225262312E	2.25	2.625	0.312
SA225262335R	2.25	2.625	0.335
SA225262375AER	2.25	2.625	0.375
SA225262375R	2.25	2.625	0.375
SA225262375E	2.25	2.625	0.375
SA225262375EH	2.25	2.625	0.375
BRTI225275062	2.25	2.75	0.062
BRTI225275125	2.25	2.75	0.125
SA225275250E	2.25	2.75	0.25
SA225275312E	2.25	2.75	0.312
SA225275341R	2.25	2.75	0.341
SA225275375U	2.25	2.75	0.375
SA225275375E	2.25	2.75	0.375
SA225275375F	2.25	2.75	0.375
SA225275375FR20	2.25	2.75	0.375

PART #	ID	OD	HT
SA225275375R	2.25	2.75	0.375
SA225275375RF	2.25	2.75	0.375
SA225275375AER	2.25	2.75	0.375
SA225275382RF	2.25	2.75	0.382
SA225275562E	2.25	2.75	0.562
DR225275075	2.25	2.75	0.75
SA225287375U	2.25	2.87	0.375
SA225287312E	2.25	2.875	0.312
SA225287375E	2.25	2.875	0.375
SA225287500EP	2.25	2.875	0.5
SA225287500E	2.25	2.875	0.5
KRI225300	2.25	3	
BRTI250300062	2.25	3	0.062
BRTI225300062	2.25	3	0.062
BRTI225300125	2.25	3	0.125
SA225300375E	2.25	3	0.375
SA225300375F	2.25	3	0.375
SA225300437E	2.25	3	0.437
SA225300500E	2.25	3	0.5
SA225300500R	2.25	3	0.5
SA225300562F	2.25	3	0.562
SA225300562E	2.25	3	0.562
SA225300625E	2.25	3	0.625
SA225325500E	2.25	3.25	0.5
SA228300344P	2.281	3	0.344
SA231256125E	2.312	2.562	0.125
SA231287280E	2.312	2.875	0.28
SA237262125E	2.375	2.625	0.125
SA237275187E	2.375	2.75	0.187
SA237275280TRR	2.375	2.75	0.281
SA237275375E	2.375	2.75	0.375
SA237275500E	2.375	2.75	0.5
SA237287250E	2.375	2.875	0.25
SA237287375U	2.375	2.875	0.375
SA237287375E	2.375	2.875	0.375
SA237300281U	2.375	3	0.281
SA237300312E	2.375	3	0.312
SA237300375U	2.375	3	0.375
SA237300375E	2.375	3	0.375
SA237300500E	2.375	3	0.5
SA237300562E	2.375	3	0.562
SA237312625E	2.375	3.125	0.375
SA237312375E	2.375	3.125	0.375
SA237312437E	2.375	3.125	0.437
SA237312562E	2.375	3.125	0.562

SINGLE ACTING -- IMPERIAL

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DR --- rod only ++++ KYB- -- piston only



LETTERS AT END OF PART # DENOTE STYLE / PICTURE ABOVE

PART #	ID	OD	HT
SA250275125E	2.5	2.75	0.125
BRTI250275125	2.5	2.75	0.125
SA250275250E	2.5	2.75	0.25
SA250275375E	2.5	2.75	0.375
SA250287375E	2.5	2.785	0.375
SA250287187V	2.5	2.875	0.187
SA250287187E	2.5	2.875	0.187
SA250287219P	2.5	2.875	0.219
SA250287250E	2.5	2.875	0.25
SA250287280TRR	2.5	2.875	0.281
SA250287312E	2.5	2.875	0.312
SA250287375R	2.5	2.875	0.375
SA250287375AER	2.5	2.875	0.375
SA250293218E	2.5	2.937	0.218
SA250293284VSA	2.5	2.937	0.284
BRTI250300125	2.5	3	0.125
SA250300250R	2.5	3	0.25
SA250300250P	2.5	3	0.25
SA250300250E	2.5	3	0.25
SA250300250EP	2.5	3	0.25
SA250300281U	2.5	3	0.281
SA250300312RF	2.5	3	0.312
SA250300312E	2.5	3	0.312
SA250300312CAT	2.5	3	0.312
SA250300323RF	2.5	3	0.323
SA250300375EV	2.5	3	0.375
SA250300375EH	2.5	3	0.375
SA250300375ESL	2.5	3	0.375
SA250300375AER	2.5	3	0.375
SA250300375FR20	2.5	3	0.375
SA250300375RDZ	2.5	3	0.375
SA250300375E	2.5	3	0.375
SA250300375V	2.5	3	0.375
SA250300375U	2.5	3	0.375
SA250300375RK	2.5	3	0.375
SA250306441RF	2.5	3.062	0.441
SA250312312EV	2.5	3.125	0.312
SA250312312E	2.5	3.125	0.312
SA250312375F	2.5	3.125	0.375
SA250312375E	2.5	3.125	0.375
SA250312437E	2.5	3.125	0.437
SA250312437F	2.5	3.125	0.437
SA250312500E	2.5	3.125	0.5
SA250312625E	2.5	3.125	0.625
SA250312625ESL	2.5	3.125	0.625
DR250312100	2.5	3.125	1
KRI250325	2.5	3.25	

PART #	ID	OD	HT
SA250325375EP	2.5	3.25	0.375
SA250325375E	2.5	3.25	0.375
SA250325500E	2.5	3.25	0.5
SA250325550RF	2.5	3.25	0.55
SA250325562RF	2.5	3.25	0.562
SA250325562E	2.5	3.25	0.562
SA250325625R	2.5	3.25	0.625
SA250325625E	2.5	3.25	0.625
SA250325735FE	2.5	3.25	0.725
SA250325835FE	2.5	3.25	0.835
DR250325103	2.5	3.25	1.031
SA250350500E	2.5	3.5	0.5
SA250350750E	2.5	3.5	0.75
SA256306375E	2.562	3.062	0.375
SA262300187E	2.625	3	0.187
SA262300250U	2.625	3	0.25
SA262300250E	2.625	3	0.25
SA262300280TRR	2.625	3	0.281
SA262300375R	2.625	3	0.375
SA262300375E	2.625	3	0.375
SA262312250E	2.625	3.125	0.25
SA262325312E	2.625	3.125	0.312
SA262312375U	2.625	3.125	0.375
SA262312375E	2.625	3.125	0.375
SA262325500E	2.625	3.25	0.5
SA262325562E	2.625	3.25	0.562
SA262325562U	2.625	3.25	0.562
SA262337375E	2.625	3.375	0.375
SA262337625E	2.625	3.375	0.625
SA275300125E	2.75	3	0.125
SA275300250E	2.75	3	0.25
SA275300375E	2.75	3	0.375
SA275312187E	2.75	3.125	0.187
SA275312250E	2.75	3.125	0.25
SA287312250E	2.75	3.125	0.25
SA275312280TRR	2.75	3.125	0.281
SA275312312E	2.75	3.125	0.312
SA275312375E	2.75	3.125	0.375
SA275312375R	2.75	3.125	0.375
SA275320687FE	2.75	3.2	0.687
BRTI275325062	2.75	3.25	0.062
BRTI275325125	2.75	3.25	0.125
SA275325250E	2.75	3.25	0.25
SA275325250EP	2.75	3.25	0.25
SA275325250PT	2.75	3.25	0.25
SA275325375E	2.75	3.25	0.375

SINGLE ACTING -- IMPERIAL

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DR --- rod only ++++ KYB- -- piston only



TRR P R U E EHP RF PW PWK F AER AR DR FE RW

LETTERS AT END OF PART # DENOTE STYLE / PICTURE ABOVE

PART #	ID	OD	HT
SA275325375EH	2.75	3.25	0.375
SA275325375F	2.75	3.25	0.375
SA275325375RDZ	2.75	3.25	0.375
SA275325375R-K	2.75	3.25	0.375
SA275325375AER	2.75	3.25	0.375
SA275337312E	2.75	3.375	0.312
SA275337500R	2.75	3.375	0.5
SA275337500E	2.75	3.375	0.5
DR275337100	2.75	3.375	1
KRI275350	2.75	3.5	
BRTI275350125	2.75	3.5	0.125
SA275350375EP	2.75	3.5	0.375
SA275350375E	2.75	3.5	0.375
SA275350500E	2.75	3.5	0.5
SA275350562F	2.75	3.5	0.562
SA275350562E	2.75	3.5	0.562
SA275350625E	2.75	3.5	0.625
SA275350625R	2.75	3.5	0.625
SA275375500E	2.75	3.75	0.5
SA287325375E	2.785	3.25	0.375
BRTI281325062	2.812	3.25	0.062
SA281325219E	2.812	3.25	0.219
SA287324312R	2.875	3.24	0.312
SA287325187E	2.875	3.25	0.187
SA287325250E	2.875	3.25	0.25
SA287325250U	2.875	3.25	0.25
SA287325280TRR	2.875	3.25	0.281
SA287325375U	2.875	3.25	0.375
BRTI287331230A	2.875	3.312	0.23
SA287337375U	2.875	3.375	0.375
SA287337375E	2.875	3.375	0.375
SA287350312E	2.875	3.5	0.312
SA287350375E	2.875	3.5	0.375
SA287350500E	2.875	3.5	0.5
SA287362375E	2.875	3.625	0.375
SA300325125E	3	3.25	0.125
SA300325250E	3	3.25	0.25
SA300337187E	3	3.375	0.187
SA300337250E	3	3.375	0.25
SA300337312E	3	3.375	0.312
SA300337375DZBN	3	3.375	0.375
SA300337375R	3	3.375	0.375
SA300337375E	3	3.375	0.375
BRTI300343062	3	3.437	0.062
BRTI300350062	3	3.5	0.062

PART #	ID	OD	HT
BRTI300350156	3	3.5	0.156
SA300350250E	3	3.5	0.25
SA300350250EP	3	3.5	0.25
SA300350250P	3	3.5	0.25
SA300350250V	3	3.5	0.25
SA300350312CAT	3	3.5	0.312
SA300350375EH	3	3.5	0.375
SA300350375RK	3	3.5	0.375
SA300350375U	3	3.5	0.375
SA300350375R	3	3.5	0.375
SA300350375FR20	3	3.5	0.375
SA300350375EB	3	3.5	0.375
SA300350375E	3	3.5	0.375
SA300350375DZBN	3	3.5	0.375
SA300350375AER	3	3.5	0.375
SA300350500E	3	3.5	0.5
SA300350375EV	3	3.5	3.75
SA300362312E	3	3.625	0.312
SA300362375E	3	3.625	0.375
SA300362375PF	3	3.625	0.375
SA300362500AER	3	3.625	0.5
SA300362500E	3	3.625	0.5
SA300362562E	3	3.625	0.562
SA300375375P	3	3.75	0.375
SA300375375E	3	3.75	0.375
SA300375470P	3	3.75	0.47
SA300375500E	3	3.75	0.5
SA300375562E	3	3.75	0.562
SA300375562RF	3	3.75	0.562
SA300375562RW	3	3.75	0.562
SA300375625R	3	3.75	0.625
SA300375625AER	3	3.75	0.625
SA300375625E	3	3.75	0.625
SA300375750	3	3.75	0.75
DR300375097	3	3.75	0.968
DR300375131	3	3.75	1.312
BRTI300400125	3	4	0.125
SA300400375E	3	4	0.375
SA300400500E	3	4	0.5
SA300400625E	3	4	0.625
SA300400750E	3	4	0.75
BRTI312350125	3.125	3.5	0.125
SA312350187EP	3.125	3.5	0.187
SA312350187E	3.125	3.5	0.187
SA312350375E	3.125	3.5	0.375
SA312350375U	3.125	3.5	0.375
SA312362250E	3.125	3.625	0.25

SINGLE ACTING -- IMPERIAL

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DR --- rod only ++++ KYB- -- piston only



LETTERS AT END OF PART # DENOTE STYLE / PICTURE ABOVE

PART #	ID	OD	HT
SA312362375E	3.125	3.625	0.375
SA312375312E	3.125	3.75	0.312
SA312375500E	3.125	3.75	0.5
KRI312387	3.125	3.875	
SA312387500U	3.125	3.875	0.5
SA312387562F	3.125	3.875	0.562
SA312387625E	3.125	3.875	0.625
SA312387835FE	3.125	3.875	0.835
SA318375500E	3.187	3.75	0.5
SA325350139E	3.25	3.5	0.139
SA325362280TRR	3.25	3.625	0.281
SA325362375E	3.25	3.625	0.375
SA325362375RD	3.25	3.625	0.375
SA325362375FR20	3.25	3.625	0.375
BRTI325375125	3.25	3.75	0.125
SA325375250E	3.25	3.75	0.25
SA325375312CAT	3.25	3.75	0.312
SA325375375E	3.25	3.75	0.375
SA325375375AER	3.25	3.75	0.375
SA325375375R	3.25	3.75	0.375
SA325375375U	3.25	3.75	0.375
SA325387312E	3.25	3.875	0.312
SA325387500E	3.25	3.875	0.5
SA325387500U	3.25	3.875	0.5
SA325387562E	3.25	3.875	0.562
SA325387562U	3.25	3.875	0.562
SA325387562F	3.25	3.875	0.625
SA325400375U	3.25	4	0.375
SA325400375EP	3.25	4	0.375
SA325400375E	3.25	4	0.375
SA325400500E	3.25	4	0.5
SA325400562E	3.25	4	0.562
SA325400562U	3.25	4	0.562
SA325400625E	3.25	4	0.625
SA325425500E	3.25	4.25	0.5
SA325425750E	3.25	4.25	0.75
SA325425750F	3.25	4.25	0.75
SA325450625E	3.25	4.5	0.625
SA3254501000E	3.25	4.5	1
SA325375375CAT	3.25	5.375	0.375
SA337362125E	3.375	3.625	0.125
SA337374312R	3.375	3.74	0.312
SA337375187EP	3.375	3.75	0.187
SA337375187E	3.375	3.75	0.187
SA337375280TRR	3.375	3.75	0.28
SA337375375E	3.375	3.75	0.375

PART #	ID	OD	HT
SA337387250E	3.375	3.875	0.25
SA337387375E	3.375	3.875	0.375
SA337400312E	3.375	4	0.312
SA337400500E	3.375	4	0.5
SA337400625E	3.375	4	0.625
SA337412375E	3.375	4.125	0.375
SA337412562F	3.375	4.125	0.562
SA337412625E	3.375	4.125	0.625
SA337412750E	3.375	4.125	0.75
BRTI350387118A	3.5	3.875	0.118
SA350387187E	3.5	3.875	0.187
SA350387280TRR	3.5	3.875	0.281
SA350387375E	3.5	3.875	0.375
BRTI350400062	3.5	4	0.062
BRTI350400125	3.5	4	0.125
SA350400250P	3.5	4	0.25
SA350400250EN	3.5	4	0.25
SA350400250E	3.5	4	0.25
SA350400312E	3.5	4	0.312
SA350400375R	3.5	4	0.375
SA350400375AER	3.5	4	0.375
SA350400375CAT	3.5	4	0.375
SA350400375DZBN	3.5	4	0.375
SA350400375E	3.5	4	0.375
SA350400375EB	3.5	4	0.375
SA350400375EDZ	3.5	4	0.375
SA350400375EV	3.5	4	0.375
SA350400375FR20	3.5	4	0.375
SA350400375EH	3.5	4	0.375
SA350400375P	3.5	4	0.375
SA350400500E	3.5	4	0.5
SA350401719FE	3.5	4.013	0.719
SA350412312E	3.5	4.125	0.312
SA350412375E	3.5	4.125	0.375
SA350412375F	3.5	4.125	0.375
SA350412500AER	3.5	4.125	0.5
SA350412500E	3.5	4.125	0.5
SA350425375E	3.5	4.25	0.375
SA350425375EP	3.5	4.25	0.375
BRTI350425375	3.5	4.25	0.375
SA350425500E	3.5	4.25	0.5
SA350450500E	3.5	4.25	0.5
SA350425531F	3.5	4.25	0.531
SA350425562E	3.5	4.25	0.562
SA350425562RF	3.5	4.25	0.562
SA350425625E	3.5	4.25	0.625
DR350425112	3.5	4.25	1.125

SINGLE ACTING -- IMPERIAL

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DR --- rod only ++++ KYB- -- piston only



LETTERS AT END OF PART # DENOTE STYLE / PICTURE ABOVE

PART #	ID	OD	HT
SA350450750E	3.5	4.5	0.75
SA350450756RF	3.5	4.5	0.756
SA350400312CAT	3.5	5	0.312
SA350425480F	3.505	4.25	0.48
SA362387187E	3.625	3.875	0.187
SA362400187E	3.625	4	0.187
SA362400250E	3.625	4	0.25
SA362400250U	3.625	4	0.25
SA362400280TRR	3.625	4	0.281
SA362400375E	3.625	4	0.375
SA362412250E	3.625	4.125	0.25
SA362412375E	3.625	4.125	0.375
SA362425312E	3.625	4.25	0.312
SA362425500E	3.625	4.25	0.5
SA362425562U	3.625	4.25	0.562
SA362437375E	3.625	4.375	0.375
SA362462500F	3.625	4.375	0.5
SA362437562RW	3.625	4.375	0.562
SA362437625E	3.625	4.375	0.625
SA368425500E	3.687	4.25	0.5
SA375400125E	3.75	4	0.125
SA375412187E	3.75	4.125	0.187
SA375412280TRR	3.75	4.125	0.28
SA375412375AER-H	3.75	4.125	0.375
SA375412375E	3.75	4.125	0.375
SA375425250E	3.75	4.25	0.25
SA375425375E	3.75	4.25	0.375
SA375425375U	3.75	4.25	0.375
SA375425562E	3.75	4.25	0.562
SA375437312E	3.75	4.375	0.312
SA375437500E	3.75	4.375	0.5
SA375437500U	3.75	4.375	0.5
SA375437875E	3.75	4.375	0.875
SA375450375E	3.75	4.5	0.375
SA375450500E	3.75	4.5	0.5
SA375450625E	3.75	4.5	0.625
SA375450625U	3.75	4.5	0.625
SA375475500E	3.75	4.75	0.5
SA375475700F	3.75	4.75	0.687
SA375475750E	3.75	4.75	0.75
SA375475750F	3.75	4.75	0.75
SA3754751250F	3.75	4.75	1.25
SA375500625E	3.75	5	0.625
SA3755001000E	3.75	5	1
SA387424312R	3.875	4.24	0.312

PART #	ID	OD	HT
SA387425187E	3.875	4.25	0.187
BRTI387425230A	3.875	4.25	0.23
SA387425375E	3.875	4.25	0.375
SA387437250E	3.875	4.375	0.25
SA387437375E	3.875	4.375	0.375
SA387450312E	3.875	4.5	0.312
SA387450375E	3.875	4.5	0.375
SA387450500E	3.875	4.5	0.5
SA387462625E	3.875	4.625	0.625
SA387475750E	3.875	4.75	0.75
SA400437187E	4	4.375	0.187
SA400437250E	4	4.375	0.25
SA400437280TRR	4	4.375	0.281
SA400437375E	4	4.375	0.375
SA400437375EDZ	4	4.375	0.375
SA400437375RD	4	4.375	0.375
SA400437375U	4	4.375	0.375
SA400437500E	4	4.375	0.5
BRTI400450125	4	4.5	0.125
SA400450250E	4	4.5	0.25
SA400450250EP	4	4.5	0.25
SA400450312E	4	4.5	0.312
SA400450375R	4	4.5	0.375
SA400450375P	4	4.5	0.375
SA400450375E	4	4.5	0.375
SA400450375AER	4	4.5	0.375
SA400450375FR20	4	4.5	0.375
SA400450562AER	4	4.5	0.562
SA400450562E	4	4.5	0.562
SA400462312E	4	4.625	0.312
SA400462375CAT	4	4.625	0.312
SA400462375E	4	4.625	0.375
SA400462500E	4	4.625	0.5
SA400462500R	4	4.625	0.5
SA400462562AER	4	4.625	0.562
SA400462562E	4	4.625	0.562
KRI400475	4	4.75	
SA400475375E	4	4.75	0.375
SA400475500E	4	4.75	0.5
SA400475625E	4	4.75	0.625
SA400475835FE	4	4.75	0.835
SA400487625E	4	4.875	0.625
KRI400500	4	5	0.145
SA400500500E	4	5	0.5
SA400500562E	4	5	0.562
SA400500750U	4	5	0.75
SA400500750E	4	5	0.75

SINGLE ACTING -- IMPERIAL

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DR --- rod only ++++ KYB- -- piston only



LETTERS AT END OF PART # DENOTE STYLE / PICTURE ABOVE

PART #	ID	OD	HT
SA412450187E	4.125	4.5	0.187
SA412450375E	4.125	4.5	0.375
SA412462250E	4.125	4.625	0.25
SA412462375E	4.125	4.625	0.375
SA412462375EP	4.125	4.625	0.375
SA412475312E	4.125	4.75	0.312
SA412487750E	4.125	4.875	0.75
BRTI412512118	4.125	5.125	0.118
SA412512500E	4.125	5.125	0.5
SA412512590P	4.125	5.125	0.59
SA425525750E	4.25	4.25	0.75
SA425450125E	4.25	4.5	0.125
SA425462375E	4.25	4.625	0.375
SA425462375U	4.25	4.625	0.375
SA425475250E	4.25	4.75	0.25
SA425475375E	4.25	4.75	0.375
SA425475562E	4.25	4.75	0.562
SA425487312E	4.25	4.875	0.312
SA425487562E	4.25	4.875	0.562
SA425500375E	4.25	5	0.375
SA425500500R	4.25	5	0.5
SA425500500P	4.25	5	0.5
SA425500500E	4.25	5	0.5
SA425500562E	4.25	5	0.562
SA425500625E	4.25	5	0.625
SA425500625CAT	4.25	5	0.625
SA425525500E	4.25	5.25	0.5
SA425525750F	4.25	5.25	0.75
SA425550625E	4.25	5.5	0.625
SA437475187E	4.375	4.75	0.187
SA437475280TRR	4.375	4.75	0.281
SA437475375E	4.375	4.75	0.375
SA437487250E	4.375	4.875	0.25
SA437487562E	4.375	4.875	0.562
SA437488750FE	4.375	4.88	0.75
SA437500312E	4.375	5	0.312
SA437500312EP	4.375	5	0.312
SA437500312EV	4.375	5	0.312
SA437500500E	4.375	5	0.5
SA437500562E	4.375	5	0.562
SA437512375E	4.375	5.125	0.375
SA437512500E	4.375	5.125	0.5
SA437512562RW	4.375	5.125	0.562
SA437512625E	4.375	5.125	0.625
SA437537500E	4.375	5.375	0.5

PART #	ID	OD	HT
SA450487187E	4.5	4.875	0.187
SA450487280TRR	4.5	4.875	0.281
SA450487375E	4.5	4.875	0.375
BRTI450500062	4.5	5	0.062
BRTI450500093	4.5	5	0.093
BRTI450500118A	4.5	5	0.118
SA450500125E	4.5	5	0.125
SA450500250E	4.5	5	0.25
SA450500250EP	4.5	5	0.25
SA450500250EV	4.5	5	0.25
SA450500312E	4.5	5	0.312
SA450500375P	4.5	5	0.375
SA450500375E	4.5	5	0.375
SA450500375DZBN	4.5	5	0.375
SA450500375EV	4.5	5	0.375
SA450500375R	4.5	5	0.375
SA450500500E	4.5	5	0.5
SA450500562E	4.5	5	0.562
SA450500562AER	4.5	5	0.562
SA450500562R	4.5	5	0.562
SA450500625E	4.5	5	0.625
BRTI450512125	4.5	5.125	0.125
SA450512344E-H	4.5	5.125	0.344
SA450512500E	4.5	5.125	0.5
SA450512500R	4.5	5.125	0.5
SA450512625E	4.5	5.125	0.625
BRTI450525125	4.5	5.25	0.125
BRTI450525187	4.5	5.25	0.187
SA450525500E	4.5	5.25	0.5
SA450525625E	4.5	5.25	0.625
SA450525625AER	4.5	5.25	0.625
SA450525375E	4.5	5.25	3.75
SA450550500E	4.5	5.5	0.5
SA450550750E	4.5	5.5	0.75
SA450550750F	4.5	5.5	0.75
BRTI450562125	4.5	5.625	0.125
SA462512250EDZ	4.625	5.125	0.25
SA462512250E	4.625	5.125	0.25
SA462512500DZBN	4.625	5.125	0.5
SA462525562U	4.625	5.25	0.562
SA462537625E	4.625	5.375	0.625
SA475512312EP	4.75	5.125	0.312
SA475512375RD	4.75	5.125	0.375
SA475512375E	4.75	5.125	0.375
SA475512375FR20	4.75	5.125	0.375
BRTI475525156	4.75	5.25	0.156

SINGLE ACTING -- IMPERIAL

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DR --- rod only ++++ KYB- -- piston only



LETTERS AT END OF PART # DENOTE STYLE / PICTURE ABOVE

PART #	ID	OD	HT
SA475525250E	4.75	5.25	0.25
SA475525375E	4.75	5.25	0.375
SA475525562EDZ	4.75	5.25	0.5
SA475525562E	4.75	5.25	0.562
SA475525625E	4.75	5.25	0.625
SA475537312EP	4.75	5.375	0.312
BRTI475537375	4.75	5.375	0.375
SA475537562E	4.75	5.375	0.562
SA475537625E	4.75	5.375	0.625
BRTI475550375	4.75	5.5	0.375
SA475550375E	4.75	5.5	0.375
SA475550500E	4.75	5.5	0.5
SA475550625E	4.75	5.5	0.625
SA475550750	4.75	5.5	0.75
SA475575750E	4.75	5.75	0.75
SA475575750	4.75	5.75	0.75
SA475600625E	4.75	6	0.625
SA475600625EP	4.75	6	0.625
SA475600750E	4.75	6	0.75
SA487512139E	4.875	5.125	0.139
SA487537375E	4.875	5.375	0.375
SA487562375E	4.875	5.625	0.375
SA487562562E	4.875	5.625	0.562
SA487562625E	4.875	5.625	0.625
SA487587750E	4.875	5.875	0.75
SA500537281E	5	5.375	0.281
SA500537312E	5	5.375	0.312
SA500537375E	5	5.375	0.375
SA500550250E	5	5.5	0.25
SA500550366TRR	5	5.5	0.343
SA500550375E	5	5.5	0.375
SA500550562E	5	5.5	0.562
SA500550562EDZ	5	5.5	0.562
SA500550562AER	5	5.5	0.562
SA500550687R	5	5.5	0.687
SA500562500E	5	5.562	0.5
SA500562312E	5	5.625	0.312
SA500562625E	5	5.625	0.625
KRI500575	5	5.75	
SA500575375E	5	5.75	0.375
SA500575500E	5	5.75	0.5
SA500575625AER	5	5.75	0.625
SA500575625CAT	5	5.75	0.625
SA500575625E	5	5.75	0.625
SA500575835FE	5	5.75	0.835
SA500600375E	5	6	0.375

PART #	ID	OD	HT
SA500600500E	5	6	0.5
SA500600500EP	5	6	0.5
SA500600750E	5	6	0.75
SA500600875F	5	6	0.75
SA500600750F	5	6	0.75
SA500600750EP	5	6	0.75
SA5006251000E	5	6.25	1
SA512562250E	5.125	5.625	0.25
SA512587625E	5.125	5.875	0.625
SA512600437E	5.125	6	0.437
SA525562187RSSL	5.25	5.625	0.187
SA525562187RS	5.25	5.625	0.187
SA525575250E	5.25	5.75	0.25
SA525575375E	5.25	5.75	0.375
SA525575562E	5.25	5.75	0.562
SA525587312E	5.25	5.875	0.312
SA525587437E	5.25	5.875	0.437
SA525587625E	5.25	5.875	0.625
SA525588719FE	5.25	5.88	0.719
BRTI525600250A	5.25	6	0.25
SA525600375E	5.25	6	0.375
SA525600500E	5.25	6	0.5
SA525600500EP	5.25	6	0.5
SA525600562E	5.25	6	0.562
SA525600562RW	5.25	6	0.562
SA525600625E	5.25	6	0.625
SA525625500E	5.25	6.25	0.5
SA525625750E	5.25	6.25	0.75
SA525625750F	5.25	6.25	0.75
SA537587250EP	5.375	5.875	0.25
SA537587250E	5.375	5.875	0.25
SA537600312EP	5.375	6	0.312
SA537600312E	5.375	6	0.312
SA537600375E	5.375	6	0.375
SA537600500E	5.375	6	0.5
SA537600562E	5.375	6	0.562
SA537600562U	5.375	6	0.562
SA537600625E	5.375	6	0.625
SA537612375E	5.375	6.125	0.375
SA537612562E	5.375	6.125	0.562
SA537612625E	5.375	6.125	0.625
BRTI543600062	5.437	6	0.062
SA550600250E	5.5	6	0.25
SA550600366TRR	5.5	6	0.344
SA550600375E	5.5	6	0.375

SINGLE ACTING -- IMPERIAL

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DR --- rod only ++++ KYB- -- piston only



LETTERS AT END OF PART # DENOTE STYLE / PICTURE ABOVE

PART #	ID	OD	HT
SA550600375R	5.5	6	0.375
SA550600375U	5.5	6	0.375
SA550600562AER	5.5	6	0.562
SA550600562E	5.5	6	0.562
SA550600562EDZ	5.5	6	0.562
SA550612312E	5.5	6.125	0.312
SA550612375CAT	5.5	6.125	0.312
SA550612625E	5.5	6.125	0.625
SA550625375E	5.5	6.25	0.375
SA550625500E	5.5	6.25	0.5
SA550625625E	5.5	6.25	0.625
SA550625625R	5.5	6.25	0.625
SA550650500E	5.5	6.5	0.5
SA550650750E	5.5	6.5	0.75
SA562600210E	5.625	6	0.218
SA562612250E	5.625	6.125	0.25
SA562612250EP	5.625	6.125	0.25
SA562612366TRR	5.625	6.125	0.343
SA568606375E	5.687	6.062	0.375
SA575625250E	5.75	6.25	0.25
SA575625562E	5.75	6.25	0.562
SA575637625EP	5.75	6.375	0.625
SA575637625E	5.75	6.375	0.625
SA575637875E	5.75	6.375	0.875
SA575650375E	5.75	6.5	0.375
SA575650500E	5.75	6.5	0.5
SA575650625CAT	5.75	6.5	0.625
SA575650625E	5.75	6.5	0.625
SA575675750E	5.75	6.75	0.75
SA587637250E	5.875	6.375	0.25
SA600637312EP	6	6.375	0.312
SA600637375E	6	6.375	0.375
SA600650250E	6	6.5	0.25
SA600650250EP	6	6.5	0.25
SA600650375E	6	6.5	0.375
SA600650500E	6	6.5	0.5
SA600650562E	6	6.5	0.562
SA600650687R	6	6.5	0.687
SA600662312E	6	6.625	0.312
SA600662312EP	6	6.625	0.312
SA600662625E	6	6.625	0.625
SA600675500CAT	6	6.75	0.5
SA600675500E	6	6.75	0.5
SA600675625AER	6	6.75	0.625
SA600675625E	6	6.75	0.625

PART #	ID	OD	HT
SA600675375E	6	6.75	0.75
SA600700375E	6	7	0.375
SA600700500E	6	7	0.5
SA600700750E	6	7	0.75
BRTI625675156	6.25	6.75	0.156
SA625675250E	6.25	6.75	0.25
SA625675375E	6.25	6.75	0.375
SA625675562E	6.25	6.75	0.562
SA625700375E	6.25	7	0.375
SA625700375P	6.25	7	0.375
SA625700500E	6.25	7	0.5
SA625700625E	6.25	7	0.625
SA625725750E	6.25	7.25	0.75
SA631688719FE	6.312	6.88	0.719
SA631706562RW	6.312	7.062	0.562
SA637700312E	6.375	7	0.312
SA637700312EP	6.375	7	0.312
SA637700562E	6.375	7	0.562
BRTI643700062	6.437	7	0.062
SA650687210E	6.5	6.875	0.21
SA650700250E	6.5	7	0.25
SA650700366TRR	6.5	7	0.343
SA650700375EDZ	6.5	7	0.375
SA650700375R	6.5	7	0.375
SA650700375E	6.5	7	0.375
SA650700500EDZ	6.5	7	0.5
SA650700562E	6.5	7	0.562
SA650712750E	6.5	7.125	0.75
SA650725375E	6.5	7.25	0.375
SA650725500CAT	6.5	7.25	0.5
SA650725500E	6.5	7.25	0.5
SA650725625E	6.5	7.25	0.625
SA650750500E	6.5	7.5	0.5
SA650750625R	6.5	7.5	0.625
SA650750750E	6.5	7.5	0.75
SA650750875	6.5	7.5	0.875
SA675725250E	6.75	7.25	0.25
SA675725375E	6.75	7.25	0.375
SA675725375R	6.75	7.25	0.375
SA675725562E	6.75	7.25	0.562
SA675750375E	6.75	7.5	0.375
SA675750625E	6.75	7.5	0.625
SA675775750E	6.75	7.75	0.75
SA675800625E	6.75	8	0.625
SA6758001000E	6.75	8	1

SINGLE ACTING -- IMPERIAL

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DR --- rod only ++++ KYB- -- piston only



LETTERS AT END OF PART # DENOTE STYLE / PICTURE ABOVE

PART #	ID	OD	HT
SA6758001000F	6.75	8	1
SA687762625E	6.875	7.625	0.625
SA700750250E	7	7.5	0.25
SA700750366TRR	7	7.5	0.343
SA700750375E	7	7.5	0.375
SA700750562E	7	7.5	0.562
SA700750687R	7	7.5	0.687
SA700762312E	7	7.625	0.312
SA700775375E	7	7.75	0.375
SA700775500E	7	7.75	0.5
SA700775500CAT	7	7.75	0.5
SA700775562EDZ	7	7.75	0.562
SA700775625E	7	7.75	0.625
SA700775625R	7	7.75	0.625
SA700775625AER	7	7.75	0.625
SA700800500E	7	8	0.5
SA700800750E	7	8	0.75
SA7008251000E	7	8.25	1
SA725775250EP	7.25	7.75	0.25
SA725775500E	7.25	7.75	0.5
SA725775562E	7.25	7.75	0.562
SA725787312E	7.25	7.875	0.312
SA725800375E	7.25	8	0.375
SA725800375U	7.25	8	0.375
SA725800500E	7.25	8	0.5
SA725800625EP	7.25	8	0.625
SA725800625E	7.25	8	0.625
SA7258501000E	7.25	8.5	1
SA725787500DZBN	7.25	8.75	0.5
SA731795750FE	7.312	7.95	0.75
SA731806562RW	7.312	8.062	0.562
BRTI737800062	7.375	8	0.062
SA737800312EP	7.375	8	0.312
SA737800312E	7.375	8	0.312
SA737800562E	7.375	8	0.562
SA750800250E	7.5	8	0.25
SA750800375RD	7.5	8	0.375
SA750800375RK	7.5	8	0.375
SA750800562E	7.5	8	0.562
SA750825625E	7.5	8.25	0.625
SA750850750E	7.5	8.5	0.75
SA750875750P	7.5	8.75	0.75
SA7508751000E	7.5	8.75	1
SA775825210E	7.75	8.25	0.21

PART #	ID	OD	HT
SA775825250EP	7.75	8.25	0.25
SA775825250E	7.75	8.25	0.25
SA7758251000E	7.75	8.25	1
SA775850500E	7.75	8.5	0.5
SA775850500EDZ	7.75	8.5	0.5
SA775850625E	7.75	8.5	0.625
SA775875750E	7.75	8.75	0.75
SA7759001000E	7.75	9	1
SA800850250E	8	8.5	0.25
SA800850375E	8	8.5	0.375
SA800850562E	8	8.5	0.562
SA800862312EP	8	8.625	0.312
SA800862500E	8	8.625	0.5
SA800875375E	8	8.75	0.375
SA800875625E	8	8.75	0.625
SA800900562E	8	9	0.562
SA800900750E	8	9	0.75
SA8009251000E	8	9.25	1
SA825862210E	8.25	8.625	0.21
SA825875562E	8.25	8.75	0.562
SA825900375E	8.25	9	0.375
SA825900625E	8.25	9	0.625
SA837900687FE	8.375	9	0.687
SA837937687RW	8.375	9.125	0.687
SA850900250E	8.5	9	0.25
SA850900375E	8.5	9	0.375
SA850900562E	8.5	9	0.562
SA850912312EP	8.5	9.125	0.312
SA850925375E	8.5	9.25	0.375
SA850925625E	8.5	9.25	0.625
SA850950500E	8.5	9.5	0.5
SA850950625E	8.5	9.5	0.625
SA850950750E	8.5	9.5	0.75
SA850975750P	8.5	9.75	0.75
SA850975100RF	8.5	9.75	1
SA875925250EP	8.75	9.25	0.25
SA875925375E	8.75	9.25	0.375
SA875937312E	8.75	9.375	0.312
SA875937312EP	8.75	9.375	0.312
SA875950375E	8.75	9.5	0.375
SA8751000100EP	8.75	10	1
SA887950470EDZ	8.875	9.5	0.47
SA900950250EP	9	9.5	0.25
SA900950375E	9	9.5	0.375

SINGLE ACTING -- IMPERIAL

R rod only ++++ P piston only ++++ F nitrile/fabric ++++ DR --- rod only ++++ KYB- -- piston only



TRR **P** **R** **U** **E EHP** **RF** **PW** **PWK** **F** **AER** **AR** **DR** **FE** **RW**

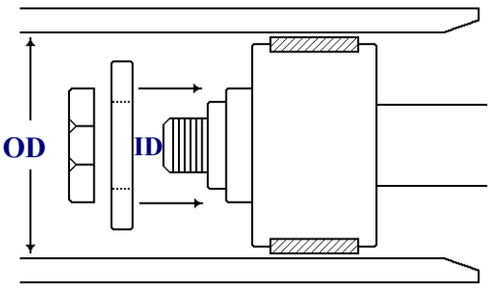
LETTERS AT END OF PART # DENOTE STYLE / PICTURE ABOVE

PART #	ID	OD	HT
SA900975375E	9	9.75	0.375
SA900975625E	9	9.75	0.625
SA9001000500E	9	10	0.5
SA9001000625E	9	10	0.625
SA9001000750E	9	10	0.75
SA9001050500E	9	10.5	0.5
SA9251000375E	9.25	10	0.375
SA9251000625E	9.25	10	0.625
SA92510501000F	9.25	10.5	1
SA9501025375EP	9.5	10.25	0.375
SA9501025625E	9.5	10.25	0.625
SA9621025312EP	9.625	10.375	0.625
SA9751025562E	9.75	10.25	0.562
SA9751037625EDZ	9.75	10.375	0.625
SA9751050625E	9.75	10.5	0.625
SA10001050250E	10	10.5	0.25
SA1001050562E	10	10.5	0.562
SA10001075375E	10	10.75	0.375
SA10001100500E	10	11	0.5
SA10001100625UF	10	11	0.625
SA10001100750E	10	11	0.75
SA100011251000E	10	11.25	1
SA10251100375E	10.25	11	0.375
SA10371087531P	10.375	10.875	0.531
SA10621137375EP	10.625	11.375	0.375
SA11001175625E	11	11.75	0.625
SA11001200500E	11	12	0.5
SA11001200500EP	11	12	0.5
SA11001200750E	11	12	0.75
SA11251175250E	11.25	11.75	0.25
SA11251200375EP	11.25	12	0.375
SA11251200375E	11.25	12	0.375
SA11371187531P	11.375	11.875	0.531
SA12001300750E	12	13	0.75
SA12001400125F	12	14	1.25
SA12371287531P	12.375	12.875	0.531
SA13001400500E	13	14	0.5
SA13001400750E	13	14	0.75
SA13251425750E	13.25	14.25	0.75
SA13371387531P	13.375	13.875	0.531

PART #	ID	OD	HT
SA14751600100E	14.75	16	1
SA15371587531P	15.375	15.875	0.531
SA16001800150F	16	18	1.5
SA16501800150E#	16.5	18	1.5
SA17251800500UF	17.25	18	0.5
SA18001900750E	18	19	0.75

TRACK ADJUSTER / CHAIN SEALS

KYB

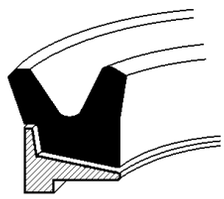




KYBF

TYPICAL PROFILE

KYBP



2 PIECE SINGLE ACTING PISTON SEAL

METRIC SIZES - TWO PIECE PISTON

SOLD AS REPLACMENT PART ONLY

PART #	OD	ID	HT
KYBP040	40	22	12
KYBF04002512	40	25	12
KYBP045	45	27	12
KYBF04503012	45	30	12
KYBP050	50	32	12
KYBF05003512	50	35	12
KYBF05503015.5	55	30	15.5
KYBP055	55	37	12
KYBF05504009.5	55	40	9.5
KYBF06003515.5	60	35	15.5
KYBP060	60	42	12
KYBF06004509.5	60	45	9.5
KYBF06004512	60	45	12
KYBP065	65	47	12
KYBF06505009.5	65	50	9.5
KYBF07004011	70	40	11
KYBF07004515.5	70	45	15.5
KYBP070	70	48	14.5
KYBF07005510.5	70	55	10.5
KYBF07005512	70	55	12
KYBF07506012	75	60	12
KYBF08005012	80	50	12
KYBF08505512	80	55	12
KYBP080	80	58	14.5
KYBF08006512	80	65	12
KYBF08006513	80	65	13
KYBP085	85	63	14.5
KYBF08507012	85	70	12
KYBP090	90	68	14.5
KYBF09007012.5	90	70	12.5
KYBF09507512	95	75	12
KYBF09508012	95	80	12
KYBP100	100	78	14.5

PART #	OD	ID	HT
KYBF10008012	100	80	12
KYBF10008014	100	80	14
KYBP110	110	88	14.5
KYBF11009012	110	90	12
KYBP115	115	93	14.5
KYBP120	120	98	14.5
KYBF12010014	120	100	14
KYBP125	125	103	14.5
KYBP130	130	108	14.5
KYBF13011014	130	110	14
KYBP140	140	118	14.5
KYBF14012014	140	120	14
KYBP150	150	128	14.5
KYBF15012913	150	129	13
KYBF15013014	150	130	14
KYBP160	160	138	14.5
KYBF16014012	160	140	12
KYBF16014013	160	140	13
KYBF16014014	160	140	14
KYBP170	170	148	14.5
KYBP180	180	158	14.5
KYBF18016015	180	160	15
KYBF18016016	180	160	16
KYBP190	190	168	14.5
KYBP200	200	178	14.5
KYBF20018016.3	200	180	16.3
KYBF22520016.3	225	200	16.3
KYBP225	225	203	14.5
KYBF25022516.3	250	225	16.3
KYBF28025516.3	280	255	16.3

WIPER SEALS

X REFERENCE IMPERIAL FLEXIBLE 1

X REFERENCE METRIC FLEXIBLE 23

D WIPER MACHINING 10

AN WIPER MACHINING 13

WYCLIP IMPERIAL 16

WYCLIP METRIC 44

S WIPER 17

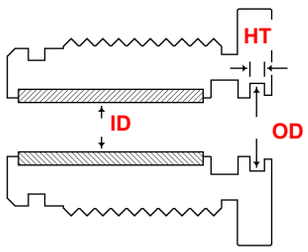
METAL SCRAPER 18

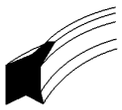
EXTERNAL FLEXIBLE BORE WIPER 45

METAL CASED IMPERIAL 19

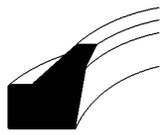
METAL CASED METRIC 36

FLEXIBLE - WIPERS (IMPERIAL)



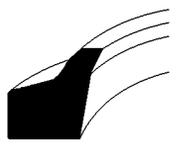

WK

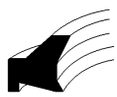

ASC


D / TX


AN


W0 / HAT


ALWS


H


DELTA

FLEXIBLE URETHANE / NITRILE

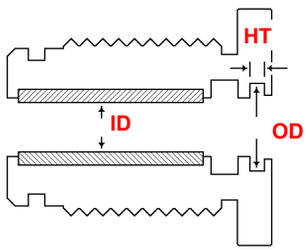
TYPE D AND AN ARE PREFERRED STYLES

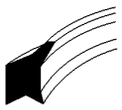
MACHINING --- D ON PAGE 10- AN ON PAGE 13

PART #	ID	OD	HT	MATERIAL
FWI012HAT	0.125	0.312	0.031	NITRILE
FWI018HAT	0.187	0.437	0.062	NITRILE
FWI025D	0.25	0.5	0.125	HPU
FWI025HAT	0.25	0.625	0.094	NITRILE
FWI031D	0.312	0.562	0.126	URETHANE
FWI031HAT	0.312	0.75	0.062	NITRILE
FWI037ASC	0.375	0.54	0.12	URETHANE
FWI037D	0.375	0.625	0.126	URETHANE
FWI037H	0.375	0.687	0.194	NITRILE
WY037	0.375	0.75	0.172	NYLON
FWI037HAT	0.375	0.875	0.062	NITRILE
FWI043ASC	0.437	0.61	0.12	NITRILE
FWI043D	0.437	0.688	0.126	URETHANE
FWI043HAT	0.437	0.937	0.125	NITRILE
FWI050ASC	0.5	0.68	0.13	NITRILE
FWI050WK-NBR	0.5	0.745	0.171	NITRILE
FWI050WK	0.5	0.745	0.171	NITRILE
FWI050D	0.5	0.75	0.126	URETHANE
FWI050/1H	0.5	0.75	0.145	URETHANE
FWI050AN	0.5	0.762	0.107	URETHANE
FWI050HN	0.5	0.803	0.205	NITRILE
FWI050H	0.5	0.812	0.194	URETHANE
WY050	0.5	0.875	0.172	NYLON
FWI050WO	0.5	0.9	0.135	NITRILE
FWI050HAT	0.5	1	0.125	NITRILE
FWI056ASC	0.562	0.74	0.13	NITRILE
FWI056AN	0.562	0.825	0.107	URETHANE
FWI056WO	0.562	0.963	0.135	NITRILE
FWI056HAT	0.562	1.093	0.125	NITRILE
FWI062ASC	0.625	0.82	0.14	NITRILE
FWI062AWK-NBR	0.625	0.87	0.171	NITRILE

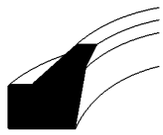
PART #	ID	OD	HT	MATERIAL
FWI062D	0.625	0.875	0.126	URETHANE
FWI062/1H	0.625	0.875	0.145	URETHANE
FWI062AWK	0.625	0.875	0.171	NITRILE
FWI062AN	0.625	0.887	0.107	URETHANE
FWI062/2H	0.625	0.937	0.187	URETHANE
FWI062/2HV	0.625	0.937	0.191	VITON
FWI062HN	0.625	0.937	0.194	NITRILE
FWI062H	0.625	0.937	0.194	NITRILE
FWI062ALWS	0.625	0.937	0.208	NITRILE
FWI062WK	0.625	0.995	0.183	NITRILE
WY062	0.625	1	0.172	NYLON
FWI062/1WO	0.625	1.025	0.065	NITRILE
FWI062WO	0.625	1.025	0.135	NITRILE
FWI062HAT	0.625	1.375	0.125	NITRILE
FWI068ASC	0.687	0.88	0.14	NITRILE
FWI068AN	0.687	0.95	0.107	URETHANE
FWI068HAT	0.687	1.625	0.187	NITRILE
FWI075ASC	0.75	0.95	0.14	URETHANE
FWI075AWK	0.75	0.995	0.171	URETHANE
FWI075AWKK	0.75	0.995	0.171	URETHANE
FWI075AN	0.75	1.012	0.107	URETHANE
FWI075/1D	0.75	1.026	0.156	URETHANE
FWI075HNBR	0.75	1.053	0.205	NITRILE
FWI075H	0.75	1.062	0.194	URETHANE
FWI075/1WO	0.75	1.118	0.114	NITRILE
FWI075WKNBR	0.75	1.12	0.183	NITRILE
FWI075WK	0.75	1.12	0.183	NITRILE
FWI075D	0.75	1.125	0.189	URETHANE
FWI075DV	0.75	1.125	0.189	VITON
FWI075WO	0.75	1.15	0.135	NITRILE
WY075	0.75	1.25	0.234	NYLON
FWI075SO	0.75	1.28	0.165	ACETAL
FWI075HAT	0.75	1.5	0.125	NITRILE

FLEXIBLE - WIPERS (IMPERIAL)



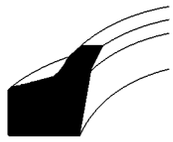

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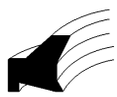

ASC


D / TX


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W0 / HAT


ALWS


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DELTA

FLEXIBLE URETHANE / NITRILE

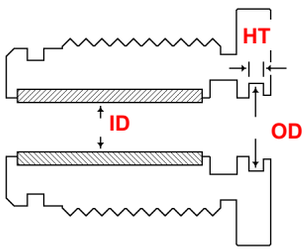
TYPE D AND AN ARE PREFERRED STYLES

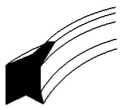
MACHINING --- D ON PAGE 10- AN ON PAGE 13

PART #	ID	OD	HT	MATERIAL
FWI081ASC	0.812	1.02	0.14	NITRILE
FWI081AN	0.812	1.086	0.107	URETHANE
FWI081D	0.812	1.187	0.189	URETHANE
FWI081HAT	0.812	1.375	0.125	NITRILE
FWI087ASC	0.875	1.08	0.15	URETHANE
FWI087AWKK	0.875	1.12	0.171	URETHANE
FWI087AWK-NBR	0.875	1.12	0.171	NITRILE
FWI087AWK	0.875	1.12	0.171	NITRILE
FWI087AN	0.875	1.149	0.107	URETHANE
FWI087WKK	0.875	1.245	0.183	URETHANE
FWI087WK	0.875	1.25	0.183	URETHANE
FWI087D	0.875	1.25	0.189	URETHANE
FWI087WO	0.875	1.275	0.135	NITRILE
WY087	0.875	1.375	0.234	NYLON
FWI087HAT	0.875	1.75	0.156	NITRILE
FWI093ASC	0.937	1.15	0.15	NITRILE
FWI093AN	0.937	1.211	0.107	URETHANE
FWI093HAT	0.937	1.781	0.187	NITRILE
FWI100ASC	1	1.24	0.16	URETHANE
FWI100AWKV	1	1.245	0.171	VITON
FWI100AWK	1	1.245	0.171	NITRILE
FWI100AWKK	1	1.245	0.171	URETHANE
FWI100AWK-NBR	1	1.245	0.171	NITRILE
FWI100AN	1	1.274	0.107	URETHANE
FWI100/1H	1	1.335	0.173	URETHANE
FWI100WK	1	1.37	0.183	URETHANE
FWI100WKK	1	1.37	0.183	URETHANE
FWI100WKNBR	1	1.37	0.183	NITRILE
FWI100DL	1	1.375	0.187	HYTREL
FWI100D-K11	1	1.375	0.187	TPE
FWI100DV	1	1.375	0.189	VITON
FWI100D-K06	1	1.375	0.189	URETHANE
FWI100H	1	1.375	0.212	NITRILE

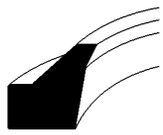
PART #	ID	OD	HT	MATERIAL
FWI100HV	1	1.375	0.212	VITON
FWI100WO	1	1.4	0.135	NITRILE
FWI100ALWS	1	1.5	0.208	URETHANE
WY100	1	1.5	0.234	NYLON
FWI100SO	1	1.53	0.165	ACETAL
FWI100/1WO	1	1.625	0.106	NITRILE
FWI100HAT	1	1.75	0.125	NITRILE
FWI106ASC	1.062	1.29	0.16	NITRILE
FWI106AN	1.062	1.336	0.107	URETHANE
FWI112ASC	1.125	1.375	0.16	URETHANE
FWI112AN	1.125	1.399	0.107	URETHANE
FWI112WK-NBR	1.125	1.495	0.183	NITRILE
FWI112WK	1.125	1.495	0.183	NITRILE
FWI112D	1.125	1.5	0.189	URETHANE
FWI112H	1.125	1.5	0.212	URETHANE
FWI112WO	1.125	1.625	0.135	NITRILE
FWI112ALWS	1.125	1.625	0.208	URETHANE
WY112	1.125	1.625	0.234	NYLON
FWI112HAT	1.125	2	0.125	NITRILE
FWI118ASC	1.187	1.42	0.16	NITRILE
FWI118AN	1.187	1.461	0.107	URETHANE
FWI118D	1.187	1.562	0.189	URETHANE
FWI125ASC	1.25	1.49	0.17	URETHANE
FWI125AWK-NBR	1.25	1.495	0.171	NITRILE
FWI125AWK	1.25	1.495	0.171	NITRILE
FWI125AWKK	1.25	1.495	0.171	URETHANE
FWI125AN	1.25	1.524	0.107	URETHANE
FWI125HN	1.25	1.616	0.22	NITRILE
FWI125WK	1.25	1.62	0.183	NITRILE
FWI125WKK	1.25	1.62	0.183	URETHANE
FWI125WK-NBR	1.25	1.62	0.183	NITRILE
FWI125DL	1.25	1.625	0.187	HYTREL
FWI125D-K11	1.25	1.625	0.187	TPE

FLEXIBLE - WIPERS (IMPERIAL)



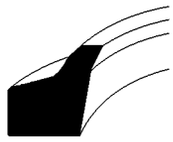

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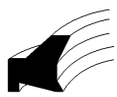

ASC


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ALWS


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DELTA

FLEXIBLE URETHANE / NITRILE

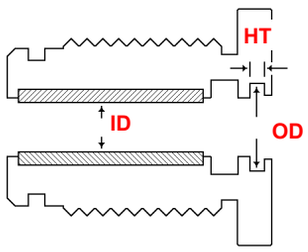
TYPE D AND AN ARE PREFERRED STYLES

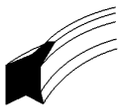
MACHINING --- D ON PAGE 10- AN ON PAGE 13

PART #	ID	OD	HT	MATERIAL
FWI125DV	1.25	1.625	0.189	VITON
FWI125D-K06	1.25	1.625	0.189	URETHANE
FWI125H	1.25	1.625	0.212	URETHANE
FWI125/1WO	1.25	1.75	0.094	NITRILE
FWI125WO	1.25	1.75	0.135	NITRILE
FWI125ALWS	1.25	1.75	0.208	URETHANE
WY125	1.25	1.75	0.234	NYLON
FWI125SO	1.25	1.78	0.165	ACETAL
FWI125HAT	1.25	2.935	0.2	NITRILE
FWI131AN	1.312	1.616	0.107	URETHANE
FWI131WO	1.312	1.875	0.125	NITRILE
FWI137ASC	1.375	1.625	0.17	NITRILE
FWI137ANV	1.375	1.679	0.107	VITON
FWI137AN	1.375	1.679	0.107	URETHANE
FWI137WK	1.375	1.745	0.183	NITRILE
FWI137WKK	1.375	1.745	0.183	URETHANE
FWI137WKV	1.375	1.745	0.183	VITON
FWI137WKNBR	1.375	1.745	0.183	NITRILE
FWI137D-K11	1.375	1.75	0.187	TPE
FWI137D-K06	1.375	1.75	0.189	URETHANE
FWI137DL	1.375	1.75	0.189	HYTREL
FWI137DP	1.375	1.75	0.189	
FWI137H	1.375	1.75	0.212	NITRILE
FWI137HEPR	1.375	1.75	0.212	EPDM
FWI137HV	1.375	1.75	0.212	VITON
FWI137WO	1.375	1.875	0.135	NITRILE
FWI137ALWS	1.375	1.875	0.208	URETHANE
WY137	1.375	1.875	0.234	NYLON
FWI137HAT	1.375	2.187	0.125	NITRILE
FWI143AN	1.437	1.741	0.107	URETHANE
FWI150PP	1.5	1.65	0.114	URETHANE
FWI150AWK	1.5	1.745	0.171	NITRILE
FWI150AWKK	1.5	1.745	0.171	URETHANE

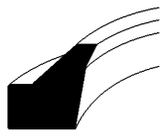
PART #	ID	OD	HT	MATERIAL
FWI150AWK-NBR	1.5	1.745	0.171	NITRILE
FWI150ASC	1.5	1.77	0.18	URETHANE
FWI150ASCPU54	1.5	1.77	0.18	URETHANE
FWI150ASCV	1.5	1.77	0.18	VITON
FWI150AN	1.5	1.804	0.107	URETHANE
FWI150WKK	1.5	1.87	0.183	URETHANE
FWI150WK	1.5	1.87	0.187	NITRILE
FWI150WK-NBR	1.5	1.875	0.183	NITRILE
FWI150DL	1.5	1.875	0.187	HYTREL
FWI150D-K11	1.5	1.875	0.187	TPE
FWI150DP	1.5	1.875	0.189	TPE
FWI150DPUMXD	1.5	1.875	0.189	URETHANE
FWI150D-K06	1.5	1.875	0.189	URETHANE
FWI150DV	1.5	1.875	0.189	VITON
FWI150DA	1.5	1.875	0.189	ACETAL
FWI150H	1.5	1.875	0.212	URETHANE
FWI150WO	1.5	2	0.135	NITRILE
FWI150/1WO	1.5	2	0.2	NITRILE
FWI150ALWS	1.5	2	0.208	URETHANE
WY150	1.5	2	0.234	NYLON
FWI150SO	1.5	2.03	0.165	ACETAL
FWI150HAT	1.5	2.75	0.125	NITRILE
FWI162ASC	1.625	1.88	0.18	NITRILE
FWI162AN	1.625	1.929	0.107	NITRILE
FWI162WK	1.625	1.995	0.183	NITRILE
FWI162DL	1.625	2	0.187	HYTREL
FWI162D	1.625	2	0.189	URETHANE
FWI162H	1.625	2	0.212	URETHANE
FWI162WO	1.625	2.125	0.135	NITRILE
FWI162ALWS	1.625	2.125	0.208	NITRILE
WY162	1.625	2.125	0.234	NYLON
FWI162HAT	1.625	2.5	0.125	NITRILE
FWI168ASC	1.687	1.96	0.19	NITRILE

FLEXIBLE - WIPERS (IMPERIAL)



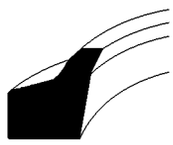

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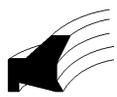

ASC


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ALWS


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DELTA

FLEXIBLE URETHANE / NITRILE

TYPE D AND AN ARE PREFERRED STYLES

MACHINING --- D ON PAGE 10- AN ON PAGE 13

PART #	ID	OD	HT	MATERIAL
FWI175ASC	1.75	2.03	0.19	URETHANE
FWI175AN	1.75	2.054	0.107	URETHANE
FWI175/1H	1.75	2.065	0.175	URETHANE
FWI175/1D	1.75	2.085	0.218	URETHANE
FWI175WKK	1.75	2.12	0.183	URETHANE
FWI175WK	1.75	2.12	0.183	URETHANE
FWI175WK-NBR	1.75	2.12	0.183	NITRILE
FWI175WKV	1.75	2.125	0.183	VITON
FWI175D-K11	1.75	2.125	0.187	TPE
FWI175DL	1.75	2.125	0.187	HYTREL
FWI175DA	1.75	2.125	0.187	ACETAL
FWI175D72D	1.75	2.125	0.189	ACETAL
FWI175D-K06	1.75	2.125	0.189	URETHANE
FWI175DP	1.75	2.125	0.189	TPE
FWI175DV	1.75	2.125	0.189	VITON
FWI175HV	1.75	2.125	0.212	VITON
FWI175H	1.75	2.125	0.212	NITRILE
FWI175/2DA	1.75	2.187	0.187	ACETAL
FWI175WOV	1.75	2.25	0.135	VITON
FWI175WO	1.75	2.25	0.135	NITRILE
FWI175ALWSFDA	1.75	2.25	0.208	NITRILE
FWI175ALWS	1.75	2.25	0.208	URETHANE
WY175	1.75	2.25	0.234	NYLON
FWI175SO	1.75	2.28	0.165	ACETAL
FWI175HAT	1.75	2.75	0.187	NITRILE

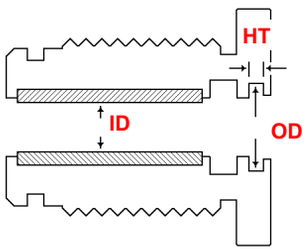
FWI187ASC	1.875	2.16	0.19	NITRILE
FWI187AN	1.875	2.179	0.107	URETHANE
FWI187WKK	1.875	2.245	0.183	URETHANE
FWI187D	1.875	2.25	0.189	URETHANE
FWI187H	1.875	2.25	0.212	NITRILE
FWI187WK	1.875	2.263	0.183	NITRILE
FWI187WO	1.875	2.375	0.135	NITRILE
FWI187ALWS	1.875	2.375	0.208	NITRILE
FWI187HAT	1.875	2.875	0.125	NITRILE

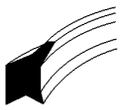
PART #	ID	OD	HT	MATERIAL
FWI200AWK	2	2.245	0.171	NITRILE
FWI200AWKK	2	2.245	0.171	URETHANE
FWI200ASC	2	2.3	0.2	URETHANE
FWI200AN	2	2.304	0.107	URETHANE
FWI200MH	2	2.346	0.223	PTFE
FWI200WK-NBR	2	2.37	0.183	NITRILE
FWI200WK	2	2.37	0.183	URETHANE
FWI200WKK	2	2.37	0.183	URETHANE
FWI200WKV	2	2.375	0.183	VITON
FWI200H	2	2.375	0.212	NITRILE
FWI200HV	2	2.375	0.212	VITON
FWI200PWS	2	2.375	0.22	
FWI200DELTA	2	2.375	0.312	URETHANE
FWI200/1D	2	2.398	0.23	URETHANE
FWI200WO	2	2.5	0.135	NITRILE
FWI200ALWS	2	2.5	0.208	URETHANE
WY200	2	2.5	0.234	NYLON
FWI200D-K11	2	2.5	0.25	TPE
FWI200DL	2	2.5	0.25	HYTREL
FWI200DV	2	2.5	0.251	VITON
FWI200D-K06	2	2.5	0.251	URETHANE
FWI200SO	2	2.53	0.165	ACETAL
FWI200HAT	2	2.75	0.125	NITRILE

FWI212AN	2.125	2.429	0.107	URETHANE
FWI212ASC	2.125	2.43	0.21	URETHANE
FWI212AWK	2.125	2.5	0.183	NITRILE
FWI212WO	2.125	2.625	0.135	NITRILE
FWI212ALWS	2.125	2.625	0.208	URETHANE
WY212	2.125	2.625	0.234	NYLON
FWI212D	2.125	2.625	0.251	URETHANE
FWI212WK	2.125	2.645	0.245	NITRILE
FWI212HAT	2.125	3	0.125	NITRILE

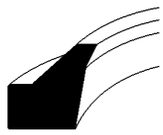
FWI225AN	2.25	2.554	0.107	URETHANE
FWI225ASC	2.25	2.57	0.21	NITRILE

FLEXIBLE - WIPERS (IMPERIAL)



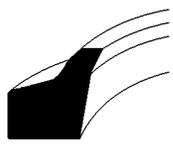

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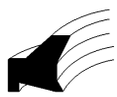

ASC


D / TX


AN


W0 / HAT


ALWS


H


DELTA

FLEXIBLE URETHANE / NITRILE

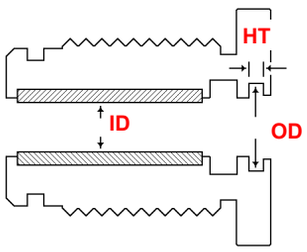
TYPE D AND AN ARE PREFERRED STYLES

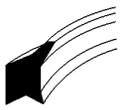
MACHINING --- D ON PAGE 10- AN ON PAGE 13

PART #	ID	OD	HT	MATERIAL
FWI225ASCPU57	2.25	2.57	0.21	URETHANE
FWI225AWK	2.25	2.625	0.195	URETHANE
FWI225/1D	2.25	2.648	0.23	URETHANE
FWI225WO	2.25	2.75	0.135	NITRILE
FWI225ALWS	2.25	2.75	0.208	NITRILE
WY225	2.25	2.75	0.234	NYLON
FWI225D-K11	2.25	2.75	0.25	TPE
FWI225DL	2.25	2.75	0.25	HYTREL
FWI225D-K06	2.25	2.75	0.251	URETHANE
FWI225H	2.25	2.75	0.275	NITRILE
FWI225WK	2.25	2.77	0.245	NITRILE
FWI225SO	2.25	2.78	0.12	ACETAL
FWI225HAT	2.25	3.25	0.125	NITRILE
FWI237AN	2.375	2.679	0.107	URETHANE
FWI237ASC	2.375	2.7	0.22	URETHANE
FWI237WO	2.375	2.875	0.135	NITRILE
FWI237D-K11	2.375	2.875	0.25	TPE
FWI237D-K06	2.375	2.875	0.251	URETHANE
FWI237WK	2.375	2.895	0.245	NITRILE
FWI237HAT	2.375	3.562	0.125	NITRILE
FWI250AN	2.5	2.804	0.107	URETHANE
FWI250ASC	2.5	2.84	0.22	NITRILE
FWI250AWK-NBR	2.5	2.87	0.183	NITRILE
FWI250AWK	2.5	2.87	1.83	URETHANE
FWI250DELTA	2.5	2.875	0.312	URETHANE
FWI250/1D	2.5	2.898	0.23	URETHANE
FWI250/2DP	2.5	3	0.132	
FWI250WO	2.5	3	0.135	NITRILE
FWI250ALWSFDA	2.5	3	0.208	NITRILE
FWI250ALWS	2.5	3	0.208	NITRILE
WY250	2.5	3	0.234	NYLON
FWI250DL	2.5	3	0.25	HYTREL
FWI250WKV	2.5	3	0.25	VITON
FWI250D-K11	2.5	3	0.25	TPE

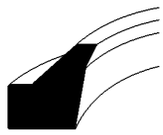
PART #	ID	OD	HT	MATERIAL
FWI250DP	2.5	3	0.251	TPE
FWI250DV	2.5	3	0.251	VITON
FWI250DA	2.5	3	0.251	ACETAL
FWI250D72D	2.5	3	0.251	ACETAL
FWI250D-K06	2.5	3	0.251	URETHANE
FWI250H	2.5	3	0.275	NITRILE
FWI250WK	2.5	3.02	0.245	URETHANE
FWI250WKK	2.5	3.02	0.245	URETHANE
FWI250WKNBR	2.5	3.02	0.245	NITRILE
FWI250SO	2.5	3.03	0.165	ACETAL
FWI250HAT	2.5	3.125	0.125	NITRILE
FWI262ASC	2.625	2.97	0.23	NITRILE
FWI262AN	2.625	2.991	0.122	URETHANE
FWI262D	2.625	3.125	0.251	URETHANE
FWI262WK	2.625	3.145	0.245	NITRILE
FWI262HAT	2.625	4	0.093	NITRILE
FWI275ASC	2.75	3.11	0.23	NITRILE
FWI275ANV	2.75	3.116	0.119	VITON
FWI275AN	2.75	3.116	0.122	URETHANE
FWI275DELTA	2.75	3.125	0.312	URETHANE
FWI275/1D	2.75	3.187	0.187	URETHANE
FWI275WK-NBR	2.75	3.245	0.245	NITRILE
FWI275WK	2.75	3.245	0.245	NITRILE
FWI275WO	2.75	3.25	0.135	NITRILE
FWI275ALWS	2.75	3.25	0.208	NITRILE
WY275	2.75	3.25	0.234	NYLON
FWI275DL	2.75	3.25	0.25	HYTREL
FWI275D	2.75	3.25	0.251	URETHANE
FWI275H	2.75	3.25	0.275	URETHANE
FWI275HAT	2.75	3.75	0.125	NITRILE
FWI287ASC	2.875	3.24	0.24	NITRILE
FWI287AN	2.875	3.241	0.122	URETHANE
FWI287WO	2.875	3.375	0.135	NITRILE

FLEXIBLE - WIPERS (IMPERIAL)



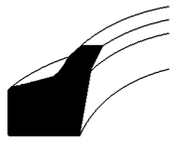

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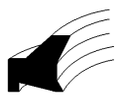

ASC


D / TX


AN


W0 / HAT


ALWS


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DELTA

FLEXIBLE URETHANE / NITRILE

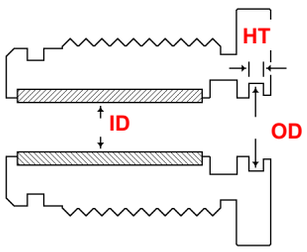
TYPE D AND AN ARE PREFERRED STYLES

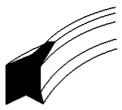
MACHINING --- D ON PAGE 10- AN ON PAGE 13

PART #	ID	OD	HT	MATERIAL
FWI287D	2.875	3.375	0.251	URETHANE
FWI287HAT	2.875	3.875	0.125	NITRILE
FWI300WK-NBR	3	3.25	0.245	NITRILE
FWI300MH	3	3.346	0.22	PTFE/NBR
FWI300AN	3	3.366	0.122	URETHANE
FWI300DELTA	3	3.375	0.312	URETHANE
FWI300ASC	3	3.38	0.24	URETHANE
FWI300AWK	3	3.394	0.214	URETHANE
FWI300/1D	3	3.398	0.23	URETHANE
FWI300WO	3	3.5	0.135	NITRILE
FWI300/2D	3	3.5	0.187	URETHANE
FWI300ALWS	3	3.5	0.208	NITRILE
FWI300ALWSFDA	3	3.5	0.208	NITRILE
WY300	3	3.5	0.234	NYLON
FWI300WKV	3	3.5	0.25	VITON
FWI300D-K11	3	3.5	0.25	TPE
FWI300WK	3	3.5	0.25	URETHANE
FWI300DL	3	3.5	0.25	HYTREL
FWI300DB	3	3.5	0.251	URTHANE
FWI300D-K06	3	3.5	0.251	URETHANE
FWI300HV	3	3.5	0.275	VITON
FWI300H	3	3.5	0.275	NITRILE
FWI300WKK	3	3.52	0.245	URETHANE
FWI300SO	3	3.53	0.165	ACETAL
FWI300K94	3	3.56	0.631	URETHANE
FWI300HAT	3	4.5	0.187	NITRILE
FWI312AN	3.125	3.491	0.122	URETHANE
FWI312ASC	3.125	3.5	0.25	URETHANE
FWI312D	3.125	3.625	0.251	URETHANE
FWI325AN	3.25	3.616	0.122	URETHANE
FWI325DELTA	3.25	3.625	0.312	URETHANE
FWI325ASC	3.25	3.65	0.25	NITRILE
FWI325WK-NBR	3.25	3.745		

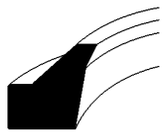
PART #	ID	OD	HT	MATERIAL
FWI325ALWS	3.25	3.75	0.208	NITRILE
WY325	3.25	3.75	0.234	NYLON
FWI325WK	3.25	3.75	0.25	URETHANE
FWI325D	3.25	3.75	0.251	URETHANE
FWI325H	3.25	3.75	0.275	URETHANE
FWI325WO	3.25	4	0.197	NITRILE
FWI337AN	3.375	3.741	0.122	URETHANE
FWI337ASC	3.375	3.78	0.26	NITRILE
FWI337ALWS	3.375	3.875	0.208	NITRILE
WY337	3.375	3.875	0.234	NYLON
FWI337D	3.375	3.875	0.251	URETHANE
FWI337WK	3.375	3.895	0.245	NITRILE
FWI337WO	3.375	4.125	0.197	NITRILE
FWI350AN	3.5	3.866	0.122	URETHANE
FWI350AWK	3.5	3.875	0.195	URETHANE
FWI350DELTA	3.5	3.875	0.312	URETHANE
FWI350ASC	3.5	3.92	0.27	NITRILE
FWI350H	3.5	3.995	0.281	NITRILE
FWI350ALWS	3.5	4	0.208	NITRILE
WY350	3.5	4	0.234	NYLON
FWI350WK	3.5	4	0.245	URETHANE
FWI350WKV	3.5	4	0.25	VITON
FWI350D	3.5	4	0.251	URETHANE
FWI350WK-NBR	3.5	4.02	0.245	NITRILE
FWI350/1D	3.5	4.062	0.187	URETHANE
FWI350WO	3.5	4.25	0.197	NITRILE
FWI362AN	3.625	3.991	0.122	URETHANE
FWI362ASC	3.625	4.05	0.27	NITRILE
FWI362ALWS	3.625	4.125	0.208	NITRILE
FWI362WK	3.625	4.125	0.25	URETHANE
FWI362D	3.625	4.125	0.251	URETHANE
FWI362/1D	3.625	4.187	0.187	URETHANE
FWI375AN	3.75	4.116	0.122	URETHANE

FLEXIBLE - WIPERS (IMPERIAL)



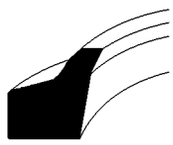

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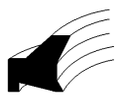

ASC


D / TX


AN


W0 / HAT


ALWS


H


DELTA

FLEXIBLE URETHANE / NITRILE

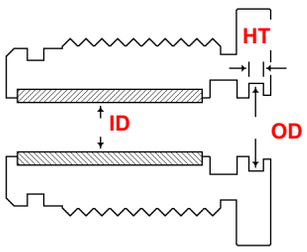
TYPE D AND AN ARE PREFERRED STYLES

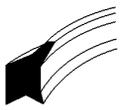
MACHINING --- D ON PAGE 10- AN ON PAGE 13

PART #	ID	OD	HT	MATERIAL
FWI375/1D	3.75	4.158	0.187	URETHANE
FWI375ASC	3.75	4.19	0.28	NITRILE
WY375	3.75	4.25	0.234	NYLON
FWI375D	3.75	4.25	0.251	URETHANE
FWI375H	3.75	4.25	0.275	URETHANE
FWI375WK	3.75	4.27	0.245	NITRILE
FWI375WO	3.75	4.5	0.197	NITRILE
FWI387AN	3.875	4.241	0.122	URETHANE
FWI387ASC	3.875	4.32	0.28	NITRILE
FWI387D	3.875	4.375	0.251	URETHANE
FWI400MH	4	4.346	0.22	PTFE/NBR
FWI400AN	4	4.429	0.138	URETHANE
FWI400ASC	4	4.46	0.29	NITRILE
FWI400ALWS	4	4.5	0.208	NITRILE
WY400	4	4.5	0.234	NYLON
FWI400D	4	4.5	0.251	URETHANE
FWI400H	4	4.5	0.275	URETHANE
FWI400DELTA	4	4.5	0.312	URETHANE
FWI400WKK	4	4.52	0.245	URETHANE
FWI400WK	4	4.52	0.245	NITRILE
FWI400WK-NBR	4	4.52	0.245	NITRILE
FWI400SO	4	4.53	0.165	ACETAL
FWI400/1H	4	4.59	0.3	NITRILE
FWI400WO	4	4.75	0.197	NITRILE
FWI412ASC	4.125	4.34	0.16	NITRILE
FWI412AN	4.125	4.554	0.138	URETHANE
FWI425ASC	4.25	4.455	0.15	NITRILE
FWI425AN	4.25	4.679	0.138	URETHANE
FWI425/1ASC	4.25	4.73	0.3	NITRILE
WY425	4.25	4.75	0.234	NYLON
FWI425D	4.25	4.75	0.251	URETHANE
FWI425WK	4.25	4.77	0.245	NITRILE
FWI425WO	4.25	5	0.197	NITRILE

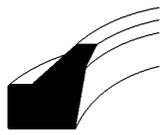
PART #	ID	OD	HT	MATERIAL
FWI437AN	4.375	4.804	0.138	URETHANE
FWI437ASC	4.375	4.86	0.3	NITRILE
FWI437ALWS	4.375	4.875	0.208	NITRILE
FWI437WK	4.375	4.875	0.245	NITRILE
FWI437D	4.375	4.875	0.251	URETHANE
FWI437/1D	4.375	4.908	0.187	URETHANE
FWI450AN	4.5	4.929	0.138	URETHANE
FWI450H	4.5	4.995	0.281	NITRILE
FWI450ALWS	4.5	5	0.208	NITRILE
WY450	4.5	5	0.234	NYLON
FWI450ASC	4.5	5	0.31	NITRILE
FWI450DELTA	4.5	5	0.312	URETHANE
FWI450WK-NBR	4.5	5.02	0.245	NITRILE
FWI450WK	4.5	5.02	0.245	URETHANE
FWI450WO	4.5	5.25	0.197	NITRILE
FWI450D	4.5	5.25	0.376	URETHANE
FWI450DP	4.5	5.25	0.376	POLYESTE
FWI450DH	4.5	5.25	0.376	URETHANE
FWI462AN	4.625	5.054	0.138	URETHANE
FWI462ALWS	4.625	5.125	0.208	NITRILE
FWI475/1D	4.75	5.135	0.187	URETHANE
FWI475AN	4.75	5.179	0.138	URETHANE
FWI475H	4.75	5.245	0.281	NITRILE
FWI475ALWS	4.75	5.25	0.208	NITRILE
WY475	4.75	5.25	0.234	NYLON
FWI475DELTA	4.75	5.25	0.312	URETHANE
FWI475WK	4.75	5.27	0.245	NITRILE
FWI475WO	4.75	5.5	0.197	NITRILE
FWI475D	4.75	5.5	0.376	URETHANE
FWI487AN	4.875	5.304	0.138	URETHANE
FWI500MH	5	5.346	0.22	PTFE/NBR
FWI500AN	5	5.429	0.138	URETHANE

FLEXIBLE - WIPERS (IMPERIAL)



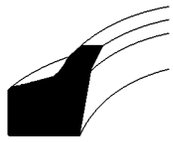

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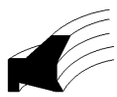

ASC


D / TX


AN


W0 / HAT


ALWS


H


DELTA

FLEXIBLE URETHANE / NITRILE

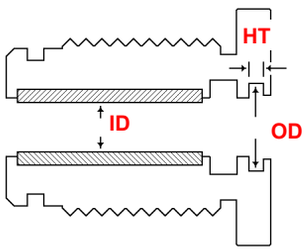
TYPE D AND AN ARE PREFERRED STYLES

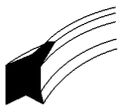
MACHINING --- D ON PAGE 10- AN ON PAGE 13

PART #	ID	OD	HT	MATERIAL
WY500	5	5.5	0.234	NYLON
FWI500/2D	5	5.5	0.25	
FWI500/1H	5	5.5	0.265	URETHANE
FWI500/1D	5	5.5	0.295	NITRILE
FWI500DELTA	5	5.5	0.312	URETHANE
FWI500WKK	5	5.52	0.245	URETHANE
FWI500WK	5	5.52	0.245	NITRILE
FWI500WO	5	5.75	0.197	NITRILE
FWI500DH	5	5.75	0.376	
FWI500D	5	5.75	0.376	URETHANE
FWI500/3D	5	5.813	0.365	
FWI550/3D	5	5.813	0.375	
FWI512AN	5.125	5.554	0.138	URETHANE
FWI512ALWS	5.125	5.625	0.208	NITRILE
FWI512D	5.125	5.875	0.376	URETHANE
FWI525AN	5.25	5.679	0.138	URETHANE
FWI525WK	5.25	5.77	0.245	URETHANE
FWI525ASC	5.25	5.81	0.34	NITRILE
FWI525/1D	5.25	5.844	0.187	URETHANE
FWI525WO	5.25	6	0.197	NITRILE
FWI525D	5.25	6	0.375	URETHANE
FWI537AN	5.375	5.804	0.138	URETHANE
FWI537ALWS	5.375	5.875	0.208	NITRILE
FWI537WK	5.375	5.875	0.245	URETHANE
FWI537ASC	5.375	5.945	0.345	NITRILE
FWI550AN	5.5	5.929	0.138	URETHANE
WY550	5.5	6	0.234	NYLON
FWI550WK	5.5	6	0.25	NITRILE
FWI550/1H	5.5	6	0.265	URETHANE
FWI550DELTA	5.5	6	0.312	URETHANE
FWI550ASC	5.5	6.08	0.35	NITRILE
FWI550WO	5.5	6.25	0.197	NITRILE
FWI550D-H	5.5	6.25	0.376	

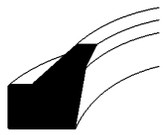
PART #	ID	OD	HT	MATERIAL
FWI550D	5.5	6.25	0.376	URETHANE
FWI562AN	5.625	6.116	0.154	URETHANE
FWI562ALWS	5.625	6.125	0.208	NITRILE
FWI562DELTA	5.625	6.125	0.312	URETHANE
FWI562ASC	5.625	6.126	0.355	NITRILE
FWI575/1D	5.75	6.158	0.187	URETHANE
FWI575AN	5.75	6.241	0.154	URETHANE
FWI575WK	5.75	6.25	0.255	NITRILE
FWI575WO	5.75	6.5	0.197	NITRILE
FWI575D	5.75	6.5	0.376	URETHANE
FWI587AN	5.875	6.366	0.154	URETHANE
FWI600AN	6	6.491	0.154	URETHANE
FWI600WK	6	6.5	0.245	NITRILE
FWI600ASC	6	6.62	0.38	NITRILE
WY600	6	6.625	0.234	NYLON
FWI600WO	6	6.75	0.197	NITRILE
FWI600D	6	6.75	0.376	URETHANE
FWI625AN	6.25	6.741	0.154	URETHANE
FWI625H	6.25	6.75	0.275	NITRILE
FWI625D	6.25	7	0.376	URETHANE
FWI631D	6.312	6.906	0.187	URETHANE
FWI650AN	6.5	6.991	0.154	URETHANE
FWI650/1AN	6.5	7	0.156	URETHANE
FWI650WK	6.5	7	0.255	NITRILE
FWI650DELTA	6.5	7	0.312	URETHANE
WY650	6.5	7.125	0.234	NYLON
FWI650ASC	6.5	7.16	0.4	NITRILE
FWI650D	6.5	7.25	0.376	URETHANE
FWI662ASC	6.625	7.295	0.405	NITRILE
FWI675/1D	6.75	7.158	0.187	
FWI675AN	6.75	7.241	0.154	URETHANE

FLEXIBLE - WIPERS (IMPERIAL)



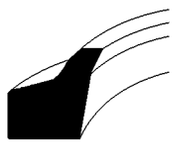

WK

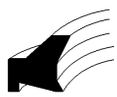

ASC


D / TX


AN


W0 / HAT


ALWS


H


DELTA

FLEXIBLE URETHANE / NITRILE

TYPE D AND AN ARE PREFERRED STYLES

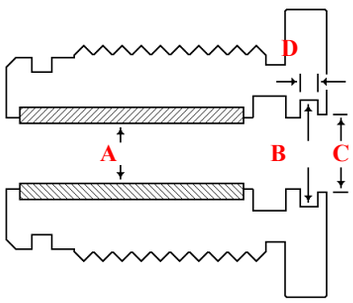
MACHINING --- D ON PAGE 10- AN ON PAGE 13

PART #	ID	OD	HT	MATERIAL
FWI675DELTA	6.75	7.25	0.312	URETHANE
FWI675D	6.75	7.5	0.376	URETHANE
FWI700AN	7	7.491	0.154	URETHANE
FWI700WK	7	7.5	0.255	NITRILE
WY700	7	7.625	0.234	NYLON
FWI700D	7	7.75	0.376	URETHANE
FWI700WO	7	8	0.26	NITRILE
FWI700/1D	7	8	0.39	
FWI725D	7.25	8	0.376	URETHANE
FWI731D	7.312	7.906	0.187	URETHANE
FWI750AN	7.5	7.991	0.154	URETHANE
FWI750DELTA	7.5	8	0.312	URETHANE
WY750	7.5	8.125	0.234	NYLON
FWI750D	7.5	8.25	0.376	URETHANE
FWI775AN	7.75	8.241	0.154	URETHANE
FWI793D	7.937	8.5	0.25	URETHANE
FWI800AN	8	8.491	0.154	URETHANE
FWI800ANFDA	8	8.491	0.154	
FWI800WK	8	8.5	0.255	NITRILE
FWI800DELTA	8	8.5	0.312	URETHANE
FWI800D	8	8.75	0.376	URETHANE
FWI825D	8.25	9	0.376	URETHANE
FWI837D	8.375	8.969	0.187	URETHANE
FWI850AN	8.5	8.991	0.154	NITRILE
FWI850/1D	8.5	9	0.25	URETHANE
FWI850DELTA	8.5	9	0.312	URETHANE
FWI850D	8.5	9.25	0.376	URETHANE
FWI900AN	9	9.491	0.154	NITRILE
FWI900D	9	9.75	0.376	URETHANE

PART #	ID	OD	HT	MATERIAL
FWI937AN	9.375	9.75	0.183	NITRILE
FWI975DELTA	9.75	10.25	0.312	URETHANE
FWI1000AN	10	10.491	0.154	NITRILE
FWI1000D	10	11	0.52	URETHANE
FWI1050AN	10.5	10.991	0.154	HPU
FWI1100AN	11	11.491	0.154	NITRILE
FWI1100D	11	12	0.52	URETHANE
FWI1200D	12	14	0.52	HPU
FWI1300D	13	14	0.52	URETHANE

D WIPER

URTHANE -- FLEXIBLE WIPER -- LIGHT / MEDIUM DUTY

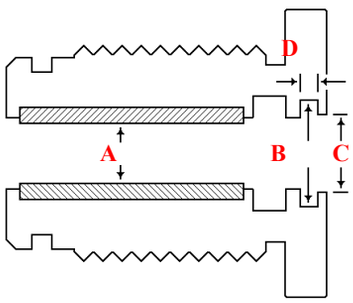




	A Rod / Spear	B +0.003 -0.003	C +0.005 -0.005	D +0.002 -0.002
FWI031D	0.312	0.562	0.48	0.126
FWI037D	0.375	0.625	0.54	0.126
FWI043D	0.437	0.688	0.605	0.126
FWI050D	0.5	0.75	0.665	0.126
FWI062D	0.625	0.875	0.79	0.126
FWI075/1D	0.75	1.026	0.875	0.156
FWI075D	0.75	1.125	1	0.189
FWI081D	0.812	1.187	1.065	0.189
FWI087D	0.875	1.25	1.125	0.189
FWI112D	1.125	1.5	1.375	0.189
FWI118D	1.187	1.562	1.44	0.189
FWI162D	1.625	2	1.875	0.189
FWI175/1D	1.75	2.085	1.875	0.218
FWI187D	1.875	2.25	2.125	0.189
FWI200/1D	2	2.398	2.332	0.23
FWI212D	2.125	2.625	2.457	0.251
FWI225/1D	2.25	2.648	2.582	0.23
FWI250/1D	2.5	2.898	2.832	0.23
FWI262D	2.625	3.125	2.957	0.251
FWI275/1D	2.75	3.187	3.082	0.187
FWI275D	2.75	3.25	3.082	0.251
FWI287D	2.875	3.375	3.207	0.251
FWI300/2D	3	3.5	3.332	0.187
FWI300/1D	3	3.398	3.332	0.23
FWI312D	3.125	3.625	3.457	0.251
FWI325D	3.25	3.75	3.582	0.251
FWI337D	3.375	3.875	3.707	0.251
FWI350/1D	3.5	4.062	3.832	0.187
FWI350D	3.5	4	3.832	0.251
FWI362/1D	3.625	4.187	3.957	0.187

D WIPER

URTHANE -- FLEXIBLE WIPER -- LIGHT / MEDIUM DUTY

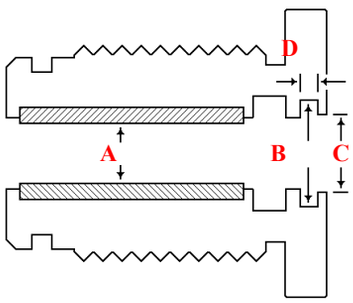




	A Rod / Spear	B +0.003 -0.003	C +0.005 -0.005	D +0.002 -0.002
FWI362D	3.625	4.125	3.957	0.251
FWI375D	3.75	4.25	4.082	0.251
FWI375/1D	3.75	4.158	4.082	0.187
FWI387D	3.875	4.375	4.207	0.251
FWI400D	4	4.5	4.332	0.251
FWI425D	4.25	4.75	4.582	0.251
FWI437/1D	4.375	4.908	4.707	0.187
FWI437D	4.375	4.875	4.707	0.251
FWI450D	4.5	5.25	4.998	0.376
FWI475D	4.75	5.5	5.248	0.376
FWI475/1D	4.75	5.135	5.248	0.187
FWI500/1D	5	5.5	5.498	0.295
FWI500D	5	5.75	5.498	0.376
FWI512D	5.125	5.875	5.623	0.376
FWI525/1D	5.25	5.844	5.748	0.187
FWI525D	5.25	6	5.748	0.375
FWI550D	5.5	6.25	5.998	0.376
FWI575/1D	5.75	6.158	5.906	0.187
FWI575D	5.75	6.5	6.248	0.376
FWI600D	6	6.75	6.498	0.376
FWI625D	6.25	7	6.748	0.376
FWI631D	6.312	6.906	6.669	0.187
FWI650D	6.5	7.25	6.998	0.376
FWI675D	6.75	7.5	7.248	0.376
FWI700D	7	7.75	7.498	0.376
FWI725D	7.25	8	7.748	0.376
FWI731D	7.312	7.906	7.669	0.187
FWI750D	7.5	8.25	7.998	0.376
FWI800D	8	8.75	8.498	0.376
FWI825D	8.25	9	8.748	0.376

D WIPER

URTHANE -- FLEXIBLE WIPER -- LIGHT / MEDIUM DUTY

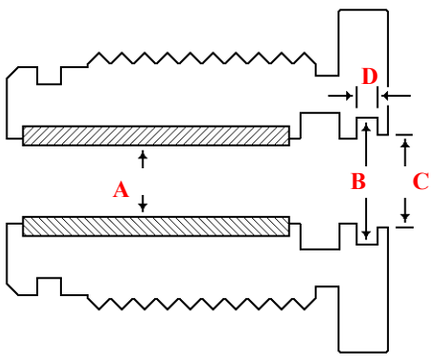




	A Rod / Spear	B +0.003 -0.003	C +0.005 -0.005	D +0.002 -0.002
FWI837D	8.375	8.969	8.744	0.187
FWI850D	8.5	9.25	8.998	0.376
FWI850/1D	8.5	9	8.998	0.25
FWI900D	9	9.75	9.498	0.376
FWI1000D	10	11	10.664	0.52
FWI1100D	11	12	11.664	0.52
FWI1300D	13	14	13.664	0.52

AN WIPER

URTHANE -- FLEXIBLE WIPER -- LIGHT / MEDIUM DUTY

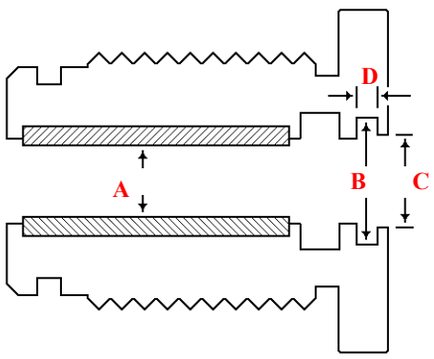




	A Rod / Spear	B +0.002 -0.002	C +0.003 -0.002	D +0.003 -0.003
FWI050AN	0.5	0.762	0.649	0.107
FWI056AN	0.562	0.825	0.712	0.107
FWI062AN	0.625	0.887	0.774	0.107
FWI068AN	0.687	0.95	0.836	0.107
FWI075AN	0.75	1.012	0.899	0.107
FWI081AN	0.812	1.086	0.962	0.107
FWI087AN	0.875	1.149	1.025	0.107
FWI093AN	0.937	1.211	1.087	0.107
FWI100AN	1	1.274	1.15	0.107
FWI106AN	1.062	1.336	1.212	0.107
FWI112AN	1.125	1.399	1.275	0.107
FWI118AN	1.187	1.461	1.337	0.107
FWI125AN	1.25	1.524	1.4	0.107
FWI131AN	1.312	1.616	1.482	0.107
FWI137ANV	1.375	1.679	1.544	0.107
FWI137AN	1.375	1.679	1.544	0.107
FWI143AN	1.437	1.741	1.607	0.107
FWI150AN	1.5	1.804	1.67	0.107
FWI162AN	1.625	1.929	1.795	0.107
FWI175AN	1.75	2.054	1.92	0.107
FWI187AN	1.875	2.179	2.045	0.107
FWI200AN	2	2.304	2.18	0.107
FWI212AN	2.125	2.429	2.305	0.107
FWI225AN	2.25	2.554	2.43	0.107
FWI237AN	2.375	2.679	2.555	0.107

AN WIPER

URTHANE -- FLEXIBLE WIPER -- LIGHT / MEDIUM DUTY

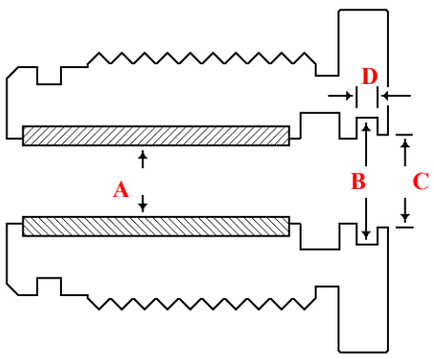




	A Rod / Spear	B +0.002 -0.002	C +0.003 -0.002	D +0.003 -0.003
FWI250AN	2.5	2.804	2.68	0.107
FWI262AN	2.625	2.991	2.836	0.122
FWI275AN	2.75	3.116	2.961	0.122
FWI287AN	2.875	3.241	3.086	0.122
FWI300AN	3	3.366	3.211	0.122
FWI312AN	3.125	3.491	3.336	0.122
FWI325AN	3.25	3.616	3.461	0.122
FWI337AN	3.375	3.741	3.586	0.122
FWI350AN	3.5	3.866	3.711	0.122
FWI362AN	3.625	3.991	3.836	0.122
FWI375AN	3.75	4.116	3.961	0.122
FWI387AN	3.875	4.241	4.086	0.122
FWI400AN	4	4.429	4.242	0.138
FWI412AN	4.125	4.554	4.367	0.138
FWI425AN	4.25	4.679	4.492	0.138
FWI437AN	4.375	4.804	4.617	0.138
FWI450AN	4.5	4.929	4.742	0.138
FWI462AN	4.625	5.054	4.867	0.138
FWI475AN	4.75	5.179	4.992	0.138
FWI487AN	4.875	5.304	5.117	0.138
FWI500AN	5	5.429	5.242	0.138
FWI512AN	5.125	5.554	5.367	0.138
FWI525AN	5.25	5.679	5.492	0.138
FWI537AN	5.375	5.804	5.617	0.138
FWI550AN	5.5	5.929	5.742	0.138

AN WIPER

URTHANE -- FLEXIBLE WIPER -- LIGHT / MEDIUM DUTY

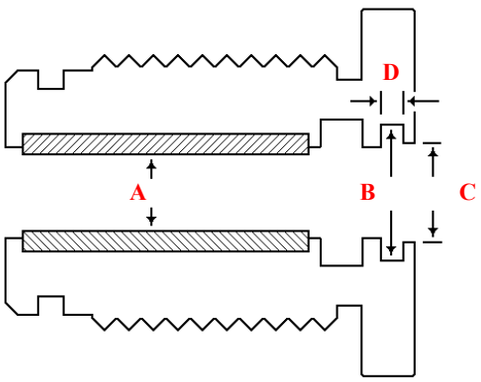




	A Rod / Spear	B +0.002 -0.002	C +0.003 -0.002	D +0.003 -0.003
FWI562AN	5.625	6.116	5.898	0.154
FWI575AN	5.75	6.241	6.024	0.154
FWI587AN	5.875	6.366	6.148	0.154
FWI600AN	6	6.491	6.274	0.154
FWI625AN	6.25	6.741	6.524	0.154
FWI650/1AN	6.5	7	6.772	0.156
FWI650AN	6.5	6.991	6.774	0.154
FWI675AN	6.75	7.241	7.024	0.154
FWI700AN	7	7.491	7.274	0.154
FWI800AN	8	8.491	8.274	0.154
FWI850AN	8.5	8.991	8.774	0.154
FWI900AN	9	9.491	9.274	0.154
FWI937AN	9.375	9.75	9.617	0.183
FWI1000AN	10	10.491	10.274	0.154
FWI1100AN	11	11.491	11.274	0.154

WYCLIP

IMPERIAL





NYLON - SNAP IN WIPER -- HEAVY DUTY

IMPERIAL -- INCH SIZES

Part #	Rod / Spear	B +0.005 -0.000	C +0.005 -0.000	D +0.010 -0.000
WY037	0.375	0.75	0.687	0.172
WY050	0.5	0.875	0.812	0.172
WY062	0.625	1	0.937	0.172
WY075	0.75	1.25	1.187	0.234
WY087	0.875	1.375	1.312	0.234
WY100	1	1.5	1.437	0.234
WY112	1.125	1.625	1.562	0.234
WY125	1.25	1.75	1.687	0.234
WY137	1.375	1.875	1.812	0.234
WY150	1.5	2	1.937	0.234
WY162	1.625	2.125	2.062	0.234
WY175	1.75	2.25	2.187	0.234
WY200	2	2.5	2.437	0.234
WY212	2.125	2.625	2.562	0.234
WY225	2.25	2.75	2.687	0.234
WY250	2.5	3	2.937	0.234
WY275	2.75	3.25	3.187	0.234
WY300	3	3.5	3.437	0.234
WY325	3.25	3.75	3.687	0.234
WY337	3.375	3.875	3.812	0.234
WY350	3.5	4	3.937	0.234
WY375	3.75	4.25	4.187	0.234
WY400	4	4.5	4.437	0.234
WY450	4.5	5	4.937	0.234
WY500	5	5.5	5.437	0.234
WY550	5.5	6	6.062	0.234
WY600	6	6.625	6.562	0.234
WY700	7	7.625	7.562	0.234
WY750	7.5	8.125	8.062	0.234

S WIPER

ACETAL SNAP ON WIPER ---- INCH SIZES

SOLD AS REPLACMENT PART ONLY



PART #	SPEAR	OD	STEP HEIGHT	TOTAL HEIGHT
FWI075SO#	0.75	1.28	0.165	0.51
FWI100SO	1	1.53	0.165	0.51
FWI125SO	1.25	1.78	0.165	0.51
FWI150SO	1.5	2.03	0.165	0.51
FWI175SO	1.75	2.28	0.165	0.51
FWI200SO	2	2.53	0.165	0.51
FWI225SO#	2.25	2.78	0.165	0.51
FWI250SO	2.5	3.03	0.165	0.51
FWI275SO#	2.75	3.28	0.165	0.51
FWI300SO	3	3.53	0.165	0.51
FWI400SO#	4	4.53	0.165	0.51
FWI500SO#	5	5.53	0.165	0.51

METAL SCRAPER



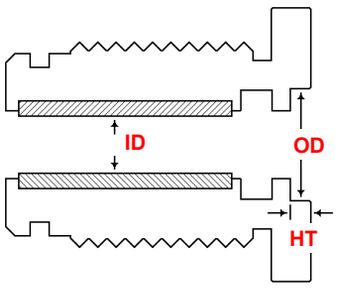


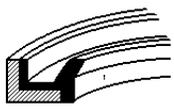
COPPER BASED ALLOY WILL
NOT SCRATCH ROD

TEMPERATURE
-40 c to 250 c

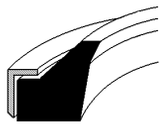
PART#	ID	OD	HT	TOTAL LENGTH
A4	0.687	0.954	0.094	0.187
A9	1	1.278	0.094	0.187
A13	1.25	1.528	0.094	0.187
A17	1.5	1.810	0.094	0.187
A19	1.75	2.060	0.094	0.187
A21	2	2.310	0.094	0.187
A25	2.5	2.810	0.094	0.187
A27	2.75	3.124	0.109	0.211
A29	3	3.374	0.109	0.211
A33	3.5	3.874	0.109	0.211
A37	4	4.439	0.125	0.238
AM250	250	262	4	5

METAL CASED WIPER

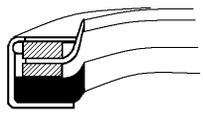




STYLE A / DWI



STYLE B



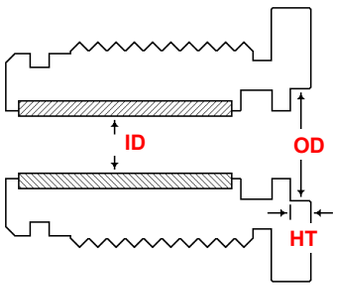
DOUBLE LIP
BRASS / NITRILE

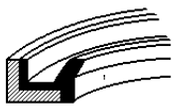
PRESS FIT METAL CASED | **HEAVY DUTY SCRAPER** | **OD + 0.0001 -0.0** | **HT + / - 0.010**

PART #	ID	OD	HT	STYLE
MC025043125DWIN	0.25	0.437	0.125	DWI
MC031056125DWIN	0.312	0.562	0.125	DWI
MC037056094DWIN	0.375	0.562	0.094	DWI
MC037062125DWIN	0.375	0.625	0.125	DWI
MC037068156DWIN	0.375	0.687	0.157	DWI
MC046083187DWIN	0.469	0.836	0.187	DWI
MC050075125DWIN	0.5	0.75	0.125	DWI
MC050075187DWIN	0.5	0.75	0.187	DWI
MC050081185	0.5	0.812	0.185	B
MC050100250DWI	0.5	1	0.25	DWI
MC100150312DWI	0.5	1	0.312	DWI
MC056081125DWIN	0.562	0.812	0.125	DWI
MC056106187	0.562	1.062	0.187	A
MC062081125DWIN	0.625	0.812	0.125	DWI
MC062087125DWIN	0.625	0.875	0.125	DWI
MC062093187DWIN	0.625	0.937	0.187	DWI
MC062106250DWIN	0.625	1.062	0.25	DWI
MC062112281BMC	0.625	1.125	0.281	BRASS
MC062112312DWI	0.625	1.125	0.312	DWI
MC062125250DWIN	0.625	1.25	0.25	DWI
MC068093125DWIN	0.687	0.937	0.125	DWI
MC068100187DWIN	0.687	1	0.187	DWI
MC075100125DWI	0.75	1	0.125	DWI
MC075100187	0.75	1	0.187	B
MC075112187B	0.75	1.125	0.187	
MC075112187	0.75	1.125	0.187	DWI
MC075125312DWI	0.75	1.25	0.187	DWI
MC075125250DWI	0.75	1.25	0.25	DWI
MC087112156DWI	0.875	1.125	0.156	DWI
MC087125187DWIN	0.875	1.25	0.187	DWI
MC087137312DWI	0.875	1.375	0.312	DWI
MC093118125DWIN	0.937	1.187	0.125	DWI
MC100125312DWI	1	1.25	0.312	DWI
MC100131187B	1	1.312	0.187	B

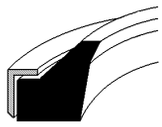
PART #	ID	OD	HT	STYLE
MC100137187DWI	1	1.375	0.187	DWI
MC100137187B	1	1.375	0.187	B
MC100143250DWIN	1	1.437	0.25	DWI
MC100150187DWIN	1	1.5	0.187	DWI
MC100150281BMC	1	1.5	0.25	BRASS
MC100150312A	1	1.5	0.312	
MC100150312BA	1	1.5	0.312	
MC106150187DWIN	1.062	1.5	0.187	DWI
MC112137125DWIN	1.125	1.375	0.125	DWI
MC112150187DWI	1.125	1.5	0.187	DWI
MC112156250DWIN	1.125	1.562	0.25	DWI
MC112162187DWIN	1.125	1.625	0.187	DWI
MC112162250DWIN	1.125	1.625	0.25	DWI
MC112162312DWI	1.125	1.625	0.312	DWI
MC118156187DWIN	1.187	1.562	0.187	DWI
MC125150125DWIN	1.25	1.5	0.125	DWI
MC125150187	1.25	1.5	0.187	A
MC125162125DWI	1.25	1.625	0.125	DWI
MC125162125DWIN	1.25	1.625	0.125	DWI
MC125162187B	1.25	1.625	0.187	B
MC125162187DWI	1.25	1.625	0.187	DWI
MC125168187DWIN	1.25	1.687	0.187	DWI
MC125175250DWI	1.25	1.75	0.25	DWI
MC125175312DWI	1.25	1.75	0.312	DWI
MC125187250DWIN	1.25	1.875	0.25	DWI
MC125206375DWI	1.25	2.062	0.375	DWI
MC131156125DWIN	1.312	1.562	0.125	DWI
MC137162125DWIN	1.375	1.625	0.125	DWI
MC137175187DWIN	1.375	1.75	0.187	DWI
MC137187281BMC	1.375	1.875	0.281	BRASS
MC137187312DWIN	1.375	1.875	0.312	DWI
MC137187312DWI	1.375	1.875	0.312	DWI
MC137200312DWIN	1.375	2	0.312	DWI
MC150175375DWIN	1.5	1.75	0.375	DWI
MC150181125	1.5	1.812	0.125	B
MC150187187B	1.5	1.875	0.187	B
MC150187187DWI	1.5	1.875	0.187	DWI
MC150187250DWI	1.5	1.875	0.25	DWI
MC150200250DWI	1.5	2	0.25	DWI
MC150200281BMC	1.5	2	0.281	BRASS

METAL CASED WIPER

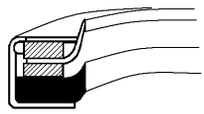




STYLE A / DWI



STYLE B



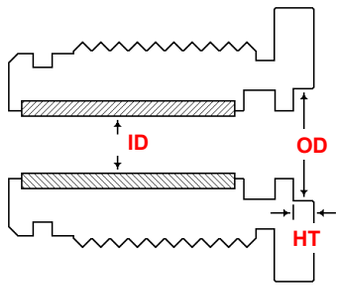
DOUBLE LIP
BRASS / NITRILE

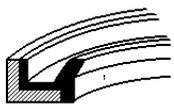
PRESS FIT METAL CASED | **HEAVY DUTY SCRAPER** | **OD + 0.0001 -0.0** | **HT + / - 0.010**

PART #	ID	OD	HT	STYLE
MC150200312DWI	1.5	2	0.312	DWI
MC150200312DWIV	1.5	2	0.312	DWI
MC150200375DWI	1.5	2	0.375	DWI
MC150212250DWI	1.5	2.125	0.25	DWI
MC150212312DWI	1.5	2.125	0.312	DWI
MC150225312DWI	1.5	2.25	0.312	DWI
MC150225375DWI	1.5	2.25	0.375	DWI
MC156206203DWIN	1.562	2.062	0.203	DWI
MC162200187DWIN	1.625	2	0.187	DWI
MC162212250DWI	1.625	2.125	0.25	DWI
MC162212312DWI	1.625	2.125	0.312	DWI
MC175212125DWI	1.75	2.125	0.125	DWI
MC175212187B	1.75	2.125	0.187	B
MC175212187DWIN	1.75	2.125	0.187	DWI
MC175212187	1.75	2.125	0.187	
MC175225187DWI	1.75	2.25	0.187	DWI
MC175225250DWI	1.75	2.25	0.25	DWI
MC175225281BMC	1.75	2.25	0.281	BRASS
MC175225312DWI	1.75	2.25	0.312	DWI
MC175237250DWIN	1.75	2.375	0.25	DWI
MC175243375DWI	1.75	2.437	0.375	DWI
MC175250375DWI	1.75	2.5	0.375	DWI
MC175262250DWIN	1.75	2.625	0.25	DWI
MC175275375DWI	1.75	2.75	0.375	DWI
MC187225187DWIN	1.875	2.25	0.187	DWI
MC187237281BMC	1.875	2.375	0.281	BRASS
MC187237312DWI	1.875	2.375	0.312	DWI
MC187250250DWIN	1.875	2.5	0.25	DWI
MC187250375DWI	1.875	2.5	0.375	DWI
MC187256375DWI	1.875	2.562	0.375	DWI
MC200237187NB	2	2.375	0.187	B
MC200237187B	2	2.375	0.187	B
MC200237187DWI	2	2.375	0.187	DWI
MC200237250DWI	2	2.375	0.25	DWI
MC200250250DWI	2	2.5	0.25	DWI
MC200250312DWI	2	2.5	0.312	DWI
MC200262250DWI	2	2.625	0.25	DWI
MC200268250DWI/N	2	2.687	0.25	DWI
MC200268375DWI	2	2.687	0.375	DWI
MC200268433	2	2.687	0.433	
MC225275187DWI	2	2.75	0.187	DWI
MC200275250DWI	2	2.75	0.25	DWI

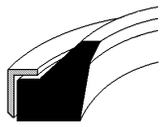
PART #	ID	OD	HT	STYLE
MC200275375DWI	2	2.75	0.375	DWI
MC212250125DWI	2.125	2.5	0.125	DWI
MC212250187DWIN	2.125	2.5	0.187	DWI
MC212262312DWI	2.125	2.625	0.312	DWI
MC212275312DWI	2.125	2.75	0.312	DWI
MC212287375DWI	2.125	2.875	0.375	DWI
MC212287437DWI	2.125	2.875	0.437	DWI
MC212250187DWI	2.125	3.5	0.187	DWI
MC225262187B	2.25	2.625	0.187	MC
MC225262187DWIN	2.25	2.625	0.187	DWI
MC225262281	2.25	2.625	0.281	A
MC225275250DWI	2.25	2.75	0.25	DWI
MC225275312B	2.25	2.75	0.312	B
MC225275312DWI	2.25	2.75	0.312	DWI
MC225287250DWI	2.25	2.875	0.25	DWI
MC225300250DWI	2.25	3	0.25	DWI
MC225300312DWI	2.25	3	0.312	DWI
MC225300375DWI	2.25	3	0.375	DWI
MC225300433	2.25	3	0.433	
MC225325500DWI	2.25	3.25	0.5	DWI
MC237262157DWI	2.375	2.625	0.157	
MC237287250DWI	2.375	2.875	0.25	DWI
MC237287312DWI	2.375	2.875	0.312	DWI
MC237312375DWI	2.375	3.125	0.375	DWI
MC250287187DWI	2.5	2.875	0.187	DWI
MC250287281	2.5	2.875	0.281	A
MC250300187DWI	2.5	3	0.187	DWI
MC250300250DWI	2.5	3	0.25	
MC250300281BMC	2.5	3	0.281	BRASS
MC250300312B	2.5	3	0.312	B
MC250300312DWI	2.5	3	0.312	DWI
MC250312250DWI	2.5	3.125	0.25	DWI
MC250312250DWIN	2.5	3.125	0.25	DWI
MC250318375DWI	2.5	3.187	0.375	DWI
MC250325312DWI	2.5	3.25	0.32	DWI
MC250325375DWI	2.5	3.25	0.375	DWI
MC250325433	2.5	3.25	0.433	
MC250350250DWI	2.5	3.5	0.25	DWI
MC250356312DWI	2.5	3.573	0.315	DWI
MC262312250DWI	2.625	3.125	0.25	DWI
MC262325375DWI	2.625	3.25	0.375	DWI

METAL CASED WIPER

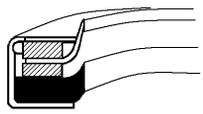




STYLE A / DWI



STYLE B



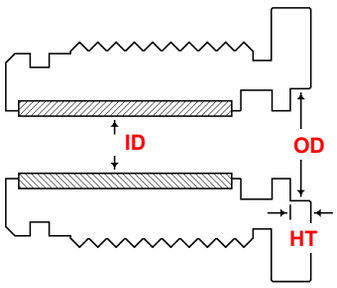
DOUBLE LIP
BRASS / NITRILE

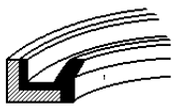
PRESS FIT METAL CASED | **HEAVY DUTY SCRAPER** | **OD + 0.0001 -0.0** | **HT + / - 0.010**

PART #	ID	OD	HT	STYLE
MC275312187DWI	2.75	3.125	0.187	DWI
MC275325281BMC	2.75	3.25	0.281	BRASS
MC275325312DWI	2.75	3.25	0.312	DWI
MC275325375DWI	2.75	3.25	0.375	DWI
MC275350375DWI	2.75	3.5	0.375	DWI
MC275375500DWI	2.75	3.75	0.5	DWI
MC287337250DWIN	2.875	3.375	0.25	DWI
MC287350250DWI	2.875	3.5	0.25	DWI
MC300337187B	3	3.375	0.187	B
MC300337187DWI	3	3.375	0.187	DWI
MC300350281BMC	3	3.5	0.281	BRASS
MC300350312B	3	3.5	0.312	B
MC300350312DWI	3	3.5	0.312	DWI
MC300375250DWI	3	3.75	0.25	DWI
MC300375312DWI	3	3.75	0.312	DWI
MC300375375DWI	3	3.75	0.375	DWI
MC300375500DWI	3	3.75	0.5	DWI
MC300400500DWI	3	4	0.5	DWI
MC300400550	3	4	0.55	
MC312362187DWI	3.125	3.625	0.187	DWI
MC312362250DWI	3.125	3.625	0.25	DWI
MC312375312DWI	3.125	3.75	0.312	DWI
MC312375375DWI	3.125	3.75	0.375	DWI
MC325375250DWI	3.25	3.75	0.25	DWI
MC325375312DWI	3.25	3.75	0.312	DWI
MC325375375DWI	3.25	3.75	0.375	DWI
MC325387312DWI	3.25	3.875	0.312	DWI
MC325400250DWI	3.25	4	0.25	DWI
MC325425500DWIV	3.25	4.25	0.5	DWI
MC325425500DWI	3.25	4.25	0.5	DWI
MC325425550	3.25	4.25	0.55	
MC337375375DWI	3.375	3.75	0.375	DWI
MC337437375DWI	3.375	4.375	0.375	DWI
MC350375312DWI	3.5	3.75	0.312	DWI
MC350387187DWIN	3.5	3.875	0.187	DWI
MC350400312DWI	3.5	4	0.312	DWI
MC350400500DWI	3.5	4	0.5	DWI
MC350412250DWI	3.5	4.125	0.25	DWI
MC350412312DWI	3.5	4.125	0.312	DWI
MC350412328BMC	3.5	4.125	0.328	BRASS
MC350425250DWI	3.5	4.25	0.25	DWI

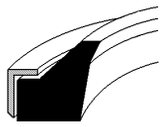
PART #	ID	OD	HT	STYLE
MC350425312DWI	3.5	4.25	0.312	DWI
MC350450500DWI	3.5	4.5	0.5	DWI
MC350450550	3.5	4.5	0.55	
MC362450500DWI	3.625	4.5	0.5	DWI
MC375425312DWI	3.75	4.25	0.312	DWI
MC375437312DWI	3.75	4.375	0.312	DWI
MC375450312DWI	3.75	4.5	0.312	DWI
MC375475500DWI	3.75	4.75	0.5	DWI
MC375475500DWIV	3.75	4.75	0.5	DWI
MC400450250DWI	4	4.5	0.25	DWI
MC400462312DWI	4	4.625	0.312	DWI
MC400462328BMC	4	4.625	0.328	BRASS
MC400475312DWI	4	4.75	0.312	DWI
MC400500375DWIV	4	5	0.375	DWI
MC400500500DWI	4	5	0.5	DWI
MC400500550	4	5	0.55	
MC412475312DWI	4.125	4.75	0.312	DWI
MC425475312DWI	4.25	4.75	0.312	
MC425487312DWI	4.25	4.875	0.312	DWI
MC425500500DWI	4.25	5	0.5	DWI
MC425525500DWI	4.25	5.25	0.5	DWI
MC425525550	4.25	5.25	0.55	
MC437500312DWI	4.375	5	0.312	DWI
MC437537375DWI	4.375	5.375	0.375	DWI
MC450500250DWI	4.5	5	0.25	DWI
MC450512312DWI	4.5	5.125	0.312	DWI
MC450525312DWI	4.5	5.25	0.312	DWI
MC450550500DWI	4.5	5.5	0.5	DWI
MC450550550	4.5	5.5	0.5	
MC475537312DWI	4.75	5.375	0.312	DWI
MC475575375DWI	4.75	5.75	0.375	DWI
MC475575500DWI	4.75	5.75	0.5	DWI
MC487550250DWI	4.875	5.5	0.25	DWI
MC500562312DWI	5	5.625	0.312	DWI
MC500575312DWI	5	5.75	0.312	DWI
MC500600500DWI	5	6	0.5	DWI

METAL CASED WIPER

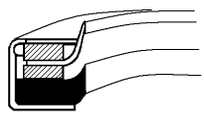




STYLE A / DWI



STYLE B

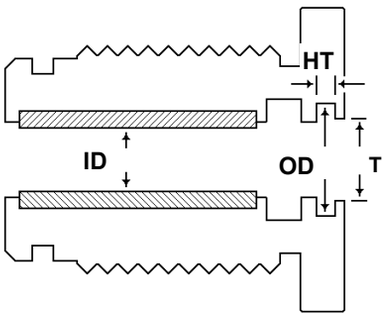


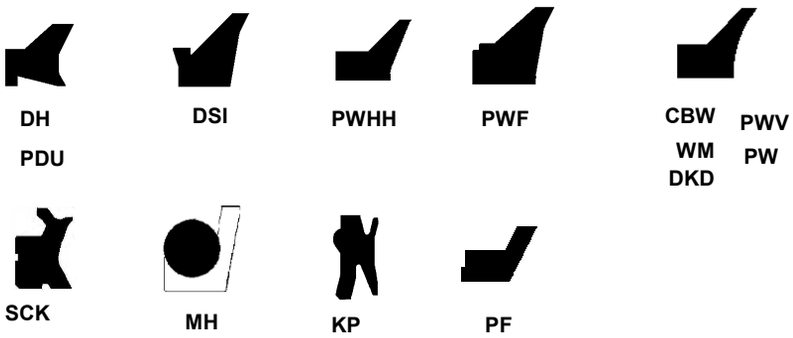
DOUBLE LIP
BRASS / NITRILE

PRESS FIT METAL CASED | **HEAVY DUTY SCRAPER** | **OD + 0.0001 -0.0** | **HT + / - 0.010**

PART #	ID	OD	HT	STYLE
MC500600550	5	6	0.55	
MC500650250DWI	5	6.5	0.25	
MC525575312DWI	5.25	5.75	0.312	DWI
MC525600312DWI	5.25	6	0.312	DWI
MC550612375DWI	5.5	6.125	0.375	DWI
MC550625312DWI	5.5	6.25	0.312	DWI
MC550650550	5.5	6.5	0.55	
MC550737437DWI	5.5	7.375	0.42	DWI
MC575637375DWI	5.75	6.375	0.375	DWI
MC575675500DWI	5.75	6.75	0.5	DWI
MC600662375DWI	6	6.25	0.375	DWI
MC600675375DWI	6	6.75	0.375	DWI
MC600700500	6	7	0.5	B
MC600700550	6	7	0.55	
MC625675312DWI	6.25	6.75	0.312	DWI
MC650725312DWI	6.5	7.25	0.312	
MC650750625DWI	6.5	7.5	0.625	DWI
MC675725312DWI	6.75	7.25	0.312	DWI
MC700775312DWI	7	7.75	0.312	DWI
MC700800500DWIN	7	8	0.5	DWI
MC700800550	7	8	0.55	
MC800875312DWI	8	8.75	0.312	
MC900975562DWI	9	9.75	0.562	DWI

METRIC FLEXIBLE ROD WIPER



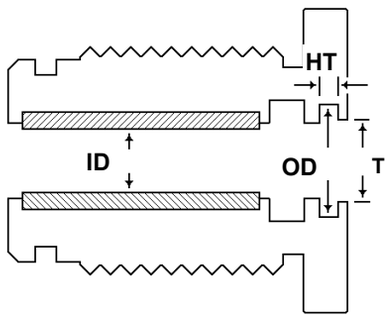


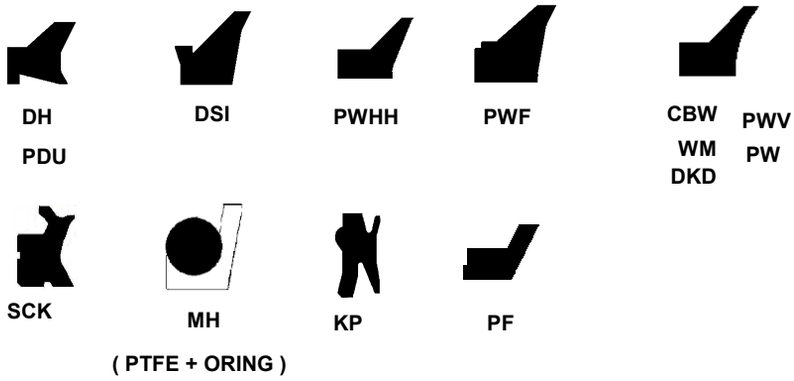
(PTFE + ORING)

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM003PDU	3	8.8	4.5	4	5.2
FWM004/2PDU	4	7	2.7	2.2	2.8
FWM004/1PWF	4	8.1	3	2.7	4
FWM004PDU	4	8.2	3	2.6	4
FWM004/1PDU	4	8.8	4.5	4	5.2
FWM004DH	4	9	3.5	3.2	4.2
FWM004PW	4	12	3	2.8	4.6
FWM004PWF	4	12	4	3.9	7
FWM005PDU	5	8	2.7	2.2	2.8
FWM005PWHH	5	10	1.3	1.2	3.2
FWM005DH	5	10	3.5	3.2	4.2
FWM005/SPW	5	12	2.8	2.5	4
FWM006/1PDU	6	9	2.7	2.2	2.8
FWM006/1PDUV	6	9	2.7	2.2	2.8
FWM006/3PDU	6	9.2	3		
FWM006PWF	6	10	2.2	2	4
FWM006MH	6	10.8	3.7	3.2	3.2
FWM006/2PDU	6	10.8	4.5	4	5.2
FWM006DH	6	11	3.5	3.2	4.2
FWM006/1PWF	6	11.1	3.6	3.2	5
FWM006PDU	6	11.2	4	3.6	5
FWM006/SPW	6	12	3	2.8	4.2
FWM006.35MH	6.35	11.2	3.7	3.2	3.2
FWM008/1PDUV	8	11.5	3	2.6	3.2
FWM008/1PDU	8	11.5	3	2.6	3.2
FWM008/2PW	8	12	2	1.8	3
FWM008/4PDU	8	12	4	3.5	4.9
FWM008MH	8	12.8	3.7	3.2	3.2
FWM008/2PDU	8	12.8	4.5	4	5.2
FWM008/1DH	8	13	3.5	3.2	4.2
FWM008/2PWF	8	14	2.6	2.3	5
FWM008/1PW	8	14	3	2.8	5
FWM008PDU	8	14	4.5	4	5.2
FWM008/1PWF	8	14.1	3.6	3.3	5
FWM008/3PDU	8	14.2	4	3.6	5
FWM008PW	8	14.6	3.8	3.5	4.5
FWM008PWF	8	16	4.2	4	7
FWM008/2DH	8	16	5.2	4.8	6
FWM008PF	8	17.6	3	1.6	4.5

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM009/SPW	9	13	2.5	2.5	5.5
FWM010PDU	10	13.6	4	3.6	4.5
FWM010/1PW	10	14	2.3	2.1	3
FWM010/1PDU	10	14	3.2	3.2	3.7
FWM010MH	10	14.8	3.7	3.2	3.2
FWM010/SPW	10	15	1	0.9	2.6
FWM010/1DH	10	15	5	5	6
FWM010/3PWF	10	16	2.5	2.3	5
FWM010/3PW	10	16	3.9	3.5	5
FWM010/2DH	10	16	4	3.6	4.8
FWM010/2PWF	10	16.1	4.2	3.6	6
FWM010/4PWF	10	16.2	4.2	3.9	6
FWM010/4PDU	10	16.2	4.5	4	5.5
FWM010PW	10	16.6	3.8	3.7	5
FWM010/2PDU	10	16.8	4.5	4	5.2
FWM010PWF	10	18	4	3.8	7
FWM010/1PWF	10	18	4	3.8	8
FWM010/3PDU	10	18	5	4.5	6
FWM010/2PW	10	18	5.3	5	8
FWM010PF	10	19.6	3	1.6	4.5
FWM011.2DH	11.2	19.2	5	4.5	6
FWM012/5PDU	12	15.6	3.3	2.8	3.5
FWM012PDU	12	15.6	4	3.6	4.5
FWM012/6PDU	12	16	4	3.6	4.9
FWM012PW	12	16.2	3.3	3	4.5
FWM012/1PDU	12	16.5	4	3.4	4
FWM012VPDU	12	17	3.8	3.2	4
FWM012/1PWF	12	18	2.6	2.5	5
FWM012/2PDU	12	18	4	3.6	4.8
FWM012/2DH	12	18	4	3.7	4.8
FWM012/3PWF	12	18.1	4.2	3.8	6
FWM012/1DH	12	18.6	3.8	3.5	5
FWM012/1PW	12	18.6	3.8	3.5	5
FWM012MH	12	18.8	5	4.5	4.5
FWM012/2PWF	12	20	4	3.7	8
FWM012PWF	12	20	4	3.8	7
FWM012/3PDU	12	20	5	4.3	6
FWM012PF	12	21.6	3	1.6	4.5
MWY012	12	22	4.5	4.5	6.5
FWM012/4PDU	12	22	6	5	6.5
FWM013DH	13	19	5.3	5	6.5
FWM013PW	13	19.6	3.8	3.5	5

METRIC FLEXIBLE ROD WIPER



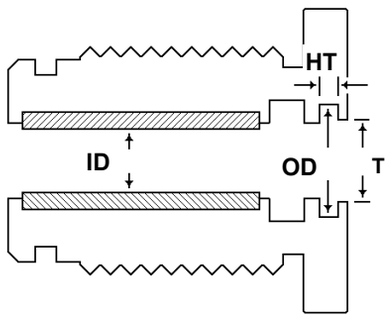


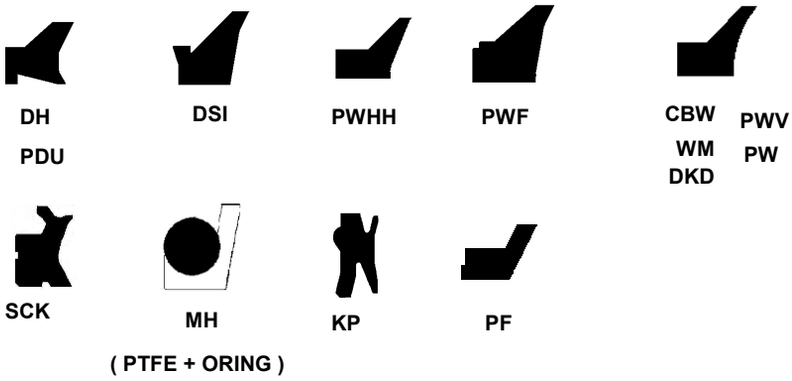
(PTFE + ORING)

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM013/1DH	13	20	6	5	6.5
FWM014/2PDU	14	18	4	3.5	4.9
FWM014PDU	14	18.5	3.7	3.3	4
FWM014/1PW	14	18.6	2.3	2.1	3.3
FWM014DSI	14	19	2.5	2	3.2
FWM014/2PWF	14	20	2.5	2.4	5
FWM014/3PWF	14	20	3	2.9	5
FWM014/3DH	14	20	4	3.7	4.8
FWM014/1DH	14	20.6	3.8	3.5	5
FWM014/2PW	14	20.6	3.8	3.6	5
FWM014MH	14	20.8	5	4.5	4.5
FWM014PW	14	21	3.8	3.6	6
FWM014/1PWF	14	22	4	3.8	8
FWM014PWF	14	22	4.2	4.1	7
FWM014/2DH	14	22	5	4.6	6
FWM014PF	14	23.6	3	1.6	4.5
MWY014	14	24	4.5	4.5	6.5
FWM014/1PDU	14	24	6	5	6.5
FWM014/1PDUV	14	24	6	5	6.5
FWM015PW	15	21	3.8	3.5	5
FWM015/1PDU	15	21	5.5	4.5	5.3
FWM015/1PW	15	21.8	3.8	3.5	5
FWM015MH	15	21.8	5	4.5	4.5
FWM015/1PWF	15	23	4	3.8	8
FWM015PWF	15	23	4	3.9	7
FWM015PDU	15	23.6	7.2	6.9	9
MWY015	15	25	4.5	4.5	6.5
FWM015/SPW	15	27	5.5	5.3	7
FWM015/2PW	15	27.3	5.3	5	7
FWM016/2PW	16	20	3.3	3	5
FWM016/1PDU	16	20.5	4	3.4	4
FWM016/2PDU	16	22	4	3.6	5
FWM016/1DH	16	22	4	3.7	4.8
FWM016/1PW	16	22.5	3	2.7	5
FWM016PW	16	22.6	3.8	3.7	5.5
FWM016/3PW	16	22.8	3.1	2.9	4
FWM016MH	16	22.8	5	4.5	4.5
FWM016/3PWF	16	23	3.2	3	6.2
FWM016/1PWF	16	24	4	3.8	8
FWM016PWFV	16	24	4	3.9	7
FWM016PWF	16	24	4	3.9	7
FWM016DH	16	24	5	4.5	6
FWM016PDU	16	24	6	5.6	7.5

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
MWY016	16	26	4.5	4.5	6.5
FWM016/3PDU	16	26	6	5.1	6.5
FWM016PF	16	26.6	3	1.6	4.5
FWM017PW	17	23	3.8	5	5
FWM017PWF	17	25	4	3.8	7
FWM018/4PW	18	24	3.7	3.4	5.5
FWM018/1DH	18	24.6	3.8	3.5	4.8
FWM018MH	18	24.8	5	4.5	4.5
FWM018/2PW	18	25	4	3.8	5.2
FWM018PWHH	18	26	1.5	1.4	3.2
FWM018/1PWF	18	26	4	3.7	8
FWM018PWF	18	26	4	3.9	7
FWM018DH	18	26	5	4.5	6
FWM018PW	18	26.6	5.3	5	7
MWY018	18	28	4.5	4.5	6.5
FWM018/1PDU	18	28	6	5	6.5
FWM018/3PW	18	28.5	6.3	5.8	8.4
FWM018SCK	18	30	5.8	6	7.7
FWM018/1PW	18	30.3	5.4	5.1	7
FWM019/1PW	19	26	2.8	2.5	4
FWM019PW	19	28.6	5.3	5	7
FWM020/1PDU	20	25	4	3.6	4.6
FWM020/2PW	20	25	4.3	3.9	6
FWM020/2PWF	20	26	2.6	2.3	5
FWM020/1PW	20	26	3.4	3.2	5.6
FWM020/2PDU	20	26	4	3.6	4.8
FWM020/2DH	20	26	4	3.7	4.8
FWM020MH	20	26.8	4	4.5	4.5
FWM020/5DH	20	27	4.5	4	5
FWM020/1PWF	20	28	4	3.8	8
FWM020PWF	20	28	4	3.9	7
FWM020/4DH	20	28	4.5	4	7
FWM020DH	20	28	5	4.5	6
FWM020SDR	20	28	5	4.5	6
FWM020PDU	20	28	6	5.6	7.3
FWM020PDUVFD	20	28	6	5.6	7.3
FWM020/1DH	20	28.6	5.3	5	6.5
FWM020PW	20	28.6	5.3	5	7
FWM020/3PW	20	30	5.3	5	7
FWM020/SPW	20	30	5.4	4.9	9
FWM020/3PDU	20	30	7	6	7.5
FWM020PF	20	32	3	1.6	4.5

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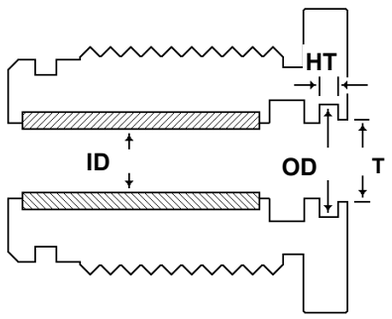


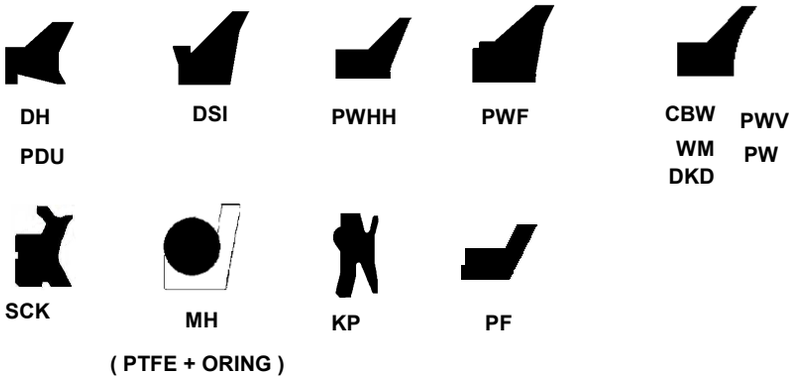
(PTFE + ORING)

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM020SCK	20	32	6	5.8	7.7
MWY020	20	33	6	5.3	8.5
FWM022/1MH	22	26.5	3.9		
FWM022PDU	22	27	4	3.6	4.6
FWM022/1PDU	22	28	4	3.6	5
FWM022/3DH	22	28	4.2	3.6	4.7
FWM022MH	22	28.8	4	4.5	4.5
FWM022JPW	22	29.5	3.3		
FWM022PWF	22	30	4	3.9	7
FWM022/1PWF	22	30	4	3.9	8
FWM022DH	22	30	5	4.5	6
FWM022/1BPW	22	30.2	2.3	2.1	3.5
FWM022PW	22	30.6	5.3	5	7
FWM022/1DH	22	30.6	5.3	5	6.5
FWM022/2DH	22	31	4.2	3.7	7.6
FWM022/2PDU	22	32	7	6	7.5
MWY022	22	35	6	5.3	8.5
FWM022.4DH	22.4	30.4	5	4.5	6
FWM022.4DHN	22.4	30.4	5	4.5	6
FWM023PWF	23	31	4	3.8	7
FWM023.5DH	23.5	31.5	5	4.5	6
FWM024/1PW	24	32	2.3	2.1	3.5
FWM024/1PWF	24	32	4	3.7	8
FWM024PWF	24	32	4	3.9	7
FWM024DH	24	32.6	5.3	5	7
FWM024PW	24	32.6	5.3	5	7
FWM025/1PDU	25	30	4	3.6	4.6
FWM025/5PW	25	30	4.3	3.9	6
FWM025/4PW	25	30	4.8	4.5	6.5
FWM025/2PDU	25	31	4	3.5	4.8
FWM025/1DH	25	31	4	3.6	4.8
FWM025MH	25	31.8	5	4.5	4.5
FWM025PWHH	25	32.5	1.6	1.5	4.5
FWM025/1PWFV	25	33	4	3.8	8
FWM025/1PWF	25	33	4	3.8	8
FWM025PWFV	25	33	4	3.9	7
FWM025PWF	25	33	4	3.9	7
FWM025/3DH	25	33	4.5	4	7
FWM025SDR	25	33	5	4.5	6
FWM025DH	25	33	5	4.5	6

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM025PWPH	25	33	5	4.6	7
FWM025/2DHV	25	33	5.3	5	7
FWM025PDU	25	33	6	5.5	7.5
FWM025PWP	25	33.6	5.3	4.6	7
FWM025PW	25	33.6	5.3	5	7
FWM025/2DH	25	33.6	5.3	5	7
FWM025/2PW	25	33.6	6.8	6.3	9.1
FWM025/4PWF	25	34	5	4.9	8.5
FWM025/3PWF	25	34.3	5	4.4	7
FWM025/5PWF	25	35	4	3.8	7
FWM025/1PW	25	35	5.3	5	9
FWM025/3PDU	25	35	7	6	7.5
FWM025SCK	25	37	6	5.8	7.7
MWY025	25	38	6	5.3	8.5
FWM025PF	25	39	3	1.6	4.5
FWM026DH	26	32	3	2.5	4.2
FWM026/1PWF	26	34	4	3.7	8
FWM026PWF	26	34	4	3.8	7
FWM026/1DH	26	34	5	4.5	5.8
FWM026PW	26	34.6	5.3	5	8
FWM027PW	27	35	5.3	5	7
FWM028/2PW	28	32	2.7	2.4	4.2
FWM028MH	28	34.8	5	4.5	4.5
FWM028/1PWF	28	36	4	3.8	8
FWM028PWF	28	36	4	3.9	7
FWM028DH	28	36	5	4.5	6
FWM028PWP	28	36	5	4.6	8
FWM028PW	28	36	5.3	5	7
FWM028/1DH	28	36.6	5.3	4.8	6.5
FWM028PDU	28	38	7	6	5.5
FWM028/1PW	28	38.6	5.3	5	7
FWM028SCK	28	40	6	5.8	7.7
MWY028	28	41	6	5.3	8.5
FWM030/1PDU	30	35.5	4.5	4.2	4.8
FWM030/2PWF	30	36	2.6	2.3	5
FWM030MH	30	36.8	5	4.5	4.5
FWM030PWHH	30	37.5	1.6	1.6	4.5
FWM030/1PWF	30	38	4	3.8	8
FWM030PWFFD	30	38	4	3.9	7
FWM030PWF	30	38	4	3.9	7
FWM030DH	30	38	6	5	6.5
FWM030DSI	30	38	6	5	6.5

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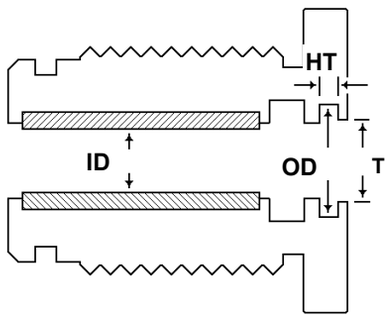


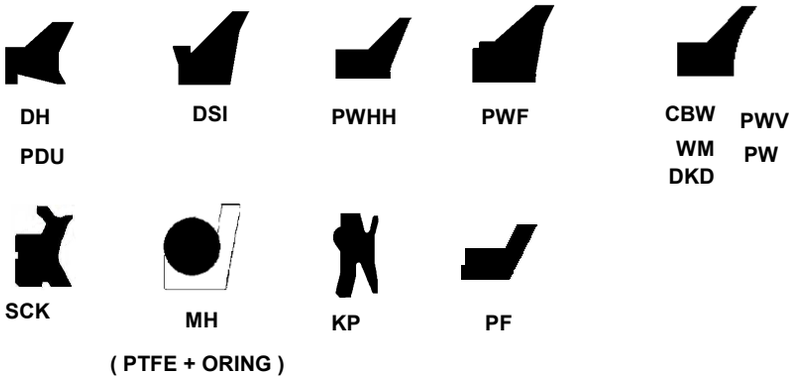
(PTFE + ORING)

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM030/1DH	30	38.6	5.3	5	6.5
FWM030/2PWV	30	38.6	5.3	5	7
FWM030/2PW	30	38.6	5.3	5	7
FWM030/1BPW	30	40	3	2.8	4.5
FWM030/2PDU	30	40	7	6	7.5
FWM030/3PDU	30	40	7	6.5	8.5
FWM030PDU	30	40	7.5	7	8.7
FWM030/4PW	30	40.2	3.1	2.8	4
FWM030SCK	30	42	6	5.8	7.7
FWM030PW	30	42.6	6.3	6	9
MWY030	30	43	6	5.3	8.5
FWM030PF	30	44	3	1.6	4.5
FWM030/1PW	30	45	5.3	4.7	8
FWM040PPW	31.4	40	5.3		
FWM031.5DH	31.5	39.5	5	5	6.5
FWM032PDU	32	37.5	4.5	3.9	5
FWM032MH	32	38.8	5	4.5	4.5
FWM032PWHH	32	39.5	1.6	1.6	4.5
FWM032PWF	32	39.5	4	3.9	7
FWM032/2PW	32	40	4	3.5	6.5
FWM032/1PWF	32	40	4	3.9	8
FWM032/2DH	32	40	4.5	4	7
FWM032PWP	32	40	5	4.7	8
FWM032DH	32	40	6	5	6.5
FWM032/1BPW	32	40.2	3.8	3.6	5
FWM032/3DH	32	40.5	6	5	6.5
FWM032/1DH	32	40.6	5.3	5	6.6
FWM032PWV	32	40.6	5.3	5	7
FWM032/1PDU	32	42	7	6	7.5
FWM032/2PDU	32	42	7	6.5	8.5
FWM032/1PW	32	44	6	5.6	8.5
MWY032	32	45	6	5.3	8.5
FWM032PW	32	406	5.3	5	7
FWM033PWHH	33	40.5	1.8	1.7	3.7
FWM033/1PW	33	40.6	2	1.6	3
FWM033PWF	33	41	4	3.8	7
FWM033PW	33	41	5.3	5	7
FWM033/2PW	33	42	5.3	5	7
FWM034PWF	34	42	4	3.9	7
FWM035/2BPW	35	40.2	3.8	3.6	5

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM035MH	35	41.8	5	4.5	4.5
FWM035PWHH	35	42.5	1.6	1.6	4.5
FWM035PWF	35	43	4	3.9	7
FWM035PWFV	35	43	4	3.9	7
FWM035/1PWF	35	43	4	3.9	8
FWM035/5DH	35	43	4.5	4	8
FWM035SDR	35	43	5		6.5
FWM035PWPH	35	43	5	4.6	8
FWM035DSI	35	43	5.5	5	7
FWM035DH	35	43	6	5	6.5
FWM035/1DSI	35	43	6	6	8
FWM035/1DH	35	43.6	5.3	5	6.5
FWM035/1PW	35	43.6	5.3	5	7
FWM035/2DH	35	44	4.5	4	6
FWM035/1BPW	35	45	4	3.8	5.7
FWM035PDU	35	45	7	6	7.5
FWM035/1PDU	35	45	7	6.5	8.5
FWM035/3DH	35	45.6	6.3	6	8
FWM035PW	35	47	4.3	4	7
FWM035SCK	35	47	7	6.8	8.7
FWM035/2PW	35	47.5	5.3	5	7
FWM035.5DH	35.5	43.5	6	5	6.5
FWM036MH	36	42.8	5	4.5	4.5
FWM036PWF	36	44	4	3.8	7
FWM036/1PWF	36	44	4	3.8	8
FWM036PW	36	44	5.3	5	7
FWM036/1DH	36	44.6	5.3	5	7
FWM036PDU	36	46	7	6	7.5
FWM036/2PW	36	48	6	5.7	8.5
FWM036/1PW	36	48.2	5.3	5	7
MWY036	36	49	6	5.3	8.5
FWM045PPW	36.4	45	5.3		
FWM037PWF	37	45	4	3.6	8
FWM037PW	37	45	5.3	5	6.5
FWM038/2PW	38	46	2.8	2.5	4
FWM038/1PWF	38	46	4	3.8	8
FWM038PWF	38	46	4	3.8	7
FWM038DH	38	46	6	5	6.5
FWM038PW	38	46.6	5.3	5	7
FWM038/1PW	38	48.5	4.8	4.6	7
FWM038/1DH	38	48.6	4.3	4	5.8

METRIC FLEXIBLE ROD WIPER



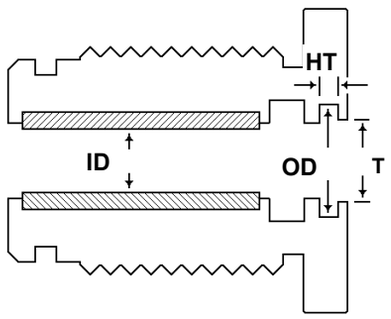


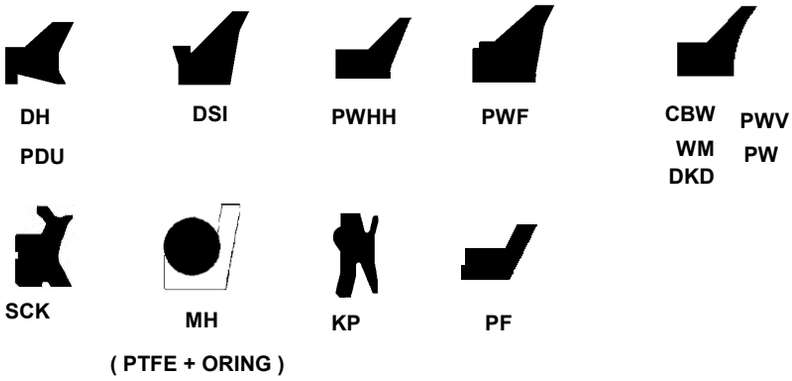
(PTFE + ORING)

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM038/3PW	38	51	6.9	6.9	10
FWM040MH	40	46.8	5	4.5	4.5
FWM040/1MH	40	46.8	6.5	6	6
FWM040PWHH	40	47.5	1.6	1.6	4.5
FWM040/1PWF	40	48	4	3.7	8
FWM040PWFV	40	48	4	3.9	7
FWM040PWF	40	48	4	3.9	7
FWM040PWP	40	48	5	4.6	8
FWM040DH	40	48	6	5	6.5
FWM040/5DH	40	48.6	5.3	5	7
FWM040PW	40	48.6	5.3	5	7
FWM040/1DH	40	50	5.3	5	6.5
FWM040PDU	40	50	7	6	7.5
FWM040/2DH	40	50	7	6	7.5
FWM040DSI	40	50	7	6	8
FWM040/1PDU	40	50	7	6.5	8.5
FWM040/3PW	40	50	7.1	6.9	12
FWM040/4DH	40	50	8	7	9
FWM040/1PWHH	40	52	3	3	9
FWM040/1PW	40	52	6	5.7	9.5
FWM040SCK	40	52	7	6.8	8.7
FWM040/2PW	40	52.2	5.3	5	8
MWY040	40	53	6	5.3	8.5
FWM040PF	40	56	1.6	1.6	4.5
FWM050PPW	41.4	50	5.3		
FWM042MH	42	48.8	5	4.5	4.5
FWM042PWF	42	50	4	3.8	7
FWM042DH	42	50	4.5	4	7
FWM042/1PWF	42	50	5	3.8	8
FWM042PW	42	50	5.3	5	7
FWM043PWHH	43	50.5	1.6	1.6	4.5
FWM043PW	43	55	5.3	5	7
FWM044PWF	44	52	4	3.8	7
FWM044.5DH	44.5	52.5	6.5	5.5	7.5
FWM045MH	45	51.8	5	4.5	4.5
FWM045PWHH	45	52.5	1.6	1.6	4.5
FWM045/2PWF	45	53	4	3.8	8
FWM045PWF	45	53	4	3.9	7
FWM045/2DH	45	53	4.5	4	7
FWM045PWP	45	53	5	4.7	8

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM045DHV	45	53	5	5	7.3
FWM045DH	45	53	6	5	6.5
FWM045PWV	45	53.6	5.3	5	7
FWM045DSI	45	55	7	6	8
FWM045PDU	45	55	7	6	7.5
FWM045/1DH	45	55.6	5.3	5	7
FWM045/2PW	45	55.6	5.3	5	7
FWM045/1DHV	45	55.6	5.3	5	7
FWM045PW	45	55.6	5.3	5.7	8.5
FWM045/1PWF	45	56	5	4.9	8
FWM045SCK	45	57	7	6.8	8.7
MWY045	45	58	6	5.3	8.5
FWM045/1BPW	45	60	4.3	4	6
FWM046PWF	46	54	4	3.8	8
FWM046PW	46	54	5.3	5	7
FWM048MH	48	54.8	5	4.5	4.5
FWM048/1PWF	48	56	4	3.8	8
FWM048PWF	48	56	4	3.9	7
FWM048PW	48	56	5.3	5	7
FWM050MH	50	56.8	5	4.5	4.5
FWM050/2PWF	50	58	4	3.7	8
FWM050PWF	50	58	4	3.9	7
FWM050/1DH	50	58	4.5	4	7
FWM050DELTA	50	58	5	4.5	8
FWM050DHN	50	58	6	5	6.5
FWM050DH	50	58	6	5	6.5
FWM050/7PW	50	58.6	4	3.7	7
FWM050PW	50	58.6	5.3	5	7
FWM050PWV	50	58.6	5.3	5	7
FWM050PWP	50	58.6	5.3	5	9
FWM050/1MH	50	58.8	6.3	4.5	4.5
FWM050DA24	50	58.8	6.3	6	9.2
FWM050PWHH	50	60	2.2	2	6
FWM050/1PWHH	50	60	2.9	2.4	3.7
FWM050DSI	50	60	7	6	8
FWM050/8PW	50	60	7.1	6.7	12
FWM050/1PW	50	60.6	5.3	5	7
FWM050/4PW	50	62	5.3	5	7
FWM050/1PWF	50	62	5.5	5.3	10
FWM050/2PW	50	62	6	5.8	9.8
FWM050SCK	50	62	7	6.8	8.7
FWM050PDU	50	62	8.5	7.5	9
MWY050	50	63	6	5.3	8.5

METRIC FLEXIBLE ROD WIPER



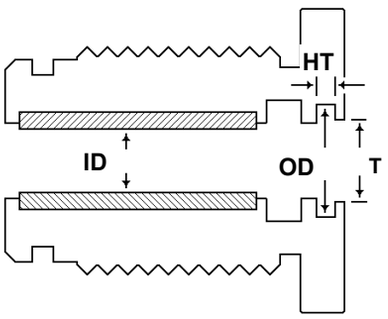


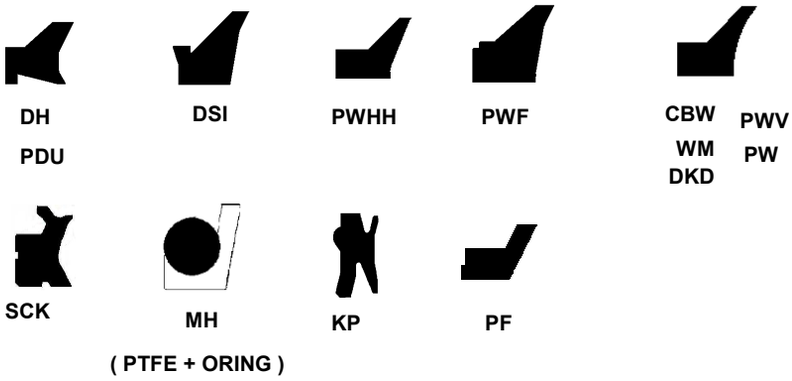
(PTFE + ORING)

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM050/1DSI	50	63	7	7	9.5
FWM050/1BPW	50	65.6	4.3	4.1	6
FWM050/3PW	50	65.6	7.8	7.5	12
FWM060PPW	51.4	60	5.3		
FWM052MH	52	58.8	5	4.5	4.5
FWM052PWF	52	60	4	3.7	8.3
FWM052/1PWF	52	60	4	3.8	4.9
FWM053/1PW	53	61	5	5	7
FWM053DH	53	61	5	5.2	6.5
FWM053PW	53	61.6	5.3	5	7
FWM054PWF	54	62	4	3.8	7
FWM063PPW	54.4	63	5.3		
FWM055MH	55	61.8	5	4.5	4.5
FWM055/1PWF	55	63	4	3.8	8
FWM055PWF	55	63	4	3.9	7
FWM055/2DH	55	63	4	4	7
FWM055DH	55	63	5	5	6.5
FWM055PW	55	63.6	5.3	5	7
FWM055PWHH	55	65	2.2	2.1	6
FWM055/1PW	55	65	5	4.8	7
FWM055/3DH	55	65	5	5	7
FWM055/1DH	55	65	6	5.5	7.3
FWM055DSI	55	65	6	6	8
FWM055/2PW	55	67	7	6.9	12
MWY055	55	68	6	5.3	8.5
FWM055SCK	55	69	8	7.7	10
FWM056MH	56	62.8	5	4.5	4.5
FWM056PWF	56	64	4	3.9	7
FWM056/1PWF	56	64	4	3.9	8
FWM056DH	56	64	5	5	6.5
FWM056PW	56	64.6	5.3	5	7
FWM056/1DH	56	66	6	5.7	7.3
FWM056/1PW	56	66.6	5.3	5	7
MWY056	56	69	6	5.3	8.5
FWM057PWF	57	65	4	3.7	7
FWM057PW	57	69.3	5	5	8.6
FWM058PW	58	68	5	5	7
FWM058DH	58	68	6	5.6	7.3

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM060MH	60	66.8	5	4.5	4.5
FWM060/1PWF	60	68	4	3.7	8
FWM060/3PWF/S	60	68	4	3.9	7.6
FWM060PWF	60	68	4	3.9	7
FWM060PWF/S	60	68	5	4.8	8.6
FWM060DH	60	68	5	5	6.5
FWM060/3PW	60	68.6	5.3	5	7
FWM060PWV	60	68.6	5.3	5	7
FWM060/1MH	60	68.8	6.3	6	6
FWM060/2PWF	60	69.2	2.5	2.4	6
FWM060PWHH	60	70	2.2	2.1	6
FWM060/1PW	60	70	5	5	7
FWM060/7PWV	60	70	5.2		
FWM060/1DH	60	70	6	5.3	7
FWM060/4PW	60	70	6.3	6	10
FWM060PWP	60	70	6.3	6	9
FWM060/6PW	60	70	7	6.8	12
FWM060PW	60	70	7	7	10
FWM060/1PWP	60	70.6	5.3	5	9
FWM060/SPW	60	70.6	5.3	5.2	8.3
FWM060/2PW	60	72	5	5	8.2
FWM060ALWS	60	72.7	5.3	5	10.8
MWY060	60	73	6	5.3	8.5
FWM060DSI	60	73	7	7	9.5
FWM060SCK	60	74	8	7.7	10
FWM061PW	61	69.6	5.3	5	7
FWM070PPW	61.4	70	5.3		
FWM062PWF	62	70	4	3.8	7
FWM063MH	63	69.8	5	4.5	4.5
FWM063PWF	63	71	4	3.8	7
FWM063/1PWF	63	71	4	3.8	8
FWM063DH	63	71	5	5	6.5
FWM063/1PW	63	71.6	5.3	5	7
FWM063PWHH	63	73	2.2	2.1	3.7
FWM063PW	63	73	5	5	7
FWM063/2DH	63	73	6	5.6	7.3
FWM063/2PW	63	75	6	6	9
MWY063	63	76	6	5.3	8.5
FWM065/1PWF	65	73	4	3.8	8
FWM065PWF	65	73	4	3.9	7

METRIC FLEXIBLE ROD WIPER



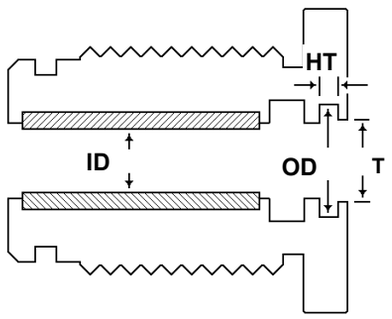


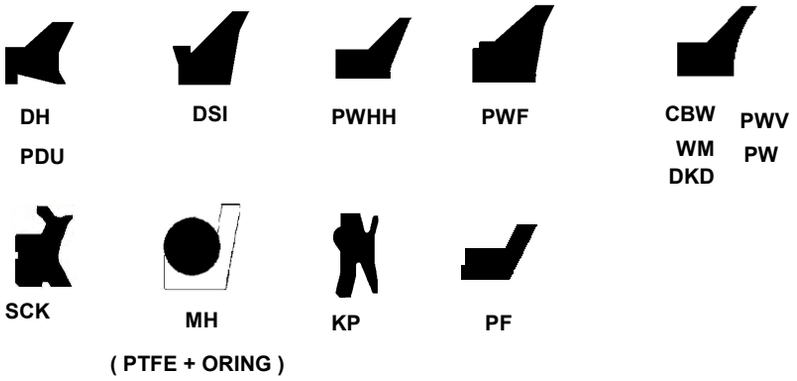
(PTFE + ORING)

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM065/4DH	65	73	4	4	7
FWM065DH	65	73	5	5	6.5
FWM065PWV	65	73.6	5	5	7
FWM065/3PW	65	73.6	5.3	5	7
FWM065MH	65	73.8	6	5.5	5.5
FWM065PW	65	75	5	5	7
FWM065/2DH	65	75	5	5	7
FWM065/5PW	65	75	7	6.9	12
FWM065PWP	65	75.6	5.3		
FWM065/2PW	65	77	5.5	5.6	9
FWM065/1PW	65	77	7	5.8	7
FWM065/6PW	65	77.2	7.2	6.9	12
MWY065	65	78	6	5.3	8.5
FWM065DSI	65	78	7	7	9.5
FWM065SCK	65	79	8	7.7	10
FWM066DH	66	74.6	5.3	4.6	7.5
FWM075PPW	66.4	75	5.3		
FWM067DH	67	75	5	5	6.5
FWM067/SPW	67	76	5.5	5.4	7.2
MWY068	68	75	6	5.3	8.5
FWM068/1PWF	68	76	4	3.7	8
FWM068PWF	68	76	4	3.8	7
FWM070/1PWF	70	78	4	3.8	8
FWM070PWF	70	78	4	3.9	7
FWM070/4PW	70	78.6	5.3	5	7
FWM070/1DH	70	78.6	5.3	5	6.6
FWM070MH	70	78.8	6	5.5	5.5
FWM070PWHH	70	80	2.2	2.1	6
FWM070/7PW	70	80	4.7	4.7	7
FWM070PW	70	80	5	5	7
FWM070/2DH	70	80	6	5.6	7
FWM070DH	70	80	6	6	8
FWM070PWP	70	80	6.3		
FWM070/3PW	70	80	6.3	6.5	8
FWM070/6PW	70	80	7	7	10
FWM070PWV	70	80.6	5.3	5	7
FWM070/1PW	70	82	6	5.8	9
FWM070/2PW	70	82	7	6.9	12
MWY070	70	83	6	5.3	8.5
FWM070DSI	70	83	7	7	9.5
FWM070SCK	70	84	8	7.7	10

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM071DH	71	81	6	6	8
FWM080PPW	71.4	80	5.3		
FWM072PW	72	80.6	5	5	7.8
FWM073PW	73	81.6	5.3	5	7
FWM073/1PW	73	83.6	7.3	7	9
FWM074.5PWV	74.5	83.5	5.1	5	7
FWM075/1PWF	75	83	4	3.7	8
FWM075PWF	75	83	4	3.9	7
FWM075PW	75	83	5	5	7
FWM075PWVH	75	83.6	5.3	5	7
FWM075PWV	75	83.6	5.3	5	7
FWM075MH	75	83.8	6	5.5	5.5
FWM075/2PWF	75	84.2	2.5	2.4	6
FWM075PWHH	75	85	2.2	2.1	6
FWM075/1DH	75	85	5	5	7
FWM075DH	75	85	6	6	8
FWM075/3PW	75	85	6.5	6.5	8
FWM075/1PW	75	87	7	6.8	12
MWY075	75	88	6	5.3	8.5
FWM075DSI	75	88	7	7	9.5
FWM075SCK	75	89	8	7.7	10
FWM076PW	76	84.6	5.3	5	7
FWM076.2MH	76.2	85	6	5.5	5.5
FWM076.5PW	76.5	88.7	7	6.8	12
FWM078PWF	78	86	4	3.7	7
FWM078/2PW	78	86	5	5	7
FWM078PWHH	78	88	2.2	2.1	6
FWM078/1PW	78	88	5	5	8
FWM078/SPW	78	88.6	5.5	5.2	8.2
FWM078/4PW	78	90.3	5.3	5	8.5
FWM078/1PWHH	78	92	3.2	3.1	9
FWM078PW	78	92.2	7.1	7	12
FWM079DH	79	88	4.5	4.5	6.5
FWM080/1PWF	80	88	4	3.9	8
FWM080PWF	80	88	4	3.9	7

METRIC FLEXIBLE ROD WIPER



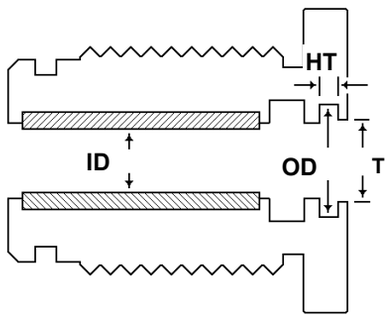


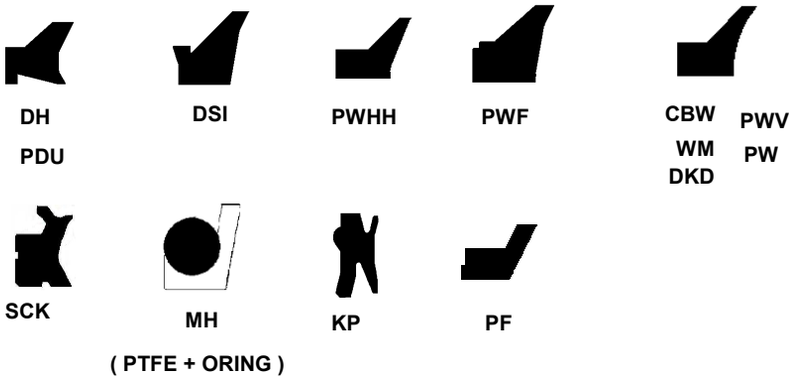
(PTFE + ORING)

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM080PW	80	88	5.7	5	7
FWM080PWV	80	88.6	5.3	5	7
FWM080/1DH	80	88.6	5.3	5	6.5
FWM080MH	80	88.8	6	5.5	5.5
FWM080/1MH	80	88.8	8.2	7.7	7.7
FWM080PWHH	80	90	2.2	2.1	6
FWM080/2DH	80	90	6	5.6	7
FWM080DH	80	90	6	6	8
FWM080PWP	80	90	6.3	6	9
FWM080/5PW	80	90	6.5	6.5	8
FWM080/1PW	80	92	7	6.9	12
MWY080	80	93	6	5.3	8.5
FWM080DSI	80	93	7	7	9.5
FWM080SCK	80	94	8	7.7	10
FWM090PPW	81.4	90	5.3		
FWM082PW	82	95	5	5	7
FWM083PW	83	91	5	5	7.7
FWM085/1PWF	85	93	4	3.8	8
FWM085PWF	85	93	4	3.9	7
FWM085/1PW	85	93.6	5.3	5	7
FWM085MH	85	93.8	6	5.5	5.5
FWM085/2PW	85	95	5	5	7
FWM085DH	85	95	6	6	8
FWM085/3PW	85	95	6.5	6.5	8
FWM085PW	85	97	7	6.9	12
MWY085	85	98	6	5.3	8.5
FWM085DSI	85	98	7	7	9.5
FWM085SCK	85	99	7.7	7.7	10
FWM095PPW	86.4	95	5.3		
FWM088PWF	88	96	4	3.7	7
FWM088PW	88	100	7	7	12
FWM089.5PWV	89.5	98.5	7	4.9	7
FWM090PWF-PU	90	98	4		7
FWM090/1PWF	90	98	4	3.7	8
FWM090PWF	90	98	4	3.9	7
FWM090/2PW	90	98	5	5	7
FWM090PWV	90	98.6	5.3	5	7
FWM090MH	90	98.8	6	5.5	5.5
FWM090/2PWF	90	99.2	2.5	2.4	6

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM090PWHH	90	100	2.2	2.1	6
FWM090DH	90	100	6	6	8
FWM090/5PW	90	100	6	6	9
FWM090PWP	90	100	6.3	6	9
FWM090/2DH	90	100	6.5	6	7
FWM090/7PW	90	100	6.5	6.5	8
FWM090/1PW	90	100	7	6.9	12
FWM090/1RJ	90	101	4.3	4.3	
FWM090RJ	90	101.2	4.7	4.5	
FWM090/6PW	90	102	5.8	5.8	8
FWM090PW	90	102.2	6.8	6.8	12
MWY090	90	103	6	5.3	8.5
FWM090DSI	90	103	7	7	9.5
FWM090SCK	90	104	8	7.7	10
FWM091PW	91	99.6	5.3	5	7
FWM100PPW	91.4	100	5.3		
FWM092PWF	92	100	4	3.9	7
FWM092/SPW	92	103.6	5.5	5.3	8
FWM092PW	92	104.6	7.1	6.6	12
FWM093/1PW	93	101	5	4.8	8
FWM093/SPW	93	123	5	4.8	8
FWM095/1PWF	95	103	4	3.7	8
FWM095/2PW	95	103	5	5	7
FWM095PWF	95	103.6	4	3.9	7
FWM095MH	95	103.8	6	5.5	5.5
FWM095DH	95	105	6	6	8
FWM095/1PW	95	105	10	9.8	15
FWM095PW	95	107	7	6.9	12
MWY095	95	108	6	5.3	8.5
FWM095DSI	95	108	9	7	9.5
FWM095SCK	95	109	8	7.7	10
FWM097/2PW	97	105	5	4.8	7
FWM098/1DH	98	106	4.5	4.5	6.3
FWM098DH	98	108	6	6	8
FWM098.5PW	98.5	111.3	5.3	5	9
FWM099PW	99	109	5	5	8
FWM100/1PWF	100	108	4	3.8	8

METRIC FLEXIBLE ROD WIPER



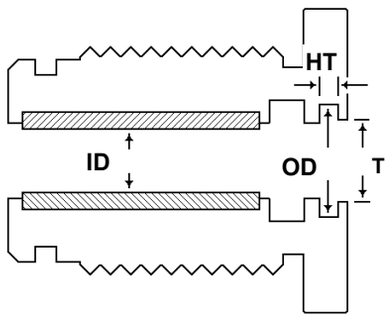


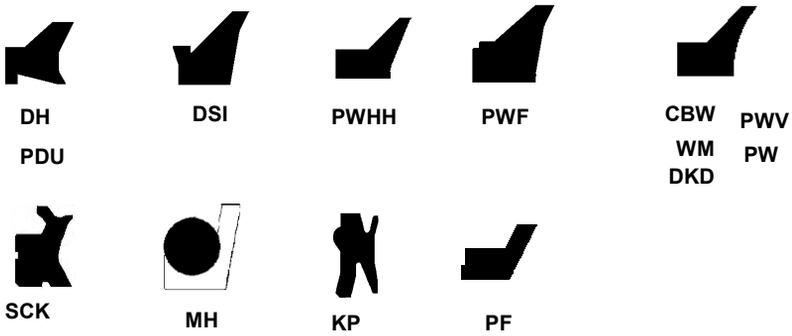
(PTFE + ORING)

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM100PWF	100	108	4	3.9	7
FWM100/1PW	100	108	5	5	7
FWM100/1PWV	100	108	5	5	7
FWM100/4PW	100	108	5.7	5.7	8
FWM100PWV	100	108.6	5	5	7
FWM100MH	100	108.8	6	5.5	5.5
FWM100PWHH	100	110	2.2	2.1	6
FWM100/6PW	100	110	5	5	7
FWM100PWP	100	110	5.3	5	7
FWM100/1DH	100	110	6	5.6	7
FWM100DH	100	110	6	6	8
FWM100/5PW	100	110	6.5	6.5	8
FWM100PW	100	112.2	7.1	7	12
MWY100	100	113	6	5.3	8.5
FWM100DSI	100	113	7	7	9.5
FWM100SCK	100	114	8	7.7	10
FWM100/2PW	100	115	9.2	9.2	13
FWM110PPW	101.4	110	5.3		
FWM102PWF	102	114	5.5	5.2	10
FWM103PW	103	115	7	7	12
FWM104.5PWV	104.5	113.5	5.1	4.9	7
FWM104.5DH	104.5	118.2	5	5	8.5
FWM105/2PW	105	113	5	5	7
FWM105DSE	105	113	5.3	5.1	
FWM105MH	105	113.8	6	5.5	5.5
FWM105/1PWF	105	114.2	2.5	2.4	6
FWM105/3PW	105	115	6.5	6	8
FWM105PWF	105	117	5.5	5.3	11
FWM105PW	105	117	7	6.6	10
MWY105	105	118	6	5.3	8.5
FWM105/6PW	105	118	7	6.9	12
FWM105DSI	105	118	7	7	9.5
FWM105/1PW	105	119	8	7.8	12
FWM105/5PW	105	120.4	7.2	7.2	9.5
FWM105/5PWV	105	120.4	7.2	7.2	9.5
FWM105SCK	105	121	9	8.7	12
FWM106DH	106	116	6	6	8
FWM106PWF	106	118	5	4.8	10
FWM106PW	106	118	5.7	5.7	9
FWM107PW	107	115.6	5.3	5	7

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM107DH	107	117	5	5	8.5
FWM108PW	108	116.6	5.3	5	7
FWM110/1PWF	110	118	4	3.9	7
FWM110/3PW	110	118	5	5	7
FWM110PWV	110	118.6	5.3	5	7
FWM110MH	110	118.8	6	5.5	5.5
FWM110DH	110	120	6	6	8
FWM110/3DH	110	120	8	7.1	9.5
FWM110/2PWF	110	122	5.5	5.2	11
FWM110PWF	110	122	5.5	5.3	10
FWM110/1DH	110	122.2	7.1	6.8	9.5
FWM110/1PW	110	122.2	7.1	6.9	10
MWY110	110	123	6	5.3	8.5
FWM110DSI	110	123	7	7	9.5
FWM110PW	110	124	8	7.9	12
FWM110/2DH	110	125	8.5	8.1	10.5
FWM110PWP	110	125	9.5	9	14
FWM110/2PW	110	125	9.5	9.5	14
FWM110SCK	110	126	9	8.7	12
FWM120PPW	111.4	120	5.3		
FWM112DH	112	122	6	6	8
FWM112PW	112	124.2	7.1	6.9	10
FWM113PWF	113	125	5.5	5.3	11
FWM113PW	113	125	7	7.2	12
FWM115/1PW	115	123	5	5	7
FWM115MH	115	123.8	6	5.5	5.5
FWM115/2PW	115	125	5	5	7
FWM115/3PW	115	126	5.2	5.2	8
FWM115PWF	115	127	5.5	5.2	10
FWM115/1PWF	115	127	5.5	5.3	11
FWM115/4PW	115	127	10	9.8	14
FWM115PW	115	127.2	7.1	6.9	10
MWY115	115	128	6	5.3	8.5
FWM115SCK	115	131	9	8.7	12
FWM125PPW	116.4	125	5.3		
FWM117DH	117	128	5.5	5.5	8.4
FWM117/1PWF	117	129	5	5	10
FWM117PWF	117	129	5.5	5.5	10

METRIC FLEXIBLE ROD WIPER



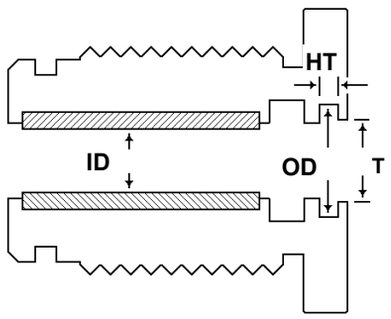


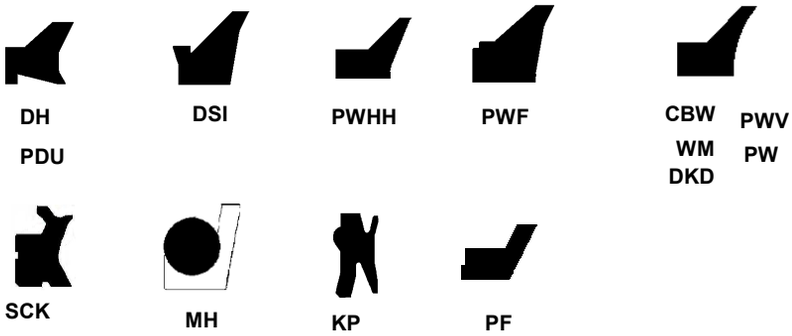
(PTFE + ORING)

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM118/2PW	118	126	5	4.7	7
FWM118PW	118	130.2	7.1	6.7	12
FWM119PW	119	134	9.3	9.3	12.3
FWM119.5PWV	119.5	128.5	5.1	4.9	7
FWM119.5/1PW	119.5	132.3	5.3	5	8.6
FWM120/7PW	120	128	5	5	7
FWM120DSE	120	128	5.3	5	
FWM120PWV	120	128.6	5.3	5	7
FWM120MH	120	128.8	6	5.5	5.5
FWM120/2PWF	120	129.2	2.5	2.4	6
FWM120PWHH	120	130	2.2	2.1	6
FWM120/1PW	120	130	5	5	8
FWM120/6PW	120	130	5	5	7
FWM120/3PW	120	130	6	6	8
FWM120DH	120	130	7	7	10
FWM120/1PWF	120	132	5.5	5.2	11
FWM120PWF	120	132	5.5	5.2	10
FWM120PW	120	132	7.1	7	10
MWY120	120	133	6	5.3	8.5
FWM120DSI	120	133	7	7	9.5
FWM120/2PW	120	134	8	7.8	12
FWM120/2DH	120	135	8.5	8	10.5
FWM120SCK	120	136	9	8.7	12
FWM120/1DH	120	136	9	9	12
FWM122PW	122	129	4	4	7
FWM123PW	123	131	5	5	7
FWM125/3PW	125	133	5	5	7
FWM125MH	125	133.8	6	5.5	5.5
FWM125PWF	125	137	5.5	5.2	10
FWM125/1PWF	125	137	5.5	5.3	11
FWM125/2PW	125	137	7	7	12
MWY125	125	138	6	5.3	8.5
FWM125DH	125	138	7	7	9.5
FWM125/5PW	125	138	7.5	7.5	10
FWM125/1PW	125	139	8	7.9	12
FWM125/2DH	125	140	7.5	7.5	9.5
FWM125/1DH	125	140	8.5	8	10
FWM125/4PW	125	140	9.1	9	15
FWM125PW	125	140	10	9.8	16
FWM125SCK	125	141	9	8.7	12

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM126PW	126	134.6	5.3	5	7
FWM126DH	126	141.8	8	8	9.5
FWM127PWHH	127	137	2.2	2.1	6
FWM128PWF	128	140	5.5	5.2	10
FWM128PW	128	140.2	7.1	7.1	12
FWM130PWF	130	142	5.5	5.2	10
FWM130/1PWF	130	142	5.5	5.2	11
FWM130PW	130	142.2	7.1	7	12
FWM130DH	130	143	7	7	9.5
FWM130/1PW	130	145	10	10	16
FWM130SCK	130	146	9	8.7	12
FWM140PPW	131.4	140	5.3		
FWM132DH	132	145	7	7	9.5
FWM132SCK	132	146	9	8.7	12
FWM135PWF	135	147	5.5	5.2	10
FWM135/1PWF	135	147	5.5	5.3	11
FWM135PW	135	147.2	7.1	6.9	10
FWM135/2PW	135	149	7	7	12
FWM135DH	135	150	7	7	12.5
FWM135/1PW	135	150	9	9	14
FWM136DH	136	147	5.5	5.5	8.5
FWM140/8PW	140	148	5	5	7
FWM140PWV	140	148.6	5.3	5	7
FWM140/2PW	140	148.6	6	5.7	8
FWM140PWHH	140	150	2.2	2.1	6
FWM140/3PW	140	150	5	5	7
FWM140/1PWF	140	152	5.5	5.3	11
FWM140PWF	140	152	5.5	5.4	10
FWM140PW	140	152	7.1	7.1	12
FWM140DH	140	153	7	7	9.5
FWM140/7PW	140	153	7.5	7.5	10
FWM140/1PW	140	155	9	8.8	12
FWM140/5PW	140	155	10	10	16
FWM140/1DH	140	157	6	6	10
FWM140SCK	140	160	9.7	9.7	14
FWM140.5PW	140.5	153.3	5	5	9
FWM141PW	141	151	5	5	8

METRIC FLEXIBLE ROD WIPER



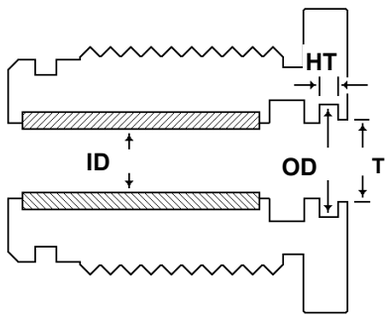


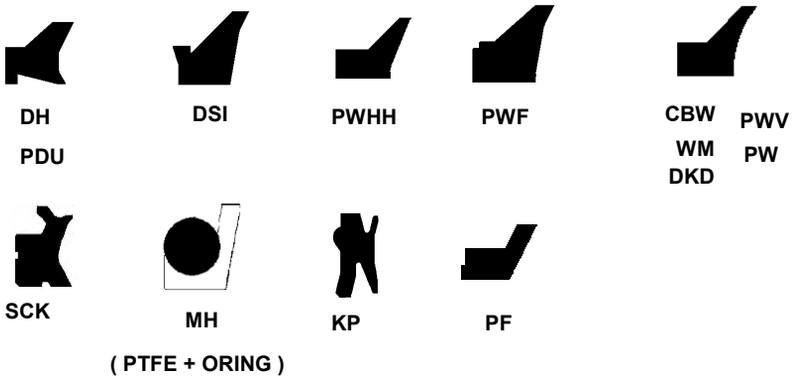
(PTFE + ORING)

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM142PW	142	149	4	4	7
FWM142/1PW	142	151	5	5	7
FWM142PWF	142	154	5.5	5.3	11
FWM142/2PW	142	154	7	7	12
FWM143PW	143	151	5.2	5.2	7
FWM145/1PW	145	153	5	5	7
FWM145PWF	145	157	5.5	5.3	11
FWM145PW	145	157.2	7.1	7	12
FWM145DH	145	158	7	7	9.5
FWM145/2PW	145	160	9	9	16
FWM148/1PW	148	160	7	6.8	10
FWM154DSE	150	162	5.3		
FWM150/1PWF	150	162	5.5	5.3	11
FWM150PWF	150	162	5.5	5.3	10
FWM150PW	150	162	7.1	6.8	12
FWM150/2DH	150	163	7	7	9.5
FWM150/1PW	150	165	7.5	7.3	10
FWM150DH	150	165	8.5	7.5	9.5
FWM150/2PW	150	165	10	10	16
FWM150/3PW	150	169	7	6.9	11
FWM152PWF	152	164	5	5.3	10
FWM155/1DH	155	165	5.7	5.5	8.5
FWM155PWF	155	167	5.5	5.2	11
FWM155/1PWF	155	167	5.5	5.2	10
FWM155DH	155	167	7	7	12
FWM155PW	155	170	10	10	16
FWM160PWV	160	168.6	5.3	5	7
FWM160/1PWF	160	172	5.5	5.2	11
FWM160PWF	160	172	5.5	5.2	10
FWM160/1PW	160	172	7	7	12
FWM160/2PW	160	172	7.5	7.5	12
FWM160DH	160	173	7	7	9.5
FWM160/5PW	160	173	7.5	7.5	10
FWM160/1DH	160	174	5.5	7	9.5
MWY160	160	174	6	5.3	8.5
FWM160/2DH	160	175	8.5	7.5	9.5
FWM160/4PW	160	175	9.2	9.2	13
FWM160PW	160	175.2	10	10	15
FWM160DA24	160	176	9.5	9	14

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM160SCK	160	180	9.7	9.7	14
FWM162PW	162	172	5	5	8
FWM162/1PW	162	174.3	5	5	9
FWM163PW	163	175.2	7.1	6.9	12
FWM165/1PWF	165	177	5.5	5.3	11
FWM165PWF	165	177	5.5	5.3	10
FWM165/1DH	165	178	7	7	9.5
FWM165DH	165	179	7	7	9.5
FWM170PWV	170	178.6	5	5	7
FWM170PWF	170	182	5.5	5.3	11
FWM170/1PW	170	182	7	7	12
FWM170/2PW	170	182	10	10	16
FWM170PW	170	185.2	10	10	16
FWM170/3PW	170	186	7.7	7.7	12
FWM171PW	171	186	10	10	16
FWM172PWF	172	184	5.5	5.2	11
FWM172PW	172	184	7	7	12
FWM175PWF	175	187	5.5	5.2	11
FWM175DH	175	188	7	7	9
FWM176DH	176	186	5.7	5.5	8.5
FWM180/3PW	180	188	5	5	7
FWM180PWV	180	188.6	5.3	5	7
FWM180MH	180	189.6	6	5.5	5.5
FWM180/1PWF	180	192	5.5	5.2	11
FWM180PWF	180	192	5.5	5.3	10
FWM180DH	180	193	7	7	9.5
FWM180/4PW	180	193	7.5	7.5	10
FWM180/1DH	180	194	7	7	9.5
FWM180/2DH	180	195	8.5	7.5	9.5
FWM180/5PW	180	195	9.2	9.2	14
FWM180/1PW	180	195	10	10	15
FWM180DA24	180	196	9.5	9	14
MWY180	180	198	6	5.3	8.5
FWM180/2PW	180	200	7	6.8	10
FWM180PW	180	200	10	10	18
FWM183PW	183	193	5	5	8
FWM183/2PW	183	195.3	5	5	9

METRIC FLEXIBLE ROD WIPER



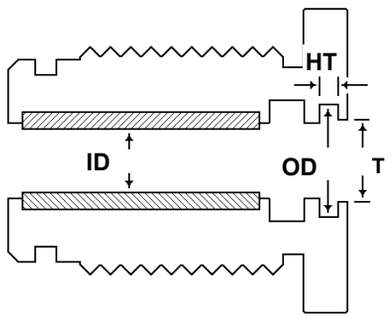


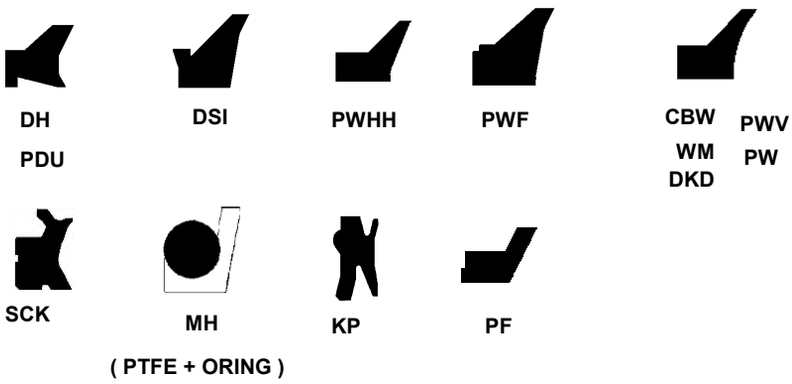
(PTFE + ORING)

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM185PWF	185	197	5.5	5.3	11
FWM185PW	185	197	7	7	12
FWM188PW	188	200	7.1	6.9	10
FWM190PWF	190	202	5.5	5.3	10
FWM190/1PWF	190	202	5.5	5.3	11
FWM190DH	190	203	7	7	9.5
FWM190PW	190	205.2	10.1	9.9	15
FWM190/1PW	190	210	10	9.9	18
FWM195PWF	195	207	5.5	5.3	11
FWM195PW	195	210	9	9	16
FWM198DH	198	208	5.7	5.5	8.5
FWM200PWF	200	212	5.5	5.3	10
FWM200/1PWF	200	212	5.5	5.3	11
FWM200/1DH	200	213	7	7	9.5
FWM200/4PW	200	213	7.5	7.5	10
FWM200DH	200	214	7	7	9.5
FWM200/3PW	200	215	9.3	9.3	12.3
FWM200/2PW	200	215	10	9.9	16
FWM200/1PW	200	215.2	10	9.8	15
FWM200DA24	200	216	9.5	9	14
FWM200/5PW	200	218	14		
FWM200PW	200	220	10	10	18
FWM200.78PW	200.78	210.7	4.4	4.4	6.4
FWM204DH	204	218	7	7	9.5
FWM205PWV	205	213.6	5.3	5	7
FWM205DH	205	215	7	7	9.5
FWM205PWF	205	220	6.4	6.2	13
FWM207PW	207	217	5	5	7
FWM207/1PW	207	218	5.3	5	9
FWM210DH	210	223	7	7	9.5
FWM210/1PWF	210	225	6.4	6.2	13
FWM210PWF	210	225	6.5	6.3	13
FWM210PW	210	225.2	10	9.9	16
FWM210/1PW	210	230	10	9.9	18
FWM212PW	212	224	7	7	12

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM215DH	215	227	7	7	12
FWM215PWF	215	230	6.4	6.2	13
FWM220DH	220	233	7	7	9.5
FWM220/1PWF	220	235	6.4	6.2	13
FWM220PWF	220	235	6.5	6.4	13
FWM220PW	220	235.2	10	9.8	16
FWM220DA24	220	236	9	9.5	16
FWM220/1PW	220	240	10	10	16
FWM220/2PW	220	240	12.5		
FWM220PWP	220	240	12.5	12	18
FWM225PWF	225	240	6.4	6.2	13
FWM225PW	225	245	10	10	18
FWM230DH	230	244	7	7	9.5
FWM230/2PW	230	244	7.5	7.5	10
FWM230PWF	230	245	6.5	6.2	13
FWM230/1PWF	230	245	6.5	6.5	13
FWM230PW	230	245	10	10	16
FWM230/1PW	230	250	10	10	18
FWM240/2PW	240	248	5	5	7
FWM240PWF	240	255	6.4	6.2	13
FWM240DH	240	255	7	7	12
FWM240/1PW	240	255.2	10.1	9.8	16
FWM240PW	240	260	10	10	10
FWM240/3PW	240	260	12	12	17
FWM245PWF	245	260	5.5	6.2	13
FWM245PW	245	266	11	10.5	18
FWM250DH	250	263	7	7	9.5
FWM250/1PWF	250	265	6.4	6.2	13
FWM250PWF	250	265	6.5	6.2	13
FWM250/1PW	250	265	10	9.9	15
FWM250PW	250	270	10	10	18
FWM257/SPW	257	267.6	5.5	5.3	8
FWM258PWF	258	273	6.4	6.2	13
FWM260PWF	260	275	6.4	6.2	13
FWM260PW	260	275.2	9.8	9.8	15
FWM260/1PW	260	280	10	10	18

METRIC FLEXIBLE ROD WIPER



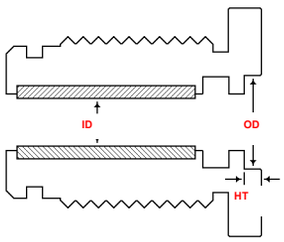


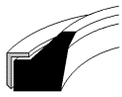
(PTFE + ORING)

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH
FWM265PWF	265	280	6.4	6.2	13
FWM270PWHH	270	283	3	3	9
FWM270PWF	270	285	6.4	6.2	13
FWM270/1PW	270	290	8	8	12
FWM270PW	270	290	10	10	18
FWM275PWF	275	290	6.4	6.2	13
FWM280PWF	280	295	6.4	6.2	13
FWM280PW	280	300	10	10	18
FWM280DH	280	305	15.7	15.7	22.5
FWM285PWF	285	300	6.4	6.2	13
FWM290PWF	290	305	6.4	6.2	13
FWM300PWF	300	315	6.4	6.2	13
FWM300PW	300	320	10	10	18
FWM310PWF	310	325	6.4	6.2	13
FWM320PWF	320	335	6.4	6.2	13
FWM320PW	320	335	8	8	12
FWM320PWP	320	340	18	10	18
FWM330/1PW	330	346	10	10	16
FWM330PW	330	354	8	8	15
FWM340PWF	340	355	6.4	6.2	13
FWM345PWF	345	360	6.4	6.2	13
FWM350PWF	350	365	6.4	6.2	13
FWM360PWF	360	375	6.4	6.2	13
FWM370PWF	370	385	6.4	6.2	13
FWM400PWF	400	415	6.4	6.2	13
FWM450PWP	450	470	18	10	18
FWM460PWF	460	475	6.4	6.2	13
FWM600PW	600	620	10.3	10	16

PART #	ID	OD	HT	SEAL HT	TOTAL SEAL LENGTH

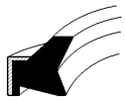
METAL CASED WIPERS



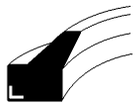


MMC

STANDARD PROFILE



DKB



MMC /R

TOTALLY NITRILE ENCASED



DWI

(PIN SEAL)

HEAVY DUTY -- WIPER SEALS

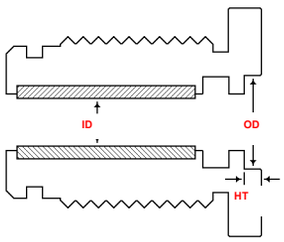
GROOVE DIMENSIONS

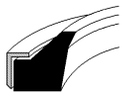
OD + 0.03mm - 0.00mm **HT + 0.26mm - 0.26mm**

PART #	ID	OD	HT
MMC00601303	6	13	3
MMC006.301605	6.3	16	5
MMC00801403.5	8	14	3.5
MMC00801503	8	15	3
MMC00801806	8	18	6
MMC00802203	8	22	3
MMC01001603.5	10	16	3.5
MMC01001805	10	18	5
MMC01002005	10	20	5
MMC011.202105	11.2	21	5
MMC01201803.5	12	18	3.5
MMC01202004	12	20	4
MMC01202205	12	22	5
MMC01202205R	12	22	5
MMC012.502305	12.5	23	5
MMC01301904	13	19	4
MMC014019.803	14	19.8	3
MMC01402003.5	14	20	3.5
MMC01402203	14	22	3
MMC01402204.5	14	22	4.5
MMC01402405	14	24	5
MMC01402505	14	25	5
MMC01502103.5	15	21	3.5
MMC01502505	15	25	5
MMC16019012DWI	16	19	12
MMC01602203	16	22	3
MMC01602403.5	16	24	3.5
MMC01602605	16	26	5
MMC01602605DKBU	16	26	5
MMC01602608DKBA	16	26	5

PART #	ID	OD	HT
MMC01702205	17	22	5
MMC01702303DWI	17	23	3
MMC01802405	18	24	5
MMC01802604.5	18	26	4.5
MMC01802605DWI	18	26	5
MMC01802606DKBN	18	26	6
MMC01802805	18	28	5
MMC01802807	18	28	7
MMC01803006DKBN	18	30	6
MMC01803006DKBU	18	30	6
MMC01803205	18	32	5
MMC01902605DKBU	19	26	5
MMC01902605	19	26	5
MMC019027045DWI	19	27	4.5
MMC01902706.4	19	27	6.4
MMC20022512KYB	20	22.5	12
MMC20022512DWI	20	22.5	12
MMC02002603.5	20	26	3.5
MMC02002604	20	26	4
MMC02002803.5	20	28	3.5
MMC02002805	20	28	5
MMC02002805DWI	20	28	5
MMC02003004	20	30	4
MMC02003007	20	30	7
MMC02003007SJ	20	30	7
MMC02003007R	20	30	7
MMC02003206DKBN	20	32	6
MMC02003206DKBU	20	32	6
MMC02003507	20	35	7
MMC02004207R	20	42	7
MMC02102803.5	21	28	3.5
MMC02202805	22	28	5
MMC02203004	22	30	4
MMC02203005	22	30	5
MMC02203205	22	32	5
MMC02203206DKBN	22	32	6
MMC02203206DKBU	22	32	6
MMC02203207	22	32	7

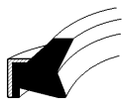
METAL CASED WIPERS



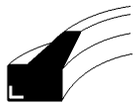


MMC

STANDARD PROFILE



DKB



MMC /R

TOTALLY NITRILE ENCASED



DWI

(PIN SEAL)

HEAVY DUTY -- WIPER SEALS

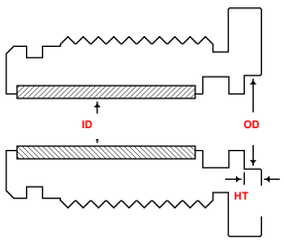
GROOVE DIMENSIONS

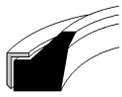
OD + 0.03mm - 0.00mm **HT + 0.26mm - 0.26mm**

PART #	ID	OD	HT
MMC02203406DKBU	22	34	6
MMC02203406DKBN	22	34	6
MMC02203505	22	35	5
MMC022.4034.406	22.4	34.4	6
MMC02303305	23	33	5
MMC02403205DWI	24	32	5
MMC02403505	24	35	5
MMC02503105	25	31	5
MMC02503204DKBU	25	32	4
MMC02503205S	25	32	5
MMC02503205	25	32	5
MMC02503205DWI	25	32	5
MMC02503207DWI	25	32	7
MMC02503304	25	33	4
MMC02503305DWI	25	33	5
MMC02503504DWI	25	35	4
MMC02503505	25	35	5
MMC02503505R	25	35	5
MMC02503506DKBU	25	35	6
MMC02503507R	25	35	7
MMC02503507N	25	35	7
MMC02503507	25	35	7
MMC02503507SJ	25	35	7
MMC02503704DWI	25	37	4
MMC02503706	25	37	6
MMC02503706DKBN	25	37	6
MMC02503706DKBU	25	37	6
MMC025038075DWI	25	38	7.5
MMC02504005	25	40	5
MMC02603507	26	35	7
MMC02703906	27	39	6
MMC02803605DWI	28	36	5
MMC02803805	28	38	5
MMC02803807DKBN	28	38	7
MMC02804007DKBN	28	40	7
MMC02804207DWI	28	42	7

PART #	ID	OD	HT
MMC028503502DWI	28.5	35	2
MMC02903508	29	35	8
MMC029.503508	29.5	35	8
MMC03004004DWI	30	40	4
MMC03004005	30	40	5
MMC03004005H	30	40	5
MMC03004006DWI	30	40	6
MMC03004007	30	40	7
MMC03004206DKBN	30	42	6
MMC03004206DKBU	30	42	6
MMC03004207DWI	30	42	7
MMC030043075DWI	30	43	7.5
MMC03004407DKBN	30	44	7
MMC03004505	30	45	5
MMC03004707DKBN	30	47	7
MMC031.504407	31.5	44	7
MMC03204004	32	40	4
MMC03204006DKBN	32	40	6
MMC03204205	32	42	5
MMC03204206DKBN	32	42	6
MMC03204407DKBN	32	44	7
MMC03204504	32	45	4
MMC03204507	32	45	7
MMC03204507DKBN	32	45	7
MMC03204507R	32	45	7
MMC03205208DKBN	32	52	8
MMC03205208DKBU	32	52	8
MMC03304305	33	43	5
MMC03304307	33	43	7
MMC03404607DKBN	34	46	7
MMC03404607DKBU	34	46	7
MMC03504504DWI	35	45	4
MMC03504505	35	45	5
MMC03504506DWI	35	45	6

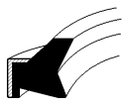
METAL CASED WIPERS



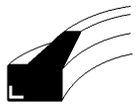


MMC

STANDARD PROFILE



DKB



MMC /R

TOTALLY NITRILE ENCASED



DWI

(PIN SEAL)

HEAVY DUTY -- WIPER SEALS

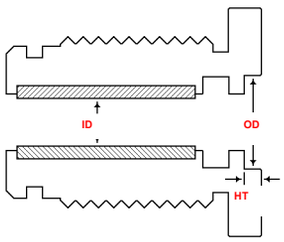
GROOVE DIMENSIONS

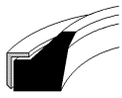
OD + 0.03mm - 0.00mm **HT + 0.26mm - 0.26mm**

PART #	ID	OD	HT
MMC03504507	35	45	7
MMC03504507R	35	45	7
MMC03504507SJ	35	45	7
MMC03504604	35	46	4
MMC03504707DWI	35	47	7
MMC03504707DKBU	35	47	7
MMC03504707DKBN	35	47	7
MMC03504806.5	35	48	6.5
MMC035050075DWI	35	50	7.5
MMC03505207	35	52	7
MMC03505207U	35	52	7
MMC03505507DKBU	35	55	7
MMC035.5047.507	35.5	47.5	7
MMC03604507	36	45	7
MMC03604507A	36	45	7
MMC03604605	36	46	5
MMC03604607	36	46	7
MMC03604607DWI	36	46	7
MMC03604806DWI	36	48	6
MMC03604807DKBN	36	48	7
MMC03704705	37	47	5
MMC03804804DWI	38	48	4
MMC03804806DWI	38	48	6
MMC03804807	38	48	7
MMC038050075DWI	38	50	7.5
MMC038057095DWI	38	57	9.5
MMC04004605	40	46	5
MMC040048038DWI	40	48	3.8
MMC04004805	40	48	5
MMC040050032DWI	40	50	3.2
MMC04005004DWI	40	50	4
MMC04005005	40	50	5
MMC04005006DWI	40	50	6
MMC04005007R	40	50	7
MMC04005007	40	50	7
MMC04005206DWI	40	52	6
MMC04005207DKBN	40	52	7
MMC04005207DKBU	40	52	7

PART #	ID	OD	HT
MMC04005207DWI	40	52	7
MMC04005505DWI	40	55	5
MMC04006005DWI	40	60	5
MMC04006007DKBU	40	60	7
MMC04006207	40	62	7
MMC04006208DKBN	40	62	8
MMC04205207	42	52	7
MMC04505305	45	53	5
MMC045055032DWI	45	55	3.2
MMC04505504DWI	45	55	4
MMC04505505DWI	45	55	5
MMC04505506DWI	45	55	6
MMC04505507	45	55	7
MMC04505507DKBU	45	55	7
MMC04505707DKBU	45	57	7
MMC04505807	45	58	7
MMC04506005DWI	45	60	5
MMC04506007	45	60	7
MMC04506009DWI	45	60	9
MMC04506205DWI	45	62	5
MMC04506507DKBU	45	65	7
MMC04506807DKBN	45	68	7
MMC04806007	48	60	7
MMC05005605	50	56	5
MMC05005805	50	58	5
MMC05005805DWI	50	58	5
MMC050060032DWI	50	60	3.2
MMC05006004DWI	50	60	4
MMC05006005DWI	50	60	5
MMC05006005	50	60	5
MMC05006006DWI	50	60	6
MMC05006007DKBN	50	60	7
MMC05006007	50	60	7
MMC050060115DWI	50	60	11.5
MMC05006207DKBN	50	62	7
MMC05006207DKBU	50	62	7
MMC05006207DWI	50	62	7
MMC05006208DKBU	50	62	8
MMC05006304DWI	50	63	4

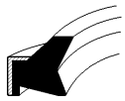
METAL CASED WIPERS



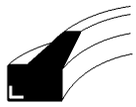


MMC

STANDARD PROFILE



DKB



MMC /R

TOTALLY NITRILE ENCASED



DWI

(PIN SEAL)

HEAVY DUTY -- WIPER SEALS

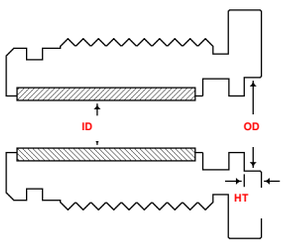
GROOVE DIMENSIONS

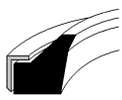
OD + 0.03mm - 0.00mm **HT + 0.26mm - 0.26mm**

PART #	ID	OD	HT
MMC05006308DWI	50	63	8
MMC05006408DKBN	50	64	8
MMC05006505	50	65	5
MMC05006505DWI	50	65	5
MMC05006506DWI	50	65	6
MMC05006507R	50	65	7
MMC05006507DWI	50	65	7.5
MMC05007007	50	70	7
MMC05007207DKBN	50	72	7
MMC05007208DWI	50	72	8
MMC05206207UDZ	52	62	7
MMC05206207	52	62	7
MMC05306708	53	67	8
MMC05506307	55	63	7
MMC055065032DWI	55	65	3.2
MMC05506504DWI	55	65	4
MMC05506504.2DW	55	65	4.2
MMC05506506DWI	55	65	6
MMC05506507DKBU	55	65	7
MMC05506507	55	65	7
MMC05506505	55	65	7
MMC05506707DWI	55	67	7
MMC05506804DWI	55	68	4
MMC05506908DKBN	55	69	8
MMC05506908DKBU	55	69	8
MMC05506908DWI	55	69	8
MMC05507004DWI	55	70	4
MMC05507005DWI	55	70	5
MMC05507006DWI	55	70	6
MMC05507007	55	70	7
MMC05507007DWI	55	70	7
MMC05507506DWI	55	75	6
MMC05507507DKBU	55	75	7
MMC05606507	56	65	7
MMC05606605	56	66	5
MMC05606607	56	66	7
MMC056070075DWI	56	70	7.5
MMC05607107	56	71	7

PART #	ID	OD	HT
MMC06006805	60	68	5
MMC06007005	60	70	5
MMC06007005DKBU	60	70	5
MMC06007006DWI	60	70	6
MMC06007007	60	70	7
MMC06007007DWI	60	70	7
MMC06007008DWI	60	70	8
MMC06007207DWI	60	72	7
MMC06007308DWI	60	73	8
MMC06007405DKBN	60	74	5
MMC06007407.5BMC	60	74	7.5
MMC06007408DKBN	60	74	8
MMC06007408DKBU	60	74	8
MMC06007408DWI	60	74	8
MMC06007504DWI	60	75	4
MMC06007505DWI	60	75	5
MMC06007506DWI	60	75	6
MMC06007507DWI	60	75	7
MMC06007508DWI	60	75	8
MMC06007811	60	78	11
MMC06008007	60	80	7
MMC06008208DKBN	60	82	8
MMC06207207	62	72	7
MMC06307305	63	73	5
MMC06307307DKBN	63	73	7
MMC06307307R	63	73	7
MMC06307505	63	75	5
MMC06307507	63	75	7
MMC06307507U	63	75	7
MMC06307708DWI	63	77	8
MMC063078075DWI	63	78	7.5
MMC06307809DWI	63	78	9
MMC06308005DWI	63	80	5
MMC06308305	63	83	5
MMC06407808	64	78	8
MMC06507505	65	75	5
MMC06507506DWI	65	75	6
MMC06507507	65	75	7
MMC06507507DWI	65	75	7

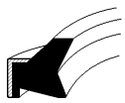
METAL CASED WIPERS



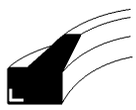


MMC

STANDARD PROFILE



DKB



MMC /R

TOTALLY NITRILE ENCASED



DWI

(PIN SEAL)

HEAVY DUTY -- WIPER SEALS

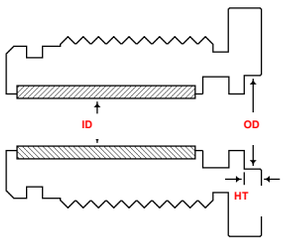
GROOVE DIMENSIONS

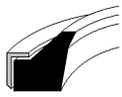
OD + 0.03mm - 0.00mm **HT + 0.26mm - 0.26mm**

PART #	ID	OD	HT
MMC065077065DWI	65	77	6.5
MMC06507908DKBU	65	79	8
MMC06507908DWI	65	79	8
MMC06507908DKBN	65	79	8
MMC06508004DWI	65	80	4
MMC06508005DWI	65	80	5
MMC06508006DWI	65	80	6
MMC06508007DWI	65	80	7
MMC06508008DWI	65	80	8
MMC06508505DWI	65	85	5
MMC06508506DWI	65	85	6
MMC06508507DKBU	65	85	7
MMC06608505DWI	66	85	5
MMC07008004DWI	70	80	4
MMC07008005	70	80	5
MMC07008007	70	80	7
MMC07008007DKBU	70	80	7
MMC07008007DWI	70	80	7
MMC07008009DWI	70	80	9
MMC07008308DWI	70	83	8
MMC07008408DKBN	70	84	8
MMC07008408DKBU	70	84	8
MMC07008408DWI	70	84	8
MMC07008504DWI	70	85	4
MMC07008505DWI	70	85	5
MMC07008506DWI	70	85	6
MMC07008507DKBU	70	85	7
MMC07008507DWI	70	85	7
MMC07008508DWI	70	85	8
MMC07009005DWI	70	90	5
MMC07009007	70	90	7
MMC07108506DWI	71	85	6
MMC07108605DWI	71	86	5
MMC07508307	75	83	7
MMC07508505DWI	75	85	5
MMC07508507	75	85	7
MMC07508705	75	87	5
MMC07508908DKBN	75	89	8
MMC07508908DKBU	75	89	8

PART #	ID	OD	HT
MMC07508908DWI	75	89	8
MMC07509005DWI	75	90	5
MMC075090075DWI	75	90	7.5
MMC075090095DWI	75	90	9.5
MMC07509507DKBU	75	95	7
MMC07509507DWI	75	95	7
MMC07609610DWI	76	96	10
MMC07808807	78	88	7
MMC08008807	80	88	7
MMC080090045DWI	80	90	4.5
MMC08009007	80	90	7
MMC08009007DWI	80	90	7
MMC08009007U	80	90	7
MMC08009308DWI	80	93	8
MMC08009408DWI	80	94	8
MMC08009408DKBN	80	94	8
MMC08009408DKBU	80	94	8
MMC08009504DWI	80	95	4
MMC08009505DWI	80	95	5
MMC08009506DWI	80	95	6
MMC08009507DWI	80	95	7
MMC08009508DWI	80	95	8
MMC08009511DWI	80	95	11
MMC08010006DWI	80	100	6
MMC08010007DWI	80	100	7
MMC08010010DWI	80	100	10
MMC08010012DKBN	80	100	12
MMC082.509207	82.5	92	7
MMC08409405	84	94	5
MMC08509505DWI	85	95	5
MMC08509507	85	95	7
MMC08509908DWI	85	99	8
MMC08509908DKBN	85	99	8
MMC08509908DKBU	85	99	8
MMC08510004DWI	85	100	4
MMC08510005DWI	85	100	5
MMC08510006DWI	85	100	6

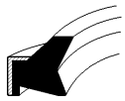
METAL CASED WIPERS



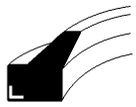


MMC

STANDARD PROFILE



DKB



MMC /R

TOTALLY NITRILE ENCASED



DWI

(PIN SEAL)

HEAVY DUTY -- WIPER SEALS

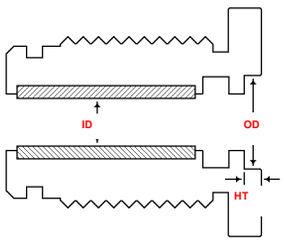
GROOVE DIMENSIONS

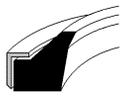
OD + 0.03mm - 0.00mm **HT + 0.26mm - 0.26mm**

PART #	ID	OD	HT
MMC08510008DWI	85	100	8
MMC08510010DWI	85	100	10
MMC08510510DWI	85	105	10
MMC09010005	90	100	5
MMC09010005DWI	90	100	5
MMC09010007	90	100	7
MMC09010007DWI	90	100	7
MMC09010408DKBN	90	104	8
MMC09010408DKBU	90	104	8
MMC09010408DWI	90	104	8
MMC09010504DWI	90	105	4
MMC09010505DWI	90	105	5
MMC09010506DWI	90	105	6
MMC09010508DWI	90	105	8
MMC09010606DWI	90	106	6
MMC09010608DWI	90	106	8
MMC09011007DWI	90	110	7
MMC09011008DWI	90	110	8
MMC090110095DWI	90	110	9.5
MMC09510408DKBN	95	104	8
MMC09510507	95	105	7
MMC09510908DWI	95	109	8
MMC09510908DKBN	95	109	8
MMC09510908DKBU	95	109	8
MMC09511004DWI	95	110	4
MMC09511006DWI	95	110	6
MMC09511007DWI	95	110	7
MMC09511008DWI	95	110	8
MMC095110095DWI	95	110	9.5
MMC09511510DWI	95	115	10
MMC100110045DWI	100	110	4.5
MMC10011007	100	110	7
MMC10011408DKBN	100	114	8
MMC10011408DKBU	100	114	8
MMC10011408DWI	100	114	8
MMC10011504DWI	100	115	4
MMC10011505DWI	100	115	5
MMC10011506DWI	100	115	6
MMC10011507DWI	100	115	7
MMC10011507DWIN	100	115	7

PART #	ID	OD	HT
MMC10011508DWI	100	115	8
MMC10011509DWI	100	115	9
MMC10011608DWI	100	116	8
MMC10012006DWI	100	120	6
MMC10012008DWI	100	120	8
MMC10012010DWI	100	120	10
MMC10012504DWI	100	125	4
MMC10012508DWI	100	125	8
MMC10013008DWI	100	130	8
MMC10511507DWI	105	115	7
MMC10511507	105	115	7
MMC10511908DKBN	105	119	8
MMC10512007DWI	105	120	7
MMC10512008DWI	105	120	8
MMC10512109DKBN	105	121	9
MMC10512109DKBU	105	121	9
MMC10512510DWI	105	125	10
MMC11012007	110	120	7
MMC11012007H	110	120	7
MMC11012504DWI	110	125	4
MMC11012505DWI	110	125	5
MMC11012507DWI	110	125	7
MMC11012508DWI	110	125	8
MMC11012509	110	125	9
MMC11012509DWI	110	125	9
MMC110125095DWI	110	125	9.5
MMC11012608DKBN	110	126	8
MMC11012609DKBU	110	126	9
MMC11012609KYB	110	126	9
MMC11013008DWI	110	130	8
MMC11013010DWI	110	130	10
MMC11013508DWI	110	135	8
MMC11014008DWI	110	140	8
MMC11212809NOK	112	128	9
MMC11512507	115	125	7
MMC115130075DWI	115	130	7.5
MMC11513008DWI	115	130	8
MMC11513109DKBU	115	131	9
MMC11513109DKBN	115	131	9

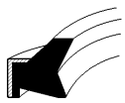
METAL CASED WIPERS



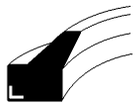


MMC

STANDARD PROFILE



DKB



MMC /R

TOTALLY NITRILE ENCASED



DWI

(PIN SEAL)

HEAVY DUTY -- WIPER SEALS

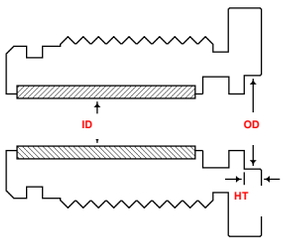
GROOVE DIMENSIONS

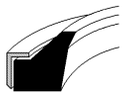
OD + 0.03mm - 0.00mm **HT + 0.26mm - 0.26mm**

PART #	ID	OD	HT
MMC11513506DWI	115	135	6
MMC11513508DWI	115	135	8
MMC12013007	120	130	7
MMC12013205.5	120	132	5.5
MMC12013504DWI	120	135	4
MMC12013505DWI	120	135	5
MMC12013507DWI	120	135	7
MMC12013508DWI	120	135	8
MMC120135095DWI	120	135	9.5
MMC12013609DKBN	120	136	9
MMC12013609DKBU	120	136	9
MMC12013609DWI	120	136	9
MMC12014008DWI	120	140	8
MMC12014010DWI	120	140	10
MMC12514004DWI	125	140	4
MMC12514007DWI	125	140	7
MMC12514009R	125	140	9
MMC12514009	125	140	9
MMC12514109DKBU	125	141	9
MMC12514510DWI	125	145	10
MMC13014007DWI	130	140	7
MMC130145075DWI	130	145	7.5
MMC13014509	130	145	9
MMC13014609DKBU	130	146	9
MMC13014609DWI	130	146	9
MMC13014609DKBN	130	146	9
MMC13014609KYB	130	146	9
MMC13015009DWI	130	150	9
MMC13015010DWI	130	150	10
MMC13015408DWI	130	154	8
MMC130155095DWI	130	155	9.5
MMC13015511DWI	130	155	11
MMC13514507	135	145	7
MMC13515008DKBU	135	150	8
MMC13515009DKBU	135	150	9
MMC13515009	135	150	9
MMC13515510DKBU	135	155	10
MMC14015007	140	150	7

PART #	ID	OD	HT
MMC14015508DWI	140	155	8
MMC14015509	140	155	9
MMC140160085BMC	140	160	8.5
MMC14016010DKBU	140	160	10
MMC14016010DWI	140	160	10
MMC14016010DKBN	140	160	10
MMC14016408DWI	140	164	8
MMC14516009	145	160	9
MMC14516510DKBU	145	165	10
MMC15016507DWI	150	165	7
MMC15016509	150	165	9
MMC15016608	150	166	8
MMC15017008DWI	150	170	8
MMC15017010DKBU	150	170	10
MMC15017010KYB	150	170	10
MMC15017510DWI	150	175	10
MMC15018013DWI	150	180	13
MMC16017507DWI	160	175	7
MMC16017509	160	175	9
MMC16018008DWI	160	180	8
MMC160180095DWI	160	180	9.5
MMC16018010DKBU	160	180	10
MMC16018010KYB	160	180	10
MMC16019013DWI	160	190	13
MMC16518510DKBU	165	185	10
MMC17018510	170	185	10
MMC17019010DKBN	170	190	10
MMC17019010DKBU	170	190	10
MMC17019010DWI	170	190	10
MMC17019010KYB	170	190	10
MMC17020013DWI	170	200	13
MMC17519010DKBU	175	190	10
MMC17519510	175	195	10
MMC18019510	180	195	10
MMC18020008DWI	180	200	8
MMC18020010DKBN	180	200	10

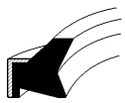
METAL CASED WIPERS



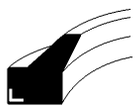


MMC

STANDARD PROFILE



DKB



MMC /R

TOTALLY NITRILE ENCASED



DWI

(PIN SEAL)

HEAVY DUTY -- WIPER SEALS

GROOVE DIMENSIONS

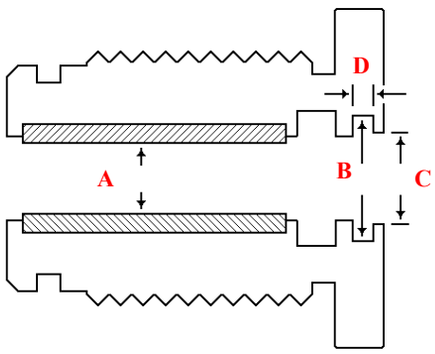
OD + 0.03mm - 0.00mm **HT + 0.26mm - 0.26mm**

PART #	ID	OD	HT
MMC18020010DWI	180	200	10
MMC18020510KYB	180	205	10
MMC18020512DKBN	180	205	12
MMC18020512DKBU	180	205	12
MMC18020512	180	205	12
MMC18020512NOK	180	205	12
MMC18021012DWI	180	210	12
MMC18520010	185	200	10
MMC18820007	188	200	7
MMC19020209	190	202	9
MMC19020509DKBN	190	205	9
MMC19020509DKBU	190	205	9
MMC19021010DWI	190	210	10
MMC19021512DKBN	190	215	12
MMC19021512	190	215	12
MMC19022008DWI	190	220	8
MMC19022009	190	220	9
MMC20021608DKBN	200	216	8
MMC20021608DKBU	200	220	8
MMC20022010DWI	200	220	12
MMC20022012	200	220	12
MMC20022510DKBN	200	225	10
MMC20022512DKBN	200	225	12
MMC20022512DKBU	200	225	12
MMC20023013DWI	200	230	13
MMC21023012	210	230	12
MMC21023512	210	235	12
MMC21023512DWI	210	235	12
MMC22024012	220	240	12
MMC22024512DKBU	220	245	12
MMC22024512KYB	220	245	12
MMC22024512DKBN	220	245	12
MMC23025512	230	255	12
MMC23025512DKBU	230	255	12
MMC23025512KYB	230	255	12
MMC23026010DWI	230	260	10

PART #	ID	OD	HT
MMC23626112DKBU	236	261	12
MMC24026012	240	260	12
MMC25026510	250	265	10
MMC25027012	250	270	12
MMC25027512DKBN	250	275	12
MMC25027512KYB	250	275	12
MMC26028512DKBN	260	285	12
MMC26028512DKBU	260	285	12
MMC26028512KYB	260	285	12
MMC28030012	280	300	12
MMC28031016	280	310	16
MMC30033012DKBN	300	330	12
MMC30033016KYB	300	330	16

WYCLIP

METRIC





NYLON - SNAP IN WIPER -- HEAVY DUTY

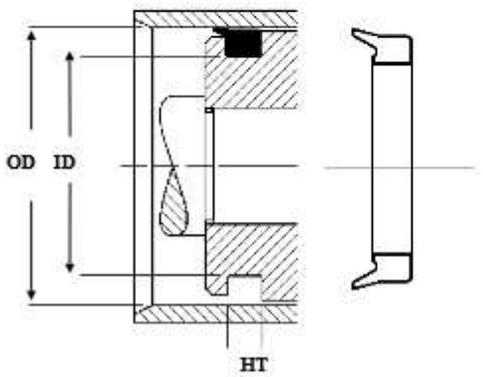
	A Rod / Spear	B +0.1 -0.0	C +0.1 -0.0	D +0.25 -0.0
MWY016	16	26	24.5	4.5
MWY020	20	33	31.5	6
MWY025	25	38	36.5	6
MWY028	28	41	39.5	6
MWY030	30	43	41.5	6
MWY032	32	45	43.5	6
MWY036	36	49	47.5	6
MWY040	40	53	51.5	6
MWY045	45	58	56.5	6
MWY050	50	63	61.5	6
MWY055	55	68	66.5	6
MWY056	56	69	67.5	6
MWY060	60	73	71.5	6
MWY063	63	76	74.5	6
MWY065	65	78	76.5	6
MWY070	70	83	81.5	6
MWY075	75	88	86.5	6
MWY080	80	93	91.5	6
MWY085	85	98	96.5	6
MWY090	90	103	101.5	6
MWY095	95	108	106.5	6
MWY100	100	113	111.5	6
MWY105	105	118	116.5	6
MWY110	110	123	121.5	6
MWY115	115	128	126.5	6
MWY120	120	133	131.5	6
MWY125	125	138	136.5	6
MWY160	160	174	172.5	6
MWY180	180	198	196.5	6

PPW

EXTERNAL SCRAPER -- BORE WIPER

SHOWN MOUNTED ON FRONT OF SINGLE ACTING PISTON

POLYURETHANE EXTERNAL
LIP WIPER





PART#	OD	ID	GROOVE LENGTH
FWM040PPW	40	31.4	5.3
FWM045PPW	45	36.4	5.3
FWM050PPW	50	41.4	5.3
FWM060PPW	60	51.4	5.3
FWM063PPW	63	54.4	5.3
FWM070PPW	70	61.4	5.3
FWM075PPW	75	66.4	5.3
FWM080PPW	80	71.4	5.3
FWM090PPW	90	81.4	5.3
FWM095PPW	95	86.4	5.3
FWM100PPW	100	91.4	5.3
FWM104.8PPW	104.8	97.8	8
FWM110PPW	110	101.4	5.3
FWM120PPW	120	111.4	5.3
FWM125PPW	125	116.4	5.3
FWM130PPW	130	121.4	5.3
FWM140PPW	140	131.4	5.3

IMPERIAL – DOUBLE ACTING

Imperial	**X REERENCE (All Styles)**	1
Imperial	**SPGT**	32
Imperial	**CCI**	34
Imperial	**WDA**	14
Imperial	**DAE**	13
Imperial	**DA**	16
Imperial	**DAL**	17
Imperial	**DAS**	19
Imperial	**JTP**	22
Imperial	**UNI**	23
Imperial	**CAST IRON**	25
Imperial	**TRP**	26
Imperial	**CR**	28
Imperial	**CSH**	30
Imperial	**CN**	31
Imperial	**LC/TC**	36

METRIC – DOUBLE ACTING

Metric **X REERENCE (All Styles)** 38

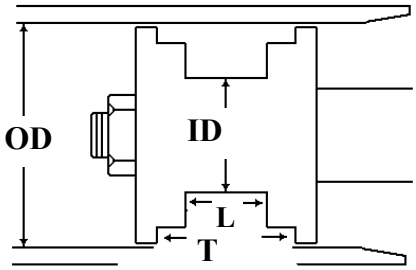
Metric **SPGT** 68
Metric **CCM** 70
Metric **SPG** 62
Metric **DAE** 13
Metric **DA** 13

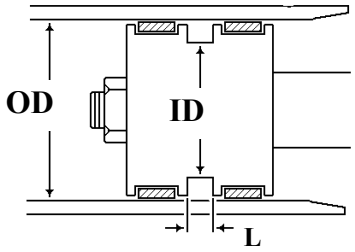
ONE PIECE PISTON (Elements & Wear Ring) 49
DAS – NCF

TWO PIECE PISTON (Elements & Wear Ring) 56
WDA – DAL – DMT

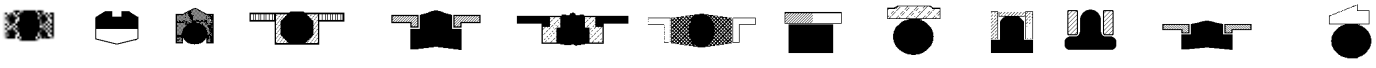
Metric **CAST IRON RING** 71
Metric **CSH** 60
Metric **DAP** 72
Metric **TC** 66

DOUBLE ACTING ---- IMPERIAL----
X REFERENCE





NOMINAL SIZING ONLY - NOT INTENDED FOR MACHINING



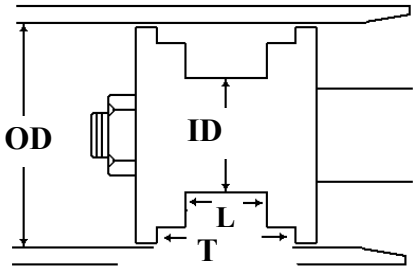
DA DAE | UNI | PSP | JTP | WDA | DAS | DAL | CR CN CAT | CSH CC TC / LC | SPGT | TRP | DS | CSS

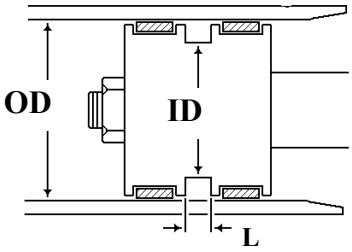
PART#	OD	ID	L	T	TYPE
CSI031TC	0.312	0.152	0.094		TC
CSI034TC	0.343	0.183	0.094		TC
CSI037IBTRP	0.375	0.19	0.152		TRP
CSI037TC	0.375	0.215	0.094		TC
CSI043IBTRP	0.437	0.252	0.152		TRP
CSI043TC	0.437	0.277	0.094		TC
CSI050IBTRP	0.5	0.315	0.152		TRP
CSI050TC	0.5	0.34	0.094		TC
CSI056IBTRP	0.562	0.317	0.187		TRP
CSI056TC	0.562	0.402	0.094		TC
CSI062UNI	0.625	0.375	0.184		UNI
CSI062IBTRP	0.625	0.38	0.187		TRP
CSI062TC	0.625	0.403	0.141		TC
CSI068UNI	0.687	0.437	0.184		UNI
CSI068IBTRP	0.687	0.442	0.187		TRP
CSI068TC	0.687	0.465	0.141		TC
CSI075CN	0.75	0.49	0.083		CN
CSI075UNI	0.75	0.5	0.184		UNI
CSI075IBTRP	0.75	0.505	0.187		TRP
CSI075TC	0.75	0.528	0.141		TC
CSI081UNI	0.812	0.562	0.184		UNI
CSI081IBTRP	0.812	0.567	0.187		TRP
CSI081TC	0.812	0.59	0.141		TC
CSI087CN	0.875	0.616	0.083		CN
CSI087UNI	0.875	0.625	0.184		UNI
CSI087TRP	0.875	0.63	0.187		TRP
CSI087TC	0.875	0.653	0.141		TC
CSI087/1TC	0.875	0.75	0.125		TC
CSI093TC	0.937	0.715	0.141		TC

PART#	OD	ID	L	T	TYPE
DAI100DAL	1	0.625	0.59	1	DAL
DAI100DS	1	0.687	0.343	0.593	DS
CSI100CR	1	0.691	0.129		CR
CSI100CSH	1	0.691	0.129		CSH
CSI100/54CR	1	0.704	0.125		CR
CSI100CN	1	0.74	0.083		CN
CSI100UNI	1	0.75	0.184		UNI
CSI100/1UNI	1	0.75	0.196		UNI
CSI100TRP	1	0.756	0.187		TRP
CSI100TC	1	0.778	0.141		TC
DAI106DS	1.062	0.75	0.312	0.437	DS
CSI106TC	1.062	0.758	0.188		TC
CSI106TRP	1.062	0.818	0.187		TRP
DAI112DAL	1.125	0.625	0.75	1.25	DAL
CSI112TC	1.125	0.821	0.188		TC
CSI112CN	1.125	0.865	0.083		CN
CSI112UNI	1.125	0.875	0.184		UNI
CSI112/1UNI	1.125	0.875	0.196		UNI
CSI112TRP	1.125	0.881	0.187		TRP
CSI118TC	1.187	0.883	0.188		TC
CSI118UNI	1.187	0.937	0.184		UNI
CSI118TRP	1.187	0.943	0.187		TRP
DAI125DAL	1.25	0.75	0.75	1.25	DAL
DAI125DS	1.25	0.937	0.343	0.593	DS
CSI125CR	1.25	0.941	0.129		CR
CSI125CSH	1.25	0.941	0.129		CSH
CSI125TC	1.25	0.946	0.188		TC
CSI125CN	1.25	0.99	0.083		CN
CSI125UNI	1.25	1	0.184		UNI
CSI125TRPL	1.25	1	0.185		TRP
CSI125PSP	1.25	1	0.185		PSP
CSI125/1UNI	1.25	1	0.187		UNI
CSI125TRP	1.25	1.006	0.187		TRP
CSI125/1TC	1.25	1.062	0.172		TC
CSI131TC	1.312	1.008	0.188		TC
CSI131TRP	1.312	1.068	0.187		TRP
DAI137WDA	1.375	0.875	0.625	1.125	WDA

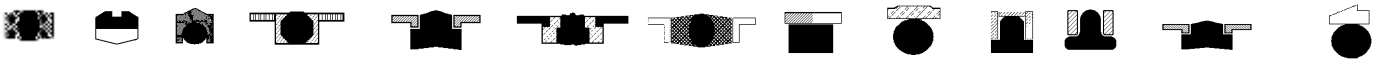
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DOUBLE ACTING ---- IMPERIAL----
X REFERENCE





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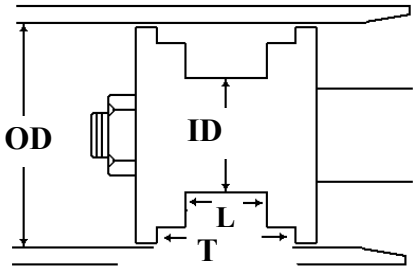
DA DAE | UNI | PSP | JTP | WDA | DAS | DAL | CR CN CAT | CSH CC TC / LC | SPGT | TRP | DS | CSS

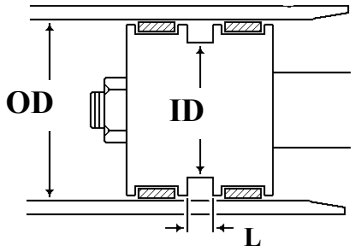
PART#	OD	ID	L	T	TYPE
DAI137DAL	1.375	0.875	0.75	1.25	DAL
CSI137TC	1.375	1.071	0.188		TC
CSI137CN	1.375	1.116	0.083		CN
CSI137UNI	1.375	1.125	0.184		UNI
CSI137/1UNI	1.375	1.125	0.196		UNI
CSI137TRP	1.375	1.131	0.187		TRP
CSI143TC	1.437	1.133	0.188		TC
CSI143UNI	1.437	1.187	0.184		UNI
CSI143TRP	1.437	1.193	0.187		TRP
CSI150CRQ	1.5	0.884	0.271		CRQ
CSI150/1CCI	1.5	0.89	0.25		CCI
CSI150/1/54CR	1.5	0.95	0.24		CR
CSI150CCI	1.5	0.957	0.282		CCI
DAI150/1WDA	1.5	1	0.625	1	WDA
DAI150WDA	1.5	1	0.625	1.125	WDA
DAI150DAS	1.5	1	0.625	1.125	DAS
DAI150/1DAL	1.5	1	0.678	1.178	DAL
DAI150DAL	1.5	1	0.75	1.25	DAL
CSI150SPGT	1.5	1.125	0.424		SPGT
CSI150DAE	1.5	1.125	0.437		DAE
DAI150/1DAS	1.5	1.125	0.437	0.737	DAS
DAI150DS	1.5	1.125	0.437	0.737	DS
DAI150/1JTP	1.5	1.125	0.437	0.937	JTP
DAI150JTP	1.5	1.125	0.437	1.187	JTP
DAI150DASN	1.5	1.125	0.44	0.737	DAS
DAI150PDO	1.5	1.125	0.445	0.75	PDO
CSI150CR	1.5	1.191	0.129		CR
CSI150CSH	1.5	1.191	0.129		CSH
CSI150TC	1.5	1.196	0.188		TC
CSI150/54CR	1.5	1.204	0.125		CR
CSI150CN	1.5	1.24	0.083		CN
CSI150UNI	1.5	1.25	0.184		UNI
CSI150PSP	1.5	1.25	0.185		PSP
CSI150TRPV	1.5	1.25	0.187		TRP
CSI150/1UNI	1.5	1.25	0.196		UNI
CSI150TRP	1.5	1.256	0.187		TRP
CSI150/1CSH	1.5	1.26	0.19		CSH
CSI156CN	1.562	1.172	0.122		CN
CSI156TC	1.562	1.258	0.188		TC
CSI156UNI	1.562	1.312	0.184		UNI

PART#	OD	ID	L	T	TYPE
CSI156TRP	1.562	1.318	0.187		TRP
DAI162WDA	1.625	1	0.75	1.25	WDA
DAI162DAL	1.625	1	0.937	1.437	DAL
DAI162/1WDA	1.625	1.125	0.625	1.125	WDA
CSI162CN	1.625	1.235	0.122		CN
DAI162JTP	1.625	1.25	0.455	1.156	JTP
CSI162TC	1.625	1.321	0.188		TC
CSI162UNI	1.625	1.375	0.184		UNI
CSI162TRP	1.625	1.381	0.187		TRP
CSI168TC	1.687	1.383	0.188		TC
CSI168TRP	1.687	1.443	0.187		TRP
DAI175/1DAS	1.75	1	0.75	1.25	DAS
DAI175DAS	1.75	1.125	0.75	1.25	DAS
DAI175DAL	1.75	1.125	0.937	1.437	DAL
CSI175CSH/1	1.75	1.132	0.441		CSH
CSI175CCI	1.75	1.14	0.25		CCI
CSI175CN	1.75	1.36	0.122		CN
CSI175SPGT	1.75	1.375	0.424		SPGT
DAI175DS	1.75	1.375	0.437	0.737	DS
DAI175JTP	1.75	1.375	0.437	1.187	JTP
DAI175/1DS	1.75	1.375	0.49	0.98	DS
CSI175CSH	1.75	1.441	0.129		CSH
CSI175CR	1.75	1.441	0.129		CR
CSI175TC	1.75	1.446	0.188		TC
CSI175UNI	1.75	1.5	0.184		UNI
CSI175PSP	1.75	1.5	0.185		PSP
CSI175/1UNI	1.75	1.5	0.196		UNI
CSI175TRP	1.75	1.506	0.187		TRP
DAI187DAL	1.875	1.25	0.937	1.437	DAL
CSI187CN	1.875	1.485	0.122		CN
CSI187UNI	1.875	1.5	0.278		UNI
CSI187/1UNI	1.875	1.5	0.294		UNI
CSI187/2UNI	1.875	1.5	0.328		UNI
CSI187/3UNI	1.875	1.5	0.394		UNI
DAI187JTP	1.875	1.5	0.437	1.187	JTP
CSI187TRP	1.875	1.502	0.28		TRP
CSI187TC	1.875	1.571	0.188		TC
DAI200/2DAS	2	1.375	0.69	1.19	DAS

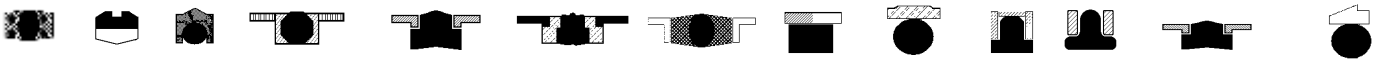
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DA
DAE | UNI | PSP | JTP | WDA | DAS | DAL | CR
CN
CAT | CSH
CC
TC / LC | SPGT | TRP | DS | CSS

PART#	OD	ID	L	T	TYPE
DAI200/1DAL	2	1.375	0.741	1.241	DAL
CSI200DAE	2	1.375	0.75		DAE
DAI200DASS	2	1.375	0.75	1.25	DAS
DAI200WDA	2	1.375	0.75	1.25	WDA
DAI200WDAA	2	1.375	0.75	1.25	WDA
DAI200DASK	2	1.375	0.75	1.25	DAS
DAI200DAL	2	1.375	0.937	1.437	DAL
CSI200CRQ	2	1.384	0.271		CRQ
CSI200CCI	2	1.457	0.282		CCI
CSI200UNI	2	1.5	0.328		UNI
CSI200/1UNI	2	1.5	0.394		UNI
CSI200/6UNI	2	1.5	0.526		UNI
CSI200/1DAE	2	1.5	0.562		DAE
DAI200/1JTP	2	1.5	0.572	1.072	JTP
DAI200JTP	2	1.5	0.572	1.322	JTP
CSI200TC	2	1.512	0.281		TC
CSI200/2CN	2	1.567	0.157		CN
CSI200/54CR	2	1.568	0.165		CR
CSI200CN	2	1.606	0.129		CN
CSI200CRCAT	2	1.625	0.192		CR
CSI200/2UNI	2	1.625	0.278		UNI
CSI200TRPL	2	1.625	0.28		TRP
CSI200PSP	2	1.625	0.28		PSP
CSI200/3CCI	2	1.625	0.281		CCI
CSI200/3UNI	2	1.625	0.294		UNI
CSI200/4UNI	2	1.625	0.328		UNI
CSI200/5UNI	2	1.625	0.394		UNI
CSI200/7UNI	2	1.625	0.404		UNI
CSI200SPGT	2	1.625	0.424		SPGT
DAI200PDO	2	1.625	0.437	0.687	PDO
DAI200DASN	2	1.625	0.437	0.737	DAS
DAI200/1DAS	2	1.625	0.49	0.98	DAS
CSI200TRP	2	1.627	0.282		TRP
CSI200/1CSH	2	1.63	0.281		CSH
CSI200CR	2	1.691	0.129		CR
CSI200CSH	2	1.691	0.129		CSH

DAI212DAS	2.125	1.5	0.75	1.25	DAS
DAI212WDA	2.125	1.5	0.75	1.25	WDA
CSI212TC	2.125	1.637	0.281		TC
CSI212CN	2.125	1.731	0.129		CN
CSI212UNI	2.125	1.75	0.278		UNI
CSI212/1UNI	2.125	1.75	0.526		UNI

PART#	OD	ID	L	T	TYPE
CSI212TRP	2.125	1.752	0.28		TRP

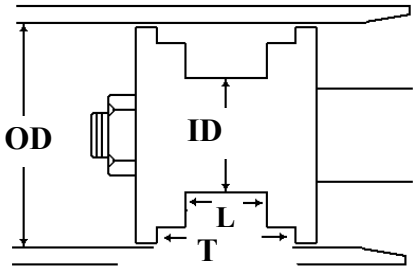
DAI225WDA	2.25	1.625	0.75	1.25	WDA
DAI225DAS	2.25	1.625	0.75	1.25	DAS
DAI225DAL	2.25	1.625	0.937	1.437	DAL
CSI225CRQ	2.25	1.63	0.29		CRQ
DAI225JTP	2.25	1.75	0.572	1.322	JTP
CSI225TC	2.25	1.762	0.281		TC
CSI225CN	2.25	1.856	0.129		CN
CSI225CRCAT	2.25	1.875	0.18		CR
CSI225UNI	2.25	1.875	0.278		UNI
CSI225/1UNI	2.25	1.875	0.294		UNI
CSI225SPGT	2.25	1.875	0.424		SPGT
DAI225DS	2.25	1.875	0.437	0.737	DS
CSI225/2UNI	2.25	1.875	0.526		UNI
CSI225TRP	2.25	1.877	0.282		TRP
CSI225CR	2.25	1.941	0.129		CR
CSI225CSH	2.25	1.941	0.129		CSH

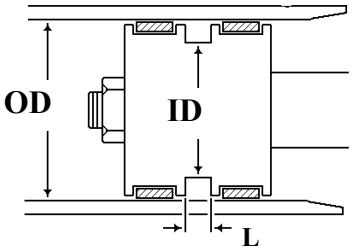
DAI238DAL	2.375				
DAI237DAS	2.375	1.75	0.75	1.25	DAS
DAI237WDA	2.375	1.75	0.75	1.25	WDA
DAI237DAL	2.375	1.75	0.937	1.437	DAL
CSI237TC	2.375	1.887	0.281		TC
CSI237CN	2.375	1.981	0.129		CN
CSI237UNI	2.375	2	0.278		UNI
CSI237/1UNI	2.375	2	0.394		UNI
DAI237DASN	2.375	2	0.437	0.737	DAS
CSI237TRP	2.375	2.002	0.28		TRP

CSI250DA	2.5	1.875	0.75		DA
CSI250DAE	2.5	1.875	0.75		DAE
DAI250WDAA	2.5	1.875	0.75	1.25	WDA
DAI250DASS	2.5	1.875	0.75	1.25	DAS
DAI250DASK	2.5	1.875	0.75	1.25	DAS
DAI250DAS-H	2.5	1.875	0.75	1.25	DAS
DAI250WDA	2.5	1.875	0.75	1.25	WDA
DAI250DAL	2.5	1.875	0.937	1.437	DAL
CSI250CRQ	2.5	1.884	0.271		CRQ
CSI250/1/54CR	2.5	1.889	0.25		CR
CSI250CCI	2.5	1.957	0.312		CCI
CSI250/1CSH	2.5	1.962	0.283		CSH
CSI250/2CCI	2.5	1.962	0.283		CCI

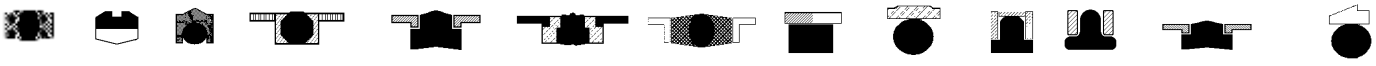
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DA DAE | UNI | PSP | JTP | WDA | DAS | DAL | CR CN CAT | CSH CC TC / LC | SPGT | TRP | DS | CSS

PART#	OD	ID	L	T	TYPE
CSI250UNI	2.5	2	0.328		UNI
CSI250/1UNI	2.5	2	0.394		UNI
CSI250/7UNI	2.5	2	0.526		UNI
CSI250/1DAE	2.5	2	0.562		DAE
DAI250/1JTP	2.5	2	0.572	1.072	JTP
DAI250JTP	2.5	2	0.572	1.322	JTP
DAI250DS	2.5	2	0.65	1.14	DS
CSI250TC	2.5	2.012	0.281		TC
CSI250/54CR	2.5	2.068	0.165		CR
CSI250CN	2.5	2.106	0.129		CN
CSI250/1CR	2.5	2.11	0.205		CR
CSI250CRCAT	2.5	2.125	0.192		CR
CSI250/2UNI	2.5	2.125	0.263		UNI
CSI250/3UNI	2.5	2.125	0.278		UNI
CSI250TRPL	2.5	2.125	0.28		TRP
CSI250PSP	2.5	2.125	0.28		PSP
CSI250/3CCI	2.5	2.125	0.281		CCI
CSI250/4UNI	2.5	2.125	0.294		UNI
CSI250/5UNI	2.5	2.125	0.328		UNI
CSI250/6UNI	2.5	2.125	0.394		UNI
CSI250/8UNI	2.5	2.125	0.404		UNI
CSI250SPGT	2.5	2.125	0.424		SPGT
DAI250DASN	2.5	2.125	0.437	0.737	DAS
DAI250PDO	2.5	2.125	0.445	0.75	PDO
CSI250TRP	2.5	2.127	0.28		TRP
CSI250/2CSH	2.5	2.13	0.281		CSH
CSI250CR	2.5	2.191	0.129		CR
CSI250CSH	2.5	2.191	0.129		CSH
CSI250/1PSP	2.5	2.25	0.165		PSP

DAI262DAS	2.625	2	0.75	1.25	DAS
DAI262DAL	2.625	2	0.937	1.437	DAL
CSI262TC	2.625	2.137	0.281		TC
CSI262UNI	2.625	2.25	0.278		UNI
CSI262TRP	2.625	2.252	0.28		TRP

DAI275WDA	2.75	2	0.937	1.437	WDA
DAI275DAS	2.75	2	0.937	1.437	DAS
DAI275DAL	2.75	2	1.187	1.687	DAL
DAI275DAS-W	2.75	2	1.375	2.125	DAS
CSI275/1CR	2.75	2.19	0.284		CR
CSI275CCI	2.75	2.212	0.282		CCI
DAI275JTP	2.75	2.25	0.572	1.322	JTP

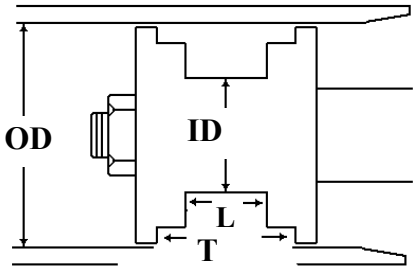
PART#	OD	ID	L	T	TYPE
DAI275/1DAS	2.75	2.25	0.66	1.16	DAS
CSI275TC	2.75	2.262	0.281		TC
CSI275/54CR	2.75	2.326	0.165		CR
CSI275/2CN	2.75	2.353	0.157		CN
CSI275CN	2.75	2.356	0.129		CN
CSI275CRCAT	2.75	2.375	0.192		CR
CSI275UNI	2.75	2.375	0.278		UNI
CSI275/1UNI	2.75	2.375	0.294		UNI
CSI275SPGT	2.75	2.375	0.424		SPGT
DAI275DS	2.75	2.375	0.437	0.737	DS
CSI275TRP	2.75	2.377	0.28		TRP
CSI275/3CCI	2.75	2.38	0.281		CCI
CSI275CR	2.75	2.441	0.129		CR
CSI275CSH	2.75	2.441	0.129		CSH
CSI275NE	2.75	2.528	0.24		NE

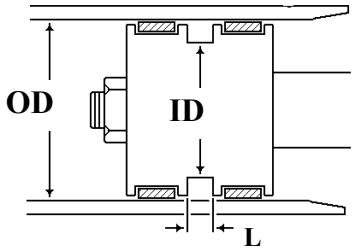
DAI287WDA	2.875	2.125	0.937	1.437	WDA
CSI287TC	2.875	2.387	0.281		TC
CSI287UNI	2.875	2.5	0.278		UNI
CSI287TRP	2.875	2.502	0.28		TRP
CSI287WTRP	2.875	2.502	0.405		TRP

DAI300/2DAL	3				
DAI300/1DAL	3	2.25	0.843	1.333	DAL
CSI300DAE	3	2.25	0.937		DAE
CSI300DA	3	2.25	0.937		DA
DAI300DAS-S	3	2.25	0.937	1.437	DAS
DAI300DASK	3	2.25	0.937	1.437	DAS
DAI300WDAA	3	2.25	0.937	1.437	WDA
DAI300WDA	3	2.25	0.937	1.437	WDA
DAI300/1WDA	3	2.25	1.125	1.625	WDA
DAI300DAL	3	2.25	1.187	1.687	DAL
DAI300/1DAS	3	2.375	0.75	1.25	DAS
DAI300/1DS	3	2.375	0.775	1.265	DS
CSI300/7UNI	3	2.38	0.23		UNI
CSI300CRQ	3	2.384	0.271		CRQ
CSI300CSS	3	2.4	0.247		CSS
CSI300/1LC	3	2.43	0.25		TC
CSI300CCI	3	2.437	0.282		CCI
CSI300/1CCI	3	2.437	0.312		CCI
CSI300/2SPGT	3	2.44	0.425		SPGT
CSI300CSH	3	2.444	0.283		CSH
CSI300CR	3	2.444	0.283		CR

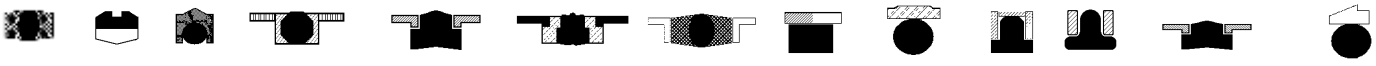
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DOUBLE ACTING ---- IMPERIAL----
X REFERENCE





NOMINAL SIZING ONLY - NOT INTENDED FOR MACHINING



DA DAE | UNI | PSP | JTP | WDA | DAS | DAL | CR CN CAT | CSH CC TC / LC | SPGT | TRP | DS | CSS

PART#	OD	ID	L	T	TYPE
CSI300CRCAT	3	2.46	0.192		CR
CSI300LC	3	2.49	0.275		TC
CSI300/1UNI	3	2.5	0.394		UNI
CSI300/5UNI	3	2.5	0.526		UNI
CSI300/1DAE	3	2.5	0.562		DAE
CSI300UNI	3	2.5	0.569		UNI
DAI300/1JTP	3	2.5	0.572	1.072	JTP
DAI300JTP	3	2.5	0.572	1.322	JTP
CSI300TC	3	2.512	0.281		TC
CSI300/1SPGT	3	2.522	0.579		SPGT
CSI300SPGT	3	2.522	0.579		SPGT
CSI300/54CR	3	2.568	0.165		CR
CSI300/1CN	3	2.603	0.157		CN
CSI300CN	3	2.606	0.129		CN
CSI300PSP	3	2.62	0.284		PSP
CSI300/2UNI	3	2.625	0.278		UNI
CSI300/3CCI	3	2.625	0.281		CCI
CSI300/3UNI	3	2.625	0.294		UNI
CSI300/4UNI	3	2.625	0.328		UNI
CSI300/6UNI	3	2.625	0.404		UNI
DAI300DASN	3	2.625	0.437	0.687	DAS
DAI300PDO	3	2.625	0.44	0.687	PDO
CSI300TRP	3	2.627	0.28		TRP
CSI300NE	3	2.778	0.24		NE

DAI312WDA	3.125	2.375	0.937	1.437	WDA
DAI312DAL	3.125	2.375	1.187	1.687	DAL
CSI312TC	3.125	2.637	0.281		TC
CSI312UNI	3.125	2.75	0.278		UNI
CSI312TRP	3.125	2.752	0.28		TRP

CSI325DAE	3.25	2.5	0.937		DAE
DAI325DAS	3.25	2.5	0.937	1.437	DAS
DAI325WDA	3.25	2.5	0.937	1.437	WDA
DAI325DAL	3.25	2.5	1.187	1.687	DAL
DAI325/1DAS	3.25	2.625	0.775	1.265	DAS
CSI325CRQ	3.25	2.634	0.288		CRQ
CSI325/54CR	3.25	2.64	0.25		CR
CSI325LC	3.25	2.68	0.25		TC
CSI325CCI	3.25	2.687	0.312		CCI
CSI325/1CCI	3.25	2.692	0.282		CCI
CSI325CRCAT	3.25	2.71	0.192		CR
CSI325CR	3.25	2.712	0.283		CR

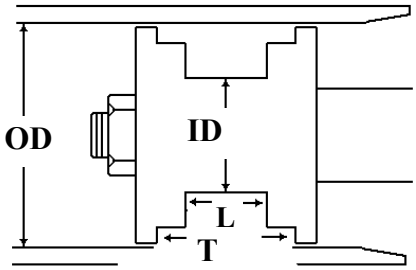
PART#	OD	ID	L	T	TYPE
CSI325CSH	3.25	2.712	0.283		CSH
CSI325UNI	3.25	2.75	0.394		UNI
CSI325/3UNI	3.25	2.75	0.526		UNI
DAI325JTP	3.25	2.75	0.572	1.322	JTP
CSI325TC	3.25	2.762	0.281		TC
CSI325SPGT	3.25	2.772	0.579		SPGT
CSI325/1CN	3.25	2.853	0.157		CN
CSI325CN	3.25	2.856	0.129		CN
CSI325/1UNI	3.25	2.875	0.278		UNI
CSI325/2UNI	3.25	2.875	0.328		UNI
DAI325DS	3.25	2.875	0.437	0.737	DS
CSI325TRP	3.25	2.877	0.28		TRP
CSI325WTRP	3.25	2.877	0.405		TRP
CSI325/3CCI	3.25	2.88	0.281		CCI
CSI325NE	3.25	3.028	0.24		NE

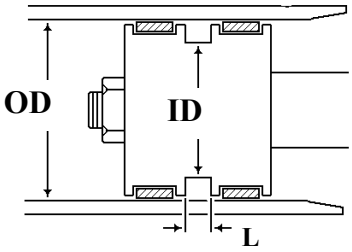
DAI337DAL	3.375	2.625	1.187	1.687	DAL
CSI337TC	3.375	2.887	0.281		TC
CSI337TRP	3.375	3.002	0.28		TRP

CSI350DAE	3.5	2.75	0.937		DAE
DAI350DASS	3.5	2.75	0.937	1.437	DAS
DAI350WDA	3.5	2.75	0.937	1.437	WDA
DAI350DASK	3.5	2.75	0.937	1.437	DAS
DAI350WDAA	3.5	2.75	0.937	1.437	WDA
DAI350DAL	3.5	2.75	1.187	1.687	DAL
DAI350/2DAS	3.5	2.75	1.187	1.687	DAS
DAI350/1DAS	3.5	2.85	0.775	1.365	DAS
CSI350CRQ	3.5	2.884	0.271		CRQ
CSI350/54CR	3.5	2.89	0.25		CR
CSI350LC	3.5	2.93	0.25		TC
CSI350CCI	3.5	2.937	0.282		CCI
CSI350/1CCI	3.5	2.937	0.312		CCI
CSI350CCICAT	3.5	2.96	0.192		CCI
CSI350CCICAT	3.5	2.96	0.192		CCI
CSI350CRCAT	3.5	2.96	0.192		CR
CSI350CSH	3.5	2.962	0.283		CSH
CSI350CR	3.5	2.962	0.283		CR
CSI350/1CR	3.5	3	0.172		CR
CSI350UNI	3.5	3	0.394		UNI
CSI350/3UNI	3.5	3	0.526		UNI
CSI350/1DAE	3.5	3	0.562		DAE
DAI350DASN	3.5	3	0.562	0.937	DAS

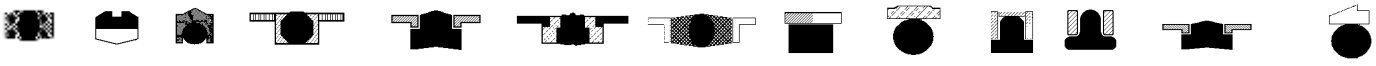
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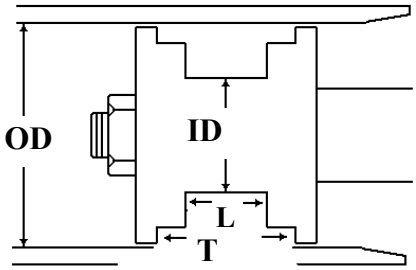
DA DAE | UNI | PSP | JTP | WDA | DAS | DAL | CR CN CAT | CSH CC TC / LC | SPGT | TRP | DS | CSS

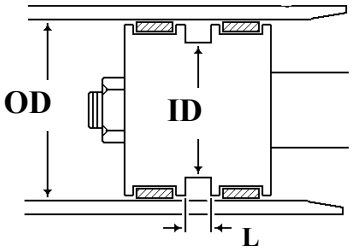
PART#	OD	ID	L	T	TYPE
DAI350PDO	3.5	3	0.569	0.995	PDO
DAI350/1JTP	3.5	3	0.572	1.072	JTP
DAI350JTP	3.5	3	0.572	1.322	JTP
CSI350TC	3.5	3.012	0.28		TC
CSI350SPGT	3.5	3.022	0.579		SPGT
CSI350/3CR	3.5	3.06	0.15		CR
CSI350/2CR	3.5	3.07	0.175		CR
CSI350/1CN	3.5	3.103	0.157		CN
CSI350CN	3.5	3.106	0.129		CN
CSI350/1UNI	3.5	3.125	0.278		UNI
CSI350/3CCI	3.5	3.125	0.281		CCI
CSI350TRPL	3.5	3.125	0.282		TRP
CSI350/2UNI	3.5	3.125	0.294		UNI
CSI350/4UNI	3.5	3.125	0.328		UNI
CSI350TRP	3.5	3.128	0.28		TRP
CSI350WTRP	3.5	3.128	0.405		TRP
CSI350/1CSH	3.5	3.13	0.281		CSH
CSI350/2CSH	3.5	3.13	0.41		CSH
CSI350NE	3.5	3.278	0.24		NE
CSI354CCI	3.543	2.957	0.492		CCI
DAI362WDA	3.625	2.875	0.937	1.437	WDA
DAI362DASW	3.625	2.875	1.375	2.125	DAS
CSI362TC	3.625	3.137	0.281		TC
CSI362TRP	3.625	3.253	0.28		TRP
DAI375DAS	3.75	3	0.937	1.437	DAS
DAI375WDA	3.75	3	0.937	1.437	WDA
DAI375DAL	3.75	3	1.187	1.687	DAL
CSI375LC	3.75	3.18	0.25		TC
CSI375CCI	3.75	3.187	0.282		CCI
CSI375CCICAT	3.75	3.2	0.192		CCI
CSI375CRCAT	3.75	3.21	0.192		CR
CSI375CCICAT	3.75	3.21	0.192		CCI
CSI375CSH	3.75	3.212	0.283		CSH
CSI375CR	3.75	3.212	0.283		CR
DAI375JTP	3.75	3.25	0.572	1.322	JTP
CSI375TC	3.75	3.262	0.281		TC
CSI375SPGT	3.75	3.27	0.579		SPGT
CSI375/1CR	3.75	3.35	0.16		CR
CSI375/1CN	3.75	3.353	0.157		CN
CSI375CN	3.75	3.356	0.129		CN

PART#	OD	ID	L	T	TYPE
CSI375/1UNI	3.75	3.375	0.278		UNI
CSI375UNI	3.75	3.375	0.294		UNI
CSI375TRP	3.75	3.378	0.28		TRP
CSI375/3CCI	3.75	3.38	0.281		CCI
CSI375NE	3.75	3.528	0.24		NE
DAI387WDA	3.875	3.125	0.937	1.437	WDA
CSI387TC	3.875	3.387	0.281		TC
CSI387UNI	3.875	3.5	0.294		UNI
CSI387TRP	3.875	3.503	0.28		TRP
CSI400CRCAT	4	3.21	0.243		CR
CSI400/3UNI	4	3.25	0.526		UNI
DAI400/1JTP	4	3.25	0.765	1.265	JTP
DAI400JTP	4	3.25	0.765	1.765	JTP
CSI400DAE	4	3.25	0.937		DAE
DAI400DASS	4	3.25	0.937	1.437	DAS
DAI400DASK	4	3.25	0.937	1.437	DAS
DAI400WDA	4	3.25	0.937	1.437	WDA
DAI400DASL	4	3.25	0.937	1.437	DAS
DAI400WDAA	4	3.25	0.937	1.437	WDA
DAI400/1DS	4	3.25	0.937	1.437	DS
DAI400DAL	4	3.25	1.187	1.687	DAL
DAI400DASW	4	3.25	1.3	2.125	DAS
CSI400UNI	4	3.3	0.263		UNI
CSI400CCICAT	4	3.335	0.252		CCI
CSI400CCICAT	4	3.335	0.252		CCI
DAI400/1DAS	4	3.375	0.775	1.265	DAS
CSI400CSS	4	3.384	0.247		CSS
CSI400CRQ	4	3.384	0.271		CRQ
CSI400/54CR	4	3.39	0.25		CR
CSI400/1CCI	4	3.398	0.312		CCI
CSI400/1LC	4	3.43	0.25		TC
CSI400CCI	4	3.437	0.282		CCI
CSI400/2SPGT	4	3.44	0.424		SPGT
CSI400CSH	4	3.462	0.283		CSH
CSI400CR	4	3.462	0.283		CR
CSI400LC	4	3.49	0.275		TC
CSI400/5UNI	4	3.5	0.328		UNI
CSI400/1UNI	4	3.5	0.394		UNI
DAI400DASN	4	3.5	0.562	0.982	DAS
DAI400DS	4	3.5	0.562	0.982	DS
DAI400PDO	4	3.5	0.569	0.995	PDO

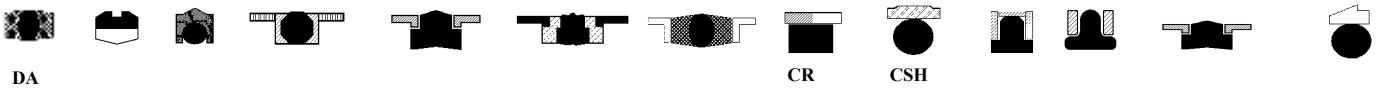
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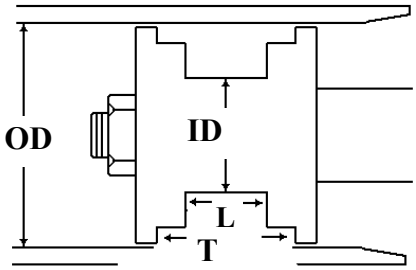
DA DAE | UNI | PSP | JTP | WDA | DAS | DAL | CR CN CAT | CSH CC TC / LC | SPGT | TRP | DS | CSS

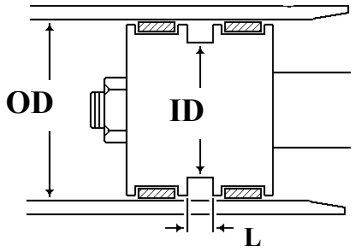
PART#	OD	ID	L	T	TYPE
CSI400TC	4	3.512	0.281		TC
CSI400SPGT-H	4	3.522	0.579		SPGT
CSI400/1SPGT	4	3.522	0.579		SPGT
CSI400SPGT	4	3.522	0.579		SPGT
CSI400/1CN	4	3.603	0.157		CN
CSI400CN	4	3.606	0.129		CN
CSI400/4UNI	4	3.625	0.278		UNI
CSI400PSP	4	3.625	0.28		PSP
CSI400/2UNI	4	3.625	0.294		UNI
CSI400TRP	4	3.628	0.28		TRP
CSI400WTRP	4	3.628	0.405		TRP
CSI400/3CCI	4	3.63	0.281		CCI
CSI400/2CSH	4	3.63	0.41		CSH
CSI400NE	4	3.778	0.24		NE
CSI403CCICAT	4.03	3.335	0.252		CCI
CSI412TC	4.125	3.637	0.281		TC
CSI412TRP	4.125	3.753	0.28		TRP
DAI425JTP	4.25	3.5	0.78	1.687	JTP
DAI425DAS	4.25	3.5	0.937	1.437	DAS
DAI425WDA	4.25	3.5	0.937	1.437	WDA
DAI425DAL	4.25	3.5	1.187	1.687	DAL
CSI425CCICAT	4.25	3.585	0.252		CCI
CSI425CCICAT	4.25	3.585	0.252		CCI
CSI425CRCAT	4.25	3.585	0.255		CR
CSI425LC	4.25	3.68	0.25		TC
CSI425CCI	4.25	3.69	0.282		CCI
CSI425CR	4.25	3.712	0.283		CR
CSI425CSH	4.25	3.712	0.283		CSH
CSI425UNI	4.25	3.75	0.354		UNI
CSI425TC	4.25	3.762	0.281		TC
CSI425SPGT	4.25	3.772	0.579		SPGT
CSI425/1CN	4.25	3.853	0.157		CN
CSI425CN	4.25	3.856	0.129		CN
CSI425PSP	4.25	3.875	0.28		PSP
CSI425/1UNI	4.25	3.875	0.294		UNI
CSI425TRP	4.25	3.878	0.28		TRP
CSI425/3CCI	4.25	3.88	0.281		CCI
CSI425NE	4.25	4.028	0.24		NE
CSI437TC	4.375	3.887	0.281		TC

PART#	OD	ID	L	T	TYPE
CSI437TRP	4.375	4.003	0.28		TRP
CSI450/1CR	4.5	2.94	0.375		CR
DAI450DASW	4.5	3.4	1.75	2.75	DAS
DAI450DS	4.5	3.5	1.25	1.75	DS
DAI450WDA	4.5	3.5	1.25	1.75	WDA
DAI450DAS	4.5	3.5	1.25	1.75	DAS
DAI450/1WDA	4.5	3.5	1.5	2	WDA
DAI450DAL	4.5	3.5	1.5	2.25	DAL
DAI450JTP	4.5	3.75	0.765	1.765	JTP
CSI450SPGTCA	4.5	3.83	0.497		SPGT
CSI450CCICAT	4.5	3.835	0.252		CCI
CSI450CCICAT	4.5	3.835	0.252		CCI
CSI450CRCAT	4.5	3.835	0.255		CR
CSI450/1CCICA	4.5	3.835	0.5		CCI
CSI450/1CCICA	4.5	3.835	0.5		CCI
CSI450/54CR	4.5	3.87	0.25		CR
CSI450/4UNI	4.5	3.88	0.23		UNI
CSI450CRQ	4.5	3.884	0.288		CRQ
CSI450LC	4.5	3.93	0.25		TC
CSI450CCI	4.5	3.937	0.282		CCI
CSI450/2CR	4.5	3.94	0.31		CR
CSI450CR	4.5	3.962	0.283		CR
CSI450CSH	4.5	3.962	0.283		CSH
CSI450UNI	4.5	4	0.394		UNI
CSI450TC	4.5	4.012	0.281		TC
CSI450SPGT	4.5	4.02	0.579		SPGT
CSI450/1CN	4.5	4.103	0.157		CN
CSI450CN	4.5	4.106	0.129		CN
CSI450/5UNI	4.5	4.125	0.278		UNI
CSI450/1UNI	4.5	4.125	0.294		CCI
CSI450/3UNI	4.5	4.125	0.394		UNI
CSI450/2UNI	4.5	4.125	0.419		UNI
CSI450TRP	4.5	4.128	0.28		TRP
CSI450/3CCI	4.5	4.13	0.281		CCI
CSI450NE	4.5	4.278	0.24		NE
CSI462TC	4.625	4.137	0.281		TC
CSI462TRP	4.625	4.253	0.28		TRP
DAI475DAS	4.75				
DAI475WDA	4.75	3.75	1.25	1.75	WDA
DAI475DAL	4.75	3.75	1.5	2.25	DAL

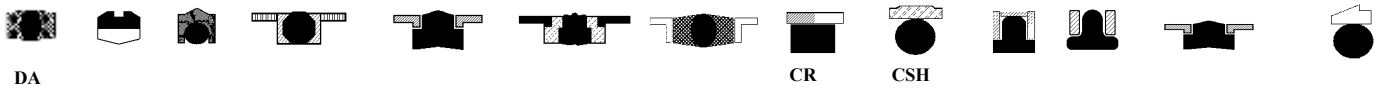
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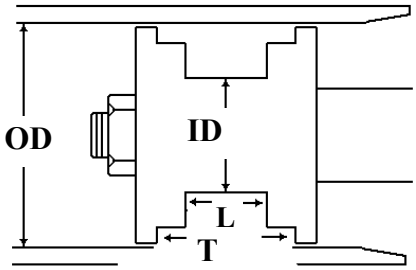
DA DAE | UNI | PSP | JTP | WDA | DAS | DAL | CR CN CAT | CSH CC TC / LC | SPGT | TRP | DS | CSS

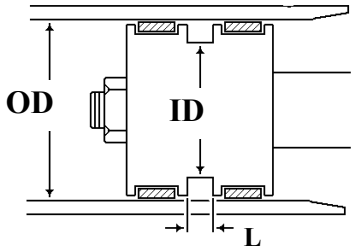
PART#	OD	ID	L	T	TYPE
CSI475/3CR	4.75	3.875	0.293		CR
CSI475/1CR	4.75	4	0.226		CR
DAI475JTP	4.75	4	0.765	1.765	JTP
CSI475CCICAT	4.75	4.085	0.252		CCI
CSI475CCICAT	4.75	4.085	0.252		CCI
CSI475CRCAT	4.75	4.085	0.255		CR
CSI475/1CCICA	4.75	4.085	0.629		CCI
CSI475/1CCICA	4.75	4.085	0.629		CCI
CSI475CRQ	4.75	4.134	0.288		CRQ
CSI475LC	4.75	4.18	0.25		TC
CSI475CCI	4.75	4.192	0.282		CCI
CSI475CR	4.75	4.212	0.283		CR
CSI475CSH	4.75	4.212	0.283		CSH
CSI475TC	4.75	4.262	0.281		TC
CSI475SPGT	4.75	4.27	0.579		SPGT
CSI475/1CN	4.75	4.353	0.157		CN
CSI475CN	4.75	4.356	0.129		CN
CSI475PSP	4.75	4.375	0.25		PSP
CSI475/3CCI	4.75	4.375	0.281		CCI
CSI475UNI	4.75	4.375	0.294		UNI
CSI475TRP	4.75	4.378	0.28		TRP
CSI475NE	4.75	4.528	0.24		NE
CSI487TC	4.875	4.387	0.281		TC
CSI487TRP	4.875	4.503	0.28		TRP
CSI500/1CCICA	5	3.482	0.252		CCI
CSI500/1CCICA	5	3.482	0.252		CCI
CSI500DAE	5	4	1.25		DAE
DAI500WDAA	5	4	1.25	1.75	WDA
DAI500DAL-N	5	4	1.25	1.75	DAL
DAI500WDA	5	4	1.25	1.75	WDA
DAI500/2DAS	5	4	1.25	1.75	DAS
DAI500DAS	5	4	1.25	2	DAS
DAI500DAL	5	4	1.5	2.25	DAL
CSI500/1DAE	5	4	1.75		DAE
DAI500DMT	5	4	1.75	2	DMT
DAI500DASW	5	4	1.75	2.75	DAS
CSI500/1SPGT	5	4.094	0.63		SPGT
CSI500/2CCICA	5	4.225	0.379		CCI
CSI500/2CCICA	5	4.225	0.379		CCI
CSI500CRCAT	5	4.225	0.38		CR
CSI500CCICAT	5	4.225	0.629		CCI

PART#	OD	ID	L	T	TYPE
CSI500CCICAT	5	4.225	0.629		CCI
CSI500SPGTCA	5	4.23	0.635		SPGT
CSI500/1CCI	5	4.24	0.377		CCI
DAI500JTP	5	4.25	0.765	1.765	JTP
DAI500/1DAS	5	4.25	0.963	1.453	DAS
CSI500SPGT-H	5	4.274	0.75		SPGT
CSI500SPGT	5	4.274	0.75		SPGT
DAI500DASN	5	4.375	0.687	1.375	DAS
DAI500DS	5	4.375	0.687	1.375	DS
CSI500CRQ	5	4.384	0.288		CRQ
CSI500/54CR	5	4.39	0.25		CR
CSI500/1LC	5	4.43	0.25		TC
CSI500CCI	5	4.437	0.282		CCI
CSI500CR	5	4.462	0.283		CR
CSI500CSH	5	4.462	0.283		CSH
CSI500LC	5	4.49	0.275		TC
CSI500UNI	5	4.5	0.394		UNI
CSI500/2CN	5	4.503	0.157		CN
CSI500/1TRP	5	4.503	0.366		TRP
CSI500IBTRP	5	4.503	0.469		TRP
CSI500WTRP	5	4.503	0.55		TRP
CSI500TC	5	4.512	0.281		TC
CSI500/1CR	5	4.53	0.19		CR
CSI500CN	5	4.606	0.129		CN
CSI500/1CN	5	4.606	0.13		CN
CSI500/1UNI	5	4.625	0.278		UNI
CSI500TRP	5	4.629	0.28		TRP
CSI500/3CCI	5	4.63	0.281		CCI
CSI503CCI	5.03		0.275		CCI
CSI503CCICAT	5.03	4.225	0.379		CCI
CSI512TC	5.125	4.469	0.375		TC
CSI512TRP	5.125	4.649	0.366		TRP
DAI525DAS	5.25	4.25	1.25	1.75	DAS
DAI525DAL	5.25	4.25	1.5	2.25	DAL
CSI525CCICAT	5.25	4.475	0.379		CCI
CSI525CCICAT	5.25	4.475	0.379		CCI
CSI525CRCAT	5.25	4.475	0.38		CR
CSI525CSH	5.25	4.504	0.378		CSH
CSI525CR	5.25	4.504	0.378		CR
CSI525SPGT	5.25	4.521	0.75		SPGT

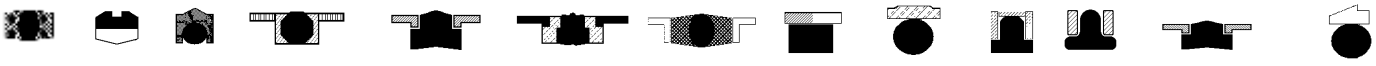
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DOUBLE ACTING ---- IMPERIAL----
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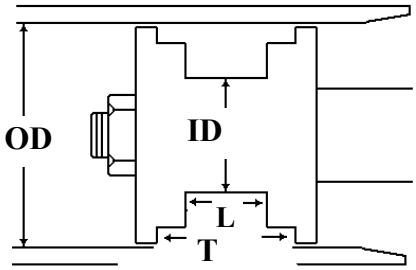
DA DAE | UNI | PSP | JTP | WDA | DAS | DAL | CR CN CAT | CSH CC TC / LC | SPGT | TRP | DS | CSS

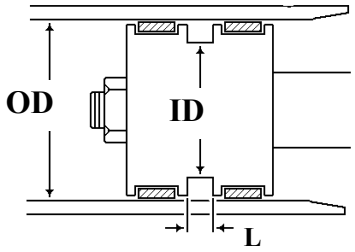
PART#	OD	ID	L	T	TYPE
CSI525TC	5.25	4.594	0.375		TC
CSI525TRP	5.25	4.774	0.366		TRP
CSI525CN	5.25	4.856	0.129		CN
CSI537TC	5.375	4.719	0.375		TC
CSI537TRP	5.375	4.889	0.366		TRP
DAI550/1DAS	5.5	4.5	1.25	1.75	DAS
DAI550WDA	5.5	4.5	1.25	1.75	WDA
DAI550DAS	5.5	4.5	1.25	2	DAS
DAI550DAL	5.5	4.5	1.5	2.25	DAL
CSI550CRQ	5.5	4.66	0.352		CRQ
CSI550CRCAT	5.5	4.725	0.38		CR
CSI550CCICAT	5.5	4.725	0.629		CCI
CSI550CCICAT	5.5	4.725	0.629		CCI
CSI550SPGTCA	5.5	4.73	0.635		SPGT
CSI550CCI	5.5	4.735	0.377		CCI
CSI550CR	5.5	4.75	0.378		CR
DAI550JTP	5.5	4.75	0.78	1.687	JTP
CSI550CSH	5.5	4.754	0.378		CSH
CSI550SPGT	5.5	4.77	0.75		SPGT
CSI550TC	5.5	4.844	0.375		TC
DAI550DS	5.5	4.875	0.687	1.375	DS
CSI550UNI	5.5	5	0.394		UNI
CSI550/1SPGT	5.5	5.021	0.579		SPGT
CSI550TRP	5.5	5.024	0.366		TRP
CSI550WTRP	5.5	5.024	0.55		TRP
CSI550/3CCI	5.5	5.027	0.366		CCI
CSI550CN	5.5	5.106	0.129		CN
CSI553CCICAT	5.53	4.725	0.629		CCI
CSI562TC	5.625	4.969	0.375		TC
CSI562TRP	5.625	5.149	0.366		TRP
DAI575WDA	5.75	4.75	1.25	1.75	WDA
DAI575DAL	5.75	4.75	1.5	2.25	DAL
CSI575CRCAT	5.75	4.98	0.38		CR
CSI575CR	5.75	5	0.378		CR
CSI575SPGT	5.75	5.021	0.75		SPGT
CSI575TC	5.75	5.094	0.375		TC
CSI575CN	5.75	5.232	0.159		CN
CSI575TRP	5.75	5.274	0.366		TRP

PART#	OD	ID	L	T	TYPE
CSI587TC	5.875	5.219	0.375		TC
CSI587TRP	5.875	5.399	0.366		TRP
CSI600DAE	6	5	1.25		DAE
DAI600WDAA	6	5	1.25	1.75	WDA
DAI600WDA	6	5	1.25	1.75	WDA
DAI600DAS	6	5	1.25	2	DAS
DAI600/2DAS	6	5	1.265	1.875	DAS
DAI600DAL	6	5	1.5	2.25	DAL
DAI600/1DAS	6	5	1.5	2.25	DAS
DAI600DASW	6	5	1.75	2.75	DAS
DAI600DMT	6	5	1.75	2.75	DMT
CSI600/1CRQ	6	5.042	0.3		CRQ
CSI600SPGTCA	6	5.094	0.635		SPGT
CSI600/1CCICA	6	5.095	0.38		CCI
CSI600CRCAT	6	5.095	0.38		CR
CSI600/1CCICA	6	5.095	0.38		CCI
CSI600CCICAT	6	5.095	0.629		CCI
CSI600CCICAT	6	5.095	0.629		CCI
CSI600CRQ	6	5.16	0.352		CRQ
CSI600/54CR	6	5.174	0.32		CR
CSI600CCI	6	5.235	0.377		CCI
CSI600CR	6	5.25	0.378		CR
DAI600JTP	6	5.25	0.765	1.765	JTP
CSI600CSH	6	5.254	0.378		CSH
CSI600SPGT-H	6	5.274	0.75		SPGT
CSI600SPGT	6	5.274	0.75		SPGT
CSI600LC	6	5.28	0.375		TC
CSI600TC	6	5.344	0.375		TC
CSI600CN	6	5.482	0.159		CN
CSI600/1UNI	6	5.5	0.364		UNI
CSI600UNI	6	5.5	0.394		UNI
CSI600TRP	6	5.524	0.366		TRP
CSI600WTRP	6	5.524	0.55		TRP
CSI603CCICAT	6.03	5.09	0.378		CCI
CSI606CCICAT	6.06	5.09	0.378		CCI
CSI612TC	6.125	5.469	0.375		TC
CSI612TRP	6.125	5.649	0.366		TRP

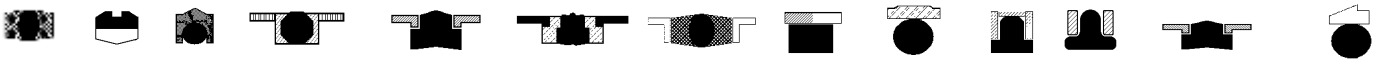
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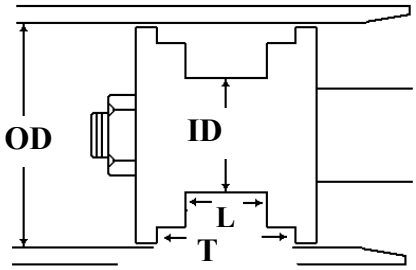
DA DAE | UNI | PSP | JTP | WDA | DAS | DAL | CR CN CAT | CSH CC TC / LC | SPGT | TRP | DS | CSS

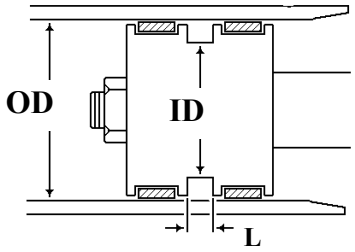
PART#	OD	ID	L	T	TYPE
DAI625DAL	6.25	5.25	1.5	2.25	DAL
CSI625SPGTCA	6.25	5.344	0.635		SPGT
CSI625CRCAT	6.25	5.345	0.38		CR
CSI625CCICAT	6.25	5.345	0.629		CCI
CSI625CCICAT	6.25	5.345	0.629		CCI
CSI625CR	6.25	5.5	0.378		CR
CSI625CSH	6.25	5.504	0.378		CSH
CSI625SPGT	6.25	5.524	0.75		SPGT
CSI625TC	6.25	5.594	0.375		TC
CSI625CN	6.25	5.732	0.16		CN
CSI625TRP	6.25	5.774	0.366		TRP
CSI628CCICAT	6.28	5.345	0.629		CCI
CSI637TC	6.375	5.719	0.375		TC
DAI650/2DAS	6.5	5.5	1.25	1.75	DAS
DAI650/1DAS	6.5	5.5	1.25	1.75	DAS
DAI650WDA	6.5	5.5	1.25	1.75	WDA
DAI650DAS	6.5	5.5	1.25	2	DAS
DAI650DAL	6.5	5.5	1.5	2.25	DAL
CSI650SPGTCA	6.5	5.594	0.635		SPGT
CSI650CRCAT	6.5	5.595	0.38		CR
CSI650CCICAT	6.5	5.595	0.629		CCI
CSI650CCICAT	6.5	5.595	0.629		CCI
CSI650CRQ	6.5	5.66	0.352		CRQ
CSI650CCI	6.5	5.738	0.375		CCI
CSI650CR	6.5	5.75	0.378		CR
CSI650CSH	6.5	5.754	0.378		CSH
CSI650SPGT	6.5	5.774	0.75		SPGT
CSI650TC	6.5	5.844	0.375		TC
CSI650CN	6.5	5.982	0.159		CN
CSI650UNI	6.5	6	0.394		UNI
CSI650TRP	6.5	6.024	0.366		TRP
CSI650IBTRP	6.5	6.024	0.475		TRP
CSI650WTRP	6.5	6.024	0.55		TRP
CSI662TC	6.625	5.969	0.375		TC
DAI675DAL	6.75	5.75	1.5	2.25	DAL
CSI675CR	6.75	6	0.378		CR
CSI675SPGT	6.75	6.021	0.75		SPGT
CSI675TC	6.75	6.094	0.375		TC

PART#	OD	ID	L	T	TYPE
CSI675CN	6.75	6.232	0.159		CN
CSI675TRP	6.75	6.274	0.366		TRP
DAI700WDA	7	6	1.25	1.75	WDA
DAI700/1DAS	7	6	1.25	1.75	DAS
DAI700DAS	7	6	1.25	2	DAS
DAI700/2DAS	7	6	1.25	2.5	DAS
DAI700DAL	7	6	1.5	2.25	DAL
CSI700SPGTCA	7	6.094	0.635		SPGT
CSI700CRCAT	7	6.095	0.38		CR
CSI700CCICAT	7	6.095	0.629		CCI
CSI700CCICAT	7	6.095	0.629		CCI
CSI700CRQ	7	6.17	0.352		CRQ
CSI700/54CR	7	6.174	0.32		CR
CSI700CCI	7	6.235	0.377		CCI
CSI700CR	7	6.25	0.378		CR
DAI700JTP	7	6.25	0.765	1.765	JTP
CSI700CSH	7	6.254	0.378		CSH
CSI700SPGT	7	6.274	0.75		SPGT
CSI700LC	7	6.28	0.375		TC
CSI700TC	7	6.344	0.375		TC
CSI700CN	7	6.482	0.159		CN
CSI700UNI	7	6.5	0.364		UNI
CSI700TRP	7	6.524	0.366		TRP
CSI700IBTRP	7	6.524	0.475		TRP
CSI700WTRP	7	6.524	0.55		TRP
CSI703CCICAT	7.03	6.095	0.38		CCI
CSI703CCICAT	7.03	6.095	0.38		CCI
CSI703CCICAT/	7.03	6.095	0.63		CCI
CSI725SPGTCA	7.25	6.344	0.635		SPGT
CSI725CRCAT	7.25	6.345	0.38		CR
CSI725CCICAT	7.25	6.345	0.629		CCI
CSI725CCICAT	7.25	6.345	0.629		CCI
CSI725CR	7.25	6.5	0.378		CR
CSI725SPGT	7.25	6.524	0.75		SPGT
CSI725CN	7.25	6.732	0.159		CN
CSI725TRP	7.25	6.774	0.366		TRP
DAI750DAL	7.5	6.25	1.875	2.625	DAL
CSI750SPGTCA	7.5	6.594	0.635		SPGT
CSI750CRCAT	7.5	6.595	0.38		CR

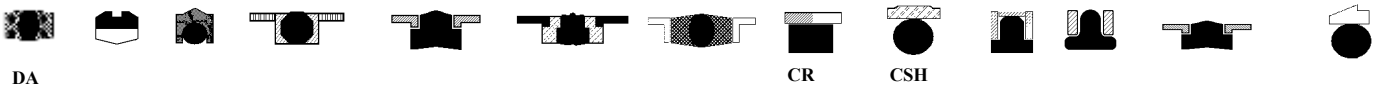
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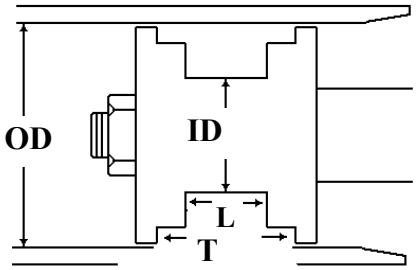
DA DAE | UNI | PSP | JTP | WDA | DAS | DAL | CR CN CAT | CSH CC TC / LC | SPGT | TRP | DS | CSS

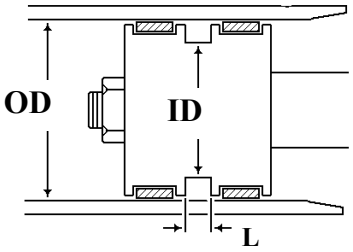
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CSI750CCICAT	7.5	6.595	0.629		CCI
CSI750CCICAT	7.5	6.595	0.629		CCI
CSI750CR	7.5	6.75	0.378		CR
CSI750CSH	7.5	6.754	0.378		CSH
CSI750SPGT	7.5	6.774	0.75		SPGT
CSI750TC	7.5	6.844	0.375		TC
CSI750CN	7.5	6.982	0.159		CN
CSI750TRP	7.5	7.024	0.366		TRP
CSI750IBTRP	7.5	7.024	0.475		TRP
CSI750WTRP	7.5	7.024	0.55		TRP
CSI775SPGTCA	7.75	6.844	0.635		SPGT
CSI775CRCAT	7.75	6.845	0.38		CR
CSI775CCICAT	7.75	6.845	0.629		CCI
CSI775CCICAT-	7.75	6.845	0.629		CCI
CSI775CCICAT	7.75	6.845	0.629		CCI
CSI775CR	7.75	7	0.378		CR
CSI775SPGT	7.75	7.021	0.75		SPGT
CSI775CN	7.75	7.232	0.159		CN
CSI775TRP	7.75	7.274	0.366		TRP
CSI775IBTRP	7.75	7.274	0.468		TRP
DAI800/2DAS	8	6.75	1.5	2.136	DAS
CSI800DA	8	6.75	1.625		DA
CSI800DAE	8	6.75	1.625		DAE
CSI800UNI	8	7	0.385		UNI
DAI800WDA	8	7	1.25	1.75	WDA
DAI800DAS	8	7	1.25	1.75	DAS
DAI800/1DAS	8	7	1.25	2	DAS
DAI800DAL	8	7	1.25	2	DAL
DAI800DASW	8	7	1.25	2.25	DAS
DAI800DS	8	7	1.25	2.25	DS
CSI800CSS	8	7.17	0.32		CSS
CSI800CRQ	8	7.17	0.352		CRQ
CSI800/54CR	8	7.174	0.32		CR
CSI800CCI	8	7.235	0.377		CCI
CSI800CRCAT	8	7.25	0.367		CR
CSI800CR	8	7.25	0.378		CR
DAI800JTP	8	7.25	0.765	1.765	JTP
CSI800CSH	8	7.254	0.378		CSH
CSI800SPGT	8	7.274	0.75		SPGT
CSI800LC	8	7.28	0.375		TC
CSI800TC	8	7.344	0.375		TC

PART#	OD	ID	L	T	TYPE
CSI800CN	8	7.482	0.159		CN
CSI800/1UNI	8	7.5	0.385		UNI
CSI800TRP	8	7.524	0.366		TRP
CSI825CRCAT	8.25	7.255	0.38		CR
CSI825CCICAT	8.25	7.255	0.629		CCI
CSI825CCICAT	8.25	7.255	0.629		CCI
CSI825SPGTCA	8.25	7.26	0.635		SPGT
CSI825CR	8.25	7.5	0.378		CR
CSI825CN	8.25	7.732	0.159		CN
CSI825TRP	8.25	7.774	0.366		TRP
CSI825IBTRP	8.25	7.774	0.468		TRP
CSI850CRCAT	8.5	7.505	0.38		CR
CSI850CCICAT	8.5	7.505	0.629		CCI
CSI850CCICAT	8.5	7.505	0.629		CCI
CSI850SPGTCA	8.5	7.51	0.635		SPGT
CSI850CCI	8.5	7.74	0.378		CCI
CSI850CR	8.5	7.75	0.378		CR
CSI850CSH	8.5	7.754	0.378		CSH
CSI850SPGT	8.5	7.771	0.75		SPGT
CSI850TC	8.5	7.844	0.375		TC
CSI850CN	8.5	7.982	0.159		CN
CSI850TRP	8.5	8.024	0.366		TRP
CSI853CCICAT	8.53	7.51	0.629		CCI
CSI875SPGT	8.75	8.021	0.75		SPGT
DAI900DAL	9	7.75	1.875	2	DAL
CSI900DA	9	8	1		DA
CSI900CR	9	8.137	0.378		CR
CSI900CSH	9	8.137	0.378		CSH
CSI900LC	9	8.17	0.375		TC
CSI900SPGT	9	8.271	0.75		SPGT
CSI900TC	9	8.344	0.375		TC
CSI900CN	9	8.482	0.159		CN
CSI900TRP	9	8.524	0.366		TRP
CSI925CRCAT	9.25	8.12	0.38		CR
CSI925CCICAT	9.25	8.255	0.379		CCI
CSI925CCICAT	9.25	8.255	0.379		CCI

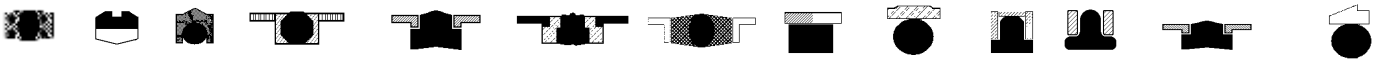
NB-- WHERE "T" IS NOT SHOWN ---- SEAL DOES NOT HAVE WEAR RINGS

DOUBLE ACTING ---- IMPERIAL----
X REFERENCE





NOMINAL SIZING ONLY - NOT INTENDED FOR MACHINING



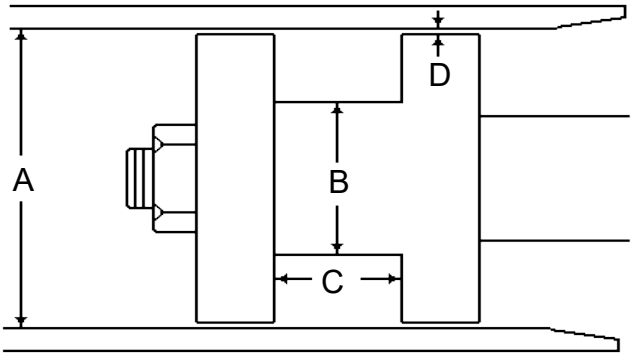
DA DAE | UNI | PSP | JTP | WDA | DAS | DAL | CR CN CAT | CSH CC TC / LC | SPGT | TRP | DS | CSS

PART#	OD	ID	L	T	TYPE
CSI928CCICAT	9.28	8.255	0.379		CCI
CSI950CR	9.5	8.637	0.378		CR
CSI950SPGT	9.5	8.771	0.75		SPGT
CSI950TC	9.5	8.844	0.375		TC
CSI950TRP	9.5	9.024	0.366		TRP
CSI1000CCICA	10	8.88	0.69		CCI
CSI1003CCICA	10	8.88	0.69		CCI
CSI1000CCICA	10	8.88	0.69		CCI
CSI1000SPGTC	10	8.898	0.693		CR
DAI1000DAL	10	9	1.25		DAL
CSI1000CSH	10	9.137	0.378		CSH
CSI1000CR	10	9.137	0.378		CR
CSI1000CRQ	10	9.17	0.375		CRQ
CSI1000SPGT	10	9.271	0.75		SPGT
CSI1000TC	10	9.344	0.375		TC
CSI1000CN	10	9.482	0.159		CN
CSI1000TRP	10	9.524	0.366		TRP
CSI1015CCICA	10.015	8.88	0.69		CCI
CSI1003CCICA	10.03	8.88	0.69		CCI
CSI1025CCICA	10.25	9.13	0.69		CCI
CSI1025CCICA	10.25	9.13	0.69		CCI
CSI1050CCICA	10.5	9.38	0.69		CCI
CSI1050CCICA	10.5	9.38	0.69		CCI
CSI1050SPGTC	10.5	9.398	0.693		SPGT
CSI1050CR	10.5	9.61	0.378		CR
CSI1050SPGT	10.5	9.775	0.75		SPGT
CSI1050TRP	10.5	10.024	0.366		TRP
CSI1053CCICA	10.53	9.38	0.69		CCI
CSI1053CCICA	10.53	9.38	0.69		CCI
CSI1100CCICA	11	9.88	0.69		CCI
CSI1100CCICA	11	9.88	0.69		CCI
CSI1100CR	11	10.137	0.378		CR
CSI1100SPGT	11	10.271	0.75		SPGT
CSI1100CN	11	10.482	0.159		CN
CSI1100TRP	11	10.524	0.366		TRP

PART#	OD	ID	L	T	TYPE
CSI1103CCICA	11.03	9.88	0.69		CCI
CSI1150CCICA	11.5	10.38	0.69		CCI
CSI1150SPGT	11.5	10.398	0.693		SPGT
CSI1150TRP	11.5	11.024	0.366		TRP
CSI1150WTRP	11.5	11.024	0.55		TRP
CSI1153CCICA	11.53	10.38	0.69		CCI
CSI1153CCICA	11.53	10.38	0.69		CCI
DAI1200DAL	12	10.75	1.875	2.625	DAL
CSI1200/1CR	12	11	0.375		CR
CSI1200CR	12	11.137	0.378		CR
CSI1200SPGT	12	11.271	0.75		SPGT
CSI1200TC	12	11.344	0.375		TC
CSI1200CN	12	11.482	0.159		CN
CSI1200TRP	12	11.524	0.366		TRP
CSI1200WTRP	12	11.524	0.55		TRP
CSI1250SPGT	12.5	11.775	0.75		SPGT
CSI1250IBTRP	12.5	12.024	0.475		TRP
CSI1250WTRP	12.5	12.024	0.55		TRP
CSI1300CCICA	13	11.88	0.629		CCI
CSI1300CCICA	13	11.88	0.69		CCI
CSI1300CR	13	12.137	0.378		CR
CSI1300SPGT	13	12.771	0.75		SPGT
CSI1400SPGT	14	13.271	0.75		SPGT
CSI1450SPGT	14.5	13.775	0.75		SPGT
CSI1500SPGT	15	14.271	0.75		SPGT

NB-- WHERE "T" IS NOT SHOWN ---- SEAL DOES NOT HAVE WEAR RINGS

DAE

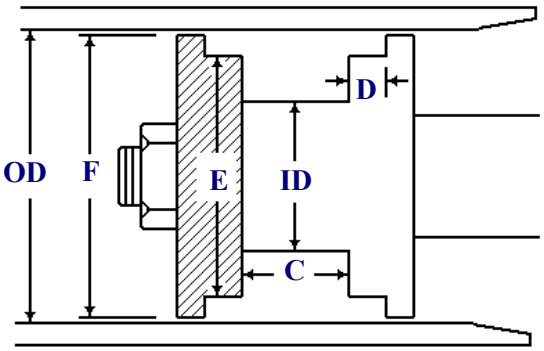




2 PIECE PISTON -- NITRILE RUBBER / FABRIC SEAL -- WITH ANTI EXTRUSION RINGS MEDIUM DUTY

PART #	A	B	C	D	
			+ / - 0.005	MAX EXTRUSION GAP	
CSI200DAE	2.000	1.375	0.770	10,000 psi	(0.012" /2) = 0.006"
CSI250DAE	2.500	1.875	0.770		
CSI300DAE	3.000	2.250	0.957		
CSI250DAE	3.500	2.750	0.957		
CSI400DAE	4.000	3.250	0.957		
CSI500DAE	5.000	4.000	1.270		
CSI500/1DAE	5.000	4.000	1.750		
CSI600DAE	6.000	5.000	1.270		
CSI800DAE	8.000	6.750	1.645		
CSM060DAE	60	45	22.5	METRIC	
CSM070DAE	70	55	22.5	METRIC	
CSM080DAE	80	65	22.5	METRIC	
CSM090DAE	90	70	30	METRIC	
CSM090DAE/1	90	75	19.5	METRIC	
CSM100DAE	100	80	30	METRIC	
CSM110DAE	110	90	30	METRIC	
CSM160DAE	160	135	25	METRIC	
CSM165DAE	165	140	32.5	METRIC	
CSM280DAE	280	255	25	METRIC	

WDA



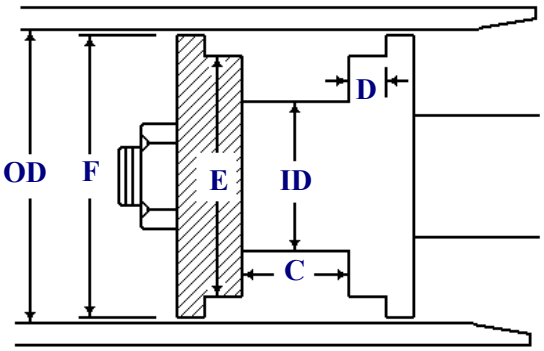


MEDIUM TO HEAVY DUTY

10,000 PSI

		+/- 0.004	+ 0.016 + 0.025	+ 0.004 -0.000	+/- 0.002	+/- 0.002
PART #	OD	ID	C	D	E	F
DAI100WDA	1	0.625	0.468	0.25	0.883	0.964
DAI112WDA	1.125	0.75	0.562	0.25	1.009	1.088
DAI125WDA	1.25	0.75	0.625	0.25	1.11	1.21
DAI137WDA	1.375	0.875	0.625	0.25	1.236	1.333
DAI150/1WDA	1.5	1	0.625	0.187	1.36	1.458
DAI150WDA	1.5	1	0.625	0.25	1.36	1.46
DAI162WDA	1.625	1	0.75	0.25	1.444	1.574
DAI162/1WDA	1.625	1.125	0.625	0.25	1.485	1.583
DAI200WDA	2	1.375	0.75	0.25	1.82	1.95
DAI212WDA	2.125	1.5	0.75	0.25	1.944	2.074
DAI225WDA	2.25	1.625	0.75	0.25	2.068	2.196
DAI237WDA	2.375	1.75	0.75	0.25	2.194	2.322
DAI250WDA	2.5	1.875	0.75	0.25	2.32	2.45
DAI275WDA	2.75	2	0.937	0.25	2.525	2.685
DAI287WDA	2.875	2.125	0.937	0.25	2.646	2.81
DAI300WDA	3	2.25	0.937	0.25	2.775	2.935
DAI300/1WDA	3	2.25	1.125	0.25	2.772	2.935
DAI312WDA	3.125	2.375	0.937	0.25	2.896	3.06
DAI325WDA	3.25	2.5	0.937	0.25	3.02	3.19
DAI350WDA	3.5	2.75	0.937	0.25	3.27	3.435
DAI362WDA	3.625	2.875	0.937	0.25	3.395	3.559
DAI375WDA	3.75	3	0.937	0.25	3.52	3.683
DAI387WDA	3.875	3.125	0.937	0.25	3.646	3.809
DAI400WDA	4	3.25	0.937	0.25	3.77	3.935
DAI425WDA	4.25	3.5	0.937	0.25	4.019	4.182
DAI450WDA	4.5	3.5	1.25	0.25	4.23	4.425
DAI450/1WDA	4.5	3.5	1.5	0.25	4.23	4.422
DAI475WDA	4.75	3.75	1.25	0.25	4.477	4.67
DAI500WDA	5	4	1.25	0.25	4.73	4.92

WDA



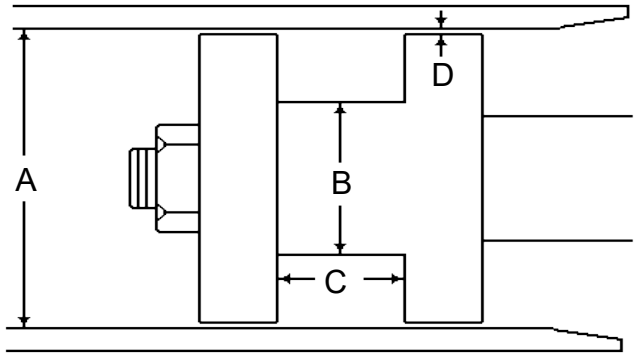


MEDIUM TO HEAVY DUTY

10,000 PSI

		+/- 0.004	+ 0.016 + 0.025	+ 0.004 -0.000	+/- 0.002	+/- 0.002
PART #	**OD**	**ID**	**C**	**D**	**E**	**F**
DAI550WDA	5.5	4.5	1.25	0.25	5.23	5.42
DAI575WDA	5.75	4.75	1.25	0.25	5.48	5.67
DAI600WDA	6	5	1.25	0.25	5.73	5.92
DAI650WDA	6.5	5.5	1.25	0.25	6.226	6.419
DAI700WDA	7	6	1.25	0.25	6.724	6.92
DAI800WDA	8	7	1.25	0.25	7.723	7.915

DA





TYPE *DAL* WITHOUT WEAR RINGS

1 PIECE DOUBLE ACTING SEAL
IMPERIAL SIZES - TWO PIECE PISTON

PART #	A	B	C +/- 0.005
DA 1000	1.000	0.625	0.472
DA 1125	1.125	0.625	0.520
DA 1500	1.500	1.000	0.645
DA 1625	1.625	1.000	0.770
DA 1750	1.750	1.125	0.770
DA 1875	1.875	1.250	0.770
DA 2000	2.000	1.375	0.770
DA 2250	2.250	1.625	0.770
DA 2375	2.375	1.750	0.770
DA 2500	2.500	1.875	0.770
DA 2625	2.625	2.000	0.770
DA 2750	2.750	2.000	0.957
DA 3000	3.000	2.250	0.957
DA 3125	3.125	2.375	0.957
DA 3250	3.250	2.500	0.957
DA 3375	3.375	2.625	0.957
DA 3500	3.500	2.750	0.957
DA 3750	3.750	3.000	0.957
DA 4000	4.000	3.250	0.957
DA 4250	4.250	3.500	0.957
DA 4500	4.500	3.500	1.270
DA 4750	4.750	3.750	1.270
DA 5000	5.000	4.000	1.270
DA 5250	5.250	4.250	1.270
DA 5500	5.500	4.500	1.270
DA 5750	5.750	4.750	1.270
DA 6000	6.000	5.000	1.270
DA 6250	6.250	5.250	1.270
DA 6500	6.500	5.500	1.270
DA 6750	6.750	5.750	1.270
DA 7000	7.000	6.000	1.270
DA 8000	8.000	7.000	1.030
DA 8000/1	8.000	6.750	1.270
DA 9000	9.000	7.750	1.645
DA 10000	10.000	9.000	1.030

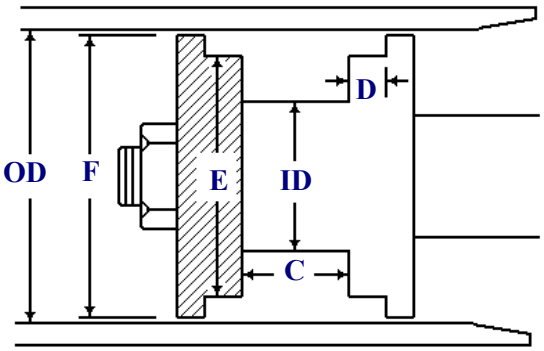
D MAX. EXTRUSION GAP	
PRESSURE	MAX. GAP
3750 psi	0.012
6000 psi	0.008
7500 psi	0.004

METRIC

DAM 20X12	20	12	10
DAM 30X20	30	20	12.5
DAM 42X30	42	30	6.3
DAM 50X40	50	35	19
DAM 60X40	60	40	25
DAM 70X50	70	50	25
DAM 80X60	80	60	25
DAM 90X70	90	70	25
DAM100X80	100	80	25
DAM 110X90	110	90	25
DAM 120X100	120	100	25
DAM 140X115	140	115	19
DAM 160X140	160	140	25

DESCRIPTION	MAX. PRESSURE
Fabric and rubber heavy duty seal. Two piece piston.	7,500 P.S.I.

DAL



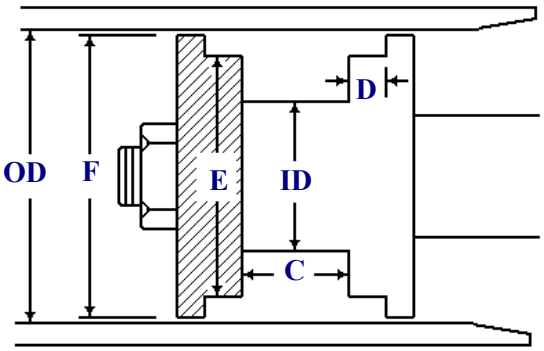


MEDIUM TO HEAVY DUTY

10,000 PSI

PART #	OD	ID +/- 0.004	C + 0.016 + 0.025	D + 0.004 -0.000	E +/- 0.002	F +/- 0.002
DAI100DAL	1	0.625	0.59	0.187	0.868	0.968
DAI112DAL	1.125	0.625	0.75	0.25	0.988	1.093
DAI125DAL	1.25	0.75	0.75	0.25	1.115	1.218
DAI137DAL	1.375	0.875	0.75	0.25	1.241	1.343
DAI150/1DAL	1.5	1	0.678	0.25	1.363	1.468
DAI150DAL	1.5	1	0.75	0.25	1.371	1.468
DAI162DAL	1.625	1	0.937	0.25	1.425	1.562
DAI175DAL	1.75	1.125	0.937	0.25	1.555	1.687
DAI187DAL	1.875	1.25	0.937	0.25	1.679	1.835
DAI200/1DAL	2	1.375	0.741	0.25	1.8	1.937
DAI200DAL	2	1.375	0.937	0.25	1.805	1.937
DAI225DAL	2.25	1.625	0.937	0.25	2.055	2.187
DAI237DAL	2.375	1.75	0.937	0.25	2.18	2.312
DAI250DAL	2.5	1.875	0.937	0.25	2.305	2.437
DAI262DAL	2.625	2	0.937	0.312	2.425	2.57
DAI275DAL	2.75	2	1.187	0.25	2.485	2.687
DAI300/1DAL	3	2.25	0.843	0.25	2.732	2.937
DAI300DAL	3	2.25	1.187	0.25	2.735	2.937
DAI312DAL	3.125	2.375	1.187	0.25	2.855	3.062
DAI325DAL	3.25	2.5	1.187	0.25	2.985	3.187
DAI337DAL	3.375	2.625	1.187	0.187	3.119	3.315
DAI350DAL	3.5	2.75	1.187	0.25	3.235	3.437
DAI375DAL	3.75	3	1.187	0.25	3.48	3.69
DAI400DAL	4	3.25	1.187	0.25	3.735	3.937
DAI425DAL	4.25	3.5	1.187	0.25	3.985	4.187
DAI450DAL	4.5	3.5	1.5	0.375	4.23	4.437
DAI475DAL	4.75	3.75	1.5	0.375	4.485	4.687
DAI500DAL-N	5	4	1.25	0.25	4.73	4.92
DAI500DAL	5	4	1.5	0.375	4.735	4.937

DAL



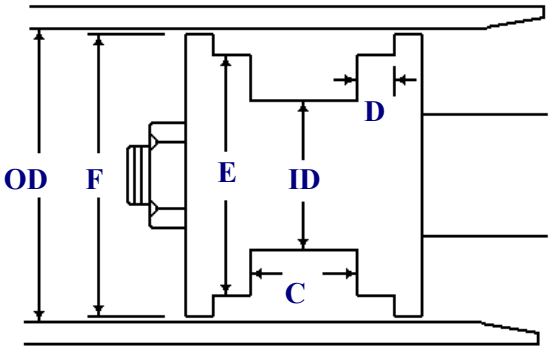


MEDIUM TO HEAVY DUTY

10,000 PSI

PART #	OD	+/- 0.004 ID	+ 0.016 + 0.025 C	+ 0.004 -0.000 D	+/- 0.002 E	+/- 0.002 F
DAI525DAL	5.25	4.25	1.5	0.375	4.99	5.187
DAI550DAL	5.5	4.5	1.5	0.375	5.235	5.437
DAI575DAL	5.75	4.75	1.5	0.375	5.48	5.687
DAI600DAL	6	5	1.5	0.375	5.736	5.937
DAI625DAL	6.25	5.25	1.5	0.375	5.98	6.187
DAI650DAL	6.5	5.5	1.5	0.375	6.236	6.437
DAI675DAL	6.75	5.75	1.5	0.375	6.48	6.687
DAI700DAL	7	6	1.5	0.375	6.736	6.937
DAI750DAL	7.5	6.25	1.875	0.375	7.24	7.437
DAI800DAL	8	7	1.25	0.375	7.74	7.937
DAI900DAL	9	7.75	1.875	0.375	8.736	8.937
DAI1000DAL	10	9	1.25	0.375	9.74	9.937
DAI1200DAL	12	10.75	1.875	0.375	11.74	11.937

DAS



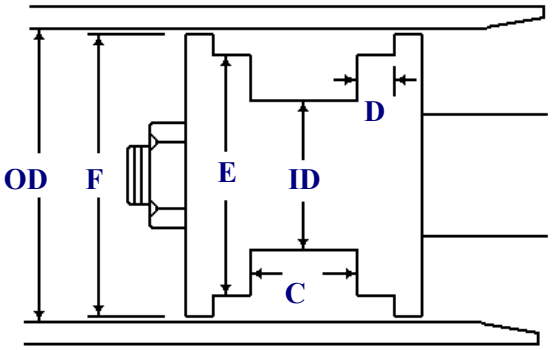


MEDIUM DUTY

5,800 PSI

PART #	OD	-0.003 +0.000 ID	+ 0.015 + 0.025 C	+/- 0.003 D	- 0.002 +0.000 E	+/- 0.008 F
DAI150DAS	1.5	1	0.625	0.25	1.36	1.458
DAI150/1DAS	1.5	1.125	0.437	0.15	1.324	1.437
DAI150PDO	1.5	1.125	0.445	0.152	1.325	1.47
DAI175/1DAS	1.75	1	0.75	0.25	1.57	1.694
DAI175DAS	1.75	1.125	0.75	0.25	1.57	1.694
DAI200/2DAS	2	1.375	0.69	0.25	1.82	1.949
DAI200DASK	2	1.375	0.75	0.25	1.82	1.949
DAI200DASS	2	1.375	0.75	0.25	1.82	1.949
DAI200DASN	2	1.625	0.437	0.15	1.82	1.949
DAI200PDO	2	1.625	0.437	0.152	1.82	1.951
DAI200/1DAS	2	1.625	0.49	0.25	1.888	1.949
DAI212DAS	2.125	1.5	0.75	0.25	1.94	2.07
DAI225DAS	2.25	1.625	0.75	0.25	2.069	2.2
DAI237DAS	2.375	1.75	0.75	0.25	2.194	2.322
DAI237DASN	2.375	2	0.437	0.145	2.195	2.317
DAI250DASK	2.5	1.875	0.75	0.25	2.319	2.445
DAI250DASS	2.5	1.875	0.75	0.25	2.319	2.445
DAI250DASN	2.5	2.125	0.437	0.15	2.319	2.445
DAI250PDO	2.5	2.125	0.445	0.152	2.32	2.444
DAI262DAS	2.625	2	0.75	0.25	2.444	2.569
DAI275DAS	2.75	2	0.937	0.25	2.522	2.69
DAI275DAS-W	2.75	2	1.375	0.375	2.46	2.654
DAI275/1DAS	2.75	2.25	0.66	0.25	2.57	2.71
DAI300DASK	3	2.25	0.937	0.25	2.771	2.933
DAI300DAS-S	3	2.25	0.937	0.25	2.771	2.933
DAI300/1DAS	3	2.375	0.75	0.25	2.794	2.92
DAI300DASN	3	2.625	0.437	0.15	2.819	2.937
DAI300PDO	3	2.625	0.44	0.152	2.82	2.933
DAI325DAS	3.25	2.5	0.937	0.25	3.021	3.19
DAI325/1DAS	3.25	2.625	0.775	0.25	3.021	3.184

DAS



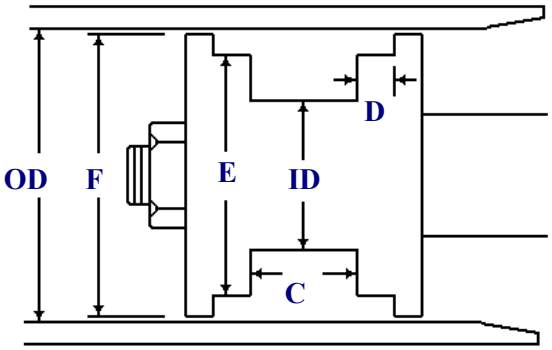


MEDIUM DUTY

5,800 PSI

		-0.003 +0.000	+ 0.015 + 0.025	+/- 0.003	- 0.002 +0.000	+/- 0.008
PART #	**OD**	**ID**	**C**	**D**	**E**	**F**
DAI350DASK	3.5	2.75	0.937	0.25	3.271	3.433
DAI350DASS	3.5	2.75	0.937	0.25	3.271	3.433
DAI350/2DAS	3.5	2.75	1.187	0.25	3.235	3.437
DAI350/1DAS	3.5	2.85	0.775	0.295	3.272	3.46
DAI350DASN	3.5	3	0.562	0.209	3.264	3.437
DAI350PDO	3.5	3	0.569	0.213	3.265	3.444
DAI362DASW	3.625	2.875	1.375	0.375	3.333	3.529
DAI375DAS	3.75	3	0.937	0.25	3.52	3.683
DAI400DASK	4	3.25	0.937	0.25	3.77	3.94
DAI400DASS	4	3.25	0.937	0.25	3.77	3.94
DAI400DASW	4	3.25	1.3	0.375	3.709	3.902
DAI400/1DAS	4	3.375	0.775	0.25	3.772	3.96
DAI400PDO	4	3.5	0.569	0.213	3.765	3.933
DAI425DAS	4.25	3.5	0.937	0.25	4.019	4.178
DAI450DASW	4.5	3.4	1.75	0.5	4.18	4.4
DAI450DAS	4.5	3.5	1.25	0.25	4.229	4.428
DAI500/2DAS	5	4	1.25	0.25	4.728	4.91
DAI500DAS	5	4	1.25	0.375	4.728	4.91
DAI500DASW	5	4	1.75	0.5	4.677	4.896
DAI500/1DAS	5	4.25	0.963	0.25	4.772	4.96
DAI525DAS	5.25	4.25	1.25	0.25	4.977	5.17
DAI550/1DAS	5.5	4.5	1.25	0.25	5.212	5.41
DAI550DAS	5.5	4.5	1.25	0.375	5.213	5.41
DAI600DAS	6	5	1.25	0.375	5.713	5.91
DAI600/1DAS	6	5	1.5	0.375	5.736	5.937
DAI600DASW	6	5	1.75	0.5	5.675	5.894
DAI650/1DAS	6.5	5.5	1.25	0.25	6.212	6.407
DAI650/2DAS	6.5	5.5	1.25	0.25	6.22	6.41
DAI650DAS	6.5	5.5	1.25	0.375	6.15	6.402
DAI700/1DAS	7	6	1.25	0.25	6.712	6.907

DAS





MEDIUM DUTY

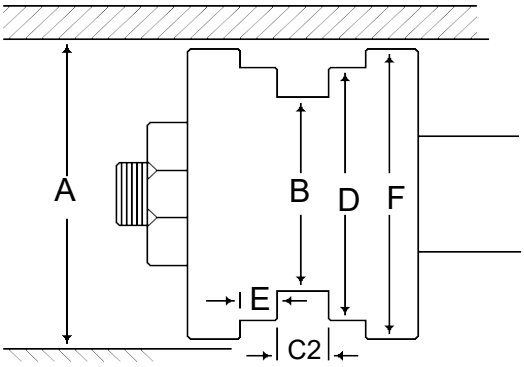
5,800 PSI

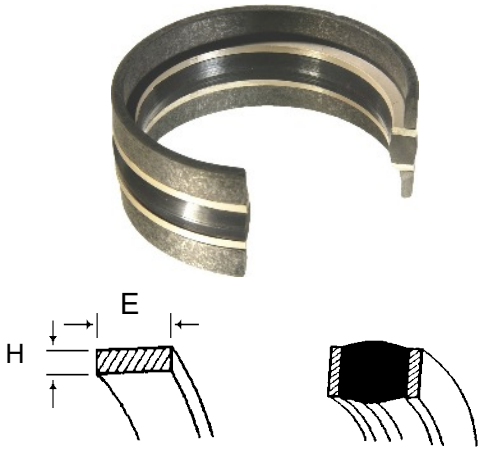
		-0.003 +0.000	+ 0.015 + 0.025	+/- 0.003	- 0.002 +0.000	+/- 0.008
PART #	**OD**	**ID**	**C**	**D**	**E**	**F**
DAI700DAS	7	6	1.25	0.375	6.712	6.909
DAI800/2DAS	8	6.75	1.5	0.315	7.69	7.92
DAI800DAS	8	7	1.25	0.25	7.723	7.915
DAI800/1DAS	8	7	1.25	0.375	7.723	7.915
DAI800DASW	8	7	1.25	0.5	7.675	7.902

JTP

DOUBLE ACTING -- MEDIUM DUTY

MAXIMUM 3,500 PSI

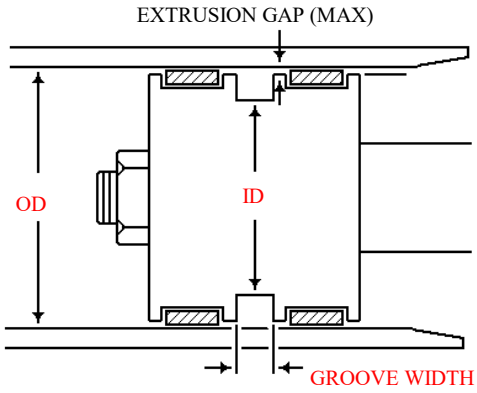




1 PIECE PISTON -- NITRILE RUBBER SEAL WITH BACKUPS AND BEARING RING

PART #	A	B +0.004 -0.004	C2 +0.015 +0.020	D +0.001 -0.001	E +0.005 -0.000	F +0.000 -0.010	H +0.000 -0.003
DAI112JTP	1.125	0.750	O.437	0.937	0.250	1.065	0.094
DAI125JTP	1.250	0.875	O.437	1.062	0.250	1.190	0.094
DAI137JTP	1.375	1.000	0.437	1.187	0.250	1.315	0.094
DAI150JTP	1.5	1.125	O.437	1.312	0.375	1.440	0.094
DAI150/1JTP	1.5	1.125	O.437	1.321	0.250	1.440	0.089
DAI175JTP	1.75	1.375	O.437	1.561	0.375	1.690	0.094
DAI187JTP	1.875	1.5	0.437	1.686	0.375	1.815	0.094
DAI200JTP	2	1.500	0.572	1.812	0.375	1.940	0.094
DAI200/1JTP	2	1.500	0.572	1.821	0.250	1.940	0.089
DAI225JTP	2.25	1.750	0.572	2.816	0.375	2.190	0.094
DAI250JTP	2.5	2.000	0.572	2.312	0.375	2.440	0.094
DAI250/1JTP	2.5	2.000	0.572	2.321	0.250	2.440	0.089
DAI275JTP	2.75	2.25	0.572	2.559	0.375	2.690	0.094
DAI300JTP	3	2.500	0.572	2.809	0.375	2.940	0.094
DAI300/1JTP	3	2.500	0.572	2.774	0.250	2.940	0.113
DAI325JTP	3.25	2.750	0.572	3.059	0.375	3.190	0.094
DAI350/1JTP	3.5	3.000	0.572	3.274	0.250	3.440	0.113
DAI350JTP	3.5	3.000	0.572	3.309	0.375	3.440	0.094
DAI375JTP	3.75	3.250	0.572	3.491	0.500	3.743	0.125
DAI400JTP	4	3.250	0.765	3.743	0.500	3.920	0.125
DA400/1JTP	4	3.250	0.765	3.773	0.250	3.920	0.113
DAI450JTP	4.5	3.750	0.765	4.241	0.500	4.420	0.125
DAI475JTP	4.75	4	0.765	4.491	0.500	4.670	0.125
DAI500JTP	5	4.250	0.765	4.741	0.500	4.920	0.125
DAI600JTP	6	5.250	0.765	5.741	0.500	5.920	0.125
DAI700JTP	7	6.250	0.765	6.741	0.500	6.920	0.125
DAI800JTP	8	7.250	0.765	7.741	0.500	7.920	0.125

UNI





EXTRUSION GAP (MAXIMUM)

UP TO 8000 PSI 0.010" /2 = 0.005"

10000 PSI 0.004" /2 = 0.002"

GROOVE WIDTH

-O.OOO" +0.015"

ONE PIECE PISTON -- MEDIUM DUTY

SINGLE PIECE ALL URETHANE DUAL DUROMETER DOUBLE ACTING PISTON SEAL

MOLY IMPREGNATED WEAR SURFACE WITH OIL GROOVE

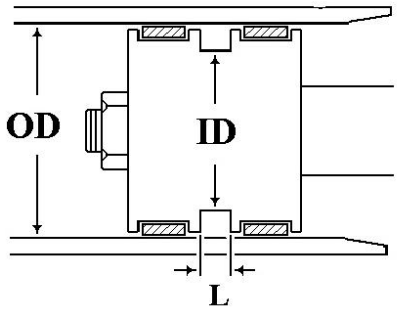
PART #	OD	ID	SEAL WIDTH	GROOVE WIDTH
CSI062UNI	0.625	0.375	0.175	0.184
CSI068UNI	0.687	0.437	0.175	0.184
CSI075UNI	0.75	0.5	0.175	0.184
CSI081UNI	0.812	0.562	0.175	0.184
CSI087UNI	0.875	0.625	0.175	0.184
CSI100UNI	1	0.75	0.175	0.184
CSI100/1UNI	1	0.75	0.187	0.196
CSI112UNI	1.125	0.875	0.175	0.184
CSI112/1UNI	1.125	0.875	0.187	0.196
CSI118UNI	1.187	0.937	0.175	0.184
CSI125UNI	1.25	1	0.175	0.184
CSI125/1UNI	1.25	1	0.178	0.187
CSI137UNI	1.375	1.125	0.175	0.184
CSI137/1UNI	1.375	1.125	0.187	0.196
CSI143UNI	1.437	1.187	0.175	0.184
CSI150UNI	1.5	1.25	0.175	0.184
CSI150/1UNI	1.5	1.25	0.187	0.196
CSI156UNI	1.562	1.312	0.175	0.184
CSI162UNI	1.625	1.375	0.175	0.184
CSI175UNI	1.75	1.5	0.175	0.184
CSI175/1UNI	1.75	1.5	0.187	0.196

PART #	OD	ID	SEAL WIDTH	GROOVE WIDTH
CSI187UNI	1.875	1.5	0.265	0.278
CSI187/1UNI	1.875	1.5	0.281	0.294
CSI187/2UNI	1.875	1.5	0.312	0.328
CSI187/3UNI	1.875	1.5	0.375	0.394
CSI200UNI	2	1.5	0.312	0.328
CSI200/1UNI	2	1.5	0.375	0.394
CSI200/6UNI	2	1.5	0.5	0.526
CSI200/2UNI	2	1.625	0.265	0.278
CSI200/3UNI	2	1.625	0.281	0.294
CSI200/4UNI	2	1.625	0.312	0.328
CSI200/5UNI	2	1.625	0.375	0.394
CSI200/7UNI	2	1.625	0.385	0.404
CSI212UNI	2.125	1.75	0.265	0.278
CSI212/1UNI	2.125	1.75	0.5	0.526
CSI225UNI	2.25	1.875	0.265	0.278
CSI225/1UNI	2.25	1.875	0.281	0.294
CSI225/2UNI	2.25	1.875	0.5	0.526
CSI237UNI	2.375	2	0.265	0.278
CSI237/1UNI	2.375	2	0.375	0.394
CSI250UNI	2.5	2	0.312	0.328
CSI250/1UNI	2.5	2	0.375	0.394
CSI250/7UNI	2.5	2	0.5	0.526
CSI250/2UNI	2.5	2.125	0.251	0.263
CSI250/3UNI	2.5	2.125	0.265	0.278
CSI250/4UNI	2.5	2.125	0.281	0.294
CSI250/5UNI	2.5	2.125	0.312	0.328
CSI250/6UNI	2.5	2.125	0.375	0.394
CSI250/8UNI	2.5	2.125	0.385	0.404

PART #	OD	ID	SEAL WIDTH	GROOVE WIDTH
CSI262UNI	2.625	2.25	0.265	0.278
CSI275UNI	2.75	2.375	0.265	0.278
CSI275/1UNI	2.75	2.375	0.281	0.294
CSI287UNI	2.875	2.5	0.265	0.278
CSI300/7UNI	3	2.38	0.14	0.23
CSI300/1UNI	3	2.5	0.375	0.394
CSI300/5UNI	3	2.5	0.5	0.526
CSI300UNI	3	2.5	0.543	0.569
CSI300/2UNI	3	2.625	0.265	0.278
CSI300/3UNI	3	2.625	0.281	0.294
CSI300/4UNI	3	2.625	0.312	0.328
CSI300/6UNI	3	2.625	0.385	0.404
CSI312UNI	3.125	2.75	0.265	0.278
CSI325UNI	3.25	2.75	0.375	0.394
CSI325/3UNI	3.25	2.75	0.5	0.526
CSI325/1UNI	3.25	2.875	0.265	0.278
CSI325/2UNI	3.25	2.875	0.312	0.328
CSI350UNI	3.5	3	0.375	0.394
CSI350/3UNI	3.5	3	0.5	0.526
CSI350/1UNI	3.5	3.125	0.265	0.278
CSI350/2UNI	3.5	3.125	0.281	0.294
CSI350/4UNI	3.5	3.125	0.312	0.328
CSI375/1UNI	3.75	3.375	0.265	0.278
CSI375UNI	3.75	3.375	0.281	0.294
CSI387UNI	3.875	3.5	0.281	0.294
CSI400/3UNI	4	3.25	0.5	0.526
CSI400UNI	4	3.3	0.251	0.263
CSI400/5UNI	4	3.5	0.312	0.328
CSI400/1UNI	4	3.5	0.375	0.394
CSI400/4UNI	4	3.625	0.265	0.278
CSI400/2UNI	4	3.625	0.281	0.294
CSI425UNI	4.25	3.75	0.338	0.354
CSI425/1UNI	4.25	3.875	0.281	0.294
CSI450/4UNI	4.5	3.88	0.14	0.23
CSI450UNI	4.5	4	0.375	0.394
CSI450/5UNI	4.5	4.125	0.265	0.278
CSI450/1UNI	4.5	4.125	0.281	0.294
CSI450/3UNI	4.5	4.125	0.375	0.394
CSI450/2UNI	4.5	4.125	0.4	0.419
CSI475UNI	4.75	4.375	0.281	0.294
CSI500UNI	5	4.5	0.375	0.394
CSI500/1UNI	5	4.625	0.265	0.278
CSI550UNI	5.5	5	0.375	0.394
CSI600/1UNI	6	5.5	0.348	0.364
CSI600UNI	6	5.5	0.375	0.394

PART #	OD	ID	SEAL WIDTH	GROOVE WIDTH
CSI650UNI	6.5	6	0.375	0.394
CSI700UNI	7	6.5	0.348	0.364
CSI800UNI	8	7	0.366	0.385
CSI800/1UNI	8	7.5	0.366	0.385

CAST IRON PISTON RINGS



GROOVE WIDTH



ABILITY TO MOVE OVER PORTS

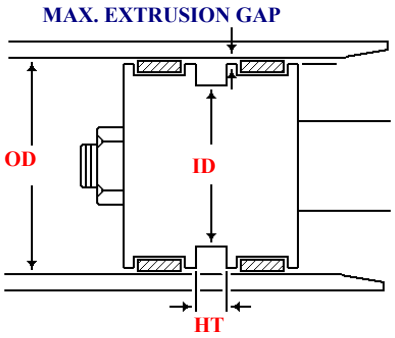
2 or 3 SEALS REQUIRED FOR A TOTAL SEAL

INTENDED FOR IDENTIFICATION -- ENQUIRE WHEN MACHINING

PART #	OD	C/S	L
CPS100125	1	0.055	0.125
CPS150125	1.5	0.067	0.125
CPS150187	1.5	0.067	0.187
CPS175125	1.75	0.075	0.125
CPS175125/1	1.75	0.075	0.125
CPS175187	1.75	0.075	0.187
CPS200125	2	0.075	0.125
CPS200187	2	0.075	0.187
CPS225187	2.25	0.085	0.187
CPS225250	2.25	0.085	0.25
CPS250125/1	2.5	0.097	0.125
CPS250187/1	2.5	0.097	0.187
CPS250250	2.5	0.097	0.25
CPS275125	2.75	0.106	0.125
CPS300125	3	0.11	0.125
CPS300187	3	0.11	0.187
CPS300250	3	0.11	0.25
CPS337156	3.375	0.118	0.156
CPS350125	3.5	0.124	0.125
CPS350250	3.5	0.124	0.25
CPS400250	4	0.142	0.25
CPS400312	4	0.142	0.312
CPS425250	4.25	0.15	0.25
CPS450250	4.5	0.16	0.25
CPS450312	4.5	0.16	0.312

PART #	OD	C/S	L
CPS475250	4.75	0.167	0.25
CPS500187	5	0.175	0.187
CPS500250	5	0.175	0.25
CPS500312	5	0.175	0.312
CPS550187	5.5	0.19	0.187
CPS550250	5.5	0.19	0.25
CPS550312	5.5	0.19	0.312
CPS575250	5.75	0.19	0.25
CPS575312	5.75	0.199	0.312
CPS600250	6	0.206	0.25
CPS600312	6	0.206	0.312
CPS650312	6.5	0.226	0.312
CPS700250	7	0.243	0.25
CPS700312	7	0.243	0.312
CPS750312	7.5	0.259	0.312
CPS775312	7.75	0.267	0.312
CPS800312	8	0.275	0.312
CPS850312	8.5	0.29	0.312
CPS900375	9	0.309	0.375
CPS950312	9.5	0.32	0.312
CPS1000375	10	0.332	0.375
CPS1200375	12	0.401	0.375
CPS1700630	17		0.63

TRP





3 PIECE DOUBLE ACTING PISTON SEAL

NITRILE RUBBER SEAL WITH BACKUPS --ONE PIECE PISTON

MAXIMUM 3000 PSI

LIGHT DUTY

MAX. EXTRUSION GAP /2

OD < 2" "0.005 ---OD <5" "0.007 ---OD>5" "0.009"

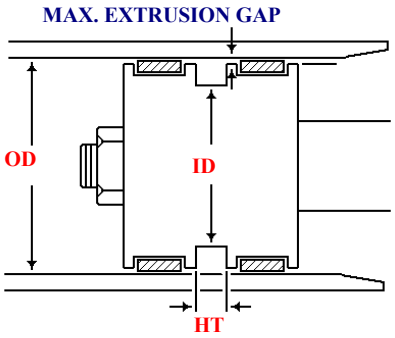
ID -0.000 +0.002

HT -0.000 +0.005

PART #	OD	ID	HT
CSI037IBTRP	0.375	0.19	0.152
CSI043IBTRP	0.437	0.252	0.152
CSI050IBTRP	0.5	0.315	0.152
CSI056IBTRP	0.562	0.317	0.187
CSI062IBTRP	0.625	0.38	0.187
CSI068IBTRP	0.687	0.442	0.187
CSI075IBTRP	0.75	0.505	0.187
CSI081IBTRP	0.812	0.567	0.187
CSI087TRP	0.875	0.63	0.187
CSI100TRP	1	0.756	0.187
CSI106TRP	1.062	0.818	0.187
CSI112TRP	1.125	0.881	0.187
CSI118TRP	1.187	0.943	0.187
CSI125TRPL	1.25	1	0.185
CSI125TRP	1.25	1.006	0.187
CSI131TRP	1.312	1.068	0.187
CSI137TRP	1.375	1.131	0.187
CSI143TRP	1.437	1.193	0.187
CSI150TRPV	1.5	1.25	0.187
CSI150TRP	1.5	1.256	0.187
CSI156TRP	1.562	1.318	0.187
CSI162TRP	1.625	1.381	0.187
CSI168TRP	1.687	1.443	0.187
CSI175TRP	1.75	1.506	0.187
CSI187TRP	1.875	1.502	0.28

PART #	OD	ID	HT
CSI200TRPL	2	1.625	0.28
CSI200TRP	2	1.627	0.282
CSI212TRP	2.125	1.752	0.28
CSI225TRP	2.25	1.877	0.282
CSI237TRP	2.375	2.002	0.28
CSI250TRPL	2.5	2.125	0.28
CSI250TRP	2.5	2.127	0.28
CSI262TRP	2.625	2.252	0.28
CSI275TRP	2.75	2.377	0.28
CSI287TRP	2.875	2.502	0.28
CSI287WTRP	2.875	2.502	0.405
CSI300TRP	3	2.627	0.28
CSI312TRP	3.125	2.752	0.28
CSI325TRP	3.25	2.877	0.28
CSI325WTRP	3.25	2.877	0.405
CSI337TRP	3.375	3.002	0.28
CSI350TRPL	3.5	3.125	0.282
CSI350TRP	3.5	3.128	0.28
CSI350WTRP	3.5	3.128	0.405
CSI362TRP	3.625	3.253	0.28
CSI375TRP	3.75	3.378	0.28
CSI387TRP	3.875	3.503	0.28
CSI400TRP	4	3.628	0.28
CSI400WTRP	4	3.628	0.405
CSI412TRP	4.125	3.753	0.28

TRP





3 PIECE DOUBLE ACTING PISTON SEAL

MAXIMUM 3000 PSI

NITRILE RUBBER SEAL WITH BACKUPS --ONE PIECE PISTON

LIGHT DUTY

MAX. EXTRUSION GAP /2

OD < 2" "0.005 ---OD <5" "0.007 ---OD>5" "0.009"

ID	-0.000	+0.002

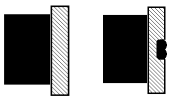
HT	-0.000	+0.005

PART #	OD	ID	HT
CSI425TRP	4.25	3.878	0.28
CSI437TRP	4.375	4.003	0.28
CSI450TRP	4.5	4.128	0.28
CSI462TRP	4.625	4.253	0.28
CSI475TRP	4.75	4.378	0.28
CSI487TRP	4.875	4.503	0.28
CSI500/1TRP	5	4.503	0.366
CSI500IBTRP	5	4.503	0.469
CSI500WTRP	5	4.503	0.55
CSI500TRP	5	4.629	0.28
CSI512TRP	5.125	4.649	0.366
CSI525TRP	5.25	4.774	0.366
CSI537TRP	5.375	4.889	0.366
CSI550TRP	5.5	5.024	0.366
CSI550WTRP	5.5	5.024	0.55
CSI562TRP	5.625	5.149	0.366
CSI575TRP	5.75	5.274	0.366
CSI587TRP	5.875	5.399	0.366
CSI600TRP	6	5.524	0.366
CSI600WTRP	6	5.524	0.55
CSI612TRP	6.125	5.649	0.366
CSI625TRP	6.25	5.774	0.366
CSI650TRP	6.5	6.024	0.366
CSI650IBTRP	6.5	6.024	0.475
CSI650WTRP	6.5	6.024	0.55

PART #	OD	ID	HT
CSI675TRP	6.75	6.274	0.366
CSI700TRP	7	6.524	0.366
CSI700IBTRP	7	6.524	0.475
CSI700WTRP	7	6.524	0.55
CSI725TRP	7.25	6.774	0.366
CSI750TRP	7.5	7.024	0.366
CSI750IBTRP	7.5	7.024	0.475
CSI750WTRP	7.5	7.024	0.55
CSI775TRP	7.75	7.274	0.366
CSI775IBTRP	7.75	7.274	0.468
CSI800TRP	8	7.524	0.366
CSI825TRP	8.25	7.774	0.366
CSI825IBTRP	8.25	7.774	0.468
CSI850TRP	8.5	8.024	0.366
CSI900TRP	9	8.524	0.366
CSI950TRP	9.5	9.024	0.366
CSI1000TRP	10	9.524	0.366
CSI1050TRP	10.5	10.024	0.366
CSI1100TRP	11	10.524	0.366
CSI1150TRP	11.5	11.024	0.366
CSI1150WTRP	11.5	11.024	0.55
CSI1200TRP	12	11.524	0.366
CSI1200WTRP	12	11.524	0.55
CSI1250IBTRP	12.5	12.024	0.475
CSI1250WTRP	12.5	12.024	0.55

CR

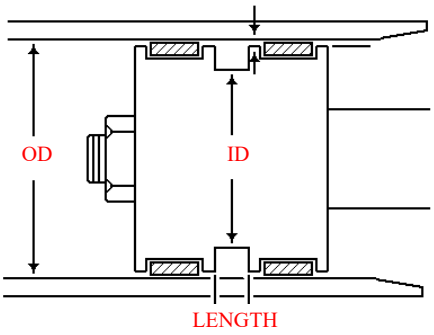
1 PIECE PISTON SEAL



HEAVY / MEDIUM DUTY

5000 PSI

EXTRUSION GAP



FILLED PTFE CAP

NITRILE RUBBER ENERGISED

ENERGISER MAYBE RECTANGULAR ,ROUND OR OVAL

MAX EXTRUSION GAP -- 0.015" /2 = 0.0075"



CR -- PLAN CAP



CRQ -- QUAD RING EMBEDED INTO CAP

PART#	OD	ID +/- 0.002"'	LENGTH +/- 0.002"'
CSI100CR	1	0.691	0.129
CSI100/54CR	1	0.704	0.125
CSI125CR	1.25	0.941	0.129
CSI150CRQ	1.5	0.884	0.271
CSI150/1/54CR	1.5	0.95	0.24
CSI150CR	1.5	1.191	0.129
CSI150/54CR	1.5	1.204	0.125
CSI175CR	1.75	1.441	0.129
CSI200CRQ	2	1.384	0.271
CSI200/54CR	2	1.568	0.165
CSI200CRCAT	2	1.625	0.192
CSI200CR	2	1.691	0.129
CSI225CRQ	2.25	1.63	0.29
CSI225CRCAT	2.25	1.875	0.18
CSI225CR	2.25	1.941	0.129
CSI250CRQ	2.5	1.884	0.271
CSI250/1/54CR	2.5	1.889	0.25
CSI250/54CR	2.5	2.068	0.165
CSI250/1CR	2.5	2.11	0.205

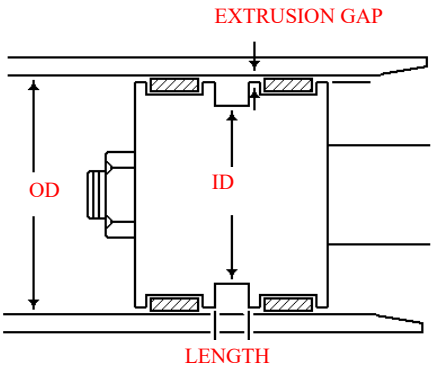
PART#	OD	ID +/- 0.002"'	LENGTH +/- 0.002"'
CSI250CRCAT	2.5	2.125	0.192
CSI250CR	2.5	2.191	0.129
CSI275/1CR	2.75	2.19	0.284
CSI275/54CR	2.75	2.326	0.165
CSI275CRCAT	2.75	2.375	0.192
CSI275CR	2.75	2.441	0.129
CSI300CRQ	3	2.384	0.271
CSI300CR	3	2.444	0.283
CSI300CRCAT	3	2.46	0.192
CSI300/54CR	3	2.568	0.165
CSI325CRQ	3.25	2.634	0.288
CSI325/54CR	3.25	2.64	0.25
CSI325CRCAT	3.25	2.71	0.192
CSI325CR	3.25	2.712	0.283
CSI350CRQ	3.5	2.884	0.271
CSI350/54CR	3.5	2.89	0.25
CSI350CRCAT	3.5	2.96	0.192
CSI350CR	3.5	2.962	0.283
CSI350/1CR	3.5	3	0.172
CSI350/3CR	3.5	3.06	0.15
CSI350/2CR	3.5	3.07	0.175

PART#	OD +/- 0.002'''	ID +/- 0.002'''	LENGTH
CSI375CRCAT	3.75	3.21	0.192
CSI375CR	3.75	3.212	0.283
CSI375/1CR	3.75	3.35	0.16
CSI400CRCAT	4	3.21	0.243
CSI400CRQ	4	3.384	0.271
CSI400/54CR	4	3.39	0.25
CSI400CR	4	3.462	0.283
CSI425CRCAT	4.25	3.585	0.255
CSI425CR	4.25	3.712	0.283
CSI450/1CR	4.5	2.94	0.375
CSI450CRCAT	4.5	3.835	0.255
CSI450/54CR	4.5	3.87	0.25
CSI450CRQ	4.5	3.884	0.288
CSI450/2CR	4.5	3.94	0.31
CSI450CR	4.5	3.962	0.283
CSI475/3CR	4.75	3.875	0.293
CSI475/1CR	4.75	4	0.226
CSI475CRCAT	4.75	4.085	0.255
CSI475CRQ	4.75	4.134	0.288
CSI475CR	4.75	4.212	0.283
CSI500CRCAT	5	4.225	0.38
CSI500CRQ	5	4.384	0.288
CSI500/54CR	5	4.39	0.25
CSI500CR	5	4.462	0.283
CSI500/1CR	5	4.53	0.19
CSI525CRCAT	5.25	4.475	0.38
CSI525CR	5.25	4.504	0.378
CSI550CRQ	5.5	4.66	0.352
CSI550CRCAT	5.5	4.725	0.38
CSI550CR	5.5	4.75	0.378
CSI575CRCAT	5.75	4.98	0.38
CSI575CR	5.75	5	0.378
CSI600/1CRQ	6	5.042	0.3
CSI600CRCAT	6	5.095	0.38
CSI600CRQ	6	5.16	0.352
CSI600/54CR	6	5.174	0.32
CSI600CR	6	5.25	0.378
CSI625CRCAT	6.25	5.345	0.38
CSI625CR	6.25	5.5	0.378
CSI650CRCAT	6.5	5.595	0.38
CSI650CRQ	6.5	5.66	0.352
CSI650CR	6.5	5.75	0.378
CSI675CR	6.75	6	0.378
CSI700CRCAT	7	6.095	0.38
CSI700CRQ	7	6.17	0.352
CSI700/54CR	7	6.174	0.32
CSI700CR	7	6.25	0.378

PART#	OD +/- 0.002'''	ID +/- 0.002'''	LENGTH
CSI725CRCAT	7.25	6.345	0.38
CSI725CR	7.25	6.5	0.378
CSI750CRCAT	7.5	6.595	0.38
CSI750CR	7.5	6.75	0.378
CSI775CRCAT	7.75	6.845	0.38
CSI775CR	7.75	7	0.378
CSI800CRQ	8	7.17	0.352
CSI800/54CR	8	7.174	0.32
CSI800CRCAT	8	7.25	0.367
CSI800CR	8	7.25	0.378
CSI825CRCAT	8.25	7.255	0.38
CSI825CR	8.25	7.5	0.378
CSI850CRCAT	8.5	7.505	0.38
CSI850CR	8.5	7.75	0.378
CSI900CR	9	8.137	0.378
CSI925CRCAT	9.25	8.12	0.38
CSI950CR	9.5	8.637	0.378
CSI1000CR	10	9.137	0.378
CSI1000CRQ	10	9.17	0.375
CSI1050CR	10.5	9.61	0.378
CSI1100CR	11	10.137	0.378
CSI1200/1CR	12	11	0.375
CSI1200CR	12	11.137	0.378
CSI1300CR	13	12.137	0.378

CSH

1 PIECE PISTON SEAL



URETHANE CAP

LIGHT / MEDIUM DUTY

5000 PSI

RING ENERGISED



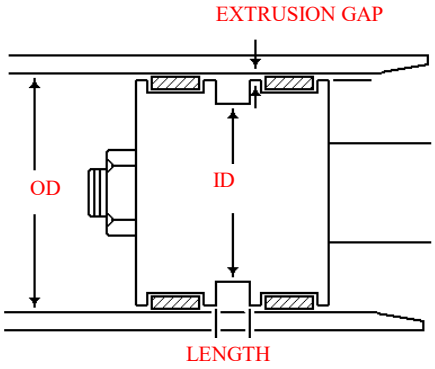
MAX EXTRUSION GAP -- 0.015" /2 =0.075"

PART #	OD	ID +/- 0.002"'	LENGTH +/- 0.002"'
CSI100CSH	1	0.691	0.129
CSI125CSH	1.25	0.941	0.129
CSI150CSH	1.5	1.191	0.129
CSI150/1CSH	1.5	1.26	0.19
CSI175CSH/1	1.75	1.132	0.441
CSI175CSH	1.75	1.441	0.129
CSI200/1CSH	2	1.63	0.281
CSI200CSH	2	1.691	0.129
CSI225CSH	2.25	1.941	0.129
CSI250/1CSH	2.5	1.962	0.283
CSI250/2CSH	2.5	2.13	0.281
CSI250CSH	2.5	2.191	0.129
CSI275CSH	2.75	2.441	0.129
CSI300CSH	3	2.444	0.283
CSI325CSH	3.25	2.712	0.283
CSI350CSH	3.5	2.962	0.283
CSI350/1CSH	3.5	3.13	0.281
CSI350/2CSH	3.5	3.13	0.41
CSI375CSH	3.75	3.212	0.283
CSI400CSH	4	3.462	0.283
CSI400/2CSH	4	3.63	0.41
CSI425CSH	4.25	3.712	0.283
CSI450CSH	4.5	3.962	0.283
CSI475CSH	4.75	4.212	0.283
CSI500CSH	5	4.462	0.283

PART #	OD	ID +/- 0.002"'	LENGTH +/- 0.002"'
CSI525CSH	5.25	4.504	0.378
CSI550CSH	5.5	4.754	0.378
CSI600CSH	6	5.254	0.378
CSI625CSH	6.25	5.504	0.378
CSI650CSH	6.5	5.754	0.378
CSI700CSH	7	6.254	0.378
CSI750CSH	7.5	6.754	0.378
CSI800CSH	8	7.254	0.378
CSI850CSH	8.5	7.754	0.378
CSI900CSH	9	8.137	0.378
CSI1000CSH	10	9.137	0.378

CN

1 PIECE PISTON SEAL



LIGHT / MEDIUM DUTY

3000 PSI

O RING ENERGISED

CAP-- PTFE or Thermoplastic



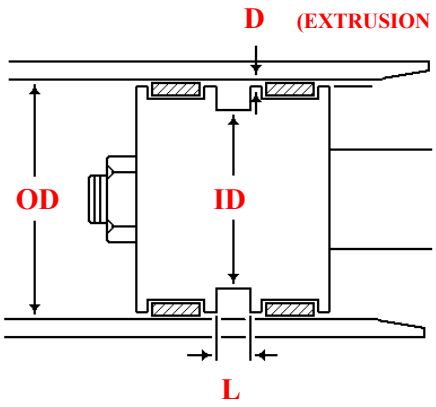
MAX EXTRUSION GAP --0.006" /2 = 0.003"

PART #	OD	ID +/- 0.002"'	LENGTH +/- 0.002"'
CSI075CN	0.75	0.49	0.083
CSI087CN	0.875	0.616	0.083
CSI100CN	1	0.74	0.083
CSI112CN	1.125	0.865	0.083
CSI125CN	1.25	0.99	0.083
CSI137CN	1.375	1.116	0.083
CSI150CN	1.5	1.24	0.083
CSI156CN	1.562	1.172	0.122
CSI162CN	1.625	1.235	0.122
CSI175CN	1.75	1.36	0.122
CSI187CN	1.875	1.485	0.122
CSI200/2CN	2	1.567	0.157
CSI200CN	2	1.606	0.129
CSI212CN	2.125	1.731	0.129
CSI225CN	2.25	1.856	0.129
CSI237CN	2.375	1.981	0.129
CSI250CN	2.5	2.106	0.129
CSI275/2CN	2.75	2.353	0.157
CSI275CN	2.75	2.356	0.129
CSI300/1CN	3	2.603	0.157
CSI300CN	3	2.606	0.129
CSI325/1CN	3.25	2.853	0.157
CSI325CN	3.25	2.856	0.129
CSI350/1CN	3.5	3.103	0.157
CSI350CN	3.5	3.106	0.129
CSI375/1CN	3.75	3.353	0.157
CSI375CN	3.75	3.356	0.129
CSI400/1CN	4	3.603	0.157
CSI400CN	4	3.606	0.129
CSI425/1CN	4.25	3.853	0.157
CSI425CN	4.25	3.856	0.129

PART #	OD	ID +/- 0.002"'	LENGTH +/- 0.002"'
CSI450/1CN	4.5	4.103	0.157
CSI450CN	4.5	4.106	0.129
CSI475/1CN	4.75	4.353	0.157
CSI475CN	4.75	4.356	0.129
CSI500/2CN	5	4.503	0.157
CSI500CN	5	4.606	0.129
CSI500/1CN	5	4.606	0.13
CSI525CN	5.25	4.856	0.129
CSI550CN	5.5	5.106	0.129
CSI575CN	5.75	5.232	0.159
CSI600CN	6	5.482	0.159
CSI625CN	6.25	5.732	0.16
CSI650CN	6.5	5.982	0.159
CSI675CN	6.75	6.232	0.159
CSI700CN	7	6.482	0.159
CSI725CN	7.25	6.732	0.159
CSI750CN	7.5	6.982	0.159
CSI775CN	7.75	7.232	0.159
CSI800CN	8	7.482	0.159
CSI825CN	8.25	7.732	0.159
CSI850CN	8.5	7.982	0.159
CSI900CN	9	8.482	0.159
CSI1000CN	10	9.482	0.159
CSI1100CN	11	10.482	0.159
CSI1200CN	12	11.482	0.159

SPGT

ONE PIECE PISTON





EXTRA HEAVY DUTY

RUBBER ENERGISED

BRONZE FILLED PTFE CAP

WITH BACKUP RINGS

CATERPILLAR SIZES--(SPGTI CAT) INTENDED AS IDENTIFICATION GUIDE ONLY

MAXIMUM PRESSURE 7,600 PSI

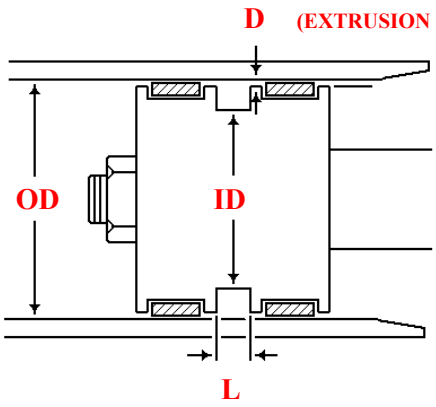
D--(MAX EXTRUSION GAP) 0.012" /2 = 0.006"

PART #	OD	ID	L
CSI150SPGT	1.50	1.125	0.424
CSI175SPGT	1.75	1.375	0.424
CSI200SPGT	2.00	1.625	0.424
CSI225SPGT	2.25	1.875	0.424
CSI250SPGT	2.50	2.125	0.424
CSI275SPGT	2.75	2.375	0.424
CSI300/2SPGT	3.00	2.440	0.425
CSI300SPGT	3.00	2.522	0.579
CSI300/1SPGT	3.00	2.522	0.579
CSI325SPGT	3.25	2.772	0.579
CSI350SPGT	3.50	3.022	0.579
CSI375SPGT	3.75	3.270	0.579
CSI400/2SPGT	4.00	3.440	0.424
CSI400/1SPGT	4.00	3.522	0.579
CSI400SPGT	4.00	3.522	0.579
CSI400SPGT-H	4.00	3.522	0.579
CSI425SPGT	4.25	3.772	0.579
CSI450SPGTCAT	4.50	3.830	0.497
CSI450SPGT	4.50	4.020	0.579
CSI475SPGT	4.75	4.270	0.579
CSI500/1SPGT	5.00	4.094	0.630
CSI500SPGTCAT	5.00	4.230	0.635

PART #	OD	ID	L
CSI500SPGT	5.00	4.274	0.750
CSI500SPGT-H	5.00	4.274	0.750
CSI525SPGT	5.25	4.521	0.750
CSI550SPGTCAT	5.50	4.730	0.635
CSI550SPGT	5.50	4.770	0.750
CSI550/1SPGT	5.50	5.021	0.579
CSI575SPGT	5.75	5.021	0.750
CSI600SPGTCAT	6.00	5.094	0.635
CSI600SPGT-H	6.00	5.274	0.750
CSI600SPGT	6.00	5.274	0.750
CSI625SPGTCAT	6.25	5.344	0.635
CSI625SPGT	6.25	5.524	0.750
CSI650SPGTCAT	6.50	5.594	0.635
CSI650SPGT	6.50	5.774	0.750
CSI675SPGT	6.75	6.021	0.750
CSI700SPGTCAT	7.00	6.094	0.635
CSI700SPGT	7.00	6.274	0.750
CSI725SPGTCAT	7.25	6.344	0.635
CSI725SPGT	7.25	6.524	0.750
CSI750SPGTCAT	7.50	6.594	0.635
CSI750SPGT	7.50	6.774	0.750
CSI775SPGTCAT	7.75	6.844	0.635
CSI775SPGT	7.75	7.021	0.750
CSI800SPGT	8.00	7.274	0.750

SPGT

ONE PIECE PISTON





EXTRA HEAVY DUTY

RUBBER ENERGISED

BRONZE FILLED PTFE CAP

WITH BACKUP RINGS

CATERPILLAR SIZES--(SPGTI CAT)
INTENDED AS IDENTIFICATION GUIDE ONLY

MAXIMUM PRESSURE 7,600 PSI

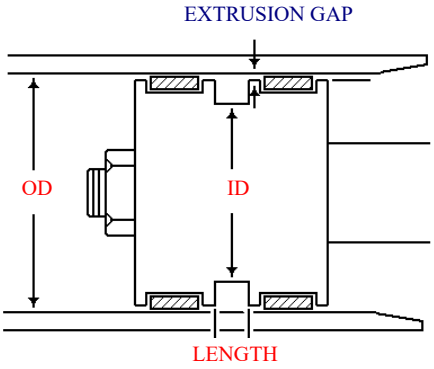
D--(MAX EXTRUSION GAP) 0.012" /2 = 0.006"

PART #	OD	ID	L
CSI825SPGTCAT	8.25	7.260	0.635
CSI850SPGTCAT	8.50	7.510	0.635
CSI850SPGT	8.50	7.771	0.750
CSI875SPGT	8.75	8.021	0.750
CSI900SPGT	9.00	8.271	0.750
CSI950SPGT	9.50	8.771	0.750
CSI1000SPGTCAT	10.00	8.898	0.693
CSI1000SPGT	10.00	9.271	0.750
CSI1050SPGTCAT	10.50	9.398	0.693
CSI1050SPGT	10.50	9.775	0.750
CSI1100SPGT	11.00	10.271	0.750
CSI1150SPGT	11.50	10.398	0.693
CSI1200SPGT	12.00	11.271	0.750
CSI1250SPGT	12.50	11.775	0.750
CSI1300SPGT	13.00	12.771	0.750
CSI1400SPGT	14.00	13.271	0.750
CSI1450SPGT	14.50	13.775	0.750
CSI1500SPGT	15.00	14.271	0.750

PART #	OD	ID	L

CCI

1 PIECE PISTON SEAL



HEAVY DUTY

10,000 PSI

NITRILE RUBBER ENERGISED

THERMOPLASTIC CAP



EASY INSTALLATION -- SPLIT CAP

SHOCK RESISTANT

PASSES OVER PORTS (75% OF SEAL LENGTH)

REPLACES MULTIPLE CAST IRON RINGS

MAX EXTRUSION GAP -- 0.015" /2 = 0.0075"

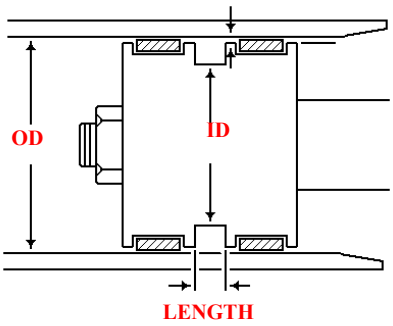
PART #	OD -0.000 +0.005	ID -0.000 +0.005	LENGTH -0.000 +0.002
CSI150/1CCI	1.5	0.89	0.25
CSI150CCI	1.5	0.957	0.282
CSI175CCI	1.75	1.14	0.25
CSI200CCI	2	1.457	0.282
CSI200/3CCI	2	1.625	0.281
CSI250CCI	2.5	1.957	0.312
CSI250/2CCI	2.5	1.962	0.283
CSI250/3CCI	2.5	2.125	0.281
CSI275CCI	2.75	2.212	0.282
CSI275/3CCI	2.75	2.38	0.281
CSI300CCI	3	2.437	0.282
CSI300/1CCI	3	2.437	0.312
CSI300/3CCI	3	2.625	0.281
CSI325CCI	3.25	2.687	0.312
CSI325/1CCI	3.25	2.692	0.282
CSI325/3CCI	3.25	2.88	0.281
CSI350CCI	3.5	2.937	0.282
CSI350/1CCI	3.5	2.937	0.312
CSI350CCICATG	3.5	2.96	0.192
CSI350CCICAT	3.5	2.96	0.192
CSI350/3CCI	3.5	3.125	0.281
CSI354CCI	3.543	2.957	0.492
CSI375CCI	3.75	3.187	0.282
CSI375CCICATG	3.75	3.2	0.192
CSI375CCICAT	3.75	3.21	0.192
CSI375/3CCI	3.75	3.38	0.281
CSI400CCICATG	4	3.335	0.252
CSI400CCICAT	4	3.335	0.252
CSI400/1CCI	4	3.398	0.312
CSI400CCI	4	3.437	0.282
CSI400/3CCI	4	3.63	0.281
CSI403CCICATG	4.03	3.335	0.252
CSI425CCICAT	4.25	3.585	0.252
CSI425CCICATG	4.25	3.585	0.252
CSI425CCI	4.25	3.69	0.282
CSI425/3CCI	4.25	3.88	0.281
CSI450CCICATG	4.5	3.835	0.252
CSI450CCICAT	4.5	3.835	0.252
CSI450/1CCICAT	4.5	3.835	0.5
CSI450/1CCICATG	4.5	3.835	0.5
CSI450CCI	4.5	3.937	0.282
CSI450/3CCI	4.5	4.13	0.281
CSI475CCICAT	4.75	4.085	0.252
CSI475CCICATG	4.75	4.085	0.252
CSI475/1CCICATG	4.75	4.085	0.629
CSI475/1CCICAT	4.75	4.085	0.629
CSI475CCI	4.75	4.192	0.282
CSI475/3CCI	4.75	4.375	0.281
CSI500/1CCICATG	5	3.482	0.252
CSI500/1CCICAT	5	3.482	0.252
CSI500/2CCICATG	5	4.225	0.379
CSI500/2CCICAT	5	4.225	0.379
CSI500CCICATG	5	4.225	0.629
CSI500CCICAT	5	4.225	0.629
CSI500/1CCI	5	4.24	0.377
CSI500CCI	5	4.437	0.282
CSI500/3CCI	5	4.63	0.281
CSI503CCI	5.03		0.275
CSI503CCICATG	5.03	4.225	0.379
CSI525CCICAT	5.25	4.475	0.379
CSI525CCICATG	5.25	4.475	0.379
CSI550CCICAT	5.5	4.725	0.629

PART #	OD -0.000 +0.005	ID -0.000 +0.005	LENGTH -0.000 +0.002
CSI550CCICATG	5.5	4.725	0.629
CSI550CCI	5.5	4.735	0.377
CSI550/3CCI	5.5	5.027	0.366
CSI553CCICATG	5.53	4.725	0.629
CSI600/1CCICATG	6	5.095	0.38
CSI600/1CCICAT	6	5.095	0.38
CSI600CCICATG	6	5.095	0.629
CSI600CCICAT	6	5.095	0.629
CSI600CCI	6	5.235	0.377
CSI603CCICAT	6.03	5.09	0.378
CSI606CCICATG	6.06	5.09	0.378
CSI625CCICAT	6.25	5.345	0.629
CSI625CCICATG	6.25	5.345	0.629
CSI628CCICATG	6.28	5.345	0.629
CSI650CCICATG	6.5	5.595	0.629
CSI650CCICAT	6.5	5.595	0.629
CSI650CCI	6.5	5.738	0.375
CSI700CCICAT	7	6.095	0.629
CSI700CCICATG	7	6.095	0.629
CSI700CCI	7	6.235	0.377
CSI703CCICAT	7.03	6.095	0.38
CSI703CCICATG	7.03	6.095	0.38
CSI703CCICAT/1	7.03	6.095	0.63
CSI725CCICATG	7.25	6.345	0.629
CSI725CCICAT	7.25	6.345	0.629
CSI750CCICAT	7.5	6.595	0.629
CSI750CCICATG	7.5	6.595	0.629
CSI775CCICAT	7.75	6.845	0.629
CSI775CCICATG	7.75	6.845	0.629
CSI775CCICAT-G	7.75	6.845	0.629
CSI800CCI	8	7.235	0.377
CSI825CCICAT	8.25	7.255	0.629
CSI825CCICATG	8.25	7.255	0.629
CSI850CCICATG	8.5	7.505	0.629
CSI850CCICAT	8.5	7.505	0.629
CSI850CCI	8.5	7.74	0.378
CSI853CCICATG	8.53	7.51	0.629
CSI925CCICATG	9.25	8.255	0.379
CSI925CCICAT	9.25	8.255	0.379
CSI928CCICATG	9.28	8.255	0.379
CSI1000CCICAT	10	8.88	0.69
CSI1000CCICATG	10	8.88	0.69
CSI1003CCICAT	10	8.88	0.69
CSI1015CCICAT	10.015	8.88	0.69
CSI1003CCICATG	10.03	8.88	0.69

PART #	OD -0.000 +0.005	ID -0.000 +0.005	LENGTH -0.000 +0.002
CSI1025CCICAT	10.25	9.13	0.69
CSI1025CCICATG	10.25	9.13	0.69
CSI1050CCICAT	10.5	9.38	0.69
CSI1050CCICATG	10.5	9.38	0.69
CSI1053CCICATG	10.53	9.38	0.69
CSI1053CCICAT	10.53	9.38	0.69
CSI1100CCICATG	11	9.88	0.69
CSI1100CCICAT	11	9.88	0.69
CSI1103CCICATG	11.03	9.88	0.69
CSI1150CCICATG	11.5	10.38	0.69
CSI1153CCICAT	11.53	10.38	0.69
CSI1153CCICATG	11.53	10.38	0.69
CSI1300CCICATG	13	11.88	0.629
CSI1300CCICAT	13	11.88	0.69

TC / LC

MAX. EXTRUSION GAP





LIGHT DUTY HYDRAULIC / PNEUMATIC

2 PIECE DOUBLE ACTING PISTON SEAL

ID

OD < 0.437" +0.004" ---OD <0.812" +0.006" ---OD<1.437" +0.008"

OD < 3.625" +0.008 ---OD >3.625" +0.010"

MAXIMUM 5000 PSI

ORING ENERGISED -- VIRGIN PTFE CAP -- ONE PIECE PISTON

MAX. EXTRUSION GAP - 0.008" /2 = 0.004"

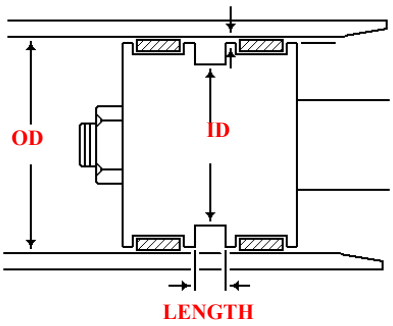
LENGTH	-0.003	+0.003

PART #	OD	ID	LENGTH
CSI031TC	0.312	0.152	0.094
CSI034TC	0.343	0.183	0.094
CSI037TC	0.375	0.215	0.094
CSI043TC	0.437	0.277	0.094
CSI050TC	0.5	0.34	0.094
CSI056TC	0.562	0.402	0.094
CSI062TC	0.625	0.403	0.141
CSI068TC	0.687	0.465	0.141
CSI075TC	0.75	0.528	0.141
CSI081TC	0.812	0.59	0.141
CSI087TC	0.875	0.653	0.141
CSI087/1TC	0.875	0.75	0.125
CSI093TC	0.937	0.715	0.141
CSI100TC	1	0.778	0.141
CSI106TC	1.062	0.758	0.188
CSI112TC	1.125	0.821	0.188
CSI118TC	1.187	0.883	0.188
CSI125TC	1.25	0.946	0.188
CSI125/1TC	1.25	1.062	0.172
CSI131TC	1.312	1.008	0.188
CSI137TC	1.375	1.071	0.188
CSI143TC	1.437	1.133	0.188
CSI150TC	1.5	1.196	0.188
CSI156TC	1.562	1.258	0.188
CSI162TC	1.625	1.321	0.188
CSI168TC	1.687	1.383	0.188

PART #	OD	ID	LENGTH
CSI175TC	1.75	1.446	0.188
CSI187TC	1.875	1.571	0.188
CSI200TC	2	1.512	0.281
CSI212TC	2.125	1.637	0.281
CSI225TC	2.25	1.762	0.281
CSI237TC	2.375	1.887	0.281
CSI250TC	2.5	2.012	0.281
CSI262TC	2.625	2.137	0.281
CSI275TC	2.75	2.262	0.281
CSI287TC	2.875	2.387	0.281
CSI300/1LC	3	2.43	0.25
CSI300LC	3	2.49	0.275
CSI300TC	3	2.512	0.281
CSI312TC	3.125	2.637	0.281
CSI325LC	3.25	2.68	0.25
CSI325TC	3.25	2.762	0.281
CSI337TC	3.375	2.887	0.281
CSI350LC	3.5	2.93	0.25
CSI350TC	3.5	3.012	0.28
CSI362TC	3.625	3.137	0.281
CSI375LC	3.75	3.18	0.25
CSI375TC	3.75	3.262	0.281
CSI387TC	3.875	3.387	0.281
CSI400/1LC	4	3.43	0.25
CSI400LC	4	3.49	0.275
CSI400TC	4	3.512	0.281
CSI412TC	4.125	3.637	0.281

TC / LC

MAX. EXTRUSION GAP





LIGHT DUTY HYDRAULIC / PNEUMATIC

2 PIECE DOUBLE ACTING PISTON SEAL

ID

OD < 0.437" +0.004" ---OD <0.812" +0.006" ---OD<1.437" +0.008"

OD < 3.625" +0.008 ---OD >3.625" +0.010"

MAXIMUM 5000 PSI

ORING ENERGISED -- VIRGIN PTFE CAP -- ONE PIECE PISTON

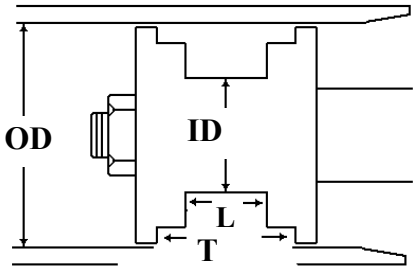
MAX. EXTRUSION GAP - 0.008" /2 = 0.004"

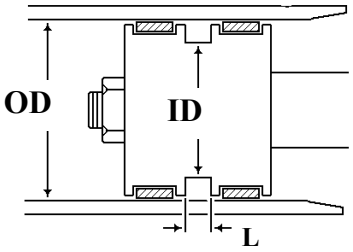
LENGTH	-0.003	+0.003

PART #	OD	ID	LENGTH
CSI425LC	4.25	3.68	0.25
CSI425TC	4.25	3.762	0.281
CSI437TC	4.375	3.887	0.281
CSI450LC	4.5	3.93	0.25
CSI450TC	4.5	4.012	0.281
CSI462TC	4.625	4.137	0.281
CSI475LC	4.75	4.18	0.25
CSI475TC	4.75	4.262	0.281
CSI487TC	4.875	4.387	0.281
CSI500/1LC	5	4.43	0.25
CSI500LC	5	4.49	0.275
CSI500TC	5	4.512	0.281
CSI512TC	5.125	4.469	0.375
CSI525TC	5.25	4.594	0.375
CSI537TC	5.375	4.719	0.375
CSI550TC	5.5	4.844	0.375
CSI562TC	5.625	4.969	0.375
CSI575TC	5.75	5.094	0.375
CSI587TC	5.875	5.219	0.375
CSI600LC	6	5.28	0.375
CSI600TC	6	5.344	0.375
CSI612TC	6.125	5.469	0.375
CSI625TC	6.25	5.594	0.375
CSI637TC	6.375	5.719	0.375
CSI650TC	6.5	5.844	0.375
CSI662TC	6.625	5.969	0.375

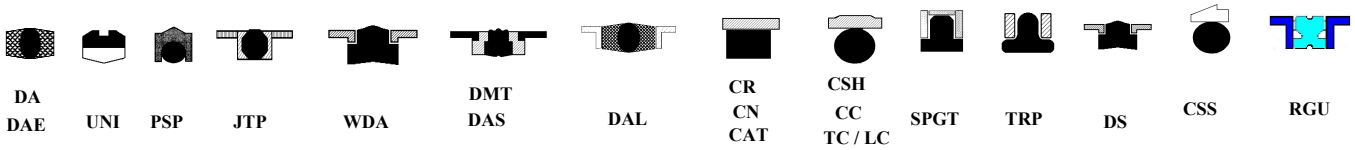
PART #	OD	ID	LENGTH
CSI675TC	6.75	6.094	0.375
CSI700LC	7	6.28	0.375
CSI700TC	7	6.344	0.375
CSI750TC	7.5	6.844	0.375
CSI800LC	8	7.28	0.375
CSI800TC	8	7.344	0.375
CSI850TC	8.5	7.844	0.375
CSI900LC	9	8.17	0.375
CSI900TC	9	8.344	0.375
CSI950TC	9.5	8.844	0.375
CSI1000TC	10	9.344	0.375
CSI1200TC	12	11.344	0.375

DOUBLE ACTING ---- METRIC----
X REFERENCE





NOMINAL SIZING ONLY - NOT INTENDED FOR MACHINING

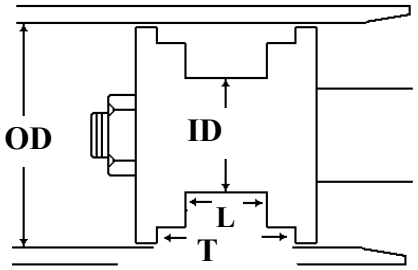


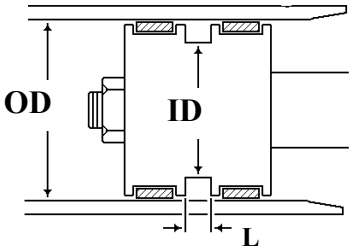
PART#	OD	ID	L	T	TYPE
CSM008TC	8	3.7	2.4		TC
CSM008/1TC	8	3.8	2.2		TC
CSM009TC	9	4.7	2.4		TC
CSM010SPG2	10	5	2.2		SPG
CSM010TC	10	5.7	2.4		TC
CSM011TC	11	6.7	2.4		TC
CSM012CSH3	12	4.5	3.2		CSH
CSM012CSH2	12	7.1	2.2		CSH
CSM012TC	12	7.7	2.4		TC
CSM013SPG2	13	8.4	2		SPG
CSM013TC	13	8.7	2.4		TC
CSM014SPG2	14	9	2.2		SPG
CSM014SPG2/1	14	9.1	2.2		SPG
CSM014TC	14	9.7	2.4		TC
CSM015CSH3	15	7.5	3.2		CSH
CSM015TC	15	10.7	2.4		TC
CSM016CSH3	16	8.5	3.2		CSH
CSM016TC	16	10	3.6		TC
CSM016SPG2	16	11	2.2		SPG
CSM017TC	17	11	3.6		TC
CSM018SPG3	18	10.5	3.2		SPG
CSM018TC	18	12	3.6		TC
DAM02011DAS	20	11	13.5	17.7	DAS
CSM020012DA	20	12	10		DA
CSM020CSH3	20	12.5	3.2		CSH
CSM020TC	20	14	3.6		TC
CSM020SPG2	20	15	2.2		SPG
CSM020.5TC	20.5	15.58	1.85		TC
DAM02213DAS	22	13	13.5	17.7	DAS
CSM022CSH3	22	14.5	3.2		CSH
CSM022TC	22	16	3.6		TC
CSM023015DA	23	15	6		DA
CSM023TC	23	17	3.6		TC

PART#	OD	ID	L	T	TYPE
CSM024CSH3	24	16.5	3.2		CSH
CSM024TC	24	18	3.6		TC
CSM025/1TC	24.6	17.2	3.2		TC
DAM02512WDA	25	12	12.41	25.1	WDA
CSM025CSH4	25	14	4.2		CSH
DAM02515/1DAS	25	15	12	20	DAS
DAM02515/2DAS	25	15	12.5	20.5	DAS
DAM02515DAS	25	15	16.4	29.1	DAS
CSM025CCM4	25	16	4.2		CCM
DAM02516DAS	25	16	13.5	17.7	DAS
DAM02517/1DAS	25	17	10	18	DAS
DAM02517/2DAS	25	17	13.5	19.9	DAS
DAM02517DASH	25	17	13.5	19.9	DAS
CSM025SPG3	25	17.5	3.2		SPG
CSM025CSH3	25	17.5	3.2		CSH
DAM02517.5DS	25	17.5	8.5	15	DS
CSM025SPG2	25	19	2.5		SPG
CSM025TC	25	19	3.6		TC
CSM026TC	26	18	4.8		TC
CSM026018DA	26	18	6.3		DA
CSM027TC	27	19	4.8		TC
DAM02819DAS	28	19	13.5	17.7	DAS
CSM028TC	28	20	4.8		TC
CSM028SPG3/1	28	20.5	3.1		SPG
CSM028SPG3	28	20.5	3.2		SPG
CSM029TC	29	21	4.8		TC
DAM03017DMT	30	17	15.4	28.1	DMT
DAM03017DAS	30	17	15.4	28.1	DAS
CSM030020DA	30	20	12.5		DA
CSM030SPG4	30	20.5	4.5		SPG
DAM03021DAS	30	21	13.5	17.7	DAS
CSM030TC	30	22	4.8		TC
DAM03022DAS	30	22	13.5	18.5	DAS
DAM03022DASH	30	22	13.5	19.9	DAS
CSM030SPG3	30	22.5	3.2		SPG
CSM030CSH3	30	22.5	3.2		CSH
CSM031TC	31	23	4.8		TC

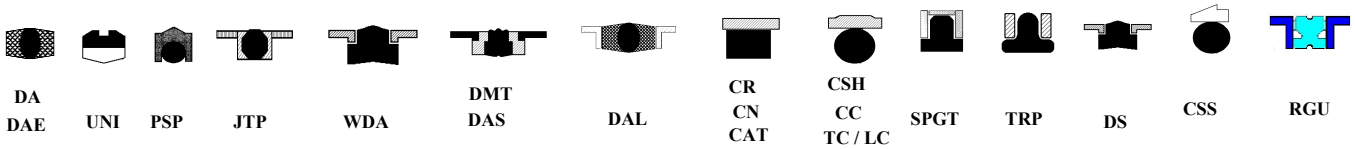
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DOUBLE ACTING ---- METRIC----
X REFERENCE





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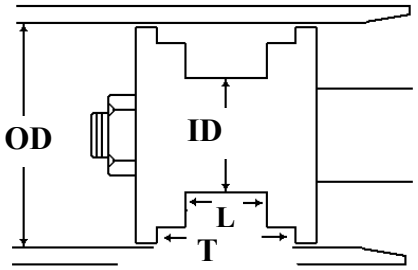


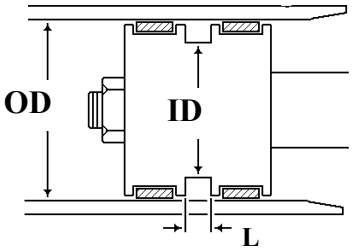
PART#	OD	ID	L	T	TYPE
DAM03219WDA	32	19	15.4	28.1	WDA
CSM032CRQ4	32	20.22	4.1		CRQ
CSM032CSH4	32	21	4.2		CSH
CSM032CCM4	32	21	4.2		CCM
DAM03222DS	32	22	11	19	DS
DAM03222/2DAS	32	22	15.5	19	DAS
DAM03222/1DAS	32	22	15.5	20.7	DAS
DAM03222DAS	32	22	16.4	29.1	DAS
CSM032SPG4	32	22.5	4.5		SPG
CSM032TC	32	24	4.8		TC
DAM03224/1DAS	32	24	10	18	DAS
DAM03224DAS	32	24	15.5	21.9	DAS
DAM03224DASH	32	24	15.5	21.9	DAS
CSM032CSH3	32	24.5	3.2		CSH
CSM032SPG3	32	24.5	3.2		SPG
CSM033TC	33	25	4.8		TC
CSM034TC	34	26	4.8		TC
CSM034SPG3	34	26.5	3.2		SPG
CSM034CSH3	34	26.5	3.2		CSH
DAM03522WDA	35	22	15.4	28.1	WDA
DAM03522.3DAL	35	22.3	19.4	32	DAL
CSM035SPG4	35	24	4.2		SPG
CSM035CSH4	35	24	4.2		CSH
DAM03525/1DAS	35	25	15.5	20.7	DAS
DAM03525DAS	35	25	16.4	29.1	DAS
CSM035SPG4/1	35	25.5	4.5		SPG
CSM035TC	35	27	4.8		TC
DAM03527DASH	35	27	15.5	21.9	DAS
DAM03527DAS	35	27	15.5	21.9	DAS
CSM035SPG3	35	27.5	3.2		SPG
CSM035CSH3	35	27.5	3.2		CSH
CSM036CSH4	36	25	4.2		CSH
CSM036TC	36	28	4.8		TC
CSM036SPG3	36	28.5	3.2		SPG
CSM036CSH3	36	28.5	3.2		CSH
CSM037TC	37	29	4.8		TC
CSM038CSSV	38	25	4		CSS
CSM038TC	38	30	4.8		TC

PART#	OD	ID	L	T	TYPE
CSM038CSH3	38	30.5	3.2		CSH
CSM039TC	39	31	4.8		TC
CSM040/1TC	39.5	32.4	3.2		TC
DAM04024DAS	40	24	18.4	31.1	DAS
CSM040CSH6	40	24.5	6.3		CSH
DAM04025DAL	40	25	24	36	DAL
CSM040SPG7	40	25.5	7.3		SPG
DAM04026DAS	40	26	15.5	20.7	DAS
CSM040CSH6/1	40	27	6.3		CSH
CSM040CSH4	40	29	4.2		CSH
CSM040SPG4/1	40	29	4.2		SPG
CSM040CCM4	40	29.3	4.2		CCM
CSM040SPG4	40	30	4.5		SPG
CSM040CSH6/2	40	30	6.3		CSH
DAM040RGU	40	30	10	18	RGU
DAM04030DS	40	30	11	19	DS
DAM04030/1DAS	40	30	12.5	20.5	DAS
DAM04030/2DAS	40	30	12.5	20.5	DAS
DAM04030DAS	40	30	16.4	29.1	DAS
CSM040TC	40	32	4.8		TC
DAM04032/1DAS	40	32	10	18.4	DAS
DAM04032DAS	40	32	15.5	21.9	DAS
DAM04032DASH	40	32	15.5	21.9	DAS
CSM040CSH3	40	32.5	3.2		CSH
CSM040SPG3	40	32.5	3.3		SPG
CSM041TC	41	33	4.8		TC
DAM04228DAS	42	28	15.5	20.7	DAS
CSM04230DA	42	30	7.5		DA
CSM042SPG4	42	31	4.2		SPG
CSM042CSH4	42	31	4.2		CSH
CSM042TC	42	34	4.8		TC
CSM043TC	43	35	4.8		TC
CSM044TC	44	36	4.8		TC
DAM04529DAS	45	29	18.4	31.1	DAS
CSM045CSH6	45	29.5	6.3		CSH
DAM04531DAS	45	31	15.5	20.7	DAS
CSM045CSH6/1	45	32	6.3		CSH

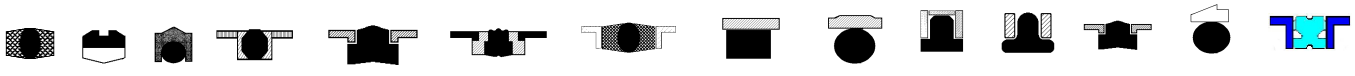
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DOUBLE ACTING ---- METRIC----
X REFERENCE





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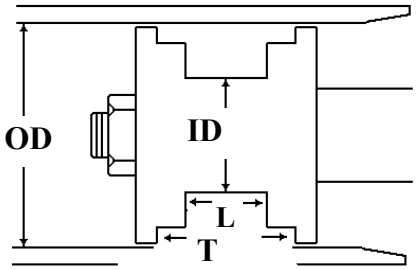
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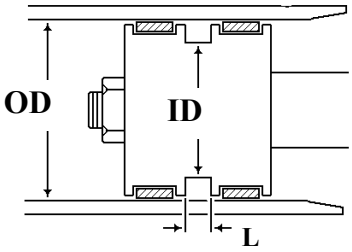
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CSM045CSH4	45	34	4.2		CSH
CSM045SPG4/1	45	34	4.2		SPG
CSM045SPG4/2	45	35	4.5		SPG
DAM045RGU	45	35	10	18	RGU
DAM04535DAS	45	35	16.4	29.1	DAS
CSM045SPG4	45	36	4.2		SPG
CSM045TC	45	37	4.8		TC
DAM04537DASH	45	37	15.5	21.9	DAS
DAM04537DAS	45	37	15.5	21.9	DAS
CSM047TC	47	39	4.8		TC
CSM048SPG4	48	37	4.2		SPG
CSM048TC	48	40	4.8		TC
CSM049CSH4	49	38	4.2		CSH
CSM049TC	49	41	4.8		TC
DAM05030WDA	50	30	25.4	38.1	WDA
DAM05034DAS	50	34	18.4	31.1	DAS
DAM05034/1DAS	50	34	20.5	26.7	DAS
DAM05034DMT	50	34	32	43	DMT
CSM050CCM6	50	34.5	6.3		CCM
CSM050/1SPG5	50	34.6	5.4		SPG
CSM050CSH6	50	34.9	6.3		CSH
CSM050SPG7	50	34.9	7.3		SPG
DAM05035DAL	50	35	24	36	DAL
CSM050SPG6	50	35.5	6.3		SPG
CSM050SPGT	50	36	9		SPGT
CSM050CSH6/1	50	37	6.3		CSH
CSM050TC	50	37.6	7.2		TC
DAM05038DAS	50	38	20.5	28.9	DAS
CSM050CSH4-RE	50	39	4.2		CSH
CSM050CSH4	50	39	4.2		CSH
CSM050SPG5	50	39	4.9		SPG
CSM050CCM4	50	39.3	4.2		CCM
CSM050SPG4	50	39.5	4.2		SPG
CSM050SPG4/4	50	40	4.5		SPG
CSM050TC/1	50	40	5		TC
CSM050SPGT/1	50	40	8		SPGT
DAM050RGU	50	40	10	18	RGU
DAM05040DAS	50	40	11	19	DAS
DAM05040/1DAS	50	40	12.5	20.5	DAS
CSM050SPG3/1	50	41	3.8		SPG

PART#	OD	ID	L	T	TYPE
CSM050SPG4/1	50	41.5	4		SPG
CSM050SPG3	50	42.5	3.2		SPG
CSM050SPG4/2	50	43	4.2		SPG
CSM055SPG4	50	45	4.2		SPG
CSM050SPG4/5	50	45	4.5		SPG
CSM052CSH6	52	36.5	6.3		CSH
CSM052SPG4	52	41	4.2		SPG
CSM053TC	53	40.6	7.2		TC
CSM054CSH4	54	43	4.2		CSH
DAM05539DAS	55	39	18.4	31.1	DAS
DAM05539/1DAS	55	39	20.5	26.7	DAS
CSM055SPG6	55	39.5	6.3		SPG
CSM055CSH6	55	39.5	6.3		CSH
DAM05540DAL	55	40	24	36	DAL
DAM05540DMT	55	40	32	44.7	DMT
CSM055SPGT	55	41	9		SPGT
CSM055TC	55	42.6	7.2		TC
CSM055SPG3	55	43	3.9		SPG
DAM05543DAS	55	43	20.5	28.9	DAS
CSM055CSH4	55	44	4.2		CSH
CSM055SPG4/2	55	44	4.2		SPG
CSM055SPG4/1	55	45	4.5		SPG
DAM055RGU	55	45	10		RGU
DAM05545DS	55	45	11	19	DS
DAM05545DAS	55	45	12.5	19	DAS
DAM05640DAS	56	40	20.5	26.7	DAS
CSM056TC	56	43.6	7.2		TC
CSM056CSH4	56	45	4.2		CSH
CSM056SPG4	56	46	4.5		SPG
CSM057CSH4	57	46	4.2		CSH
CSM057SPG3	57	48.8	3		SPG
DAM05842DMT	58	42	32	51	DMT
CSM058CSH6	58	45	6.3		CSH
DAM06040DAL	60	40	31	45	DAL
CSM060CCM7	60	41.7	7		CCM
DAM06044DAS	60	44	18.4	31.1	DAS
DAM06044/1DAS	60	44	20.5	26.7	DAS

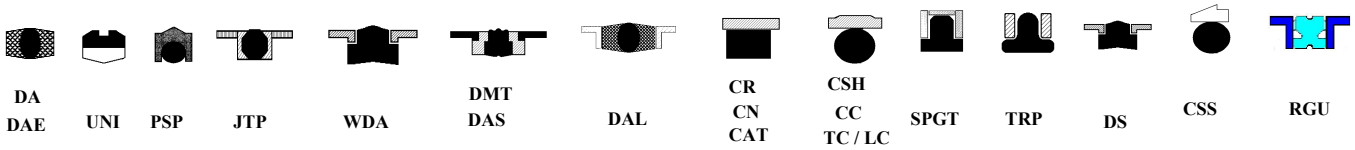
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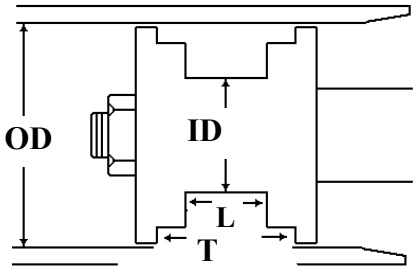


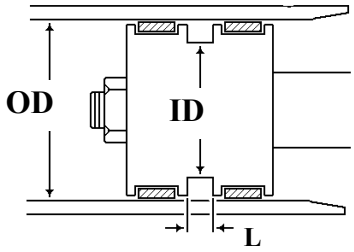
PART#	OD	ID	L	T	TYPE
DAM06044DMT	60	44	32	44.7	DMT
CSM060CSH6-RE	60	44.5	6.3		CSH
CSM060CSH6	60	44.9	6.3		CSH
CSM060SPG6	60	44.9	6.3		SPG
CSM060SPG7	60	44.9	7.3		SPG
DAM06045DAS	60	45	22.1	34.8	DAS
CSM060DAE	60	45	22.5		DAE
CSM060SPGT	60	46	9		SPGT
CSM060TC	60	47.6	7.2		TC
DAM06048DAS	60	48	20.5	28.9	DAS
DAM06048DAL	60	48	20.5	28.9	
CSM060CSH4	60	49	4.2		CSH
CSM060CCM4	60	49.2	4.2		CCM
CSM060SPG4	60	49.3	4.2		SPG
CSM060SPG5	60	49.3	5		SPG
CSM060SPG4/1	60	50	4.5		SPG
CSM060SPGT/1	60	50	8		SPGT
DAM060RGU	60	50	10	18	RGU
CSM060TC/1V	60	51.6	4.4		TC
DAM06343DAL	63	43	31	45	DAL
DAM06347DAS	63	47	18.4	31.1	DAS
DAM06347WDA	63	47	19	31.7	WDA
DAM06347/2DAS	63	47	19.4	32.1	DAS
DAM06347/1DAS	63	47	20.5	26.7	DAS
DAM06347DMT	63	47	32	44.7	DMT
CSM063CSH6	63	47.5	6.3		CSH
CSM063SPG6	63	47.5	6.3		SPG
CSM063CCM6	63	47.5	6.3		CCM
CSM063CSH6-RE	63	47.5	6.3		CSH
CSM063CSS	63	47.9	6.3		STEP
CSM063SPG7	63	48	7.5		SPG
CSM063SPGT	63	48	11		SPGT
DAM06348DAS	63	48	20	30	DAS
DAM06348/1DAL	63	48	24	36	DAL
CSM063CSH6/1	63	50	6.3		CSH
CSM063TC	63	50.6	7.2		TC
DAM06351DAS	63	51	20.5	28.9	DAS
CSM063CSH4	63	52	4.2		CSH
CSM063SPG4	63	52	4.2		SPG
CSM063CSH5	63	53	5		CSH
CSM063SPGT/1	63	53	8		SPGT
DAM063RGU	63	53	10	18	RGU

PART#	OD	ID	L	T	TYPE
DAM06353/1DAS	63	53	11	19	DAS
DAM06353DS	63	53	11	19	DS
DAM06353DAS	63	53	12.5	20.5	DAS
CSM063SPG3	63	55.5	3.2		SPG
DAM06549DAS	65	49	20.5	26.7	DAS
DAM06549DMT	65	49	32	44.7	DMT
CSM065CSH6-RE	65	49.5	6.3		CSH
CSM065CSH6	65	49.9	6.3		CSH
CSM065SPG6	65	49.9	6.3		SPG
CSM065SPG7	65	50	7.5		SPG
CSM065SPGT	65	50	11		SPGT
DAM06550DAS	65	50	18.4	31.1	DAS
CSM065SPGT/1	65	51	9		SPGT
CSM065CSH6/1	65	52	6.3		CSH
CSM065TC	65	52.6	7.2		TC
DAM06553DAS	65	53	20.5	28.9	DAS
CSM065CSH4	65	54	4.2		CSH
CSM065SPG4	65	54	4.2		SPG
DAM065RGU	65	55	11	21	RGU
DAM06751DAS	67	51	18.4	31.1	DAS
CSM068SPG3	68	59.4	3.2		SPG
DAM07050/1DMT	70	50	22.4	35.1	DMT
DAM07050DAS	70	50	22.4	35.1	DAS
DAM07050DAL	70	50	31	45	DAL
DAM07050DMT	70	50	35	54	DMT
CSM070CCM7	70	51.7	7		CCM
DAM07054DAS	70	54	20.5	26.7	DAS
CSM070CSH6-RE	70	54.5	6.3		CSH
CSM070SPG6	70	54.5	6.3		SPG
CSM070CSH6/1	70	54.5	6.3		CSH
CSM070SPG5.5	70	55	5.9		SPG
CSM070SPG7	70	55	7.5		SPG
CSM070SPGT	70	55	11		SPGT
CSM070SPGT/2	70	55	12.5		SPGT
DAM07055/1DAS	70	55	20	28	DAS
DAM07055DAS	70	55	22.1	34.8	DAS
CSM070DAE	70	55	22.5		DAE
DAM070NCF3	70	56	22	30.2	NCF3
DAM070NCF5	70	56	22	36.5	NCF5
CSM070CSH6	70	57	6.3		CSH

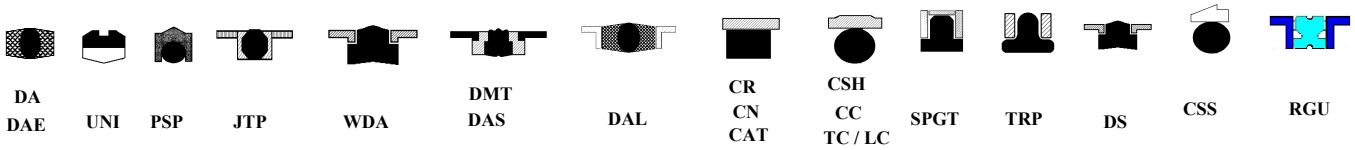
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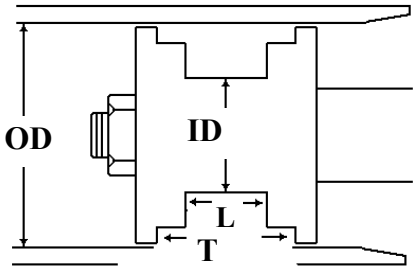


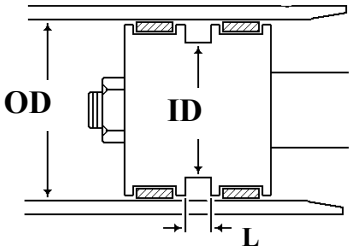
PART#	OD	ID	L	T	TYPE
CSM070TC	70	57.6	7.2		TC
DAM07058DAS/1	70	58	20.5	28.9	
DAM07058DAS	70	58	20.5	28.9	DAS
DAM07058DAL	70	58	20.5	28.9	
CSM070SPG5	70	58.4	5.3		SPG
CSM070CCM4	70	59	4.2		CCM
CSM070CSH4	70	59	4.2		CSH
CSM070SPG4/1	70	59	4.2		SPG
CSM070SPG4	70	59.1	4.2		SPG
CSM070SPGT/1	70	60	8		SPGT
DAM070RGU	70	60	11	21	RGU
CSM071SPG6/1	71	56	6		SPG
CSM071SPG6/2	71	57	6.3		SPG
CSM071SPG6	71	57	6.7		SPG
CSM071SPG7	71	57	7.5		SPG
CSM072CSH4	72	61	4.2		CSH
CSM073TC	73	60.6	7.2		TC
CSM074CSH6	74	58.5	6.3		CSH
CSM075DAE	75	55	22		DAE
DAM07555DAS	75	55	22.4	35.1	DAS
DAM07555DAL	75	55	31	45	DAL
DAM07556WDA	75	56	24.4	37.1	WDA
DAM07559DAS	75	59	20.5	26.7	DAS
CSM075SPG6	75	59.5	6.3		SPG
CSM075CSH6/1	75	59.5	6.3		CSH
CSM075SPG7	75	60	7.5		SPG
CSM075SPGT	75	60	11		SPGT
CSM075CSH6	75	62	6.3		CSH
CSM075TC	75	62.6	7.2		TC
CSM075SPGT/1	75	63	9		SPGT
DAM07563DAS	75	63	20	28	DAS
DAM07563DAL	75	63	20.5	28.9	DAL
CSM075CSH4	75	64	4.2		CSH
CSM075SPG4	75	64.3	4.2		SPG
DAM075RGU	75	65	11	21	RGU
CSM080CCM8	80	59	8.1		CCM
CSM080CSH8	80	59	8.1		CSH
CSM080SPG8	80	59	8.1		SPG
CSM080CSH10	80	59	10.5		CSH

PART#	OD	ID	L	T	TYPE
DAM08060DAS	80	60	22.4	35.1	DAS
CSM080/1DAE	80	60	22.5		DAE
DAM08060/2DAS	80	60	25	37.7	DAS
DAM08060DAL	80	60	31	45	DAL
DAM08060DMT	80	60	35	54	DMT
DAM08060/1DAS	80	60	35	54	DAS
DAM08062DAS	80	62	22.5	29.7	DAS
DAM08064DMT	80	64	32	51	DMT
CSM080CSH6-RE	80	64.5	6.3		CSH
CSM080CCM6	80	64.5	6.3		CCM
CSM080CSS	80	64.85	6.3		CSS
CSM080SPG6	80	64.9	6.3		SPG
CSM080CSH6	80	64.9	6.3		CSH
CSM080SPG7	80	65	7.5		SPG
CSM080SPGT	80	65	11		SPGT
CSM080SPGT/2	80	65	12		SPGT
CSM080SPGT/1	80	65	12.5		SPGT
DAM08065DAS	80	65	20	30	DAS
DAM08065DASH	80	65	20	30	DAS
DAM08065/1DAS	80	65	22.1	34.8	DAS
CSM080DAE	80	65	22.5		DAE
DAM080NCF5	80	66	22		NCF5
DAM080NCF3	80	66	22	42	NCF3
DAM08066DAS	80	66	22.5	32.9	DAS
CSM080CSH6/1	80	66.5	6.3		CSH
DAM080RGU	80	67	12.5	22.5	RGU
CSM080TC	80	67.6	7.2		TC
CSM080CSH4	80	69	4.2		CSH
CSM080SPG4	80	69	4.2		SPG
DAM08070DS	80	70	11	19	DS
DAM08363WDA	83	63	22	35.1	WDA
CSM085CCM8	85	64	8.1		CCM
CSM085SPG8	85	64.5	8.1		SPG
DAM08565/1DAS	85	65	21.4	34.1	DAS
CSM085DAE	85	65	22		DAE
DAM08565DAS	85	65	22.4	35.1	DAS
DAM08565DMT	85	65	35	54	DMT
CSM085CSH6	85	69.5	6.3		CSH
CSM085SPG6	85	69.9	6.3		SPG
CSM085SPG7	85	70	7.5		SPG
CSM085SPGT	85	70	11		SPGT
DAM08571DAS	85	71	22.5	32.9	DAS

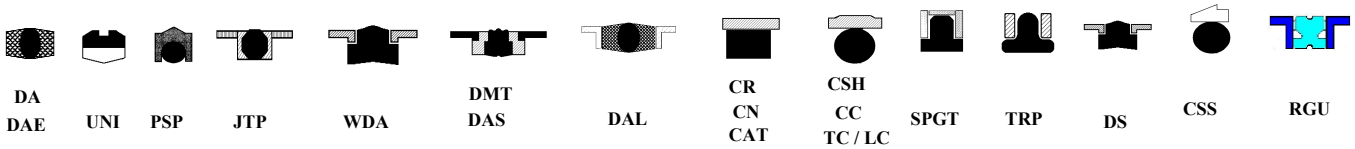
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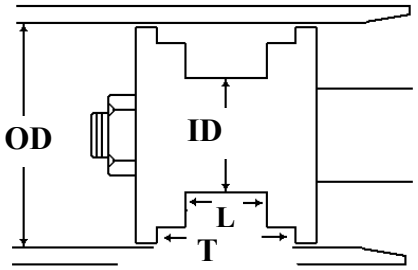


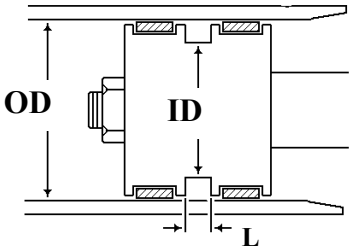
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CSM085CSH6/1	85	71.5	6.3		CSH
DAM085RGU	85	72	12.5	22.5	RGU
CSM085TC	85	72.6	7.2		TC
DAM08575DAS	85	75	20	26	DAS
CSM090CCM8	90	69	8		CCM
CSM090CSH10	90	69	10.5		CSH
CSM090SPG8	90	69.5	8.1		SPG
DAM09070DAS	90	70	22.4	35.1	DAS
DAM09070WDA	90	70	25.4	38.1	WDA
DAM09070/1DAS	90	70	29.6	42.3	DAS
CSM090DAE	90	70	30		DAE
DAM09070DAL	90	70	31	45	DAL
DAM09070DMT	90	70	35	54	DMT
DAM09072/1DAS	90	72	22.5	29.7	DAS
DAM09072DAS	90	72	22.5	29.7	DAS
DAM09074DMT	90	74	32	51	DMT
CSM090CCM6	90	74.5	6.3		CCM
CSM090CSH6-RE	90	74.5	6.3		CSH
CSM090CSH6	90	74.5	6.3		CSH
CSM090SPG7	90	74.5	7.3		SPG
CSM090SPG6	90	74.9	6.3		SPG
CSM090SPGT	90	75	11		SPGT
CSM090SPGT/2	90	75	12		SPGT
CSM090SPGT/1	90	75	12.5		SPGT
CSM090CCM12	90	75	12.5		CCM
CSM090/1DAE	90	75	19.5		DAE
DAM09075DAS	90	75	20	28.5	DAS
DAM090NCF5	90	76	22		NCF5
DAM090NCF3	90	76	22	32	NCF3
DAM09076DAL	90	76	22.5	32.9	
DAM09076DAS	90	76	22.5	32.9	DAS
DAM090RGU	90	77	12.5	22.5	RGU
CSM090TC	90	77.6	7.2		TC
CSM090SPG4	90	79	4.2		SPG
CSM090SPG7/1	90	80	7.3		SPG
DAM09080DAS	90	80	12.5	21.5	DAS
DAM09282DAS	92	82	12.5	25.3	DAS
CSM095SPG8	95	74.5	8.1		SPG
CSM095DAE	95	75	22		DAE
DAM09575DAS	95	75	22.4	35.1	DAS
DAM09575DMT	95	75	35	54	DMT

PART#	OD	ID	L	T	TYPE
CSM095CSH6	95	79.9	6.3		CSH
CSM095SPG6	95	79.9	6.3		SPG
CSM095SPG7	95	80	7.5		SPG
CSM095SPGT	95	80	11		SPGT
DAM09581DAS	95	81	22.4	32.8	DAS
CSM095SPG4	95	85	4		SPG
DAM10075DAS	100	75	22.4	35.1	DAS
DAM10075DAL	100	75	26	42.5	DAL
CSM100CCM8	100	79	8		CCM
CSM100SPG8	100	79.5	8.1		SPG
DAM10080/3DAS	100	80	25	30.8	DAS
DAM10080/4DAS	100	80	25	36	DAS
DAM10080DAS	100	80	25.4	38.1	DAS
DAM10080/2DAS	100	80	29.6	42.3	DAS
CSM100DAE	100	80	30		DAE
DAM10080DAL	100	80	31	45	DAL
DAM10080DMT	100	80	35	52	DMT
DAM10080/1DAS	100	80	35	54	DAS
DAM10082DAS	100	82	22.5	29.7	DAS
CSM100CCM6	100	84.5	6.3		CCM
CSM100CSH6	100	84.5	6.3		CSH
CSM100CRQ	100	84.5	6.3		CRQ
CSM100CSS	100	84.5	6.3		STEP
CSM100CSH6-RE	100	84.5	6.3		CSH
CSM100SPG6PTFE	100	84.9	6.3		SPG
CSM100SPG6	100	84.9	6.3		SPG
CSM100SPG7	100	85	7.5		SPG
CSM100SPGT	100	85	12.5		SPGT
DAM100RGU	100	85	14	24	RGU
CSM100/1DAE	100	85	20		DAE
DAM10085DAS	100	85	20	30	DAS
CSM100CCMCAT	100	85.8	7.2		CCM CAT
DAM100NCF5	100	86	22		NCF5
DAM100NCF3	100	86	22	43	NCF3
DAM10086DAL	100	86	22.5	32.9	
DAM10086DAS	100	86	22.5	32.9	DAS
CSM100CSH6/1	100	86.5	6.3		CSH
DAM10087DS	100	87	14	26	DS
CSM100TC	100	87.6	7.2		TC
CSM100SPG4	100	89	4.2		SPG
DAM10090DAS	100	90	12	22.5	
CSM101.6SPG7	101.6	88.9	7.5		SPG

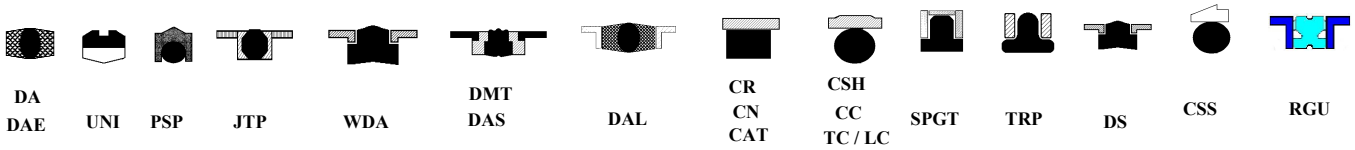
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DOUBLE ACTING ---- METRIC----
X REFERENCE





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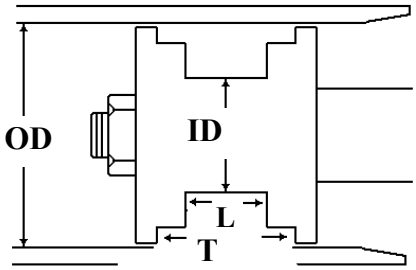


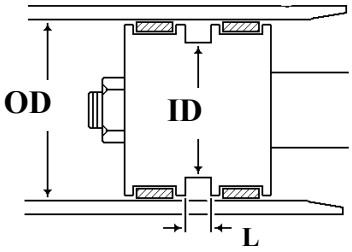
PART#	OD	ID	L	T	TYPE
CSM102SPG6	102	84	6.5		SPG
DAM10580DAS	105	80	22.4	35.1	DAS
CSM105SPG10	105	82.7	10		SPG
CSM105CCM8	105	84	8		CCM
CSM105SPG8	105	84.5	8.1		SPG
DAM10585WDA	105	85	22.4	35.1	WDA
DAM10585DMT	105	85	35	54	DMT
CSM105CSH6	105	89.5	6.3		CSH
CSM105SPG6	105	89.9	6.3		SPG
CSM105SPGT	105	90	12.5		SPGT
CSM105SPGT/1	105	90	13.5		SPGT
DAM10592.5DAS	105	92.5	14.3	25	DAS
CSM105TC	105	92.6	7.2		TC
DAM11085DAS	110	85	22.4	35.1	DAS
DAM11085/1DAS	110	85	25	37.8	DAS
DAM11085DMT	110	85	45	70.4	DMT
CSM110CCM8	110	89	8		CCM
CSM110CSH10	110	89	10.5		CSH
CSM110SPG8	110	89.5	8.1		SPG
DAM11090/2DAS	110	90	25.3	36.5	DAS
DAM11090WDA	110	90	25.4	38.1	WDA
DAM11090DAS	110	90	29.6	42.3	DAS
CSM110DAE	110	90	30		DAE
DAM11090DAL	110	90	31	45	DAL
DAM11090/1DAS	110	90	35	54	DAS
DAM11090DMT	110	90	35	54	DMT
DAM11092DAS	110	92	22.5	29.7	DAS
CSM110SPG7	110	94	7.5		SPG
CSM110CSH6-RE	110	94.5	6.3		CSH
CSM110CCM6	110	94.5	6.3		CCM
CSM110CCM7	110	94.5	7.2		CCM
CSM110CSH6	110	94.9	6.3		CSH
CSM110SPG6	110	94.9	6.3		SPG
CSM110SPGT	110	95	12.5		SPGT
DAM11095DAS	110	95	20	28	DAS
CSM110CCMCAT	110	95.8	7.2		CCM CAT
DAM110NCF5	110	96	22		NCF5
DAM110NCF3	110	96	22	33	NCF3
DAM11096DAS	110	96	22.5	32.9	DAS
CSM110TC	110	97.6	7.2		TC

PART#	OD	ID	L	T	TYPE
CSM112SPG7	112	96	7.5		SPG
DAM11590DAS	115	90	22.4	35.1	DAS
DAM11590DMT	115	90	45	70.4	DMT
CSM115CCM8	115	94	8		CCM
CSM115CSH8	115	94.5	8.1		CSH
CSM115SPG8	115	94.5	8.1		SPG
DAM11597/1DAS	115	97	22.4	30.8	DAS
DAM11597DAS	115	97	22.5	29.7	DAS
CSM115SPG6/1	115	98	6.5		SPG
CSM115SPG7	115	99	7.5		SPG
CSM115SPG6	115	99.5	6.3		SPG
CSM115CSH6	115	99.9	6.3		CSH
CSM115SPGT	115	100	12.5		SPGT
CSM115CCMCAT	115	100.76	7.24		CCM
DAM115101DAS	115	101	22.4	32.8	DAS
CSM115TC	115	102.6	7.2		TC
CSM118CSH6	118	102.5	6.3		CSH
DAM12095DAS	120	95	22.4	35.1	DAS
CSM120CCM8	120	99	8		CCM
CSM120SPG8	120	99	8.1		SPG
CSM120CSH10	120	99	10.5		CSH
CSM120SPG10	120	99	10.5		SPG
CSM120SPGT/1	120	100	16.5		SPGT
DAM120100WDA	120	100	25.4	38.1	WDA
DAM120100DAS	120	100	29.6	42.3	DAS
CSM120DAE	120	100	30.4		DAE
DAM120100DAL	120	100	31	45	DAL
DAM120100/1DAS	120	100	35		DAS
DAM120100DMT	120	100	35	54	DMT
CSM120SPG7	120	104	7.5		SPG
CSM120CSH6-RE	120	104.5	6.3		CSH
CSM120SPG6	120	104.5	6.3		SPG
CSM120CSH6	120	104.9	6.3		CSH
CSM120SPGT	120	105	12.5		SPGT
CSM120CCM7	120	106	7		CCM
DAM120NCF5	120	106	22		NCF5
DAM120NCF3	120	106	22	33	NCF3
DAM120106DAS	120	106	22.5	32.9	DAS
CSM120TC	120	107.6	7.2		TC
DAM125100DAS	125	100	25.4	38.1	DAS

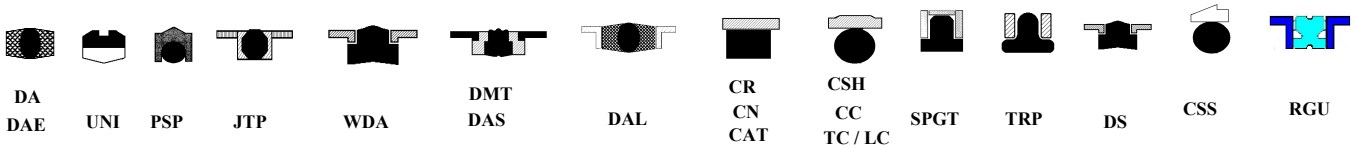
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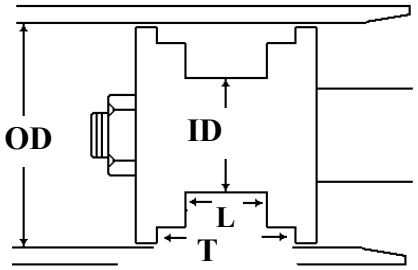


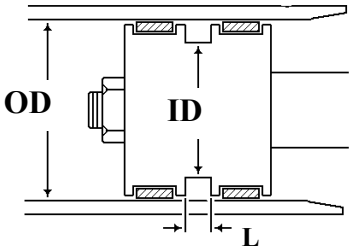
PART#	OD	ID	L	T	TYPE
DAM125100/1DAS	125	100	25.4	50.4	DAS
DAM125100/3DAS	125	100	32	52	DAS
DAM125100WDA	125	100	32.4	45.1	WDA
DAM125100DAL	125	100	38	57	DAL
DAM125100/4DAS	125	100	45	70.4	DAS
DAM125100DMT	125	100	45	70.4	DMT
CSM125SPGT	125	102	16		SPGT
DAM125103DAS	125	103	26.5	36.7	DAS
CSM125CCM8	125	104	8		CCM
CSM125SPG8	125	104	8.1		SPG
CSM125CSH8	125	104	8.1		CSH
CSM125CSH10	125	104	10.5		CSH
CSM125SPGT/1	125	105	16		SPGT
CSM125/1DAE	125	105	25		DAE
DAM125105/2DAS	125	105	25	37.7	DAS
DAM125105DAS	125	105	25.4	38.1	DAS
DAM125105/1DAS	125	105	25.4	38.1	DAS
DAM125108DAS	125	108	26	40.9	DAS
DAM125108DAL	125	108	26.5	40.9	
CSM125SPG7	125	109	7.5		SPG
CSM125CCM6	125	109.5	6.3		CCM
CSM125CSH6	125	109.9	6.3		CSH
CSM125SPG6	125	109.9	6.3		SPG
CSM125DAE	125	110	18		DAE
CSM125TC	125	112.6	7.2		TC
CSM125SPG4	125	114	4.2		SPG
CSM127SPG6	127	111.5	6.3		SPG
DAM130104WDA	130	104	32	45.1	WDA
DAM130104/1DAL	130	104	38		DAL
DAM130105DAS	130	105	25.4	38.1	DAS
DAM130105/1DAS	130	105	25.4	44.4	DAS
DAM130105/2DAS	130	105	25.4	44.4	DAS
DAM130105DMT	130	105	45	70.4	DMT
CSM130SPGT	130	107	16		SPGT
CSM130CCM8	130	109	8		CCM
CSM130CSH8	130	109.5	8.1		CSH
CSM130SPG8	130	109.5	8.1		SPG
CSM130SPGT/1	130	110	16		SPGT
DAM130110DMT	130	110	35	54	DMT
DAM130113DAS	130	113	26.5	40.9	DAS
CSM130TC	130	113.2	9.5		TC
CSM130SPG7	130	114	7.5		SPG

PART#	OD	ID	L	T	TYPE
CSM130SPG6	130	114.5	6.3		SPG
CSM130CSH6	130	114.9	6.3		CSH
CSM130CCMCAT	130	115.7	7.2		CCM
DAM133115DAS	133	115	22.4	41.4	DAS
DAM135110/1DAS	135	110	25.4	38.1	DAS
DAM135110DAS	135	110	25.4	44.4	DAS
CSM135SPGT	135	112	16		SPGT
CSM135CCM8	135	114	8		CCM
CSM135CSH8	135	114.5	8.1		CSH
CSM135SPG8	135	114.5	8.1		SPG
CSM135TC	135	118.2	9.5		TC
CSM135CSH6	135	119.5	6.3		CSH
DAM140115/1DAS	140	115	6.35		
DAM140115DAL	140	115	25	38	DAL
DAM140115/1DAS	140	115	25.4	38.1	DAS
DAM140115DAS	140	115	25.4	44.4	DAS
DAM140115/2DAS	140	115	45	70.4	DAS
DAM140115DMT	140	115	45	70.4	DMT
CSM140SPGT	140	117	16		SPGT
DAM140118DAS	140	118	26.5	36.7	DAS
CSM140CCM8	140	119	8		CCM
CSM140CSH8	140	119	8.1		CSH
CSM140CSH8-RE	140	119	8.1		CSH
CSM140SPG8	140	119	8.1		SPG
CSM140CCM9	140	119	9.6		CCM
CSM140SPGT/1	140	120	16		SPGT
CSM140SPGT/2	140	120	19		SPGT
DAM140120DAS	140	120	25	37.6	DAS
DAM140120DAL	140	120	31	45	DAL
DAM140120DMT	140	120	35	54	DMT
CSM140CCMCAT	140	120.62	9.5		CCM
CSM140SPG8/1	140	122	8.1		SPG
DAM140123DAS	140	123	26.5	40.9	DAS
DAM140NCF3	140	123	48	48	NCF3
CSM140TC	140	123.2	9.5		TC
CSM140SPG7	140	124	7.5		SPG
CSM140SPG6	140	124.5	6.3		SPG
CSM140CSS	140	124.9	6.3		CSS
DAM145120WDA	145	120	25	37.7	WDA
DAM145120/1DAS	145	120	25.4	38.1	DAS

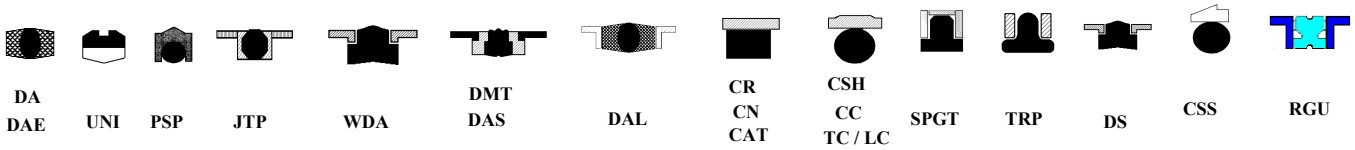
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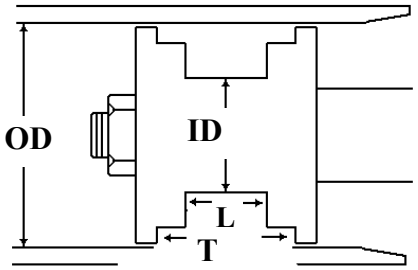


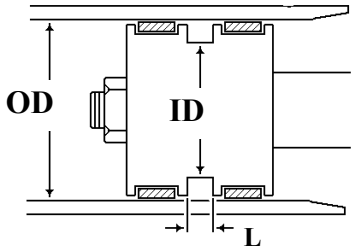
PART#	OD	ID	L	T	TYPE
DAM145120DAS	145	120	25.4	44.4	DAS
CSM145SPGT	145	122	16		SPGT
CSM145TC	145	123.2	9.5		TC
CSM145CCM8	145	124	8		CCM
CSM145CSH8	145	124	8.1		CSH
CSM145SPG8	145	124	8.1		SPG
DAM145125DAL	145	125	31	45	DAL
DAM145130DAS	145	130	25.4	38.1	DAS
DAM150120WDA	150	120	38.4	51.1	WDA
CSM150DAE	150	125	25.4		DAE
DAM150125/1DAS	150	125	25.4	38.1	DAS
DAM150125DAS	150	125	25.4	44.4	DAS
DAM150125DAL	150	125	38	50.9	DAL
DAM150125DMT	150	125	45	70.4	DMT
CSM150SPGT	150	127	16		SPGT
DAM150128DAS	150	128	26.5	36.7	DAS
CSM150CCM8	150	129	8		CCM
CSM150CSH10-RE	150	129	10.5		CSH
CSM150CSH8	150	129.5	8.1		CSH
CSM150SPG8	150	129.5	8.1		SPG
CSM150CSH10	150	129.5	10		CSH
CSM150SPGT/2	150	130	19		SPGT
DAM150130DAS	150	130	25.4	36	DAS
CSM150CCMCAT	150	130.6	9.6		CCM
CSM150CCM9	150	131	9.3		CCM
CSM150SPG8/1	150	132	7.8		SPG
DAM150NCF3	150	133	26	48	NCF3
DAM150133DAS	150	133	26.5	40.9	DAS
CSM150TC	150	133.2	9.5		TC
CSM150SPG7	150	134	7.5		SPG
CSM150SPGT/3	150	135	12.5		SPGT
DAM155130/1DAS	155	130	25.4	38.1	DAS
DAM155130DAS	155	130	25.4	44.4	DAS
CSM155SPGT	155	132	16		SPGT
CSM155SPG8	155	134	8.1		SPG
DAM160130DAL	160	130	25		
DAM160130DAS	160	130	25.4	38.1	DAS
DAM160130/1DAS	160	130	25.4	44.4	DAS
DAM160130/2DAS	160	130	25.4	44.4	DAS
CSM160DAE	160	135	25		DAE
DAM160135DAS	160	135	25	44.4	DAS

PART#	OD	ID	L	T	TYPE
DAM160135/2DAS	160	135	32	52	DAS
DAM160135/1DAS	160	135	45	70.4	DAS
DAM160135DMT	160	135	45	70.4	DMT
CSM160SPGT-NO	160	137	16		SPGT
CSM160SPGT	160	137	16		SPGT
DAM160138DAS	160	138	26.5	36.7	DAS
CSM160CCM8	160	139	8		CCM
CSM160CSH8	160	139	8.1		CSH
CSM160SPG8	160	139.5	8.1		SPG
CSM160SPGT/1	160	140	16		SPGT
CSM160SPGT/2	160	140	19		SPGT
DAM160140DAS	160	140	25	37.6	DAS
DAM160140DAL	160	140	31	45	DAL
CSM160CCMCAT	160	140.6	9.6		CCM
CSM160CCM9	160	141	9.3		CCM
DAM160143DAS	160	143	26.5	40.9	DAS
DAM160NCF3	160	143	27	48	NCF3
CSM160TC	160	143.2	9.5		TC
CSM160SPG7	160	144	7.5		SPG
CSM160SPG6	160	144.5	6.3		SPG
CSM160SPGT/3	160	145	12.5		SPGT
DAM165140DAS	165	140	25.4	37.6	DAS
CSM165DAE	165	140	32.5		DAE
CSM165SPGT	165	142	16		SPGT
CSM165SPG7	165	142.5	7.5		SPG
DAM165143DAS	165	143	26.5	36.7	DAS
CSM165CCM8	165	144	8		CCM
CSM165SPG8	165	144.5	8.1		SPG
CSM165TC	165	148.2	9.5		TC
CSM167CSS	167	155	4		CSS
DAM170140DAS	170	140	25	37.8	DAS
DAM170140DMT	170	140	45	70.4	DMT
DAM170145DAS	170	145	25.4	50.8	DAS
CSM170SPGT	170	147	16		SPGT
CSM170SPG11	170	148	11		SPG
DAM170148DAS	170	148	26.5	36.7	DAS
CSM170CCM8	170	149	8		CCM
CSM170CSH8	170	149	8.1		CSH
CSM170SPG8	170	149	8.1		SPG
CSM170SPG9	170	150	9		SPG
CSM170SPGT/1	170	150	16		SPGT

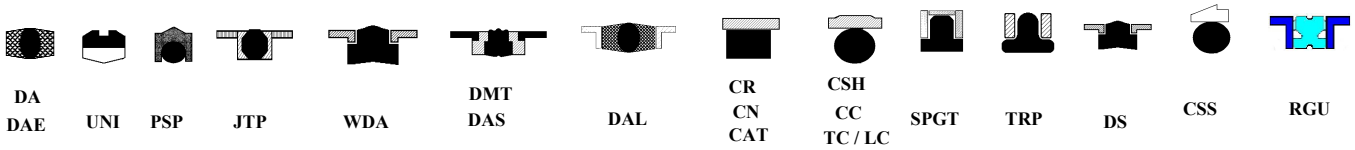
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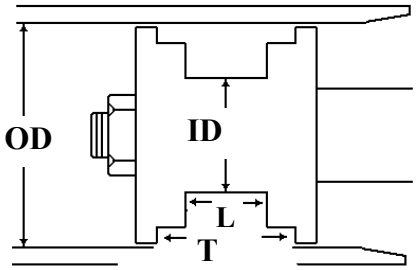


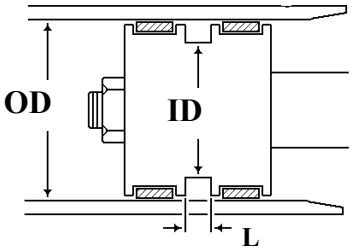
PART#	OD	ID	L	T	TYPE
DAM170150DAL	170	150	31	44	DAL
CSM170CCMCAT	170	150.6	9.6		CCM
CSM170SPG9/1	170	150.6	9.6		SPG
DAM170NCF3	170	153	48	48	NCF3
CSM170TC	170	153.2	9.5		TC
DAM175145WDA	175	145	35.4	48.1	WDA
DAM175150DAS	175	150	25.4	50.8	DAS
CSM175TC	175	158.2	9.5		TC
DAM180150DAS	180	150	35.4	48.1	DAS
DAM180155DAS	180	155	25.4	50.8	DAS
DAM180155DMT	180	155	45	70.4	DMT
CSM180SPGT	180	157	16		SPGT
CSM180SPG11	180	158	11		SPG
DAM180158DAS	180	158	26.5	36.7	DAS
CSM180CCM8	180	159	8		CCM
CSM180CSH8	180	159	8.1		CSH
CSM180SPG8	180	159.5	8.1		SPG
CSM180SPG9	180	160	9		SPG
CSM180SPGT/1	180	160	16		SPGT
DAM180160WDA	180	160	31.4	44.1	WDA
CSM180CCMCAT	180	160.62	9.5		CCM
DAM180163DAS	180	163	26.5	40.9	DAS
DAM185160DAS	185	160	25.4	50.8	DAS
DAM185160DMT	185	160	45	70.4	DMT
CSM185SPGT	185	162	16		SPGT
CSM185CSH8	185	164.5	8.1		CSH
CSM190CCMCAT	190	96.9	9.5		CCM
DAM190160WDA	190	160	35.4	48.1	WDA
DAM190165DAS	190	165	25.4	50.8	DAS
DAM190165DMT	190	165	45	70.4	DMT
CSM190SPGT	190	167	16		SPGT
CSM190SPG11	190	168	11		SPG
CSM190CCM8	190	169	8		CCM
CSM190SPG8	190	169.5	8.1		SPG
CSM190CSH8	190	169.5	8.1		CSH
DAM195170DAS	195	170	25.4	50.8	DAS
CSM195SPG8	195	174.5	8.1		SPG
DAM200170/1DAS	200	170	30	65.5	DAS
DAM200170DAS	200	170	35.4	48.2	DAS

PART#	OD	ID	L	T	TYPE
DAM200170DAL	200	170	36	61	DAL
DAM200170/2DAS	200	170	36	69	DAS
CSM200CCMCAT	200	174.73	9.63		CCM
DAM200175DAS	200	175	25.4	50.8	DAS
DAM200175/1DAS	200	175	31.5	44.7	DAS
DAM200175DMT	200	175	45	70.4	DMT
CSM200SPG8/1	200	175.5	8.1		SPG
CSM200SPGT	200	177	16		SPGT
CSM200SPG11	200	178	11		SPG
CSM200CCM8	200	179	8		CCM
CSM200CSH8	200	179	8.1		CSH
CSM200SPG8	200	179.5	8.1		SPG
CSM200SPGT/1	200	180	19		SPGT
DAM200180DAS	200	180	31.5	49.9	DAS
CSM200TC	200	183.2	9.5		TC
CSM200SPG6	200	184.5	6.3		SPG
DAM210180DAL	210	180	32		DAL
DAM210185DAS	210	185	25.4	50.8	DAS
DAM210185DMT	210	185	45	70.4	DMT
CSM210SPGT	210	187	16		SPGT
CSM210CSH8	210	189.5	8.1		CSH
CSM210SPG8	210	189.5	8.1		SPG
CSM215SPGT	215	192	16		SPGT
CSM215SPG8	215	194	8.1		SPG
DAM220190/1DAS	220	190	35.4	48.1	DAS
DAM220190DAS	220	190	35.4	48.1	DAS
DAM220195DAS	220	195	25.4	50.8	DAS
DAM220195DMT	220	195	45	70.4	DMT
CSM220SPGT	220	197	16		SPGT
CSM220CCMCAT	220	197.74	9.63		CCM
CSM220CCM8	220	199	8		CCM
CSM220CCM8-P	220	199	8		CCM
CSM220CSH8	220	199	8.1		CSH
CSM220SPG8	220	199.5	8.1		SPG
DAM220200DAS	220	200	31.5	49.9	DAS
DAM225195DAS	225	195	35.5	48.2	DAS
DAM225200DAS	225	200	31.5		DAS
CSM225SPGT	225	202	16		SPGT
CSM225SPG8	225	204	8.1		SPG
DAM230205DAS	230	205	25.4	50.8	DAS

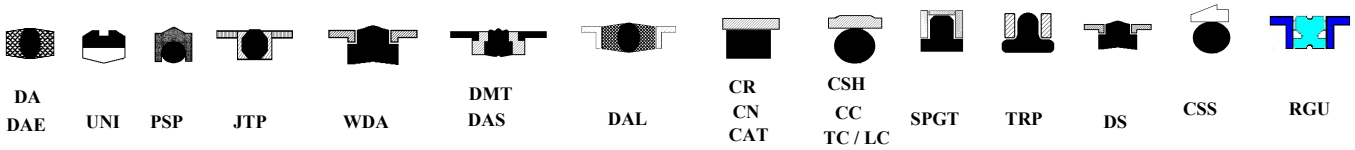
NB-- WHERE "T" IS NOT SHOWN ---- SEAL DOES NOT HAVE WEAR RINGS

DOUBLE ACTING ---- METRIC----
X REFERENCE





NOMINAL SIZING ONLY - NOT INTENDED FOR MACHINING



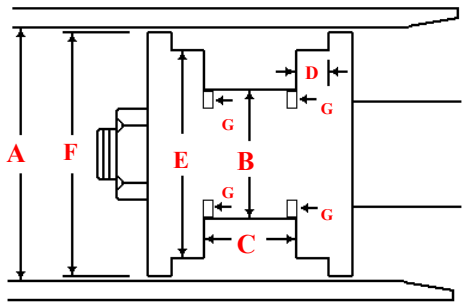
PART#	OD	ID	L	T	TYPE
DAM230205DMT	230	205	45	70.4	DMT
CSM230CCMCAT	230	205.5	16		CCM
CSM230CCMCAT-	230	205.5	16		CCM
CSM230SPGT	230	207	16		SPGT
CSM230SPG8-KY	230	209	8.1		SPG
CSM230CSH8	230	209	8.1		CSH
CSM230SPG8	230	209.5	8.1		SPG
CSM235SPGT	235	212	16		SPGT
DAM240215DAS	240	215	25.4	50.8	DAS
CSM240SPGT	240	217	16		SPGT
CSM240SPG8	240	219	8.1		SPG
DAM250220DAS	250	220	35.4	48.1	DAS
CSM250SPGT	250	222	17.5		SPGT
DAM250225DAS	250	225	25.4	50.8	DAS
DAM250225/1DAS	250	225	25.4	50.8	DAS
DAM250225DMT	250	225	45	70.4	DMT
CSM250SPG8/1	250	225.5	8.1		SPG
CSM250CCM8	250	229	8		CCM
CSM250CCM8-P	250	229	8		CCM
CSM250SPG8	250	229.5	8.1		SPG
CSM250CSH8	250	229.5	8.1		CSH
DAM250230DAS	250	230	31.5	49.9	DAS
CSM250TC	250	233.2	9.5		TC
CSM250CSS	250	236	5		CSS
CSM250SPG5	250	237	5.3		SPG
CSM260SPGT	260	232	17.5		SPGT
DAM260235DAS	260	235	35.4	60.8	DAS
CSM260SPG8/1	260	235.5	8.1		SPG
CSM260SPG8	260	239.5	8.1		SPG
CSM270SPGT	270	242	17.5		SPGT
DAM270245DMT	270	245	45	70.4	DMT
DAM280250/1DAS	280	250	35.4	54.4	DAS
DAM280250DAS	280	250	36.4	56.4	DAS
CSM280SPGT	280	252	17.5		SPGT
CSM280DAE	280	255	25		DAE
DAM280255DMT	280	255	45	70.4	DMT
CSM280CCM8	280	255.5	8		CCM
CSM280CCM8-P	280	255.5	8		CCM
CSM280SPG8/1	280	259	8.1		SPG

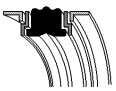
PART#	OD	ID	L	T	TYPE
DAM290265DMT	290	265	45	70.4	DMT
DAM300270WDA	300	270	35.4	48.1	WDA
CSM300CCM9	300	272	9.5		CCM
CSM300SPGT	300	272	17.5		SPGT
DAM300275DMT	300	275	45	70.4	DMT
CSM300CCM8	300	279	8.1		CCM
CSM300CSH8	300	279.5	8.1		CSH
CSM300SPG8	300	279.5	8.1		SPG
CSM320CCM9-P	320	292	9.5		CCM
CSM320SPGT	320	292	17.5		SPGT
CSM320SPG8	320	295.5	8.1		SPG
CSM320SPG8/1	320	299	8.1		SPG
CSM330CCM9-P	320	302	9.5		CCM
CSM320TC	320	303.2	9.5		TC
CSM350CCM9	350	322	9.3		CCM
CSM350CCM9-P	350	322	9.5		CCM
CSM360CCM9	360	322	9.5		CCM
DAM360335DMT	360	335	44.5	70	DMT
CSM400SPG8	400	375	8.1		SPG
CSM420CCM9	420	392	9.5		CCM
CSM420CCM9-P	420	392	9.5		CCM
CSM500SPG8	500	475.5	8.1		SPG

NB-- WHERE "T" IS NOT SHOWN ---- SEAL DOES NOT HAVE WEAR RINGS

DOUBLE ACTING

1 PIECE PISTON



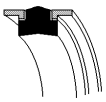


DAS

5 PIECE SEAL

MEDIUM DUTY

MAX 5,800 PSI

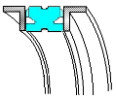


DS

3 PIECE SEAL

LIGHT DUTY

MAX2,200 PSI

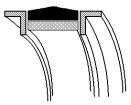


RGU

3 PIECE SEAL

MEDIUM DUTY

MAX 3000 PSI



DASH

(WITH "GROOVED PISTON")

4 PIECE SEAL

MEDIUM DUTY

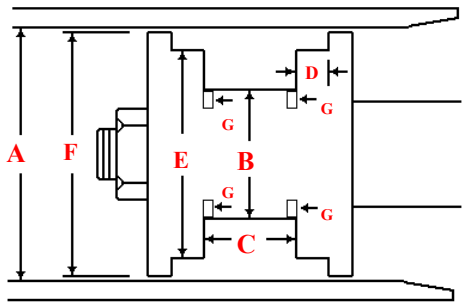
MAX 58000 PSI

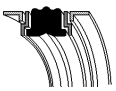
NITRILE RUBBER SEALING RING --ACETAL BACKUPS / BEARING RINGS

PART #	A	B +0.1 -0.0	C -0.0 +0.2	D +/- 0.1	E -0.05 +0.0	F +/- 0.2	G
DAM02011DAS	20.00	11.00	13.50	2.10	17.00	19.00	
DAM02213DAS	22.00	13.00	13.50	2.10	19.00	21.00	
DAM02515/1DAS	25.00	15.00	12.00	4.00	21.00	23.00	
DAM02515/2DAS	25.00	15.00	12.50	4.00	22.00	24.00	
DAM02515DAS	25.00	15.00	16.40	6.35	21.45	23.50	
DAM02516DAS	25.00	16.00	13.50	2.10	22.00	24.00	
DAM02517/1DAS	25.00	17.00	10.00	4.00	22.00	24.00	
DAM02517/2DAS	25.00	17.00	13.50	3.20	21.00	24.40	
DAM02517DASH	25.00	17.00	13.50	3.20	21.00	24.40	3 x 2.1
DAM02517.5DS	25.00	17.50	8.50	3.25	21.30	24.00	
DAM02819DAS	28.00	19.00	13.50	2.10	25.00	27.00	
DAM03017DAS	30.00	17.00	15.40	6.35	26.50	28.50	
DAM03021DAS	30.00	21.00	13.50	2.10	27.00	29.00	
DAM03022DASH	30.00	22.00	13.50	3.20	26.00	29.40	3 x 2.1
DAM03022DAS	30.00	22.00	13.50	3.20	26.00	29.40	
DAM03222DS	32.00	22.00	11.00	4.00	27.50	31.00	
DAM03222/1DAS	32.00	22.00	15.50	2.60	28.00	31.00	
DAM03222/2DAS	32.00	22.00	15.50	4.00	29.00	31.00	
DAM03222DAS	32.00	22.00	16.40	6.35	28.50	30.50	
DAM03224/1DAS	32.00	24.00	10.00	4.00	29.00	31.00	
DAM03224DAS	32.00	24.00	15.50	3.10	28.00	31.00	
DAM03224DASH	32.00	24.00	15.50	3.10	28.00	31.00	3 X 2.1
DAM03525/1DAS	35.00	25.00	15.50	2.60	31.00	34.00	
DAM03525DAS	35.00	25.00	16.40	6.35	31.40	33.50	
DAM03527DAS	35.00	27.00	15.50	3.20	31.00	34.40	
DAM03527DASH	35.00	27.00	15.50	3.20	31.00	34.40	3 x 3.1
DAM04024DAS	40.00	24.00	18.40	6.35	35.40	38.50	
DAM04026DAS	40.00	26.00	15.50	2.60	36.00	39.00	
DAM04030DS	40.00	30.00	11.00	4.00	35.50	39.00	
DAM04030/1DAS	40.00	30.00	12.50	4.00	36.00	38.00	
DAM04030/2DAS	40.00	30.00	12.50	4.00	37.00	39.00	
DAM04030DAS	40.00	30.00	16.40	6.35	35.40	38.50	
DAM04032/1DAS	40.00	32.00	10.00	4.00	37.00	39.00	
DAM04032DAS	40.00	32.00	15.50	3.20	36.00	39.40	
DAM04032DASH	40.00	32.00	15.50	3.20	36.00	39.40	3 x 3.1

DOUBLE ACTING

1 PIECE PISTON



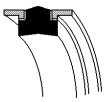


DAS

5 PIECE SEAL

MEDIUM DUTY

MAX 5,800 PSI

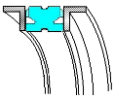


DS

3 PIECE SEAL

LIGHT DUTY

MAX2,200 PSI

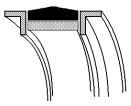


RGU

3 PIECE SEAL

MEDIUM DUTY

MAX 3000 PSI



DASH

(WITH "GROOVED PISTON")

4 PIECE SEAL

MEDIUM DUTY

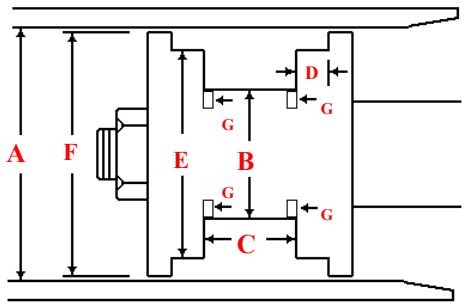
MAX 58000 PSI

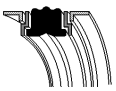
NITRILE RUBBER SEALING RING --ACETAL BACKUPS / BEARING RINGS

PART #	A	B + 0.1 - 0.0	C - 0.0 +0.2	D +/- 0.1	E - 0.05 + 0.0	F +/- 0.2	G
DAM040RGU	40.00	35.00	10.00	4.00	37.00	39.40	
DAM04228DAS	42.00	28.00	15.50	2.60	38.00	41.00	
DAM04529DAS	45.00	29.00	18.40	6.35	40.40	43.70	
DAM04531DAS	45.00	31.00	15.50	2.60	41.00	44.00	
DAM045RGU	45.00	35.00	10.00	4.00	42.00	44.40	
DAM04535DAS	45.00	35.00	16.40	6.35	40.40	43.50	
DAM04537DASH	45.00	37.00	15.50	3.20	41.00	44.00	3 x 3.1
DAM04537DAS	45.00	37.00	15.50	3.20	41.00	44.40	
DAM05034DAS	50.00	34.00	18.40	6.35	45.40	48.50	
DAM05034/1DAS	50.00	34.00	20.50	3.10	46.00	49.00	
DAM05035DAL	50.00	35.00	24.00	6.00	44.00	48.00	
DAM05038DAS	50.00	38.00	20.50	4.20	46.00	49.00	
DAM050RGU	50.00	40.00	10.00	4.00	47.00	49.40	
DAM05040DAS	50.00	40.00	11.00	4.00	45.44	49.00	
DAM05040/1DAS	50.00	40.00	12.50	4.00	47.00	49.00	
DAM05539DAS	55.00	39.00	18.40	6.35	50.36	53.50	
DAM05539/1DAS	55.00	39.00	20.50	3.10	51.00	54.00	
DAM05543DAS	55.00	43.00	20.50	4.20	51.00	54.00	
DAM055RGU	55.00	45.00	10.00	0.00	0.00	0.00	
DAM05545DS	55.00	45.00	11.00	4.00	50.50	54.00	
DAM05545DAS	55.00	45.00	12.50	4.00	52.00	54.00	
DAM05640DAS	56.00	40.00	20.50	3.10	52.00	55.00	
DAM06044DAS	60.00	44.00	18.40	6.35	55.40	58.50	
DAM06044/1DAS	60.00	44.00	20.50	3.10	56.00	59.00	
DAM06045DAS	60.00	45.00	22.12	6.35	55.40	58.65	
DAM06048DAS	60.00	48.00	20.50	4.20	56.00	59.00	
DAM060RGU	60.00	50.00	10.00	4.00	57.00	59.40	
DAM06347DAS	63.00	47.00	18.40	6.35	58.40	61.50	
DAM06347/2DAS	63.00	47.00	19.40	6.35	58.40	61.50	
DAM06347/1DAS	63.00	47.00	20.50	3.10	59.00	62.00	
DAM06348DAS	63.00	48.00	20.00	5.00	59.00	61.50	
DAM06351DAS	63.00	51.00	20.50	4.20	59.00	62.40	
DAM063RGU	63.00	53.00	10.00	4.00	60.00	62.40	
DAM06353/1DAS	63.00	53.00	11.00	4.00	58.50	61.50	
DAM06353DS	63.00	53.00	11.00	4.00	58.50	61.50	

DOUBLE ACTING

1 PIECE PISTON



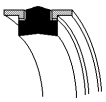


DAS

5 PIECE SEAL

MEDIUM DUTY

MAX 5,800 PSI

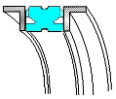


DS

3 PIECE SEAL

LIGHT DUTY

MAX2,200 PSI

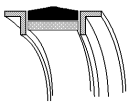


RGU

3 PIECE SEAL

MEDIUM DUTY

MAX 3000 PSI



DASH

(WITH "GROOVED PISTON")

4 PIECE SEAL

MEDIUM DUTY

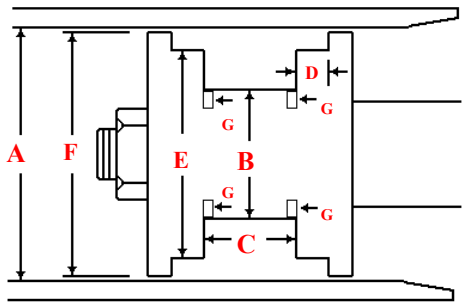
MAX 58000 PSI

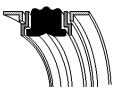
NITRILE RUBBER SEALING RING --ACETAL BACKUPS / BEARING RINGS

PART #	A	B + 0.1 - 0.0	C - 0.0 +0.2	D +/- 0.1	E - 0.05 + 0.0	F +/- 0.2	G
DAM06353DAS	63.00	53.00	12.50	4.00	60.00	61.00	
DAM06549DAS	65.00	49.00	20.50	3.10	61.00	64.00	
DAM06550DAS	65.00	50.00	18.40	6.35	60.40	63.50	
DAM06553DAS	65.00	53.00	20.50	4.20	61.00	64.00	
DAM065RGU	65.00	55.00	11.00	5.00	61.00	64.20	
DAM06751DAS	67.00	51.00	18.40	6.35	62.40	65.60	
DAM07050DAS	70.00	50.00	22.40	6.35	64.20	68.30	
DAM07054DAS	70.00	54.00	20.50	3.10	66.00	69.00	
DAM07055/1DAS	70.00	55.00	20.00	5.00	66.00	68.50	
DAM07055DAS	70.00	55.00	22.12	6.35	64.15	68.35	
DAM070NCF3	70.00	56.00	22.00	4.00	66.00	0.00	
DAM070NCF5	70.00	56.00	22.00	8.00	62.00	0.00	
DAM07058DAS	70.00	58.00	20.50	4.20	66.00	69.00	
DAM07058DAS/1	70.00	58.00	20.50	4.20	66.00	69.40	
DAM070RGU	70.00	60.00	11.00	5.00	66.00	69.20	
DAM07555DAS	75.00	55.00	22.40	6.35	69.20	73.30	
DAM07559DAS	75.00	59.00	20.50	3.10	71.00	74.00	
DAM07563DAS	75.00	63.00	20.00	4.20	71.00	74.40	
DAM075RGU	75.00	65.00	11.00	5.00	71.00	74.20	
DAM08060DAS	80.00	60.00	22.40	6.35	74.15	78.30	
DAM08060/2DAS	80.00	60.00	25.00	6.35	75.00	78.00	
DAM08060/1DAS	80.00	60.00	35.00	9.52	72.62	77.54	
DAM08062DAS	80.00	62.00	22.50	3.60	76.00	79.00	
DAM08065DAS	80.00	65.00	20.00	4.20	76.00	79.40	
DAM08065DASH	80.00	65.00	20.00	5.00	76.00	78.50	
DAM08065/1DAS	80.00	65.00	22.12	6.35	74.15	78.35	
DAM080NCF3	80.00	66.00	22.00	5.00	76.00	0.00	
DAM080NCF5	80.00	66.00	22.00	10.00	72.00	0.00	
DAM08066DAS	80.00	66.00	22.50	5.20	76.00	79.40	
DAM080RGU	80.00	67.00	12.50	5.00	76.00	79.20	
DAM08070DS	80.00	70.00	11.00	4.00	75.50	78.50	
DAM08565/1DAS	85.00	65.00	21.40	6.35	79.15	83.30	
DAM08565DAS	85.00	65.00	22.40	6.35	79.15	83.30	
DAM08571DAS	85.00	71.00	22.50	5.20	81.00	84.40	
DAM085RGU	85.00	72.00	12.50	5.00	81.00	84.20	
DAM08575DAS	85.00	75.00	20.00	4.00	81.00	83.35	

DOUBLE ACTING

1 PIECE PISTON



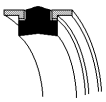


DAS

5 PIECE SEAL

MEDIUM DUTY

MAX 5,800 PSI

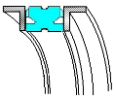


DS

3 PIECE SEAL

LIGHT DUTY

MAX2,200 PSI

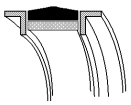


RGU

3 PIECE SEAL

MEDIUM DUTY

MAX 3000 PSI



DASH

(WITH "GROOVED PISTON")

4 PIECE SEAL

MEDIUM DUTY

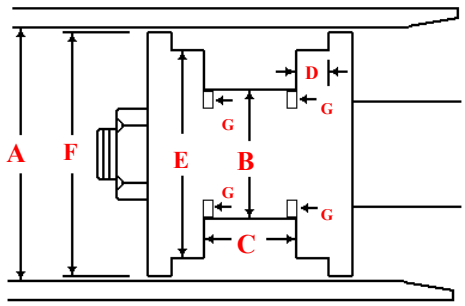
MAX 58000 PSI

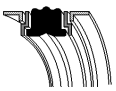
NITRILE RUBBER SEALING RING --ACETAL BACKUPS / BEARING RINGS

PART #	A	B + 0.1 - 0.0	C - 0.0 +0.2	D +/- 0.1	E - 0.05 + 0.0	F +/- 0.2	G
DAM09070DAS	90.00	70.00	22.40	6.35	84.15	88.30	
DAM09070/1DAS	90.00	70.00	29.62	6.35	84.15	88.35	
DAM09072/1DAS	90.00	72.00	22.50	3.20	86.00	89.00	
DAM09072DAS	90.00	72.00	22.50	3.60	86.00	89.00	
DAM09075DAS	90.00	75.00	20.00	5.00	86.00	88.50	
DAM090NCF3	90.00	76.00	22.00	5.00	86.00	89.40	
DAM090NCF5	90.00	76.00	22.00	8.00	82.00	89.40	
DAM09076DAS	90.00	76.00	22.50	5.20	86.00	89.00	
DAM090RGU	90.00	77.00	12.50	5.00	86.00	89.20	
DAM09080DAS	90.00	80.00	12.50	5.00	86.00	88.50	
DAM09282DAS	92.00	82.00	12.50	6.40	88.04	90.40	
DAM09575DAS	95.00	75.00	22.40	6.35	89.15	93.30	
DAM09581DAS	95.00	81.00	22.40	5.20	91.00	94.40	
DAM10075DAS	100.00	75.00	22.40	6.35	93.15	98.00	
DAM10080/4DAS	100.00	80.00	25.00	6.35	95.00	98.00	
DAM10080DAS	100.00	80.00	25.40	6.35	95.00	98.05	
DAM10080/3DAS	100.00	80.00	25.42	6.35	94.14	98.30	
DAM10080/2DAS	100.00	80.00	29.62	6.35	94.15	98.35	
DAM10080/1DAS	100.00	80.00	35.00	9.52	92.61	97.51	
DAM10082DAS	100.00	82.00	22.50	3.60	96.00	99.00	
DAM100RGU	100.00	85.00	14.00	5.00	96.00	99.20	
DAM10085DAS	100.00	85.00	20.00	5.00	96.00	98.50	
DAM100NCF3	100.00	86.00	22.00	5.00	96.00	0.00	
DAM100NCF5	100.00	86.00	22.00	10.00	92.00	0.00	
DAM10086DAS	100.00	86.00	22.50	5.20	96.00	99.40	
DAM10087DS	100.00	87.00	14.00	6.00	93.80	98.50	
DAM10090DAS	100.00	90.00	22.50	5.00	96.00	98.50	
DAM10580DAS	105.00	80.00	22.40	6.35	98.10	103.00	
DAM10592.5DAS	105.00	92.50	14.30	5.35	98.80	104.40	
DAM11085DAS	110.00	85.00	22.40	6.35	103.10	108.00	
DAM11085/1DAS	110.00	85.00	25.00	6.40	103.10	108.00	
DAM11090/2DAS	110.00	90.00	25.30	6.40	104.10	108.30	
DAM11090DAS	110.00	90.00	29.62	6.35	103.10	108.00	
DAM11090/1DAS	110.00	90.00	35.00	9.52	102.60	107.51	
DAM11092DAS	110.00	92.00	22.50	3.60	106.00	109.00	
DAM11095DAS	110.00	95.00	20.00	5.00	105.00	108.00	

DOUBLE ACTING

1 PIECE PISTON



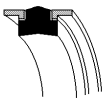


DAS

5 PIECE SEAL

MEDIUM DUTY

MAX 5,800 PSI

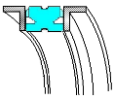


DS

3 PIECE SEAL

LIGHT DUTY

MAX2,200 PSI

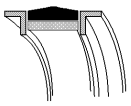


RGU

3 PIECE SEAL

MEDIUM DUTY

MAX 3000 PSI



DASH

(WITH "GROOVED PISTON")

4 PIECE SEAL

MEDIUM DUTY

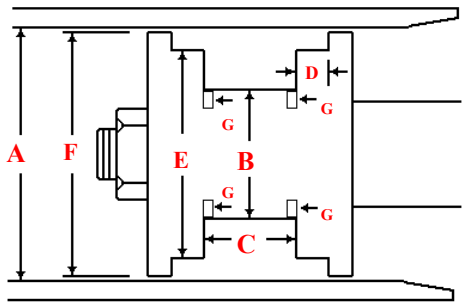
MAX 58000 PSI

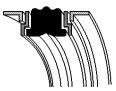
NITRILE RUBBER SEALING RING --ACETAL BACKUPS / BEARING RINGS

PART #	A	B + 0.1 - 0.0	C - 0.0 +0.2	D +/- 0.1	E - 0.05 + 0.0	F +/- 0.2	G
DAM110NCF3	110.00	96.00	22.00	5.00	106.00	0.00	
DAM11096DAS	110.00	96.00	22.50	5.20	106.00	109.40	
DAM11590DAS	115.00	90.00	22.40	6.35	108.10	113.00	
DAM11597/1DAS	115.00	97.00	22.40	4.20	111.00	114.40	
DAM11597DAS	115.00	97.00	22.50	3.60	111.00	114.40	
DAM115101DAS	115.00	101.00	22.40	5.20	111.00	114.40	
DAM12095DAS	120.00	95.00	22.40	6.35	113.10	118.00	
DAM120100DAS	120.00	100.00	29.62	6.35	113.10	118.00	
DAM120100/1DAS	120.00	100.00	35.00	9.50	112.80	117.50	
DAM120NCF3	120.00	106.00	22.00	5.00	116.00	119.40	
DAM120NCF5	120.00	106.00	22.00	10.00	112.00	119.40	
DAM120106DAS	120.00	106.00	22.50	5.20	116.00	117.40	
DAM125100DAS	125.00	100.00	25.40	6.35	118.10	123.00	
DAM125100/1DAS	125.00	100.00	25.40	12.70	118.10	123.00	
DAM125100/3DAS	125.00	100.00	32.00	10.00	119.00	123.00	
DAM125100/4DAS	125.00	100.00	45.00	12.70	116.82	122.33	
DAM125103DAS	125.00	103.00	26.50	5.10	121.00	124.00	
DAM125105/2DAS	125.00	105.00	25.00	6.35	120.00	123.00	
DAM125105/1DAS	125.00	105.00	25.40	6.35	119.10	123.30	
DAM125105DAS	125.00	105.00	25.40	6.35	120.00	123.00	
DAM125108DAS	125.00	108.00	26.50	7.20	121.00	123.40	
DAM130105DAS	130.00	105.00	25.40	6.35	123.10	128.00	
DAM130105/2DAS	130.00	105.00	25.40	9.52	122.60	127.50	
DAM130105/1DAS	130.00	105.00	25.40	9.52	123.10	128.00	
DAM130113DAS	130.00	113.00	26.50	7.20	126.00	128.40	
DAM133115DAS	133.00	115.00	22.40	9.52	125.60	130.50	
DAM135110/1DAS	135.00	110.00	25.40	6.35	128.10	133.00	
DAM135110DAS	135.00	110.00	25.40	9.50	127.60	132.50	
DAM140115/1DAS	140.00	115.00	25.40	6.35	132.60	138.00	
DAM140115DAS	140.00	115.00	25.40	9.50	132.60	137.50	
DAM140115/2DAS	140.00	115.00	45.00	12.70	131.70	137.36	
DAM140118DAS	140.00	118.00	26.50	5.10	136.00	139.00	
DAM140120DAS	140.00	120.00	25.00	6.30	135.00	138.00	
DAM140NCF3	140.00	123.00	26.00	11.00	136.00	139.40	
DAM140123DAS	140.00	123.00	26.50	7.20	136.00	138.40	

DOUBLE ACTING

1 PIECE PISTON



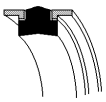


DAS

5 PIECE SEAL

MEDIUM DUTY

MAX 5,800 PSI

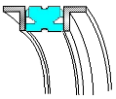


DS

3 PIECE SEAL

LIGHT DUTY

MAX2,200 PSI

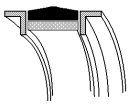


RGU

3 PIECE SEAL

MEDIUM DUTY

MAX 3000 PSI



DASH

(WITH "GROOVED PISTON")

4 PIECE SEAL

MEDIUM DUTY

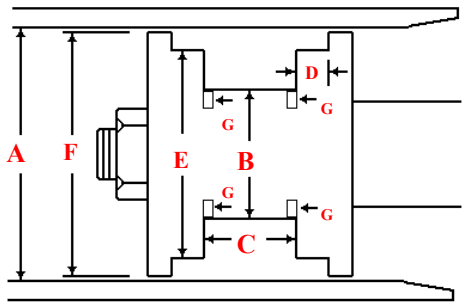
MAX 58000 PSI

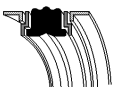
NITRILE RUBBER SEALING RING --ACETAL BACKUPS / BEARING RINGS

PART #	A	B + 0.1 - 0.0	C - 0.0 +0.2	D +/- 0.1	E - 0.05 + 0.0	F +/- 0.2	G
DAM145120/1DAS	145.00	120.00	25.40	6.35	138.30	142.50	
DAM145120DAS	145.00	120.00	25.40	9.50	137.60	142.50	
DAM145130DAS	145.00	130.00	25.40	6.35	138.30	142.50	
DAM150125/1DAS	150.00	125.00	25.40	6.35	143.00	148.00	
DAM150125DAS	150.00	125.00	25.40	9.50	142.60	147.50	
DAM150128DAS	150.00	128.00	26.50	5.10	146.00	147.40	
DAM150130DAS	150.00	130.00	25.40	6.35	144.10	148.30	
DAM150NCF3	150.00	133.00	26.00	11.00	146.00	0.00	
DAM150133DAS	150.00	133.00	26.50	7.20	146.00	147.40	
DAM155130/1DAS	155.00	130.00	25.40	6.35	148.00	153.00	
DAM155130DAS	155.00	130.00	25.40	9.50	147.60	152.50	
DAM160130DAS	160.00	130.00	25.40	6.35	153.00	157.00	
DAM160130/1DAS	160.00	130.00	25.40	9.50	152.60	157.50	
DAM160130/2DAS	160.00	130.00	25.40	9.52	153.00	157.50	
DAM160135DAS	160.00	135.00	25.40	9.50	152.60	157.50	
DAM160135/2DAS	160.00	135.00	32.00	10.00	154.00	158.00	
DAM160135/1DAS	160.00	135.00	45.00	12.70	151.72	157.10	
DAM160138DAS	160.00	138.00	26.50	5.10	156.00	159.00	
DAM160140DAS	160.00	140.00	25.00	6.30	155.00	158.00	
DAM160143DAS	160.00	143.00	26.50	7.20	156.00	158.40	
DAM160NCF3	160.00	143.00	27.00	11.00	156.00	0.00	
DAM165140DAS	165.00	140.00	25.40	9.50	157.60	162.50	
DAM165143DAS	165.00	143.00	26.50	5.10	161.00	164.00	
DAM170140DAS	170.00	140.00	25.00	6.40	162.95	167.90	
DAM170145DAS	170.00	145.00	25.40	12.70	161.70	167.10	
DAM170148DAS	170.00	148.00	26.50	5.10	166.00	168.40	
DAM170NCF3	170.00	153.00	27.00	11.00	166.00	0.00	
DAM175150DAS	175.00	150.00	25.40	12.70	166.70	172.10	
DAM180150DAS	180.00	150.00	35.40	6.35	172.95	177.87	
DAM180155DAS	180.00	155.00	25.40	12.70	171.70	177.10	
DAM180158DAS	180.00	158.00	26.50	5.10	176.00	179.00	
DAM180163DAS	180.00	163.00	26.50	7.20	176.00	178.40	
DAM185160DAS	185.00	160.00	25.40	12.70	176.70	182.10	
DAM190165DAS	190.00	165.00	25.40	12.70	181.70	187.00	

DOUBLE ACTING

1 PIECE PISTON



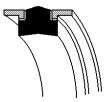


DAS

5 PIECE SEAL

MEDIUM DUTY

MAX 5,800 PSI

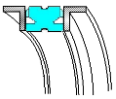


DS

3 PIECE SEAL

LIGHT DUTY

MAX2,200 PSI

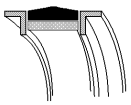


RGU

3 PIECE SEAL

MEDIUM DUTY

MAX 3000 PSI



DASH

(WITH "GROOVED PISTON")

4 PIECE SEAL

MEDIUM DUTY

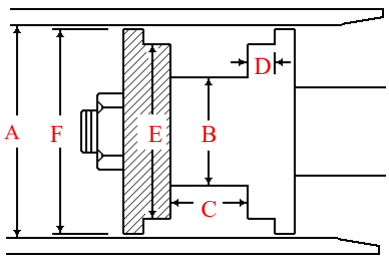
MAX 58000 PSI

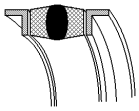
NITRILE RUBBER SEALING RING --ACETAL BACKUPS / BEARING RINGS

PART #	A	B + 0.1 - 0.0	C - 0.0 +0.2	D +/- 0.1	E - 0.05 + 0.0	F +/- 0.2	G
DAM195170DAS	195.00	170.00	25.40	12.70	186.70	192.00	
DAM200170/1DAS	200.00	170.00	30.00	15.00	192.00	197.00	
DAM200170DAS	200.00	170.00	35.40	6.40	193.00	198.00	
DAM200170/2DAS	200.00	170.00	36.00	12.50	192.00	197.00	
DAM200175DAS	200.00	175.00	25.40	12.70	191.60	197.00	
DAM200175/1DAS	200.00	175.00	31.50	6.60	196.00	199.00	
DAM200180DAS	200.00	180.00	31.50	9.20	196.00	198.40	
DAM210185DAS	210.00	185.00	25.40	12.70	201.60	207.00	
DAM220190DAS	220.00	190.00	35.40	6.35	212.70	217.90	
DAM220190/1DAS	220.00	190.00	35.40	6.35	213.50	217.90	
DAM220195DAS	220.00	195.00	25.40	12.70	211.60	217.00	
DAM220200DAS	220.00	200.00	31.50	9.20	216.00	218.40	
DAM225195DAS	225.00	195.00	35.50	6.35	218.00	223.00	
DAM225200DAS	225.00	200.00	31.50	6.60	221.00	224.00	
DAM230205DAS	230.00	205.00	25.40	12.70	221.60	227.00	
DAM240215DAS	240.00	215.00	25.40	12.70	231.60	237.00	
DAM250220DAS	250.00	220.00	35.40	6.35	242.90	247.85	
DAM250225DAS	250.00	225.00	25.40	12.70	241.60	247.00	
DAM250225/1DAS	250.00	225.00	25.40	12.70	241.62	247.00	
DAM250230DAS	250.00	230.00	31.50	9.20	246.00	248.40	
DAM260235DAS	260.00	235.00	35.40	12.70	252.90	257.00	
DAM280250/1DAS	280.00	250.00	35.40	9.52	272.90	277.85	
DAM280250DAS	280.00	250.00	36.40	10.00	273.00	278.00	

DOUBLE ACTING

2 PIECE PISTON



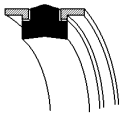


DAL

3 PIECE SEAL

MEDIUM DUTY

MAX 7,250 PSI

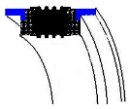


WDA

3 PIECE SEAL

MEDIUM DUTY

MAX 7,250 PSI



DMT

5 PIECE SEAL

HEAVY DUTY

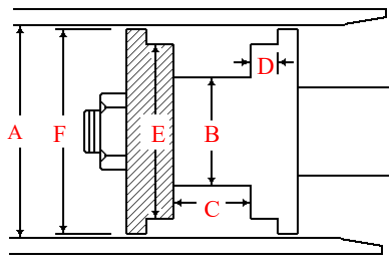
MAX 10,000 PSI

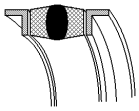
NITRILE RUBBER SEALING RING -- ACETAL BACKUP / BEARING RINGS

PART #	A	B + 0.1 - 0.0	C - 0.0 +0.2	D +/- 0.1	E - 0.05 + 0.0	F +/- 0.2
DAM02512WDA	25.00	12.00	12.41	6.35	21.45	23.70
DAM03017DMT	30.00	17.00	15.40	6.35	26.50	28.50
DAM03219WDA	32.00	19.00	15.40	6.35	28.50	30.90
DAM03522WDA	35.00	22.00	15.40	6.35	31.40	33.70
DAM03522.3DAL	35.00	22.30	19.40	6.30	31.52	34.00
DAM04025DAL	40.00	25.00	24.00	6.00	34.80	39.00
DAM05030WDA	50.00	30.00	25.40	6.35	44.30	48.30
DAM05034DMT	50.00	34.00	32.00	6.35	43.77	47.80
DAM05540DAL	55.00	40.00	24.00	6.00	49.80	53.50
DAM05540DMT	55.00	40.00	32.00	6.35	48.77	52.80
DAM05842DMT	58.00	42.00	32.00	9.52	51.10	56.00
DAM06040DAL	60.00	40.00	31.00	7.00	54.00	58.00
DAM06044DMT	60.00	44.00	32.00	6.35	53.80	57.80
DAM06048DAL	60.00	48.00	20.50	4.20	56.00	59.40
DAM06343DAL	63.00	43.00	31.00	7.00	56.80	61.50
DAM06347WDA	63.00	47.00	19.00	6.35	58.40	61.60
DAM06347DMT	63.00	47.00	32.00	6.35	56.74	60.81
DAM06348/1DAL	63.00	48.00	24.00	6.00	57.80	61.50
DAM06549DMT	65.00	49.00	32.00	6.35	58.70	62.80
DAM07050/1DMT	70.00	50.00	22.40	6.35	64.20	68.30
DAM07050DAL	70.00	50.00	31.00	7.00	64.00	68.00
DAM07050DMT	70.00	50.00	35.00	9.52	62.62	67.50
DAM07058DAL	70.00	58.00	20.50	4.20	66.00	69.40
DAM07555DAL	75.00	55.00	31.00	7.00	68.85	73.00
DAM07556WDA	75.00	56.00	24.40	6.35	69.20	73.30

DOUBLE ACTING

2 PIECE PISTON



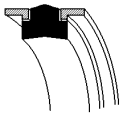


DAL

3 PIECE SEAL

MEDIUM DUTY

MAX 7,250 PSI

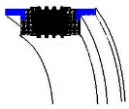


WDA

3 PIECE SEAL

MEDIUM DUTY

MAX 7,250 PSI



DMT

5 PIECE SEAL

HEAVY DUTY

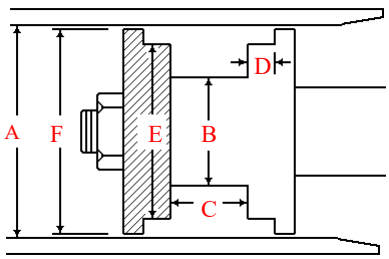
MAX 10,000 PSI

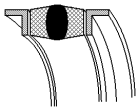
NITRILE RUBBER SEALING RING -- ACETAL BACKUP / BEARING RINGS

PART #	A	B +0.1 -0.0	C -0.0 +0.2	D +/- 0.1	E -0.05 +0.0	F +/- 0.2
DAM07563DAL	75.00	63.00	20.50	4.20	71.00	74.40
DAM08060DAL	80.00	60.00	31.00	7.00	74.00	78.00
DAM08060DMT	80.00	60.00	35.00	9.52	72.62	77.50
DAM08064DMT	80.00	64.00	32.00	9.52	72.62	77.50
DAM08363WDA	83.00	63.00	22.40	6.35	76.16	81.30
DAM08565DMT	85.00	65.00	35.00	9.52	77.62	82.50
DAM09070WDA	90.00	70.00	25.40	6.35	84.15	88.30
DAM09070DAL	90.00	70.00	31.00	7.00	84.00	88.00
DAM09070DMT	90.00	70.00	35.00	9.52	82.58	87.80
DAM09074DMT	90.00	74.00	32.00	9.52	82.87	87.80
DAM09076DAL	90.00	76.00	22.50	5.20	86.00	89.40
DAM09575DMT	95.00	75.00	35.00	9.52	87.60	92.50
DAM10075DAL	100.00	75.00	26.00	9.50	93.85	98.00
DAM10080DAL	100.00	80.00	31.00	7.00	94.00	98.00
DAM10080DMT	100.00	80.00	35.00	9.52	92.60	97.50
DAM10086DAL	100.00	86.00	22.50	5.20	96.00	99.40
DAM10585WDA	105.00	85.00	22.40	6.35	98.10	103.00
DAM10585DMT	105.00	85.00	35.00	9.52	97.60	102.50
DAM11085DMT	110.00	85.00	45.00	12.70	101.82	107.30
DAM11090WDA	110.00	90.00	25.40	6.35	104.15	108.30
DAM11090DAL	110.00	90.00	31.00	7.00	104.00	108.00
DAM11090DMT	110.00	90.00	35.00	9.52	102.70	107.50
DAM110NCF5	110.00	96.00	22.00	10.00	102.00	0.00
DAM11590DMT	115.00	90.00	45.00	12.70	106.82	112.30
DAM120100WDA	120.00	100.00	25.40	6.35	114.10	118.30
DAM120100DAL	120.00	100.00	31.00	7.00	114.00	118.00
DAM120100DMT	120.00	100.00	35.00	9.52	112.80	117.50

DOUBLE ACTING

2 PIECE PISTON



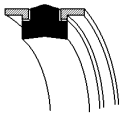


DAL

3 PIECE SEAL

MEDIUM DUTY

MAX 7,250 PSI

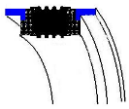


WDA

3 PIECE SEAL

MEDIUM DUTY

MAX 7,250 PSI



DMT

5 PIECE SEAL

HEAVY DUTY

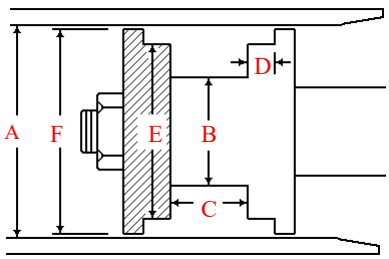
MAX 10,000 PSI

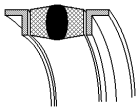
NITRILE RUBBER SEALING RING -- ACETAL BACKUP / BEARING RINGS

PART #	A	B + 0.1 - 0.0	C - 0.0 +0.2	D +/- 0.1	E - 0.05 + 0.0	F +/- 0.2
DAM125100WDA	125.00	100.00	32.40	6.35	118.10	123.00
DAM125100DAL	125.00	100.00	38.00	9.50	118.80	123.00
DAM125100DMT	125.00	100.00	45.00	12.70	116.82	122.30
DAM125108DAL	125.00	108.00	26.50	7.20	121.00	124.40
DAM130104WDA	130.00	104.00	32.40	6.35	123.10	128.00
DAM130104/1DAL	130.00	104.00	38.00	9.50	123.85	128.00
DAM130105DMT	130.00	105.00	45.00	12.70	121.82	127.30
DAM130110DMT	130.00	110.00	35.00	9.52	122.70	127.30
DAM140115DAL	140.00	115.00	25.00	6.50	134.00	138.00
DAM140115DMT	140.00	115.00	45.00	12.70	131.72	137.30
DAM140120DAL	140.00	120.00	31.00	7.00	133.80	138.00
DAM140120DMT	140.00	120.00	35.00	9.52	132.70	137.30
DAM145120WDA	145.00	120.00	25.00	6.35	138.30	143.00
DAM145125DAL	145.00	125.00	31.00	7.00	138.50	143.00
DAM150120WDA	150.00	120.00	38.40	6.35	143.00	148.00
DAM150125DAL	150.00	125.00	38.00	6.45	143.50	148.00
DAM150125DMT	150.00	125.00	45.00	12.70	141.72	147.30
DAM160130DAL	160.00	130.00	25.00	0.00	0.00	0.00
DAM160135DMT	160.00	135.00	45.00	12.70	151.72	157.10
DAM160140DAL	160.00	140.00	31.00	7.00	154.00	158.00
DAM170140DMT	170.00	140.00	45.00	12.70	163.00	167.87
DAM170150DAL	170.00	150.00	31.00	0.00	0.00	0.00
DAM175145WDA	175.00	145.00	35.40	6.35	167.95	172.90
DAM180155DMT	180.00	155.00	45.00	12.70	171.60	177.10
DAM180160WDA	180.00	160.00	31.40	6.35	172.95	177.90
DAM185160DMT	185.00	160.00	45.00	12.70	176.72	182.10
DAM190160WDA	190.00	160.00	35.40	6.35	182.93	187.90
DAM190165DMT	190.00	165.00	45.00	12.70	181.72	187.10

DOUBLE ACTING

2 PIECE PISTON



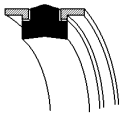


DAL

3 PIECE SEAL

MEDIUM DUTY

MAX 7,250 PSI

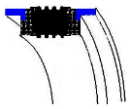


WDA

3 PIECE SEAL

MEDIUM DUTY

MAX 7,250 PSI



DMT

5 PIECE SEAL

HEAVY DUTY

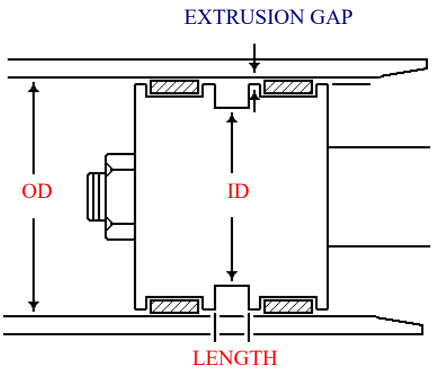
MAX 10,000 PSI

NITRILE RUBBER SEALING RING -- ACETAL BACKUP / BEARING RINGS

PART #	A	B + 0.1 - 0.0	C - 0.0 +0.2	D +/- 0.1	E - 0.05 + 0.0	F +/- 0.2
DAM200170DAL	200.00	170.00	36.00	12.50	192.00	197.00
DAM200175DMT	200.00	175.00	45.00	12.70	191.60	197.30
DAM210180DAL	210.00	180.00	0.00	0.00	0.00	0.00
DAM210185DMT	210.00	185.00	45.00	12.70	201.60	207.10
DAM220195DMT	220.00	195.00	45.00	12.70	211.60	217.10
DAM230205DMT	230.00	205.00	45.00	12.70	221.72	227.10
DAM250225DMT	250.00	225.00	45.00	12.70	241.72	247.10
DAM270245DMT	270.00	245.00	45.00	12.70	261.72	267.10
DAM280255DMT	280.00	255.00	45.00	12.70	271.72	277.10
DAM290265DMT	290.00	265.00	45.00	12.70	281.72	287.10
DAM300270WDA	300.00	270.00	35.40	6.35	292.90	297.80
DAM300275DMT	300.00	275.00	45.00	12.70	291.72	297.10
DAM360335DMT	360.00	335.00	44.50	12.70	351.76	357.10

CSH

1 PIECE PISTON SEAL



URETHANE CAP

HEAVY / MEDIUM DUTY

5000 PSI

NITRILE RUBBER ENERGISED



ENERGISER MAYBE RECTANGULAR ,ROUND OR OVAL

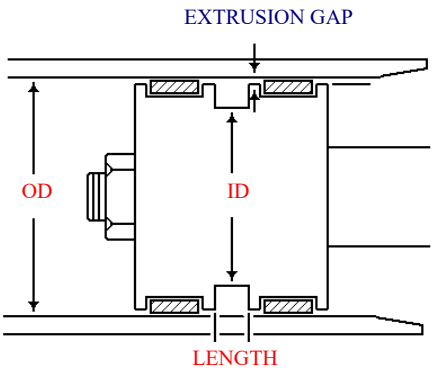
MAX EXTRUSION GAP -- 0.015" /2 = 0.0075"

PART#	OD	ID +/- 0.002'''	LENGTH +/- 0.002'''
CSM012CSH3	12	4.5	3.2
CSM012CSH2	12	7.1	2.2
CSM015CSH3	15	7.5	3.2
CSM016CSH3	16	8.5	3.2
CSM020CSH3	20	12.5	3.2
CSM022CSH3	22	14.5	3.2
CSM024CSH3	24	16.5	3.2
CSM025CSH4	25	14	4.2
CSM025CSH3	25	17.5	3.2
CSM030CSH3	30	22.5	3.2
CSM032CSH4	32	21	4.2
CSM032CSH3	32	24.5	3.2
CSM034CSH3	34	26.5	3.2
CSM035CSH4	35	24	4.2
CSM035CSH3	35	27.5	3.2
CSM036CSH4	36	25	4.2
CSM036CSH3	36	28.5	3.2
CSM038CSH3	38	30.5	3.2
CSM040CSH6	40	24.5	6.3
CSM040CSH6/1	40	27	6.3
CSM040CSH4	40	29	4.2
CSM040CSH6/2	40	30	6.3
CSM040CSH3	40	32.5	3.2
CSM042CSH4	42	31	4.2
CSM045CSH6	45	29.5	6.3
CSM045CSH6/1	45	32	6.3
CSM045CSH4	45	34	4.2

PART#	OD	ID +/- 0.002'''	LENGTH +/- 0.002'''
CSM049CSH4	49	38	4.2
CSM050CSH6	50	34.9	6.3
CSM050CSH6/1	50	37	6.3
CSM050CSH4	50	39	4.2
CSM050CSH4-RE	50	39	4.2
CSM052CSH6	52	36.5	6.3
CSM054CSH4	54	43	4.2
CSM055CSH6	55	39.5	6.3
CSM055CSH4	55	44	4.2
CSM056CSH4	56	45	4.2
CSM057CSH4	57	46	4.2
CSM058CSH6	58	45	6.3
CSM060CSH6-RE	60	44.5	6.3
CSM060CSH6	60	44.9	6.3
CSM060CSH4	60	49	4.2
CSM063CSH6	63	47.5	6.3
CSM063CSH6-RE	63	47.5	6.3
CSM063CSH6/1	63	50	6.3
CSM063CSH4	63	52	4.2
CSM063CSH5	63	53	5
CSM065CSH6-RE	65	49.5	6.3
CSM065CSH6	65	49.9	6.3
CSM065CSH6/1	65	52	6.3
CSM065CSH4	65	54	4.2
CSM070CSH6-RE	70	54.5	6.3
CSM070CSH6/1	70	54.5	6.3
CSM070CSH6	70	57	6.3
CSM070CSH4	70	59	4.2
CSM072CSH4	72	61	4.2

CSH

1 PIECE PISTON SEAL



URETHANE CAP

HEAVY / MEDIUM DUTY

5000 PSI

NITRILE RUBBER ENERGISED



ENERGISER MAYBE RECTANGULAR ,ROUND OR OVAL

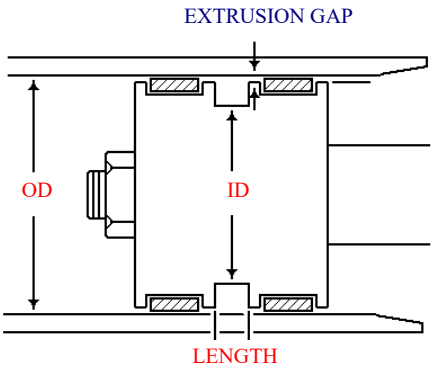
MAX EXTRUSION GAP -- 0.015" /2 = 0.0075"

PART#	OD	ID +/- 0.002"'	LENGTH +/- 0.002"'
CSM074CSH6	74	58.5	6.3
CSM075CSH6/1	75	59.5	6.3
CSM075CSH6	75	62	6.3
CSM075CSH4	75	64	4.2
CSM080CSH8	80	59	8.1
CSM080CSH10	80	59	10.5
CSM080CSH6-RE	80	64.5	6.3
CSM080CSH6	80	64.9	6.3
CSM080CSH6/1	80	66.5	6.3
CSM080CSH4	80	69	4.2
CSM085CSH6	85	69.5	6.3
CSM085CSH6/1	85	71.5	6.3
CSM090CSH10	90	69	10.5
CSM090CSH6	90	74.5	6.3
CSM090CSH6-RE	90	74.5	6.3
CSM095CSH6	95	79.9	6.3
CSM100CSH6	100	84.5	6.3
CSM100CSH6-RE	100	84.5	6.3
CSM100CSH6/1	100	86.5	6.3
CSM105CSH6	105	89.5	6.3
CSM110CSH10	110	89	10.5
CSM110CSH6-RE	110	94.5	6.3
CSM110CSH6	110	94.9	6.3
CSM115CSH8	115	94.5	8.1
CSM115CSH6	115	99.9	6.3
CSM118CSH6	118	102.5	6.3
CSM120CSH10	120	99	10.5
CSM120CSH6-RE	120	104.5	6.3
CSM120CSH6	120	104.9	6.3

PART#	OD	ID +/- 0.002"'	LENGTH +/- 0.002"'
CSM125CSH8	125	104	8.1
CSM125CSH10	125	104	10.5
CSM125CSH6	125	109.9	6.3
CSM130CSH8	130	109.5	8.1
CSM130CSH6	130	114.9	6.3
CSM135CSH8	135	114.5	8.1
CSM135CSH6	135	119.5	6.3
CSM140CSH8	140	119	8.1
CSM140CSH8-RE	140	119	8.1
CSM145CSH8	145	124	8.1
CSM150CSH10-RE	150	129	10.5
CSM150CSH8	150	129.5	8.1
CSM150CSH10	150	129.5	10
CSM160CSH8	160	139	8.1
CSM170CSH8	170	149	8.1
CSM180CSH8	180	159	8.1
CSM185CSH8	185	164.5	8.1
CSM190CSH8	190	169.5	8.1
CSM200CSH8	200	179	8.1
CSM210CSH8	210	189.5	8.1
CSM220CSH8	220	199	8.1
CSM230CSH8	230	209	8.1
CSM250CSH8	250	229.5	8.1
CSM300CSH8	300	279.5	8.1

SPG

1 PIECE PISTON SEAL





FILLED PTFE CAP

HEAVY / MEDIUM DUTY

5000 PSI

NITRILE RUBBER ENERGISED

ENERGISER MAYBE RECTANGULAR ,ROUND OR OVAL

MAX EXTRUSION GAP -- 0.015" /2 = 0.0075"

PART#	OD	ID +/- 0.002"'	LENGTH +/- 0.002"'
CSM010SPG2	10	5	2.2
CSM013SPG2	13	8.4	2
CSM014SPG2	14	9	2.2
CSM014SPG2/1	14	9.1	2.2
CSM016SPG2	16	11	2.2
CSM018SPG3	18	10.5	3.2
CSM020SPG2	20	15	2.2
CSM025SPG3	25	17.5	3.2
CSM025SPG2	25	19	2.5
CSM028SPG3/1	28	20.5	3.1
CSM028SPG3	28	20.5	3.2
CSM030SPG4	30	20.5	4.5
CSM030SPG3	30	22.5	3.2
CSM032SPG4	32	22.5	4.5
CSM032SPG3	32	24.5	3.2
CSM034SPG3	34	26.5	3.2
CSM035SPG4	35	24	4.2
CSM035SPG4/1	35	25.5	4.5
CSM035SPG3	35	27.5	3.2
CSM036SPG3	36	28.5	3.2
CSM040SPG7	40	25.5	7.3
CSM040SPG4/1	40	29	4.2
CSM040SPG4	40	30	4.5

PART#	OD	ID +/- 0.002"'	LENGTH +/- 0.002"'
CSM040SPG3	40	32.5	3.3
CSM042SPG4	42	31	4.2
CSM045SPG4/1	45	34	4.2
CSM045SPG4/2	45	35	4.5
CSM045SPG4	45	36	4.2
CSM048SPG4	48	37	4.2
CSM050/1SPG5	50	34.6	5.4
CSM050SPG7	50	34.9	7.3
CSM050SPG6	50	35.5	6.3
CSM050SPG5	50	39	4.9
CSM050SPG4	50	39.5	4.2
CSM050SPG4/4	50	40	4.5
CSM050SPG3/1	50	41	3.8
CSM050SPG4/1	50	41.5	4
CSM050SPG3	50	42.5	3.2
CSM050SPG4/2	50	43	4.2
CSM055SPG4	50	45	4.2
CSM050SPG4/5	50	45	4.5
CSM052SPG4	52	41	4.2
CSM055SPG6	55	39.5	6.3
CSM055SPG3	55	43	3.9
CSM055SPG4/2	55	44	4.2
CSM055SPG4/1	55	45	4.5
CSM056SPG4	56	46	4.5
CSM057SPG3	57	48.8	3
CSM060SPG6	60	44.9	6.3
CSM060SPG7	60	44.9	7.3
CSM060SPG4	60	49.3	4.2

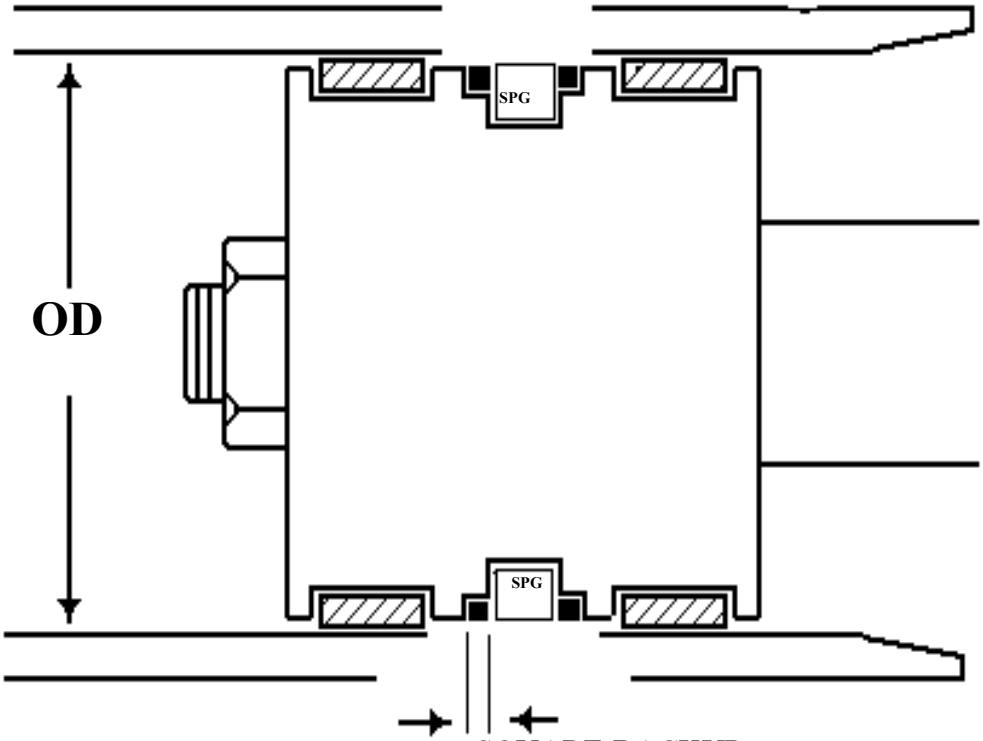
PART#	OD	ID +/- 0.002"'	LENGTH +/- 0.002"'
CSM060SPG5	60	49.3	5
CSM060SPG4/1	60	50	4.5
CSM063SPG6	63	47.5	6.3
CSM063SPG7	63	48	7.5
CSM063SPG4	63	52	4.2
CSM063SPG3	63	55.5	3.2
CSM065SPG6	65	49.9	6.3
CSM065SPG7	65	50	7.5
CSM065SPG4	65	54	4.2
CSM068SPG3	68	59.4	3.2
CSM070SPG6	70	54.5	6.3
CSM070SPG5.5	70	55	5.9
CSM070SPG7	70	55	7.5
CSM070SPG5	70	58.4	5.3
CSM070SPG4/1	70	59	4.2
CSM070SPG4	70	59.1	4.2
CSM071SPG6/1	71	56	6
CSM071SPG6/2	71	57	6.3
CSM071SPG6	71	57	6.7
CSM071SPG7	71	57	7.5
CSM075SPG6	75	59.5	6.3
CSM075SPG7	75	60	7.5
CSM075SPG4	75	64.3	4.2
CSM080SPG8	80	59	8.1
CSM080SPG6	80	64.9	6.3
CSM080SPG7	80	65	7.5
CSM080SPG4	80	69	4.2
CSM085SPG8	85	64.5	8.1
CSM085SPG6	85	69.9	6.3
CSM085SPG7	85	70	7.5
CSM090SPG8	90	69.5	8.1
CSM090SPG7	90	74.5	7.3
CSM090SPG6	90	74.9	6.3
CSM090SPG4	90	79	4.2
CSM090SPG7/1	90	80	7.3
CSM095SPG8	95	74.5	8.1
CSM095SPG6	95	79.9	6.3
CSM095SPG7	95	80	7.5
CSM095SPG4	95	85	4
CSM100SPG8	100	79.5	8.1
CSM100SPG6	100	84.9	6.3
CSM100SPG6PTFE	100	84.9	6.3
CSM100SPG7	100	85	7.5
CSM100SPG4	100	89	4.2

PART#	OD	ID +/- 0.002"'	LENGTH +/- 0.002"'
CSM101.6SPG7	101.6	88.9	7.5
CSM102SPG6	102	84	6.5
CSM105SPG10	105	82.7	10
CSM105SPG8	105	84.5	8.1
CSM105SPG6	105	89.9	6.3
CSM110SPG8	110	89.5	8.1
CSM110SPG7	110	94	7.5
CSM110SPG6	110	94.9	6.3
CSM112SPG7	112	96	7.5
CSM115SPG8	115	94.5	8.1
CSM115SPG6/1	115	98	6.5
CSM115SPG7	115	99	7.5
CSM115SPG6	115	99.5	6.3
CSM120SPG8	120	99	8.1
CSM120SPG10	120	99	10.5
CSM120SPG7	120	104	7.5
CSM120SPG6	120	104.5	6.3
CSM125SPG8	125	104	8.1
CSM125SPG7	125	109	7.5
CSM125SPG6	125	109.9	6.3
CSM125SPG4	125	114	4.2
CSM127SPG6	127	111.5	6.3
CSM130SPG8	130	109.5	8.1
CSM130SPG7	130	114	7.5
CSM130SPG6	130	114.5	6.3
CSM135SPG8	135	114.5	8.1
CSM140SPG8	140	119	8.1
CSM140SPG8/1	140	122	8.1
CSM140SPG7	140	124	7.5
CSM140SPG6	140	124.5	6.3
CSM145SPG8	145	124	8.1
CSM150SPG8	150	129.5	8.1
CSM150SPG8/1	150	132	7.8
CSM150SPG7	150	134	7.5
CSM155SPG8	155	134	8.1
CSM160SPG8	160	139.5	8.1
CSM160SPG7	160	144	7.5
CSM160SPG6	160	144.5	6.3

PART#	OD	ID +/- 0.002'''	LENGTH +/- 0.002'''
CSM165SPG7	165	142.5	7.5
CSM165SPG8	165	144.5	8.1
CSM170SPG11	170	148	11
CSM170SPG8	170	149	8.1
CSM170SPG9	170	150	9
CSM170SPG9/1	170	150.6	9.6
CSM180SPG11	180	158	11
CSM180SPG8	180	159.5	8.1
CSM180SPG9	180	160	9
CSM190SPG11	190	168	11
CSM190SPG8	190	169.5	8.1
CSM195SPG8	195	174.5	8.1
CSM200SPG8/1	200	175.5	8.1
CSM200SPG11	200	178	11
CSM200SPG8	200	179.5	8.1
CSM200SPG6	200	184.5	6.3
CSM210SPG8	210	189.5	8.1
CSM215SPG8	215	194	8.1
CSM220SPG8	220	199.5	8.1
CSM225SPG8	225	204	8.1
CSM230SPG8-KYB	230	209	8.1
CSM230SPG8	230	209.5	8.1
CSM240SPG8	240	219	8.1
CSM250SPG8/1	250	225.5	8.1
CSM250SPG8	250	229.5	8.1
CSM250SPG5	250	237	5.3
CSM260SPG8/1	260	235.5	8.1
CSM260SPG8	260	239.5	8.1
CSM280SPG8/1	280	259	8.1
CSM300SPG8	300	279.5	8.1
CSM320SPG8	320	295.5	8.1
CSM320SPG8/1	320	299	8.1
CSM400SPG8	400	375	8.1
CSM500SPG8	500	475.5	8.1

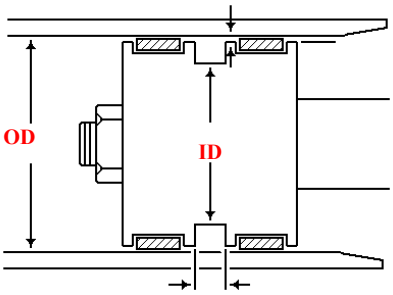
SPG BACKUP

SPG PISTON
SEAL FITTED
WITH BACKUPS



CONTINUOUS PTFE STRIP
CUT TO LENGTH TO SUIT
ANY PISTON SIZE --
UP TO 145mm OD --3mm
UP TO 115mm OD --2.5mm

TC





2 PIECE DOUBLE ACTING PISTON SEAL

ID

OD < 13mm +0.1mm ---OD <22mm +0.15mm ---OD<38mm +0.2mm

OD <80mm +0.2mm ---OD >170mm +0.2mm

MAX. EXTRUSION GAP - 0.2mm /2= 0.1mm

MAXIMUM 5000 PSI

LIGHT DUTY HYDRAULIC / PNEUMATIC

ORING ENERGISED -- VIRGIN PTFE CAP -- ONE PIECE PISTON

LENGTH -0.0075mm +0.0075mm

PART#	OD	ID	LENGTH
CSM008TC	8	3.7	2.4
CSM008/1TC	8	3.8	2.2
CSM009TC	9	4.7	2.4
CSM010TC	10	5.7	2.4
CSM011TC	11	6.7	2.4
CSM012TC	12	7.7	2.4
CSM013TC	13	8.7	2.4
CSM014TC	14	9.7	2.4
CSM015TC	15	10.7	2.4
CSM016TC	16	10	3.6
CSM017TC	17	11	3.6
CSM018TC	18	12	3.6
CSM020TC	20	14	3.6
CSM020.5TC	20.5	15.58	1.85
CSM022TC	22	16	3.6
CSM023TC	23	17	3.6
CSM024TC	24	18	3.6
CSM025/1TC	24.6	17.2	3.2
CSM025TC	25	19	3.6

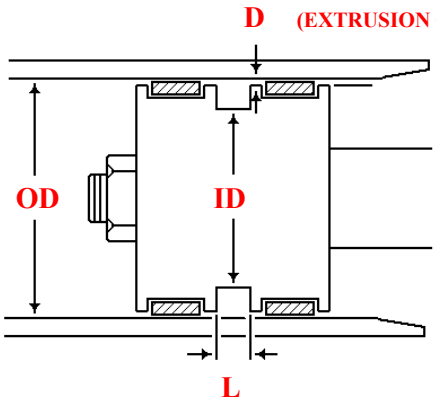
PART#	OD	ID	LENGTH
CSM026TC	26	18	4.8
CSM027TC	27	19	4.8
CSM028TC	28	20	4.8
CSM029TC	29	21	4.8
CSM030TC	30	22	4.8
CSM031TC	31	23	4.8
CSM032TC	32	24	4.8
CSM033TC	33	25	4.8
CSM034TC	34	26	4.8
CSM035TC	35	27	4.8
CSM036TC	36	28	4.8
CSM037TC	37	29	4.8
CSM038TC	38	30	4.8
CSM039TC	39	31	4.8
CSM040/1TC	39.5	32.4	3.2
CSM040TC	40	32	4.8
CSM041TC	41	33	4.8
CSM042TC	42	34	4.8
CSM043TC	43	35	4.8

PART#	OD	ID	LENGTH
CSM044TC	44	36	4.8
CSM045TC	45	37	4.8
CSM047TC	47	39	4.8
CSM048TC	48	40	4.8
CSM049TC	49	41	4.8
CSM050TC	50	37.6	7.2
CSM050TC/1	50	40	5
CSM053TC	53	40.6	7.2
CSM055TC	55	42.6	7.2
CSM056TC	56	43.6	7.2
CSM060TC	60	47.6	7.2
CSM060TC/1V	60	51.6	4.4
CSM063TC	63	50.6	7.2
CSM065TC	65	52.6	7.2
CSM070TC	70	57.6	7.2
CSM073TC	73	60.6	7.2
CSM075TC	75	62.6	7.2
CSM080TC	80	67.6	7.2
CSM085TC	85	72.6	7.2
CSM090TC	90	77.6	7.2
CSM100TC	100	87.6	7.2
CSM105TC	105	92.6	7.2
CSM110TC	110	97.6	7.2
CSM115TC	115	102.6	7.2
CSM120TC	120	107.6	7.2
CSM125TC	125	112.6	7.2
CSM130TC	130	113.2	9.5
CSM135TC	135	118.2	9.5
CSM140TC	140	123.2	9.5
CSM145TC	145	123.2	9.5
CSM150TC	150	133.2	9.5
CSM160TC	160	143.2	9.5
CSM165TC	165	148.2	9.5
CSM170TC	170	153.2	9.5
CSM175TC	175	158.2	9.5
CSM200TC	200	183.2	9.5
CSM250TC	250	233.2	9.5
CSM320TC	320	303.2	9.5

PART#	OD	ID	LENGTH

SPGT

ONE PIECE PISTON





HOUSING LENGTH
0.5mm GREATER THAN
SEAL LENGTH

D--(MAX EXTRUSION GAP)
0.012" /2 = 0.006"

EXTRA HEAVY DUTY
RUBBER ENERGISED
BRONZE FILLED PTFE CAP
WITH BACKUP RINGS

MAXIMUM PRESSURE 7,600 PSI

PART#	OD	ID	L	NOMINAL SEAL WIDTH
CSM050SPGT	50	36	9	8.5
CSM050SPGT/1	50	40	8	7.5
CSM055SPGT	55	41	9	8.5
CSM060SPGT	60	46	9	8.5
CSM060SPGT/1	60	50	8	7.5
CSM063SPGT	63	48	11	10.5
CSM063SPGT/1	63	53	8	7.5
CSM065SPGT	65	50	11	10.5
CSM065SPGT/1	65	51	9	8.5
CSM070SPGT	70	55	11	10.5
CSM070SPGT/2	70	55	12.5	12
CSM070SPGT/1	70	60	8	7.5
CSM075SPGT	75	60	11	10.5
CSM075SPGT/1	75	63	9	8.5
CSM080SPGT	80	65	11	10.5
CSM080SPGT/2	80	65	12	11.5
CSM080SPGT/1	80	65	12.5	12
CSM085SPGT	85	70	11	10.5
CSM090SPGT	90	75	11	10.5

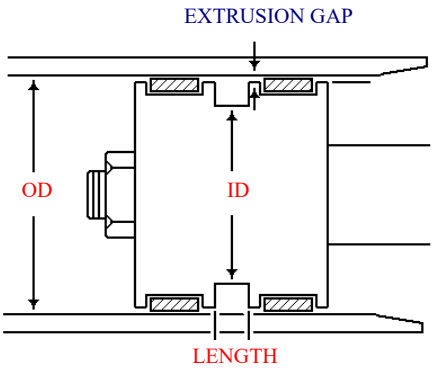
PART#	OD	ID	L	NOMINAL SEAL WIDTH
CSM090SPGT/2	90	75	12	11.5
CSM090SPGT/1	90	75	12.5	12
CSM095SPGT	95	80	11	10.5
CSM100SPGT	100	85	12.5	12
CSM105SPGT	105	90	12.5	12
CSM105SPGT/1	105	90	13.5	13
CSM110SPGT	110	95	12.5	12
CSM115SPGT	115	100	12.5	12
CSM120SPGT/1	120	100	16.5	16
CSM120SPGT	120	105	12.5	12
CSM125SPGT	125	102	16	15.5
CSM125SPGT/1	125	105	16	15.5
CSM130SPGT	130	107	16	15.5
CSM130SPGT/1	130	110	16	15.5
CSM135SPGT	135	112	16	15.5
CSM140SPGT	140	117	16	15.5
CSM140SPGT/1	140	120	16	15.5
CSM140SPGT/2	140	120	19	18.5

PART#	OD	ID	L	NOMINAL SEAL WIDTH
CSM145SPGT	145	122	16	15.5
CSM150SPGT	150	127	16	15.5
CSM150SPGT/2	150	130	19	18.5
CSM150SPGT/3	150	135	12.5	12
CSM155SPGT	155	132	16	15.5
CSM160SPGT-NOI	160	137	16	15.5
CSM160SPGT	160	137	16	15.5
CSM160SPGT/1	160	140	16	15.5
CSM160SPGT/2	160	140	19	18.5
CSM160SPGT/3	160	145	12.5	12
CSM165SPGT	165	142	16	15.5
CSM170SPGT	170	147	16	15.5
CSM170SPGT/1	170	150	16	15.5
CSM180SPGT	180	157	16	15.5
CSM180SPGT/1	180	160	16	15.5
CSM185SPGT	185	162	16	15.5
CSM190SPGT	190	167	16	15.5
CSM200SPGT	200	177	16	15.5
CSM200SPGT/1	200	180	19	18.5
CSM210SPGT	210	187	16	15.5
CSM215SPGT	215	192	16	15.5
CSM220SPGT	220	197	16	15.5
CSM225SPGT	225	202	16	15.5
CSM230SPGT	230	207	16	15.5
CSM235SPGT	235	212	16	15.5
CSM240SPGT	240	217	16	15.5
CSM250SPGT	250	222	17.5	17
CSM260SPGT	260	232	17.5	17
CSM270SPGT	270	242	17.5	17
CSM280SPGT	280	252	17.5	17
CSM300SPGT	300	272	17.5	17
CSM320SPGT	320	292	17.5	17

PART#	OD	ID	L	NOMINAL SEAL WIDTH

CCM

1 PIECE PISTON SEAL



HEAVY DUTY

10,000 PSI

NITRILE RUBBER ENERGISED

THERMOPLASTIC CAP



EASY INSTALLATION -- SPLIT CAP

SHOCK RESISTANT

PASSES OVER PORTS (75% OF SEAL LENGTH)

REPLACES MULTIPLE CAST IRON RINGS

MAX EXTRUSION GAP -- 0.015" /2 = 0.0075"

PART #	OD -0.000 +0.005	ID -0.000 +0.005	LENGTH -0.000 +0.002
CSM025CCM4	25	16	4.2
CSM032CCM4	32	21	4.2
CSM040CCM4	40	29.3	4.2
CSM050CCM6	50	34.5	6.3
CSM050CCM4	50	39.3	4.2
CSM060CCM7	60	41.7	7
CSM060CCM4	60	49.2	4.2
CSM063CCM6	63	47.5	6.3
CSM070CCM7	70	51.7	7
CSM070CCM4	70	59	4.2
CSM080CCM8	80	59	8.1
CSM080CCM6	80	64.5	6.3
CSM085CCM8	85	64	8.1
CSM090CCM8	90	69	8
CSM090CCM6	90	74.5	6.3
CSM090CCM12	90	75	12.5
CSM100CCM8	100	79	8
CSM100CCM6	100	84.5	6.3
CSM100CCMCAT	100	85.8	7.2
CSM105CCM8	105	84	8
CSM110CCM8	110	89	8
CSM110CCM6	110	94.5	6.3
CSM110CCM7	110	94.5	7.2
CSM110CCMCAT	110	95.8	7.2
CSM115CCM8	115	94	8
CSM115CCMCAT	115	100.76	7.24

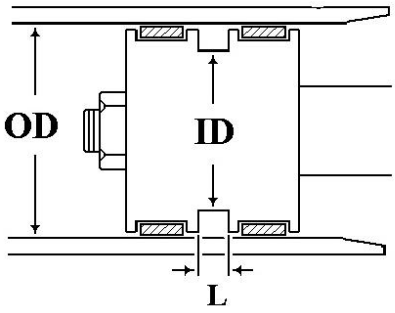
PART #	OD -0.000 +0.005	ID -0.000 +0.005	LENGTH -0.000 +0.002
CSM120CCM8	120	99	8
CSM120CCM7	120	106	7
CSM125CCM8	125	104	8
CSM125CCM6	125	109.5	6.3
CSM130CCM8	130	109	8
CSM130CCMCAT	130	115.7	7.2
CSM135CCM8	135	114	8
CSM140CCM8	140	119	8
CSM140CCM9	140	119	9.6
CSM140CCMCAT	140	120.62	9.5
CSM145CCM8	145	124	8
CSM150CCM8	150	129	8
CSM150CCMCAT	150	130.6	9.6
CSM150CCM9	150	131	9.3
CSM160CCM8	160	139	8
CSM160CCMCAT	160	140.6	9.6
CSM160CCM9	160	141	9.3
CSM165CCM8	165	144	8
CSM170CCM8	170	149	8
CSM170CCMCAT	170	150.6	9.6
CSM180CCM8	180	159	8
CSM180CCMCAT	180	160.62	9.5
CSM190CCMCAT	190	96.9	9.5
CSM190CCM8	190	169	8
CSM200CCMCAT	200	174.73	9.63
CSM200CCM8	200	179	8
CSM220CCMCAT	220	197.74	9.63

PART #	OD -0.000 +0.005	ID -0.000 +0.005	LENGTH -0.000 +0.002
CSM220CCM8-P	220	199	8
CSM220CCM8	220	199	8
CSM230CCMCAT	230	205.5	16
CSM230CCMCAT-OE	230	205.5	16
CSM250CCM8	250	229	8
CSM250CCM8-P	250	229	8
CSM280CCM8-P	280	255.5	8
CSM280CCM8	280	255.5	8
CSM300CCM9	300	272	9.5
CSM300CCM8	300	279	8.1
CSM320CCM9-P	320	292	9.5
CSM330CCM9-P	320	302	9.5
CSM350CCM9	350	322	9.3
CSM350CCM9-P	350	322	9.5
CSM360CCM9	360	322	9.5
CSM420CCM9-P	420	392	9.5
CSM420CCM9	420	392	9.5

PART #	OD -0.000 +0.005	ID -0.000 +0.005	LENGTH -0.000 +0.002

CAST IRON PISTON RINGS





GROOVE WIDTH



STANDARD



HOOKED

ABILITY TO MOVE OVER PORTS
2 or 3 SEALS REQUIRED
FOR A TOTAL SEAL

INTENDED FOR IDENTIFICATION -- ENQUIRE WHEN MACHINING

PART #	OD	ID	LENGTH
CPSM025.5	25	20	20
CPSM025	25	21.4	21.4
CPSM028.6	28.6	26	26
CPSM046	46	41	41
CPSM047.9	47.9	42.9	42.9
CPSM049.9	49.9	45.9	45.9
CPSM050	50	45.8	45.8
CPSM052	52	47.8	47.8
CPSM055	55	2.23	2.23
CPSM056.5	56.5	51.5	51.5
CPSM059	59		
CPSM06502.601.5	65	59.8	59.8
CPSM06502.603	65	59.8	59.8
CPSM090	90	82.5	82.5
CPSM095	95	87.1	87.1
CPSM100	100	92	92
CPSM105	105	96.2	96.2
CPSM115	115	105.6	105.6
CPSM120	120	110	110
CPSM125	125	115.6	115.6
CPSM130	130	119.2	119.2
CPSM135	135	124	124
CPSM140	140	128.6	128.6
CPSM160/1	160	146	146
CPSM160	160	146.9	146.9
CPSM185	185	169.9	169.9
CPSM250	250	232	232

Heavy Machinery Kits

BRAND	PAGE
CATERPILLAR	1
CLARK	19
DAEWOO	19
EDBRO	50
HEILA	22
HIAB	23
HITACHI	24
HYUNDAI	32
HYVA	34
KAWASAKI	35
KATO	35
KOBELCO	35
KOMATSU	38
KUBOTA	44
MITSUBUSHI	44
PALFINGER	45
SAMSUNG	46
STEELBRO	46
SUMITOMO	46
TALEUCHI	47
VOLVO	48
YANMAR	49

	PART#	RAM	ROD	BORE
CATERPILLAR	112/1STEER	STEERING	1.5"	4"
	112E/1STEER	STEERING	1.5"	4"
	112E-STEERING	STEERING	1.5"	4"
	112F/1STEER	STEERING	1.5"	4"
	112F-STEERING	STEERING	1.5"	4"
	113-STEERING	STEERING	1.5"	4"
	120B/1STEER	STEERING	1.5"	4"
	120B-STEERING	STEERING	1.5"	4"
	120G/1ARTIC	ARTICULATION	1.75"	3"
	120G/1B.SHIFT	BLADE SHIFT	1.75"	3"
	120G/1BLADE	BLADE LIFT	1.75"	3"
	120G/1CSHIFT	CENTRE SHIFT	1.75"	3"
	120G/1SCAR	SCARIFIER	1.75"	3"
	120G/2SCAR	SCARIFIER	1.75"	3"
	120GBLADELIFT	BLADE LIFT	1.75"	3"
	120G-BLADE-S	BLADE SHIFT	1.75"	3"
	120G-BLADETIP	BLADE TIP	1.5"	2.75"
	120G-CENSHIFT	CENTRE SHIFT	1.75"	3"
	120GGRADERART	ARTICULATION	1.75"	3"
	120GLEANWHEEL	LEAN WHEEL	1.5"	3.5"
	120GSCARIFIER	SCARIFIER	1.5"	3"
	120G-STEER	STEERING	1.5"	2.25"
	120G-STEERING	STEERING	1.5"	2.5"
	120G-WHEEL	LEAN WHEEL	1.5"	3.5"
	120H-ARTICULA	ARTICULATION	1.75"	3"
	120H-BLADE-S	BLADE SHIFT	1.75"	3"
	120H-DOZLIFT	DOZER LIFT	1.75"	3"
	120HSCARIFIER	SCARIFIER	1.75"	3"
	120H-STEER	STEERING	1.5"	2.25"
	121-STEER	STEERING	1.5"	4"
	121-STEERING	STEERING	1.5"	4"
	124504-STEERING			
	12E/1STEER	STEERING	1.5"	4"
	12E-STEERING	STEERING	1.5"	4"
	12F/1STEER	STEERING	1.5"	4"
	12F-BLADELIFT	BLADE LIFT	2"	3.5"
	12F-STEERING	STEERING	1.5"	4"
	12G/1BLADE	BLADE SHIFT	1.75"	3"
	12G/1LEAN	LEAN WHEEL	1.5"	3.5"
	12G/1SCAR	SCARIFIER	1.75"	3"
	12G/2SCAR	SCARIFIER	1.75"	3"
	12G-ARTICULA	ARTICULATION	1.75"	3"
	12G-BLADELIFT	BLADE LIFT	2"	3.25"
	12G-BLADE-S	BLADE SHIFT	1.75"	3"
	12G-BLADETIP	BLADE TIP	1.5"	2.75"

CATERPILLAR	12G-CENSHIFT	CENTRE SHIFT	2"	3.25"
	12G-GRADERART	ARTICULATION	1.75"	3"
	12G-LEANWHEEL	LEAN WHEEL	1.5"	3.5"
	12G-RIPPER	RIPPER	2"	4"
	12G-SCARIFIER	SCARIFIER	1.5"	3"
	12G-STEER	STEERING	1.5"	2.25"
	12G-STEERING	STEERING	1.5"	2.5"
	12H/1ARTIC	ARTICULATION	1.875"	3.25"
	12H-ARTICULA	ARTICULATION	1.75"	3"
	12HBLADESHIFT	BLADE SHIFT	1.75"	3"
	12H-DOZLIFT	DOZER LIFT	1.75"	3"
	12H-SCARIFIER	SCARIFIER	1.75"	3"
	12H-STEER	STEERING	1.5"	2.25"
	130G/1BLADE-S	BLADE SHIFT	1.75"	3"
	130G/1LEAN	LEAN WHEEL	1.5"	3.5"
	130G/2SCAR	SCARIFIER	1.75"	3"
	130G-ARTICULA	ARTICULATION	1.75"	3"
	130GBLADELIFT	BLADE LIFT	2"	3.25"
	130G-BLADE-S	BLADE SHIFT	1.75"	3"
	130G-BLADETIP	BLADE TIP	1.5"	2.75"
	130G-CENSHIFT	CENTRE SHIFT	2"	3"
	130G-GRADER-A	ARTICULATION	1.75"	3"
	130GLEANWHEEL	LEAN WHEEL	1.5"	3.5"
	130G-RIPPER	RIPPER	2"	4"
	130GSCARIFIER	SCARIFIER	1.5"	3"
	130G-STEER	STEERING	1.5"	2.25"
	130G-STEERING	STEERING	1.5"	2.5"
	135H-ARTICULA	ARTICULATION	1.75"	3"
	135H-BLADE	BLADE SHIFT	1.75"	3"
	135HSCARIFIER	SCARIFIER	1.75"	3"
	135H-STEER	STEERING	1.5"	2.25"
	140/1STEER	STEERING	1.5"	4"
	140B/1STEER	STEERING	1.5"	4"
	140B-BLADE	BLADE SHIFT	1.5"	4"
	140B-RIPPER	RIPPER	2.5"	5"
	140B-STEER	STEERING	1.5"	4"
	140G/1ARTIC	ARTICULATION	1.75"	3"
	140G/1BSHIFT	BLADE SHIFT	1.75"	3"
	140G/1LEAN	LEAN WHEEL	1.5"	3.5"
	140G/1SCAR	SCARIFIER	1.75"	3"
	140G/2SCAR	SCARIFIER	1.75"	3"
	140GBLADELIFT	BLADE LIFT	2"	3.25"
	140G-BLADE-S	BLADE SHIFT	1.75"	3"
	140G-BLADETIP	BLADE TIP	1.5"	2.75"
	140G-C-SHIFT	CENTRE SHIFT	2"	3.25"
	140GGRADERART	ARTICULATION	1.75"	3"

CATERPILLAR	140G-RIPPER	RIPPER	2"	4"
	140GSCARIFIER	SCARIFIER	1.5"	3"
	140G-STEER	STEERING	1.5"	2.25"
	140G-STEERING	STEERING	1.5"	2.5"
	140G-WHEEL	LEAN WHEEL	1.5"	3.5"
	140H/1ARTIC	ARTICULATION	1.875"	3.25"
	140H-ARTICULA	ARTICULATION	1.75"	3"
	140H-BLADE-S	BLADE SHIFT	1.75"	3"
	140H-DOZLIFT	DOZER LIFT	1.75"	3"
	140HSCARIFIER	SCARIFIER	1.75"	3"
	140H-STEER	STEERING	1.5"	2.25"
	141-RIPPER	RIPPER	2.5"	5"
	141-STEERING	STEERING	1.5"	4"
	143H/1ARTIC	ARTICULATION	1.875"	3.25"
	143H-ARTICULA	ARTICULATION	1.75"	3"
	143H-BLADE-S	BLADE SHIFT	1.75"	3"
	143H-DOZLIFT	DOZER LIFT	1.75"	3"
	143HSCARIFIER	SCARIFIER	1.75"	3"
	143H-STEER	STEERING	1.5"	2.25"
	14E-BLADELIFT	BLADE LIFT	2"	3.5"
	14E-STEERING	STEERING	1.5"	4"
	14G/1BLADETIP	BLADE TIP	1.75"	3"
	14G/1LEAN	LEAN WHEEL	1.5"	3.5"
	14G/2BLADETIP	BLADE TIP	2"	4"
	14GBLADE	BLADE	1.75"	4"
	14G-BLADELIFT	BLADE LIFT	2.25"	4.5"
	14GBLADESHIFT	BLADE SHIFT	2.25"	4.5"
	14G-BLADETIP	BLADE TIP	1.5"	3"
	14G-CENSHIFT	CENTRE SHIFT	2.25"	4.5"
	14G-LEANWHEEL	LEAN WHEEL	1.5"	3.5"
	14GLIFT	LIFT	1.75"	3"
	14G-RIPPER	RIPPER	2.5"	5"
	14G-STEERING	STEERING	1.5"	2.75"
	14GTILT	TILT	1.75"	3.5"
	16/1BLADETIP	BLADE TIP	1.5"	4"
	160G/1ARTIC	ARTICULATION	1.75"	3"
	160G/1BLADE	BLADE SHIFT	1.75"	3"
	160G/1STEER	STEERING	1.5"	2.25"
	160G-ARTICUL	ARTICULATION	1.75"	3"
	160G-BLADE	BLADE SHIFT	1.75"	3"
	160GBLADELIFT	BLADE LIFT	2"	3.25"
	160G-CENSHIFT	CENTRE SHIFT	2"	3.25"
	160GLEANWHEEL	LEAN WHEEL	1.5"	3.5"
	160G-SCAR	SCARIFIER	1.75"	3"
	160GSCARIFIER	SCARIFIER	1.75"	3"
	160G-STEER	STEERING	1.5"	2.5"

CATERPILLAR	160G-WHEEL	LEAN WHEEL	1.5"	3.5"
	160H/1ARTIC	ARTICULATION	1.875"	3.25"
	160H-ARTICULA	ARTICULATION	1.75"	3"
	160H-BLADE	BLADE SHIFT	1.75"	3"
	160H-SCARIFIE	SCARIFIER	1.75"	3"
	160H-STEER	STEERING	1.5"	2.25"
	163H/1ARTIC	ARTICULATION	1.875"	3.25"
	163H-ARTICULA	ARTICULATION	1.75"	3"
	163H-SCAR	SCARIFIER	1.75"	3"
	163H-SHIFT	BLADE SHIFT	1.75"	3"
	163H-STEER	STEERING	1.5"	2.25"
	16G/1BLADETIP	BLADE TIP	1.75"	3"
	16G-BLADETIP	BLADE TIP	1.5"	3"
	16GLIFT	LIFT	1.75"	3.5"
	16G-RIPPER	RIPPER	2.5"	5"
	16G-STEERING	STEERING	1.75"	3"
	16GTILT	TILT	2.5"	4.25"
	17-BLADELIFT	BLADE LIFT	2.5"	5"
	17-BLADE-TIP	BLADE TIP	1.5"	4"
	186-9285ISA		5.5	10.5
	18G-ARTICULAT	ARTICULATION	2"	4"
	18G-BLADETIP	BLADE TIP	2"	4"
	228-GRAPPLE	GRAPPLE	1.75"	3"
	245B-ARM	ARM	5.75"	8.25"
	245B-BOOM	BOOM	4.75"	7.25"
	245COUNWEIGHT	COUNTER WEIGHT	2.5"	5"
	245D-BOOM	BOOM	4.75"	7.25"
	246-BOOM	BOOM	4.75"	7.25"
	311ADJ			
	311BOO/PK	BOOM	70	100
	311C/BOO/PK	BOOM	70	100
	312ARM	ARM	80	120
	312BADJ/PK	TRACK ADJ	50	
	312BARM	ARM	75	110
	312BARM(NEW)	ARM	80	120
	312BBOO/PK	BOOM	75	110
	312B-BUC	BUCKET	65	100
	312BOO/PK	BOOM	75MM	110MM
	312BUC/PK	BUCKET	65	100
	312CARM	ARM	80	120
	312CBOO/PK	BOOM	75	110
	312CBUC	BUCKET	65	100
	312CLBOO/PK	BOOM	75	110
	313ARM			
	313BOO	BOOM	80	120
	320A/B-ADJ			

CATERPILLAR	320B00	BOOM	85	120
	320BARM	ARM	100	140
	320C/D-R/J			
	320LARM	ARM	100	140
	320LB/B	BOOM-BUCKET	85	120
	322B/325BADJ	TRACK ADJ		70
	322B-DIPPER	ARM	100	140
	330BUC	BUCKET	105	150
	416-BACKHOE-S	BACKHOE STICK	2.5"	4.25"
	416B-BACKHOE	BACKHOE STICK	2.5"	4.25"
	416B-BOOM	BOOM	1.875"	3.25"
	416B-BUCKET	BUCKET	2"	3.25"
	416BEXTBUCKET	EXT BUCKET	2"	3.25"
	416B-LIFT	LIFT	1.875"	3.25"
	416-BOOM	BOOM	1.875"	3.25"
	416B-STEERING	STEERING	1.875"	3"
	416B-TILT	TILT	1.875"	3.25"
	416-BUCKET	BUCKET	2"	3.25"
	416C-LIFT	LIFT	1.875"	3.25"
	416C-TILT	TILT	1.875"	3.25"
	416D-LIFT	LIFT	1.875"	3.25"
	416D-TILT	TILT	1.875"	3.25"
	416-EXTBUCKET	EXT BUCKET	2"	3.25"
	416-LIFT	LIFT	1.875"	3.25"
	416-STEERING	STEERING	1.875"	3"
	416-TILT	TILT	1.875"	3.25"
	424D-LIFT	LIFT	1.875"	3.25"
	424D-TILT	TILT	1.875"	3.25"
	426-BACKHOE-S	BACKHOE STICK	2.5"	4.25"
	426B-BACKHOE	BACKHOE STICK	2.5"	4.25"
	426BBUC	BUCKET	2"	3.25"
	426B-BUCKET	EXT BUCKET	2"	3.25"
	426B-LIFT	LIFT	1.875"	3.25"
	426B-STEERING	STEERING	1.875"	3"
	426-BUCKET	BUCKET	2"	3.25"
	426-EXTBUCKET	EXT BUCKET	2"	3.25"
	426-LIFT	LIFT	1.875"	3.25"
	426-STEERING	STEERING	1.875"	3"
	428-BACKHOE-S	BACKHOE STICK	2.5"	4.25"
	428B-BOOM	BOOM	1.875"	3.25"
	428B-BUCKET	BUCKET	2"	3.25"
	428BEXTBUCKET	EXT BUCKET	2"	3.25"
	428B-LIFT	LIFT	1.875"	3.25"
	428-BOOM	BOOM	1.875"	3.25"
	428B-STEERING	STEERING	1.875"	3"
	428B-STICK	BACKHOE STICK	2.50"	4.25"

CATERPILLAR	428-BUCKET	BUCKET	2"	3.25"
	428C-LIFT	LIFT	1.875"	3.25"
	428-EXTBUCKET	EXT BUCKET	2"	3.25"
	428-LIFT	LIFT	1.875"	3.25"
	428-STEERING	STEERING	1.875"	3"
	433E-STEER	STEERING	1.5	2.5
	436B-BOOM	BOOM	2"	3.5"
	436B-BUCKET	BUCKET	2.75"	3.75"
	436B-LIFT	LIFT	1.875"	3.25"
	436-BOOM	BOOM	2"	3.5"
	436B-STEERING	STEERING	1.875"	3"
	436-BUCKET	BUCKET	2.75"	3.75"
	436-LIFT	LIFT	1.875"	3.25"
	436-STEERING	STEERING	1.875"	3"
	438-BACKHOE-S	BACKHOE STICK	2.5"	4.25"
	438B-BACKHOE	BACKHOE STICK	2.5"	4.25"
	438B-BOOM	BOOM	1.875"	3.25"
	438B-BUCKET	BUCKET	2.75"	3.75"
	438B-LIFT	LIFT	1.875"	3.25"
	438-BOOM	BOOM	1.875"	3.25"
	438-BUCKET	BUCKET	2.75"	3.75"
	438C-LIFT	LIFT	1.875"	3.25"
	438-LIFT	LIFT	1.875"	3.25"
	446-BACKHOE	BACKHOE EXT STICK	1.75"	3"
	446B-BACKHOE	BACKHOE EXT STICK	1.75"	3"
	508-GRAPPLE	GRAPPLE	2.25"	4.5"
	508SKIDLIFT	LIFT	1.5"	3"
	515-STEERING	STEERING	1.75"	3"
	518/2STEER	STEERING	1.75"	3"
	518C/1-STEER	STEERING	1.75"	3"
	518C/2STEER	STEERING	1.75"	3"
	518C-STEERING	STEERING	1.75"	3"
	518-SKIDLIFT	LIFT	2"	4"
	518-SKIDSTEER	STEERING	1.75"	3"
	518-STEERING	STEERING	1.75"	3"
	525B-STEERING	STEERING	1.75"	3"
	525-SKID/B00	BOOM	2	4
	525-STEERING	STEERING	1.75"	3"
	528B-LIFT	LIFT	2"	4.25"
	528-LIFT	LIFT	2"	4.25"
	535B-STEERING	STEERING	1.75"	3"
	613/1-BOWL	BOWL	2"	4"
	613/1-STEER	STEERING	2"	4"
	613B/1-BOWL	BOWL	2"	4"
	613B/1-STEER	STEERING	2"	4"
	613B-BOWL	BOWL	2"	4"

CATERPILLAR	613B-FLOOR	FLOOR	2.5"	5"
	613-BOWL	BOWL	2"	4"
	613B-STEERING	STEERING	2"	4"
	613C-BOWL	BOWL	2"	4"
	613C-STEERING	STEERING	2"	4"
	613-FLOOR	FLOOR	2.5"	5"
	613-STEERING	STEERING	2"	4"
	621B-LOAD	LOAD	2.5"	5.5"
	621B-STEERING	STEERING	2.5"	5"
	621E-STEERING	STEERING	2.5"	5"
	621F-STEERING	STEERING	2.5"	5"
	621-LOAD	LOAD	2.5"	5.5"
	621R-STEERING	STEERING	2.5"	5"
	621S-STEERING	STEERING	2.5"	5"
	621-STEERING	STEERING	2.5"	5"
	623B-EJECTOR	EJECTOR	2.5"	5"
	623B-FLOOR	FLOOR	3"	6"
	623B-LOAD	LOAD	2.5"	5.5"
	623B-STEERING	STEERING	2.5"	5"
	623E-EJECTOR	EJECTOR	2.5"	5"
	623E-FLOOR	FLOOR	3"	6"
	623-EJECTOR	EJECTOR	2.5"	5"
	623E-STEERING	STEERING	2.5"	5"
	623F-EJECTOR	EJECTOR	2.5"	5"
	623F-FLOOR	FLOOR	3"	6"
	623-FLOOR	FLOOR	3"	6"
	623F-STEER	STEERING	2.5"	5"
	623-LOAD	LOAD	2.5"	5.5"
	623-STEERING	STEERING	2.5"	5"
	627/BLIFT	LIFT	2.5"	6"
	627APRON	APRON	2.75"	7.25"
	627-BAIL	BAIL	1.75"	3"
	627B-BAIL	BAIL	1.5"	3.5"
	627B-STEER	STEER	2.25"	5"
	627B-STEERING	STEERING	2.5"	5"
	627E-BAIL	BAIL	1.75"	3"
	627E-STEERING	STEERING	2.5"	5"
	627F/1BAIL	BAIL	1.75"	3"
	627F-BAIL	BAIL	1.75"	3"
	627F-STEERING	STEERING	2.5"	5"
	627G-BAIL	BAIL	1.75"	3"
	627-LOAD	LOAD	2.5"	5.5"
	627T/S-BAIL	BAIL	2"	3.5"
	628B-LOAD	LOAD	2.5"	5.5"
	630A-STEERING	STEERING	1.5"	4"
	630B-STEERING	STEERING	1.5"	4"

CATERPILLAR	632-STEERING	STEERING	1.5"	4"
	637-BAIL	BAIL	2"	3.5"
	637B-T/S-BAIL	BAIL	2"	3.5"
	637D-BAIL	BAIL	1.5"	3.5"
	637E	APRON	3	8.25
	637E-BAIL	BAIL	1.75"	3"
	637E-BOWL-LIFT	BOWL	2.75	7.25
	637G-BAIL	BAIL	1.75"	3"
	650B-STEERING	STEERING	1.5"	4"
	650-STEERING	STEERING	1.5"	4"
	657-BAIL	BAIL	1.5"	3.5"
	657B-BAIL	BAIL	1.5"	3.5"
	657B-T/S-BAIL	BAIL	2"	3.5"
	657E/1BAIL	BAIL	1.75"	3"
	657E-BAIL	BAIL	1.5"	3.5"
	657T/S-BAIL	BAIL	2"	3.5"
	660B-STEERING	STEERING	1.5"	4"
	660-STEERING	STEERING	1.5"	4"
	666B-STEERING	STEERING	1.5"	4"
	666-STEERING	STEERING	1.5"	4"
	769/1-STEER	STEERING	1.5"	3.5"
	769B/1-STEER	STEERING	1.5"	3.5"
	769B/2-STEER	STEERING	1.5"	3.5"
	769B-STEER	STEERING	1.5"	3.5"
	769-STEERING	STEERING	1.5"	3.5"
	769TRUCKSTEER	STEERING	1.5"	3.5"
	783B-STEERING	STEERING	2.5"	5"
	784B-STEERING	STEERING	2.5"	5"
	784C-STEERING	STEERING	2.5"	5"
	785B-STEERING	STEERING	2.5"	5"
	785C-STEERING	STEERING	2.5"	5"
	785-STEERING	STEERING	2.5"	5"
	813C-FLOOR	FLOOR	2.5"	5"
	814/1-STEER	STEERING	2"	4"
	814B-LIFT	LIFT	2.5"	4.75"
	814B-STEERING	STEERING	2"	4"
	814B-TIP	TIP	2"	4"
	814-LIFT	LIFT	2.5"	4.75"
	814-STEERING	STEERING	2"	4"
	815/1-LIFT	LIFT	2"	4"
	815/1-STEER	STEERING	2"	4"
	815B-LIFT	LIFT	2"	4"
	815B-STEERING	STEERING	2"	4"
	815B-TILT	TILT	2"	4"
	815-LIFT	LIFT	2"	4"
	815-STEERING	STEERING	2"	4"

CATERPILLAR	816/1STEER	STEERING	2"	4"
	816B-LIFT	LIFT	2.5"	4.75"
	816B-STEERING	STEERING	2"	4"
	816-LIFT	LIFT	2"	4.5"
	816-STEERING	STEERING	2"	4"
	824B-LIFT	LIFT	2"	4.5"
	824C-LIFT	LIFT	2.5"	5.5"
	824-LIFT	LIFT	2"	4.5"
	825B-LIFT	LIFT	2"	4.5"
	826C-LIFT	LIFT	2.5"	5.5"
	835-LIFT	LIFT	2"	4.5"
	854G-TILT	TILT	1.75"	3.25"
	910/1-TILT	TILT	1.75"	3.25"
	910BEAK	LOADER	1.75"	3.5"
	910CROWD	LOADER	1.75"	3.25"
	910-LIFT	LIFT	2"	4"
	910LIFT/PK	LIFT	2"	4"
	910-MULTI	MULTI PURPOSE BUCK	1.5"	3.5"
	910STEER	STEER	1.5"	2.75"
	910-TILT	TILT	1.75"	3"
	916-LIFT	LIFT	2.25"	4.25"
	916-TILT	TILT	2.5"	4.75"
	916WHEELLOAD	STEERING	1.5"	3"
	920/1-DUMP	SIDE DUMP	2"	4"
	920/930STEER	STEERING	1.5"	3"
	920LIFT	LIFT	2.25"	4.25"
	920LIFT/PK	LIFT	2.25	4.25
	920-MULTIBUCK	MULTI PURPOSE BUCK	2"	4"
	920-SIDEDUMP	SIDE DUMP	2"	4"
	920-STEERING	STEERING	1.5"	3"
	920-TILT	TILT	2"	4"
	922A-RIPPER	RIPPER	2.5"	5.5"
	922B-RIPPER	RIPPER	1.5"	5.5"
	924FSTEER	STEER	1.5"	2.75"
	926E-LIFT	LIFT	2.5"	4.75"
	926E-STEERING	STEERING	1.5"	3"
	926E-TILT	TILT	2.5"	5.5"
	926-LIFT	LIFT	2.5"	4.75"
	926-STEERING	STEERING	1.5"	3"
	926-TILT	TILT	2.5"	5.5"
	927STEER	STEERING (IMP)	1.5"	3"
	930/1SIDEDUMP	SIDE DUMP	2"	4"
	930LIFT	LIFT	2.25"	4.5"
	930LIFT/PK	LIFT	2.25	4.5
	930-MULTIBUCK	MULTI PURPOSE BUCK	2"	4"
	930R-LIFT	LIFT	2.25"	4.5"

CATERPILLAR	930R-STEERING	STEERING	1.5"	3"
	930R-TILT	TILT	2"	4.25"
	930-SIDEDUMP	SIDE DUMP	2"	4"
	930-STEERING	STEERING	1.5"	3"
	930TILT	TILT	2"	4.25"
	930TILT/PK	TILT	2	4.25
	930T-LIFT	LIFT	2.25"	4.5"
	930T-STEERING	STEERING	1.5"	3"
	930T-TILT	TILT	2"	4.25"
	931/1BACKHOE	BACK HOE STABILIZER	2"	4"
	931B/1BACKHOE	BACK HOE STABILIZER	2"	4"
	931-BACKHOE	BACKHOE STABILIZER	1.5"	3.5"
	931-BACKHOEST	BACK HOE STICK	2"	4"
	931B-BACKHOE	BACKHOE STABILIZER	1.5"	3.5"
	931BBOO	BOOM	2"	4"
	931B-BOOM	BACKHOE BOOM	2.25"	4.5"
	931B-CL-TILT	TILT	1.75"	3"
	931B-HOESTICK	BACK HOE STICK	2"	4"
	931B-LIFT	LIFT	2"	4"
	931B-MULTI	MULTI PURPOSE BUCK	1.5"	3.5"
	931-BOOM	BACKHOE BOOM	2.25"	4.5"
	931B-RIPPER	RIPPER	2"	4"
	931C/1BACKHOE	BACK HOE STABILIZER	2"	4"
	931C-BACKHOE	BACKHOE STABILIZER	1.5"	3.5"
	931C-BOOM	BACKHOE BOOM	2.25"	4.5"
	931C-CL-TILT	TILT	1.75"	3"
	931C-HOESTICK	BACK HOE STICK	2"	4"
	931C-LIFT	LIFT	2"	4"
	931C-MULTI	MULTI PURPOSE BUCK	1.5"	3.5"
	931C-RIPPER	RIPPER	2"	4"
	931C-TILT	TILT	1.75"	3.25"
	931-LIFT	LIFT	2"	4"
	931-MULTIBUCK	MULTI PURPOSE BUCK	1.5"	3.5"
	931-RIPPER	RIPPER	2"	4"
	931-TILT	TILT	1.75"	3.25"
	933C-MULTI	MULTI PURPOSE BUCK	1.5"	3.5"
	933-MULTI	MULTI PURPOSE BUCK	1.5"	3.5"
	935B/1BACKHOE	BACK HOE STABILIZER	2"	4"
	935B/1LIFT	LIFT	2"	4"
	935B-BACKHOE	BACKHOE STABILIZER	1.5"	3.5"
	935B-BOOM	BACKHOE BOOM	2.25"	4.5"
	935B-HOESTICK	BACK HOE STICK	2"	4"
	935B-LIFT	LIFT	2"	4"
	935B-MULTI	MULTI PURPOSE BUCK	1.5"	3.5"
	935B-RIPPER	RIPPER	2"	4"
	935B-TILT	TILT	1.75"	3.25"

CATERPILLAR	935C/1BACKHOE	BACK HOE STABILIZER	2"	4"
	935C-BACKHOE	BACKHOE STABILIZER	1.5"	3.5"
	935C-BOOM	BACKHOE BOOM	2.25"	4.5"
	935C-HOESTICK	BACK HOE STICK	2"	4"
	935C-LIFT	LIFT	2"	4"
	935C-MULTI	MULTI PURPOSE BUCK	1.5"	3.5"
	935C-RIPPER	RIPPER	2"	4"
	935C-TILT	TILT	1.75"	3.25"
	938F-STEERING	STEERING	1.75"	3"
	938G-STEERING	STEERING	1.75"	3"
	939-MULTIBUCK	MULTI PURPOSE BUCK	1.5"	3.5"
	941/1SIDEDUMP	SIDE DUMP	2"	4"
	941B-M-BUCK	MULTI PURPOSE BUCK	2"	4"
	941B-RIPPER	RIPPER	2.5"	5.5"
	941B-SIDEDUMP	SIDE DUMP	2"	4"
	941MULTIBUCK	MULTI PURPOSE BUCK	2"	4"
	941-RIPPER	RIPPER	2.5"	5.5"
	941-SIDEDUMP	SIDE DUMP	2"	4"
	943-MULTIBUCK	MULTI PURPOSE BUCK	2"	4"
	943-RIPPER	RIPPER	2"	4"
	943-TILT	TILT	2.5"	4.75"
	950/1DELIMB	DELIMB	2"	4"
	950/1-STEER	STEERING	1.5"	3.5"
	950B/1-TILT	TILT	3.25"	7"
	950B-LIFT	LIFT	3"	6"
	950B-TILT	TILT	3.25"	7"
	950-DELIMB	DELIMB	1.75"	3"
	950E/1TILT	TILT	3.25"	7"
	950E-LIFT	LIFT	3"	6"
	950E-TILT	TILT	3.25"	7"
	950F/1TILT	TILT	3.25"	7"
	950F-LIFT	LIFT	3"	6"
	950F-STEER	STEERING	1.75	3.5
	950F-TILT	TILT	3.25"	7"
	950-GRAPPLE	GRAPPLE	1.75"	3"
	950STEER	STEER	1.5"	
	950-STEERING	STEERING	1.5"	3.5"
	950TILT	TILT	2.5"	5.5"
	950TILT/PK	TILT	2.5	5.5
	950-TOPCLAMP	TOP CLAMP	2"	4.5"
	950TREE-STEER	STEERING	1.5"	3.5"
	950-TREETILT	TILT	2.5"	5.5"
	950-WL-LIFT	LIFT	2.5"	5.5"
	950-WL-STEER	STEERING	1.5"	3.5"
	951B/1-DUMP	SIDE DUMP	2"	4"
	951B-LIFT	LIFT	2.25"	4.25"

CATERPILLAR	951BMULTIBUCK	MULTI PURPOSE BUCK	2"	4"
	951B-RIPPER	RIPPER	2.5"	5.5"
	951B-SIDEDUMP	SIDE DUMP	2"	4"
	951B-TILT	TILT	2.375"	4.25"
	951C/1-DUMP	SIDE DUMP	2"	4"
	951C-LIFT	LIFT	2.25"	4.25"
	951CMULTIBUCK	MULTI PURPOSE BUCK	2"	4"
	951C-RIPPER	RIPPER	2.25"	5.5"
	951C-SIDEDUMP	SIDE DUMP	2"	4"
	951C-TILT	TILT	2.375"	4.25"
	953B-LIFT	LIFT	2.5"	4.75"
	953BMULTIBUCK	MULTI PURPOSE BUCK	2"	4"
	953B-RIPPER	RIPPER	2"	4"
	953B-SIDEDUMP	SIDE DUMP	2"	4"
	953C-RIPPER	RIPPER	2"	4"
	953-LIFT	LIFT	2.5"	4.75"
	953-MULTIBUCK	MULTI PURPOSE BUCK	2"	4"
	953-RIPPER	RIPPER	2"	4"
	953-SIDEDUMP	SIDE DUMP	2"	4"
	955F-RIPPER	RIPPER	2.5"	5.5"
	955H-RIPPER	RIPPER	2.5"	5.5"
	955K-LIFT	LIFT	2.5"	5.5"
	955KMULTIBUCK	MULTI PURPOSE BUCK	2"	4.5"
	955K-SIDEDUMP	SIDE DUMP	2"	4.5"
	955K-TILT	TILT	2.5"	5"
	955K-TOPCLAMP	TOP CLAMP	2"	4.5"
	955L/1LIFT	LIFT	2.5"	5.5"
	955L/1TILT	TILT	2.5"	5"
	955L-BUCK	MULTI PURPOSE BUCK	2"	4.5"
	955L-LIFT	LIFT	2.5"	5.5"
	955L-SIDEDUMP	SIDE DUMP	2"	4.5"
	955L-TILT	TILT	2.5"	5"
	955L-TOPCLAMP	TOP CLAMP	2"	4.5"
	960FBOO	LOADER BOOM	3"	6"
	960F-TILT	TILT	3.25"	7"
	963MULTIBUCK	MULTI PURPOSE BUCK	2"	4.5"
	963-RIPPER	RIPPER	2.25"	4.5"
	966C/1STEER	STEERING	2"	4"
	966C-STEERING	STEERING	2"	4"
	966D-STEERING	STEERING	2"	4"
	966D-TILT	TILT	3.25"	9.25"
	966E-STEERING	STEERING	2"	4"
	966E-TILT	TILT	3.25"	9.25"
	966F-STEERING	STEERING	2"	4"
	966F-TILT	TILT	3.25"	9.25"
	966R-STEERING	STEERING	2"	4"

CATERPILLAR	973-RIPPER	RIPPER	2.5"	5"
	980B-LIFT	LIFT	3"	6.25"
	980C-STEERING	STEERING	2.25"	4.5"
	980F-STEERING	STEERING	2.25"	4.5"
	980-LIFT	LIFT	3"	7.25"
	992B-STEERING	STEERING	2.5"	5.5"
	992-STEERING	STEERING	2.5"	5.5"
	B8H/1LIFT/PK	RIPPER	3.5	8.25
	CHALLENGER-65	HITCH LIFT	2"	4"
	CHALLENGER65B	HITCH LIFT	2"	4"
	CHALLENGER65C	HITCH LIFT	2"	4"
	CHALLENGER65D	HITCH LIFT	2"	4"
	CHALLENGER65E	HITCH LIFT	2"	4"
	CHALLENGER70C	HITCH LIFT	2"	4"
	CHALLENGER-75	HITCH LIFT	2"	4"
	CHALLENGER75C	HITCH LIFT	2"	4"
	CHALLENGER75D	HITCH LIFT	2"	4"
	CHALLENGER75E	HITCH LIFT	2"	4"
	CHALLENGER85C	HITCH LIFT	2"	4"
	CHALLENGER85D	HITCH LIFT	2"	4"
	CHALLENGER85E	HITCH LIFT	2"	4"
	CHALLENGER95E	HITCH	2	4
	CS/563DSTEER	STEER	40	80
	D10/1RIPTILT	RIPPER TILT	3.25"	8.25"
	D10N-DOZTILT	DOZER TILT	4"	9.25"
	D10N-PIN	RIPPER PIN PULLER	1.5"	4"
	D10N-RIPLIFT	RIPPER LIFT	3.25"	9.25"
	D10N-RIPTILT	RIPPER TILT	3.25"	8.25"
	D10-PIN	RIPPER PIN PULLER	1.5"	4"
	D10R-DOZTILT	DOZER TILT	4"	9.25"
	D10-RIPLIFT	RIPPER LIFT	3.25"	8.25"
	D10R-PIN	RIPPER PIN PULLER	1.5"	4"
	D10R-RIPLIFT	RIPPER LIFT	3.25"	9.25"
	D10R-RIPTILT	RIPPER TILT	3.25"	8.25"
	D10-TILT	RIPPER TILT	3.25"	8.25"
	D11N/1RIPTILT	RIPPER TILT	3.25"	8.25"
	D11N-PIN	RIPPER PIN PULLER	1.5"	4"
	D11N-RIPTILT	RIPPER TILT	3.25"	8.25"
	D11R-PIN	RIPPER PIN PULLER	1.5"	4"
	D11R-RIPTILT	RIPPER TILT	3.25"	8.25"
	D11R-TILT	RIPPER TILT	3.25"	8.25"
	D25DSTEER	STEERING	2"	4"
	D3/1-BACKHOE	BACK HOE STABILIZER	2"	4"
	D3/1DOZERLIFT	DOZER LIFT	2"	4"
	D35DBOWL	BOWL	3.5"	5.5"
	D35DSTEER	STEER	2"	4.5"

CATERPILLAR	D3B/1-BACKHOE	BACK HOE STABILIZER	2"	4"
	D3B/1DOZERLIFT	DOZER LIFT	2"	4"
	D3-BACKHOE	BACKHOE STABILIZER	1.5"	3.5"
	D3B-BACKHOE	BACKHOE STABILIZER	1.5"	3.5"
	D3B-BOOM	BACKHOE BOOM	2.25"	4.5"
	D3B-DOZER-ANG	ANGLE	1.5	3.5
	D3B-DOZERLIFT	DOZER LIFT	1.5"	3.5"
	D3B-DOZERTILT	DOZER TILT	1.5"	3.5"
	D3B-HOESTICK	BACK HOE STICK	2"	4"
	D3-BOOM	BACKHOE BOOM	2.5"	4.5"
	D3BRIPPERLIFT	RIPPER LIFT	2"	4"
	D3C/1DOZERLIFT	DOZER LIFT	2"	4"
	D3C-ANGLING	DOZER ANGLING	1.5"	3.5"
	D3C-BACKHOE	BACKHOE STABILIZER	1.5"	3.5"
	D3C-BOOM	BACKHOE BOOM	2.25"	4.5"
	D3C-DOZERLIFT	DOZER LIFT	1.5"	3.5"
	D3C-DOZERTILT	DOZER TILT	1.5"	3.5"
	D3C-HOESTABIL	BACK HOE STABILIZER	2"	4"
	D3C-HOESTICK	BACK HOE STICK	2"	4"
	D3-DOZER	DOZER ANGLING	1.5"	3.5"
	D3-DOZER-LIFT	DOZER LIFT	1.5"	3.5"
	D3-DOZER-TILT	DOZER TILT	1.5"	3.5"
	D3-HOESTICK	BACK HOE STICK	2"	4"
	D3-RIPPERLIFT	RIPPER LIFT	2"	4"
	D400-T/LIFT/PK	TRAY LIFT	3.5"	5.5"
	D4B/1-BACKHOE	BACK HOE STABILIZER	2"	4"
	D4B/1DOZERLIFT	DOZER LIFT	2"	4"
	D4B-BACKHOE	BACKHOE STABILIZER	1.5"	3.5"
	D4B-BOOM	BACKHOE BOOM	2.25"	4.5"
	D4B-DOZER-ANG	DOZER ANGLING	1.5"	3.5"
	D4B-DOZERLIFT	DOZER LIFT	1.5"	3.5"
	D4B-DOZERTILT	DOZER TILT	1.5"	3.5"
	D4B-RIPLIFT	RIPPER LIFT	2"	4"
	D4C/1BACKHOE	BACK HOE STABILIZER	2"	4"
	D4C/1DOZERLIFT	DOZER LIFT	2"	4"
	D4C-BACKHOE	BACKHOE STABILIZER	1.5"	3.5"
	D4C-BOOM	BACKHOE BOOM	2.25"	4.5"
	D4C-DOZER	DOZER ANGLING	1.5"	3.5"
	D4C-DOZERTILT	DOZER TILT	1.5"	3.5"
	D4C-DOZ-LIFT	DOZER LIFT	1.5"	3.5"
	D4C-HOESTICK	BACK HOE STICK	2"	4"
	D4C-RIPLIFT	RIPPER LIFT	2"	4"
	D4D-DOZERLIFT	DOZER LIFT	2"	3.5"
	D4D-RIP-LIFT	RIPPER LIFT	2.5"	5.5"
	D4E/1DOZERLIFT	DOZER LIFT	2"	3.5"
	D4E/1DOZERTILT	DOZER TILT	2"	4.25"

CATERPILLAR	D4E/1RIP-LIFT	RIPPER LIFT	2.5"	5.5"
	D4E/2DOZLIFT	DOZER LIFT	2"	4.25"
	D4E-DOZERTILT	DOZER TILT	2"	4.25"
	D4E-RIP-LIFT	RIPPER LIFT	2.5"	5"
	D4H-DOZERLIFT	DOZER LIFT	2.25"	4.5"
	D4H-RIPP-LIFT	RIPPER LIFT	2"	4"
	D5/1DOZLIFT	DOZER LIFT	2.5"	4"
	D5/2DOZERLIFT	DOZER LIFT	2.5"	4.25"
	D5/TILT	DOZER LIFT	3"	6.5"
	D5B/1DOZLIFT	DOZER LIFT	3"	6.5"
	D5B/3DOZLIFT	DOZER LIFT	2.5"	4"
	D5B/RIP			
	D5B-DOZERLIFT	DOZER LIFT	2.5"	4"
	D5BLADE	BLADE	2.5"	4"
	D5B-TOOLBAR	TOOL BAR	1.5"	4"
	D5-DOZERLIFT	DOZER LIFT	3"	6.5"
	D5E-DOZERLIFT	DOZER LIFT	2.5"	4"
	D5H/1DOZLIFT	DOZER LIFT	2.25"	4.5"
	D5H/2DOZLIFT	DOZER LIFT	2.5"	5"
	D5H-DOZER-ANG	DOZER ANGLE	2"	4"
	D5H-DOZERLIFT	DOZER LIFT	2.25"	4.5"
	D5H-DOZERTILT	DOZER TILT	3"	6.5"
	D5H-RIP-LIFT	RIPPER LIFT	2"	4"
	D6B/1DOZLIFT	DOZER LIFT	2"	4.5"
	D6B/2DOZLIFT	DOZER LIFT	3"	6.5"
	D6B-DOZERTILT	DOZER TILT	3"	6.5"
	D6B-DOZ-LIFT	DOZER LIFT	2.5"	4.25"
	D6C/1DOZLIFT	DOZER LIFT	2.5"	4"
	D6C/2DOZLIFT	DOZER LIFT	2.5"	4.25"
	D6C/3DOZLIFT	DOZER LIFT	3"	6.5"
	D6CBLADE	BLADE	2.5"	4.25"
	D6C-DOZERTILT	DOZER TILT	3"	6.5"
	D6C-DOZ-LIFT	DOZER LIFT	2"	3.5"
	D6CLIFT	LIFT	2.5"	4"
	D6C-TOOL-BAR	TOOL BAR	1.5"	4"
	D6D/1DOZLIFT	DOZER LIFT	3"	6.5"
	D6D/1DOZTILT	DOZER TILT	3"	6.5"
	D6D/2DOZLIFT	DOZER LIFT	2.5"	4"
	D6DBLADE	BLADE RAM (IMP)	2.5"	4"
	D6D-DOZERLIFT	DOZER LIFT	2.5"	4"
	D6DTILT	TILT	3"	6.5"
	D6D-TOOL-BAR	TOOL BAR	1.5"	4"
	D6E/1DOZLIFT	DOZER LIFT	2.5"	4"
	D6E-DOZERTILT	DOZER TILT	3"	6.5"
	D6E-DOZ-LIFT	DOZER LIFT	2.5"	4"
	D6G/1DOZLIFT	DOZER LIFT	2.5"	4"

CATERPILLAR	D6G-DOZERLIFT	DOZER LIFT	2.5"	4"
	D6G-DOZERTILT	DOZER TILT	3"	6.5"
	D6H-BLADE-LIFT	BLADE	2.5	3.75
	D6H-DOZERLIFT	DOZER LIFT	3"	6.5"
	D6H-DOZERTILT	DOZER TILT	3"	6.5"
	D6H-RIP-LIFT	RIPPER LIFT	2.5"	5"
	D6MLIFT	LIFT	2.25"	4.5"
	D6R-DOZERTILT	DOZER TILT	3"	6.5"
	D7BLADE	BLADE LIFT	2.5"	4"
	D7E-DOZERTILT	DOZER TILT	3.5"	8.25"
	D7F/1DOZLIFT	DOZER LIFT	3"	6.5"
	D7F/1DOZTILT	DOZER TILT	3.5"	8.25"
	D7F/2DOZTILT	DOZER TILT	3"	6.5"
	D7F-DOZERLIFT	DOZER LIFT	2.5"	4.75"
	D7F-DOZERTILT	DOZER TILT	3"	6.5"
	D7G/1DOZLIFT	DOZER LIFT	3"	6.5"
	D7G/1DOZTILT	DOZER TILT	3.5"	8.25"
	D7G/2DOZTILT	DOZERTILT	3"	6.5"
	D7G-DOZERLIFT	DOZER LIFT	2.5"	4.75"
	D7G-DOZERTILT	DOZER TILT	3"	6.5"
	D7H/1DOZLIFT	DOZER LIFT	3"	6.5"
	D7H-DOZERLIFT	DOZER LIFT	2.5"	4"
	D7H-DOZERTILT	DOZER TILT	3"	6.5"
	D7R-DOZERLIFT	DOZER LIFT	2.5"	4"
	D7R-DOZERTILT	DOZER TILT	3"	6.5"
	D85PBLADE	BLADE LIFT	70	110
	D8D-DOZERTILT	DOZER TILT	3.5"	8.25"
	D8-DOZERTILT	DOZER TILT	3.5"	8.25"
	D8E-DOZERTILT	DOZER TILT	3.5"	8.25"
	D8F-DOZERTILT	DOZER TILT	3.5"	8.25"
	D8G-DOZERTILT	DOZER TILT	3.5"	8.25"
	D8H(LATE)PIN	RIPPER PIN PULLER	1.5"	4"
	D8H/1DOZTILT	DOZER TILT	3.5"	8.25"
	D8H/1LIFT	RIPPER LIFT	3.5"	8.25"
	D8H/2LIFT	RIPPER LIFT	3.5"	8.25"
	D8H-DOZERLIFT	DOZER LIFT	2.5"	5"
	D8H-DOZERTILT	DOZER TILT	3.5"	8.25"
	D8H-DOZTILT	DOZER TILT	3.5"	8.25"
	D8H-EARLYLIFT	RIPPER LIFT	3.5"	7.25"
	D8H-LIFT	RIPPER LIFT	3.25"	8.25"
	D8H-L-RIPTILT	RIPPER TILT	3"	6.25"
	D8H-RIPTILT	RIPPER TILT	3"	7.25"
	D8K/1DOZTILT	TILT	3.5"	8.25"
	D8K/1-LIFT	DOZER LIFT	2.75"	5"
	D8K/1RIPLIFT	RIPPER LIFT	3.25"	8.25"
	D8K/1RIPTILT	RIPPER TILT	3"	6.25"

CATERPILLAR	D8KBLADE	BLADE	2.75"	5"
	D8K-DOZERLIFT	DOZER LIFT	2.75"	5"
	D8K-DOZERTILT	DOZER TILT	3.5"	8.25"
	D8K-PIN	RIPPER PIN PULLER	1.5"	4"
	D8K-RIPLIFT	RIPPER LIFT	3.25"	8.25"
	D8K-TILT	RIPPER TILT	3"	7.25"
	D8L/1DOZTILT	DOZER TILT	3.5"	8.25"
	D8L/1RIPLIFT	RIPPER LIFT	3.25"	8.25"
	D8L/1RIPTILT	RIPPER TILT	3.25"	8.25"
	D8L-DOZERLIFT	DOZER LIFT	3"	5.25"
	D8L-PIN	RIPPER PIN PULLER	1.5"	4"
	D8L-RIPLIFT	RIPPER LIFT	3.25"	8.25"
	D8L-RIPTILT	RIPPER TILT	3.25"	8.25"
	D8N-DOZERTILT	DOZER TILT	3"	6.5"
	D8N-PIN	RIPPER PIN PULLER	1.5"	4"
	D9D/1RIPLIFT	RIPPER LIFT	3.5"	9.25"
	D9D-DOZERTILT	DOZER TILT	3.5"	8.25"
	D9D-RIPLIFT	RIPPER LIFT	3.5"	8.25"
	D9E/1LIFT	RIPPER LIFT	3.5"	8.25"
	D9E-DOZERTILT	DOZER TILT	3.5"	8.25"
	D9E-LIFT	RIPPER LIFT	3.5"	9.25"
	D9G(LATE)PIN	RIPPER PIN PULLER	1.5"	4"
	D9G/1DOZTILT	DOZER TILT	3.5"	8.25"
	D9G/1DOZTILT(L)	TILT	3.5	8.25
	D9G/1ERIPLIFT	RIPPER LIFT	3.5"	9.25"
	D9G/1RIPLIFT	RIPPER LIFT	3.5"	9.25"
	D9G/1-TILT	RIPPER TILT	3.5"	8.25"
	D9G-DOZERLIFT	DOZER LIFT	3"	6.25"
	D9G-DOZERTILT	DOZER TILT	3.5"	8.25"
	D9G-DUALDOZ	DOZER LIFT	3"	6.25"
	D9G-E-DOZTILT	DOZER TILT	3.5"	8.25"
	D9G-LDOZLIFT	DOZER LIFT	3"	6.25"
	D9G-RIPLIFT	RIPPER LIFT	3.5"	8.25"
	D9G-RIPPLIFT	RIPPER LIFT	3.5"	8.25"
	D9G-TILT	RIPPER TILT	3.25"	9.25"
	D9H/1DOZLIFT	DOZER LIFT	3"	6.25"
	D9H/1DOZTILT	DOZER TILT	3.5"	8.25"
	D9H/1RIPTILT	RIPPER TILT	3.5"	8.25"
	D9H-DOZERLIFT	DOZER LIFT	3"	6.25"
	D9H-DOZERTILT	DOZER TILT	3.5"	8.25"
	D9H-PIN	RIPPER PIN PULLER	1.5"	4"
	D9H-RIPTILT	RIPPER TILT	3.25"	9.25"
	D9L/1DOZLIFT	DOZER LIFT	5.75"	8.25"
	D9L/1-LIFT	TILT	3.25"	6"
	D9L/1RIPLIFT	RIPPER LIFT	3.25"	9.25"
	D9L/1RIPTILT	RIPPER TILT	3.25"	8.25"

CATERPILLAR	D9L-DOZERLIFT	DOZER LIFT	4"	9.25"
	D9L-PIN	RIPPER PIN PULLER	1.5"	4"
	D9L-RIPLIFT	RIPPER LIFT	3.25"	8.25"
	D9L-RIPTILT	RIPPER TILT	3.25"	9.25"
	D9N/RIPLIFT	RIPPER LIFT	3.25"	8.25"
	D9N-DOZERLIFT	DOZER LIFT	3"	5.25"
	D9N-PIN	RIPPER PIN PULLER	1.5"	4"
	D9N-RIPTILT	RIPPER TILT	3"	6.5"
	E120ARM/PK	ARM	80	120
	E120BARM/PK	ARM	80	120
	E120BBOO/PK	BOOM	75	110
	E120BBUC	BUCKET RAM	65	100
	E120BOO	BOOM	75	110
	E120R/J/PK	ROTARY CENTRE JOINT		
	E200B/200EBOOPK	BOOM	85	120
	E200B/E200EARM	ARM	95	130
	E200B/E200EBUCP	BUCKET	75	115
	E200BADJ	TRACK ADJUSTER	60	60
	E200BR/J	ROTARY CENTRE JOINT		
	E240ARM	ARM	100	150
	E240BOO	BOOM	90	140
	E240BUC	BUCKET	90	140
	E300ADJ/PK	TRACK ADJUSTER		
	E300B/300EBOOPK			
	E300B/E300EARM	ARM	110	160
	E300B/E300EBUCP			
	E303BOO/PK	BOOM	50	80
	E320/320LR/J/PK	ROTARY CENTRE JOINT		
	E320ARM	ARM	100	140
	E320BOO	BOOM	85	120
	E320BUC/PK	BUCKET	85	120
	E322ARM/PK	ARM	100	140
	E322BOO/PK			
	E325ARM/PK	ARM	105	150
	E325BOO/PK	BOOM	95	130
	E325BUC/PK	BUCKET	85	130
	E325R/J/PK	ROTARY CENTRE JOINT		
	E330ARM/PK	ARM	110	170
	E330BUC/PK	BUCKET	85	130
	E450/BF	BUCKET	120	170
	E450ARM	ARM	140	190
	E450BOO	BOOM	130	180
	E450BUC/PK	BUCKET	120	170
	FB518-LIFT	LIFT	2.5"	5"
	FB518-STEER	STEERING	1.75"	3"
	FB518STEERING	STEERING	1.75"	3"

CATERPILLAR	FB518-TILT	TILT	2.25"	4.25"
	G910-LIFT	LIFT	2"	4"
	G910-MULTI	MULTI PURPOSE BUCK	1.5"	3.5"
	G910-TILT	TILT	1.75"	3.25"
	G910WL/STEER	STEERING	1.5"	2.75"
	G910-WL-TILT	TILT	1.75"	3"
	G916-LIFT	LIFT	2.25"	4.25"
	G916-STEERING	STEERING	1.5"	3"
	G916-TILT	TILT	2.5"	4.75"
	G926-LIFT	LIFT	2.5"	4.75"
	G926-STEERING	STEERING	1.5"	3"
	G926-TILT	TILT	2.5"	5.5"
	IT12ARM/BUC	ARM / BUCKET	1.75"	3.5"
	IT12BSTEERING	STEERING	1.5"	2.75"
	IT12B-TILT	TILT	1.75"	3"
	IT12F-STEER	STEERING	1.5"	2.75"
	IT12F-TILT	TILT	1.75"	3"
	IT12-STEERING	STEERING	1.5"	2.75"
	IT12-TILT	TILT	1.75"	3"
	IT14F-TILT	TILT	1.75"	3"
	IT18B-LIFT	LIFT	2.25"	4.25"
	IT18B-STEER	STEERING	1.5"	3"
	IT18-LIFT	LIFT	2.25"	4.25"
	IT18-STEERING	STEERING	1.5"	3"
	IT28B-LIFT	LIFT	2.5"	4.75"
	IT28B-STEER	STEERING	1.5"	3"
	IT28-LIFT	LIFT	2.5"	4.75"
	IT28-STEERING	STEERING	2.5"	4.75"
	IT38F-STEER	STEERING	1.75"	3"
	IT38G-STEER	STEERING	1.75"	3"
	J621-DOORDUMP	BOTTOM DOOR DUMP	2.5"	5"
	J621-LOAD	LOAD	2.5"	5.5"

	PART#	***RAM***	***ROD***	***BORE***
CLARK	55B-BUCKET	BUCKET	2	4
	55B-LIFT-RAM	LIFT	2.25	5
	55BSTEER	STEERING	1.75	3.5
	664BLADE	BLADE LIFT	1.3	3.5

	PART#	***RAM***	***ROD***	***BORE***
DAEWOO	CHS450CJ			
	DH05WARM/PK	ARM	70	110
	DH05WBOO/PK	BOOM	70	110
	DH05WBUC	BUCKET	65	110
	DH07SARM/PK	ARM	95	140
	DH07SBOO	BOOM	90	130
	DH07SBUC	BUCKET	90	130
	DH07WBUC	BUCKET	80	120

DAEWOO	DH07WRAM	RAM	120	
	DH50R/J	ROTARY JOINT		
	MEGA200BUC	BUCKET	75	140
	MEGA200LIF	LIFT	70	120
	MEGA200P/S/PK	P/S	35	70
	MEGA250/3BUC	BUCKET	80	160
	MEGA250/3LIF/PK	LIFT	80	140
	MEGA250/3P/S	P/S	35	70
	MEGA300/3LIF	LIFT	85	150
	MEGA300BUC	BUCKET	75	140
	MEGA300LIF	LIFT	85	150
	MEGA300P/S	P/S	40	80
	MEGA400BUC/PK	BUCKET	90	160
	MEGA400LIF	LIFT	95	180
	MEGA400P/S	P/S	50	90
	S130/2ARM/PK	ARM	80	120
	S130/2BOO/PK	BOOM	75	110
	S130/2BUC/PK	BUCKET	65	100
	S130/2M/P	PUMP		
	S130/2S/M/PK	SLEW MOTOR		
	S130/2T/M/PK	TRACTION MOTOR		
	S130ARM/PK	ARM	80	120
	S130BOO/PK	BOOM	75	110
	S130BUC/PK	BUCKET	65	100
	S130W/3ARM/PK	ARM	75	110
	S130W/3BUC/PK	BUCKET	65	100
	S130W/3S/M/PK	SLEW MOTOR		
	S130W/3TRA/PK	TRACK ADJUSTER	70	70
	S130W/5ARM/PK	ARM	75	110
	S130W/5BOO/PK	BOOM	70	100
	S130W/5BUC/PK	BUCKET	65	95
	S130WARM/PK	ARM	75	110
	S130WART/PK	ARTIC RAM	100	180
	S130WBOO/PK	BOOM	70	110
	S130WBUC/PK	BUCKET	65	100
	S200LCS/M/PK	SLEW MOTOR		
	S200LCT/M/PK	TRACTION MOTOR		
	S220LC/3ARM/PK	ARM	95	135
	S220LC/3BOO/PK	BOOM	85	125
	S220LC/3BUC/PK	BUCKET	85	125
	S220LC/3T/M/PK	TRACTION MOTOR		
	S220LC/5ARM	ARM	95	135
	S220LC/5BOO/PK	BOOM	85	120
	S220LC/5BUC	BUCKET	75	115
	S220LCARM/PK	ARM	95	140
	S220LCBOO/PK	BOOM	90	130

DAEWOO	S220LCBUC/PK	BUCKET	90	130
	S220LCC/J			
	S220LCDOZ/PK	DOZER	70	120
	S280/3ARM/PK	ARM	105	150
	S280/3BOO/PK	BOOM	95	150
	S280/3BUC/PK	BUCKET	95	150
	S280ARM/PK	ARM	105	150
	S280BOO/PK	BOOM	95	150
	S280BUC/PK	BUCKET	95	150
	S280LCARM/PK	ARM	105	150
	S280LCBOO/PK	BOOM	95	150
	S280T/M/PK	TRACTION MOTOR		
	S280TRA/PK	TRACK ADJUSTER	80	80
	S290/5ARM	ARM	105	150
	S290/5BOO	BOOM	95	140
	S290/5BUC/PK	BUCKET	90	140
	S290C/J			
	S30ARM/PK	ARM	40	63
	S30BOO/PK	BOOM	45	80
	S30BUC/PK	BUCKET	40	70
	S30C/J			
	S30DOZ/PK	DOZER	45	80
	S320ARM/PK	ARM (EARLY)	115	170
	S320ARM1/PK	ARM (LATE)	115	170
	S320BOO/PK	BOOM (EARLY)	100	160
	S320BOO1/PK	BOOM (LATE)	100	160
	S320BUC/PK	BUCKET (EARLY)	95	150
	S320BUC1/PK	BUCKET (LATE)	95	150
	S320S/M/PK	SLEW MOTOR		
	S330/3ARM/PK	ARM	115	170
	S330/3BOO/PK	BOOM	100	160
	S330/3BUC/PK	BUCKET	95	150
	S330/3C/J1			
	S330/3C/J2			
	S330/3TRA/PK	TRACK ADJUSTER	80	80
	S330LC/5ARM/PK	ARM	115	170
	S330LC/5BOO/PK	BOOM	100	150
	S330LC/5BUC/PK	BUCKET	100	150
	S400LC/3ARM/PK	ARM	120	180
	S400LC/3BOO/PK	BOOM	115	170
	S400LC/3BUC/PK	BUCKET	105	160
	S400LC/3C/J/PK	ROTARY CENTRE JOINT		
	S400LC/GRE/PK	GREASE	100	
	S450/3TRA/PK	TRACK ADJUSTER	80	80
	S450ARM/PK	ARM	130	190
	S450BOO/PK	BOOM	115	170

DAEWOO	S450BUC/PK	BUCKET	115	170
	S50/2DOZ/PK	DOZER	60	100
	S50ARM/PK	ARM	55	90
	S50BOO/PK	BOOM	60	110
	S50BUC/PK	BUCKET	55	85
	S50DOZ/PK	DOZER	60	100
	S50SWI/PK	SWING	40	80
	S50TRA/PK	TRACK ADJUSTER	60	70
	S50W/3ARM/PK	ARM	55	90
	S50W/3BOO/PK	BOOM	60	100
	S50W/3BUC/PK	BUCKET	50	80
	S50WARM/PK	ARM	55	90
	S50WBOO/PK	BOOM	60	100
	S50WBUC/PK	BUCKET	50	80
	S50WC/J	C/JOINT		
	S50WRAM/PK	RAM	60	
	S55/5ARM/PK	ARM	55	85
	S55/5ARM1/PK	ARM	55	85
	S55/5BOO/PK	BOOM	55	110
	S55/5BUC/PK	BUCKET	55	85
	S55/5C/J			
	S55/5DOZ/PK	DOZER	60	110
	S55/5GRE/PK	GREASE	60	
	S56/5SWI/PK	SWING	40	80
	S70/3ARM/PK	ARM	65	100
	S70/3BOO/PK	BOOM	70	110
	S70/3BUC/PK	BUCKET	55	85
	S80W/3ARM/PK	ARM	65	100
	S80W/3BOO/PK	BOOM	70	110
	S80W/3BUC/PK	BUCKET	55	85
	S80W/3DOZ/PK	DOZER	60	85
	S80W/3RAM/PK	RAM	70	
	S80WARM/PK	ARM	65	100
	S80WBOO/PK	BOOM	70	110
	S80WBUC/PK	BUCKET	55	85
	S80WC/J			
	SL55-C/JOINT			

	PART#	***RAM***	***ROD***	***BORE***
DATSUN	QF02TILT	TILT	35	

	PART#	***RAM***	***ROD***	***BORE***
DRESSER	530LIFT	LIFT	2.75	5.5
	DRESSER-STEER	steering	2	3.5

	PART#	***RAM***	***ROD***	***BORE***
HEILA	HEILA-823053		40	70
	HEILA-823055		30	50
	HEILA-823076		80	160

HEILA	HEILA-823083			
	HEILA-823086		100	200
	HEILA-823110			100
	HEILA-823112		25	40
	HEILA-823114		70	150
	HEILA-823122		0	0
	HEILA-823167		0	0
	PART#	***RAM***	***ROD***	***BORE***
HIAB	HIAB-3300218	650 INNER BOOM KIT	140	0
	HIAB-3300234	650/1 SLEW	0	85
	HIAB-3300307	650 UPPER BOOM EXT	55	105
	HIAB-3300315	100MM PISTON KIT	0	100
	HIAB-3300358	HIAB CYL KIT	25	50
	HIAB-3300498	60 SLEW CYL	0	85
	HIAB-3300501	650 INNER BOOM	100	140
	HIAB-3300528	670 SLEW CYL	0	85
	HIAB-3300544	HIAB SEAL KIT	55	105
	HIAB-3300625	650/1 OUTRIGGER	78	0
	HIAB-3300633	BOOM EXTENSION	0	0
	HIAB-3300668	BOOM EXTENSION	0	0
	HIAB-3300692	BOOM EXTENSION	80	125
	HIAB-3300714	INNER BOOM	45	70
	HIAB-3300722	HIAB SEAL KIT	63	82
	HIAB-3300731	BOOM EXTENSION	0	0
	HIAB-3300749	650 INNER BOOM	100	140
	HIAB-3300773	1770 OUTRIGGER	90	100
	HIAB-3300790	HIAB SEAL KIT	120	0
	HIAB-3300871	070 INNER BOOM	90	125
	HIAB-3300889	070 INNER BOOM	70	100
	HIAB-3300897	070 BOOM EXT	35	60
	HIAB-3300951	HIAB SEAL KIT	100	180
	HIAB-3301001		33	60
	HIAB-3301028	OUT RIGGER	70	90
	HIAB-3301036	INNER/OUTER BOOM	80	140
	HIAB-3301044	CYLINDER A /BOOM EXT	50	80
	HIAB-3301052	HIAB SEAL KIT	25	40
	HIAB-3301061	HIAB SEAL KIT	70	125
	HIAB-3301125	HIAB SEAL KIT	0	0
	HIAB-3301231	HIAB SEAL KIT	90	160
	HIAB-3301249	HIAB SEAL KIT	40	70
	HIAB-3301257	HIAB SEAL KIT	70	70
	HIAB-3301290	175 INNER BOOM	100	140
	HIAB-3301303	120 INNER BOOM	90	125
	HIAB-3301311	120 BOOM EXT	45	63
	HIAB-3301320	120 BOOM EXT	40	63
	HIAB3301508		80	110

HIAB	HIAB3301613		40	63
	HIAB-5422124		50	80
	HIAB-6072267	HIAB SEAL KIT	75	85
	HIAB-6221149	670 EXTENSION	40	63
	HIAB-6221599	670 MAIN BOOM	63	125
	HIAB-6221661	670 BOOM EXT	63	140
	HIAB-6221670	HIAB SEAL KIT	70	140
	HIAB-6221688	1165 INNER/OUTER BOO	80	140
	HIAB-6222170	670 2 STAGE BOOM EXT	32	105
	HIAB-7114659	HIAB SEAL KIT	50	110
	HIAB-7114660	HIAB SEAL KIT	30	50
	HIAB-7115366	HIAB SEAL KIT	80	140
	HIAB-7115834	HIAB SEAL KIT	30	70
	HIAB-7124173	HIAB SEAL KIT	100	180
	HIAB-7124174	HIAB SEAL KIT	50	90
	HIAB-7800231	HIAB SEAL KIT	50	85
	HIAB7800240FM	HIAB SEAL KIT	40	75
	HIAB7868405FM	HIAB SEAL KIT	40	90
	HIAB-8230850	HIAB SEAL KIT	0	0
	HIAB-8252050	HIAB SEAL KIT	45	80
	HIAB-8343039	BOOM EXTENSION	50	90
	HIAB-8728038	2640 IN/OUT BOOM	100	140
	HIAB-8728046	HIAB SEAL KIT	100	140
	HIAB-8728330	1770 INNER BOOM	80	125
	HIAB-8728348	1770 OUTER BOOM	100	180
	HIAB-8728356	HIAB SEAL KIT	50	80
	HIAB-9500979	HIAB SPECIAL SEAL	0	0
	HIAB-9950621	100MM PISTON KIT	0	100
	HIAB-9959122	105MM PISTON KIT	0	105
	HIAB-9960791	110MM PISTON KIT	0	110
	TH02503505	HIAB SPECIAL SEAL	0	0

	PART#	***RAM***	***ROD***	***BORE***
HITACHI	310HARM	ARM	100	145
	310HBOO	BOOM	110	165
	310HBUC	BUCKET	95	145
	AX1.8BOO	BOOM	35	60
	AX30/2ARM	ARM	40	70
	AX30/2BOO	BOOM	45	80
	AX30/2BUC	BUCKET	40	65
	AX30UBOO	BOOM	45	80
	AX40ARM	ARM	50	85
	AX40BOO	BOOM	50	90
	AX40U/4-ADJ			
	AX40U/4BLADE	BLADE	50	105
	AX50U/4-ADJ			
	EX/AX30/2RJ/PK	ROTARY CENTRE JOINT		

HITACHI	EX-100/1/2/3BH	BUCKET HEAD KIT	65	
	EX-100/1/2/3DH	DIPPER	75	80
	EX-100/1/2/3MH	LIFT	70	
	EX100/1/MARM/PK	ARM	75	105
	EX100/1/MBOO	BOOM	70	95
	EX100/1/MBUC	BUCKET	65	95
	EX100/12SARM	ARM	75	110
	EX100/12SBOO	BOOM	70	90
	EX100/12SBUC	BUCKET	65	100
	EX-100/1-DH	DIPPER HEAD KIT	65	
	EX100/2/3ADJ			
	EX100/2ARM	ARM	75	105
	EX100/2BOO/PK	BOOM	70	95
	EX100/2BUC	BUCKET	65	95
	EX100/3ARM	ARM	75	105
	EX100/3BOO	BOOM	70	95
	EX100/3BUC	BUCKET	65	95
	EX100/3R/J	ROTARY JOINT		
	EX100/5ARM	ARM	65	95
	EX100/5BOO	BOOM	70	95
	EX100/5BUC	BUCKET	65	95
	EX100ADJ/PK			
	EX-100-DH	DIPPER HEAD KIT	75	
	EX100R/J	ROTARY JOINT		
	EX100WD/2-R/J			
	EX-120/1-BH	BUCKET HEAD	65	
	EX-120/1-DH	DIPPER HEAD	80	
	EX-120/1-MH	LIFT HEAD	75	
	EX-120/2/3MH	LIFT HEAD	70	
	EX120/2ARM	ARM	80	110
	EX120/2BOO	BOOM	70	105
	EX120/2BUC	BUCKET	65	95
	EX-120/2-DH	DIPPER HEAD	80	
	EX120/3ARM	ARM	80	110
	EX120/3BOO	BOOM	70	105
	EX120/3BUC	BUCKET	65	95
	EX120/5ADJ/PK	TRACK ADJUSTER		60
	EX120/5ARM	ARM	80	110
	EX-120/5-BH	BUCKET HEAD	65	
	EX120/5BOO	BOOM	70	105
	EX120/5BUC	BUCKET	65	95
	EX-120/5-DH	DIPPER HEAD	80	
	EX-120/5-MH	LIFT HEAD	70	
	EX120ADJ			
	EX120ARM	ARM	80	115
	EX120BOO	BOOM	75	105

HITACHI	EX120BUC	BUCKET	65	95
	EX120R/J			
	EX120RJ			
	EX120WDARM	ARM	75	105
	EX120WDBOO	BOOM	70	95
	EX120WDBUC	BUCKET	65	95
	EX135RJ			
	EX135USRBOO	BOOM	70	105
	EX135USRBUC	BUCKET	65	95
	EX-150/1A-BH	BUCKET HEAD	80	
	EX150/1ARM	ARM	85	120
	EX-150/1-BH	BUCKET HEAD	75	
	EX150/1BOO/PK	BOOM	80	115
	EX150/1BUC	BUCKET	75	110
	EX-150/1-DH	DIPPER HEAD	85	
	EX-150/1-MH	LIFT HEAD	80	
	EX150/5ARM	ARM	85	115
	EX150/5BOO	BOOM	80	110
	EX150/5BUC	BUCKET	75	105
	EX17BOO	BOOM	30	55
	EX17UBUC	BUCKET	30	50
	EX1900BUC	BUCKET	150	200
	EX200/1ARM	ARM	95	135
	EX-200/1-BH	BUCKET HEAD	80	
	EX200/1BOO	BOOM	85	125
	EX200/1CON/PK	CONTROL		
	EX-200/1-DH	DIPPER HEAD	95	
	EX-200/1-MH	LIFT HEAD	85	
	EX200/1R/J	ROTARY JOINT		
	EX200/1R/J/PK			
	EX200/2/3/5AD			
	EX200/2/3/5BUC	BUCKET	75	110
	EX200/2/3ARM	ARM	95	130
	EX200/2/3BOO	BOOM	85	120
	EX-200/235-BH	BUCKET HEAD	75	
	EX-200/235-DH	DIPPER HEAD	95	
	EX-200/235-MH	LIFT HEAD	85	
	EX200/2CON/PK	CONTROL		
	EX200/2PILOT	PILOT KIT		
	EX200/2R/J			
	EX200/4/5R/J			
	EX200/5ARM	ARM	95	130
	EX200/5BOO			
	EX200/5-CONTROL			
	EX200ARM	ARM	95	135
	EX200B00	BOOM	85	125

HITACHI	EX200BUC	BUCKET	80	120
	EX200BUC/LR	BUCKET	65	95
	EX210/5ARM	ARM	95	130
	EX22/1BUC	BUCKET	35	60
	EX22/2ARM	ARM	35	65
	EX22/2BOO	BOOM	40	70
	EX22/2BUC	BUCKET	35	60
	EX-220/1-DH	DIPPER HEAD	100	
	EX-220/1-MH	LIFT HEAD	90	
	EX220/2ADJ	TRACK ADJDUSTER		70
	EX220/2ARM	ARM	100	135
	EX220/2BB	BOOM / BUCKET	90	125
	EX220/3ARM	ARM	100	135
	EX220/5ARM	ARM	100	135
	EX220/5BOO/PK	BOOM	90	125
	EX220/5BUC	BUCKET	85	125
	EX220ARM	ARM	100	145
	EX220B/B	BOOM / BUCKET	90	135
	EX225ADJ			
	EX225BOO	BOOM	85	120
	EX225URARM	ARM	95	135
	EX25/1A/B	ARM/BUCKET	40	75
	EX25/1BOO	BOOM	45	80
	EX25/2ARM	ARM	40	70
	EX25/2BOO/PK	BOOM	40	70
	EX25/2BUC	BUCKET	35	60
	EX25/2SW/BOO	SWING BOOM	45	85
	EX25/EX50R/J	ROTARY JOINT		
	EX270/300/320	TRACK ADJUSTER	85	85
	EX270/5BOO	BOOM	90	135
	EX270/5BUC	BUCKET	90	135
	EX270ARM	ARM	105	150
	EX270B/B/PK	BOOM / BUCKET	95	145
	EX-270-BH	BUCKET HEAD	95	
	EX-270-DH	DIPPER HEAD	105	
	EX270LC/5ARM	ARM	100	145
	EX-270-MH	LIFT	95	
	EX30/1ARM	ARM	40	75
	EX30/1BUC	BUCKET	40	65
	EX30/2ARM/PK	ARM	115	170
	EX30/2BOOM	BOOM	45	80
	EX30/2BUC/PK	BUCKET	40	65
	EX300/1ADJ			
	EX300/1ARM	ARM	110	165
	EX-300/1-BH	BUCKET HEAD	95	
	EX300/1BOO	BOOM	100	145

HITACHI	EX300/1BUC	BUCKET	95	
	EX-300/1-DH	DIPPER HEAD	110	
	EX-300/1-MH	LIFT HEAD	100	
	EX300/2/3BOO	BOOM	100	145
	EX300/2/3BUC/PK	BUCKET	95	145
	EX300/2ARM	ARM	110	165
	EX300/3ADJ	TRACK ADJUSTER	70	85
	EX300/3ARM/PK	ARM	110	165
	EX300/3BUC	BUCKET	95	145
	EX-300/3-DH	DIPPER HEAD	110	
	EX-300/3-MH	BOOM/LIFT HEAD KIT	100	
	EX300/3R/J	ROTARY JOINT		
	EX300/5ARM	ARM	115	170
	EX300/5BOO	BOOM	105	150
	EX300/5BUC	BUCKET	95	145
	EX300BOO/PK	BOOM	100	145
	EX300PUMP	PUMP		
	EX30UR/2BOO	BOOM	40	65
	EX30UR/2CBOO/AR	BOOM/ARM	45	75
	EX30UR/2CBUC	BUCKET	40	65
	EX310HBOO	BOOM	100	145
	EX310HBUC	BUCKET	95	145
	EX320ADJ	TRACK ADJUSTER	85	
	EX320ARM	ARM	110	165
	EX320BOO	BOOM	100	145
	EX320BUC	BUCKET	95	145
	EX35/2BOO	BOOM	45	90
	EX40/2ARM	ARM	50	85
	EX40/2BOO	BOOM	55	90
	EX40/2BUC	BUCKET	45	75
	EX400/5ARM	ARM	130	190
	EX400ARM	ARM	130	190
	EX-400-BH	BUCKET HEAD KIT	115	
	EX400BOO/BUC	BOOM / BUCKET	115	170
	EX-400-DH	DIPPER HEAD KIT	130	
	EX-400-MH	MAIN HEAD KIT	115	
	EX40ARM	ARM	50	85
	EX40BOO	BOOM	50	90
	EX45/1BUC	BUCKET	50	80
	EX45/2ARM	ARM	55	90
	EX45/2BOO	BOOM	60	100
	EX45/2BUC	BUCKET	50	80
	EX450/2BUC	BUCKET	120	170
	EX450ARM	ARM	130	190
	EX450BOO/PK	BOOM	115	170
	EX450BUC	BUCKET	115	170

HITACHI	EX50/UARM	ARM	45	75
	EX50/UTRACK-ADJ			
	EX550/5BUC	BUCKET	130	180
	EX55BUC	BUCKET	50	80
	EX58ADJ	ROTARY JOINT	35	40
	EX58MUARM	ARM	55	90
	EX58MUBOO	BOOM	60	110
	EX58RJ	ROTARY JOINT		
	EX60/1ARM	ARM	60	100
	EX-60/1-BH	BUCKET HEAD KIT	55	
	EX60/1BLADE	BLADE	55	90
	EX60/1BOO	BOOM	65	115
	EX60/1BUC	BUCKET	55	90
	EX60/1R/J/PK			
	EX60/2/3RJ	ROTARY JOINT		
	EX60/2ARM	ARM	60	100
	EX60/2BOO/PK	BOOM	65	115
	EX60/2BUC	BUCKET	55	90
	EX-60/2-DH	DIPPER HEAD KIT	60	
	EX60/2-T/ADJ			
	EX60/3ARM	ARM	60	95
	EX60/3BOO	BOOM	65	115
	EX60/3BUC/PK	BUCKET	55	85
	EX60/5ARM	ARM	60	95
	EX-60/5BH	BUCKET HEAD KIT	55	
	EX60/5BLADE	BLADE	70	120
	EX60/5BOO	BOOM	65	115
	EX60/5BUC	BUCKET	55	85
	EX-60/5DH	DIPPER HEAD KIT	60	
	EX-60/5MH	MAIN HEAD KIT	65	
	EX60/5R/J			
	EX600/3BOO	BOOM	125	180
	EX600HX/5BUC	BUCKET	140	200
	EX60ADJ	TRACK ADJUSTER		45
	EX60WDARM	ARM	65	115
	EX60WDBOO	BOOM	60	100
	EX700/1ADJ	TRACK ADJUSTER		120
	EX700/1ARM	ARM	150	215
	EX700/1BUC	BUCKET	95	145
	EX700/1HBOO	BOOM	140	200
	EX75/1URLIFT	LIFT	70	115
	EX75UARM	ARM	65	105
	EX75UR-C/JOINT			
	EX800/3BUC	BUCKET	140	190
	EX90/1ADJ	TRACK ADJUSTER		45
	EX90ARM	ARM	70	105

HITACHI	EX90BOO	BOOM	65	95
	EX90BUC	BUCKET	60	95
	FX200/5EARM	ARM	95	130
	LX-100-AH	ARM HEAD	63	
	LX100STEER	STEER	40	70
	LX110/7ALIFT	LIFT	65	120
	LX120BUC	BUCKET	80	160
	LX150/1LIFT	LIFT	80	160
	LX150/1STEER	STEERING	45	90
	LX150/2BUC	BUCKET	80	180
	LX150/2LIF	LIFT	80	160
	LX200BOO	BOOM	95	170
	LX70/5BUC	BUCKET	55	110
	LX70BUC	BUCKET	60	110
	LX70STE	STEERING	45	90
	LX80/5BOO	BOOM	60	110
	UH031ARM	ARM	60	110
	UH031BUC	BUCKET	55	90
	UH033BOO	BOOM	65	115
	UH033BUC	BUCKET	55	100
	UH04/07/08ADJ	TRACK ADJUSTER	70	
	UH043ARM	ARM	75	110
	UH045/7ARM	ARM	80	120
	UH045/7BOO/PK	BOOM	75	110
	UH045/7BUC	BUCKET	65	100
	UH050ARM	ARM	50	80
	UH053ARM	ARM	75	110
	UH053BOO	BOOM	70	100
	UH053BUC	BUCKET	65	100
	UH063ARM	ARM	90	120
	UH063BOO	BOOM	75	110
	UH063BUC	BUCKET	65	100
	UH07/3ADJ	TRACK ADJUSTER	70	
	UH07/3ARM	ARM	85	125
	UH07/3BOO	BOOM	85	125
	UH07/3BUC	BUCKET	70	125
	UH07/5ARM	ARM	90	130
	UH07/5BOO	BOOM	85	125
	UH07/5BUC	BUCKET	75	125
	UH07/7ARM	ARM	100	140
	UH07/7BOO	BOOM	90	130
	UH07/7BUC	BUCKET	80	125
	UH07/7R/J	ROTARY JOINT		
	UH073ARM	ARM	85	125
	UH073BOO	BOOM	80	120
	UH081ARM	ARM	90	130

HITACHI	UH083(NEW)BOO	BOOM	90	130
	UH083(NEW)BUC	BUCKET	80	125
	UH083(NW)ARM/PK	ARM	100	140
	UH083(NZ)ARM/1	ARM	100	140
	UH083(NZ)BOO/1	BOOM	85	125
	UH083(NZ)BOO/2	BOOM	85	130
	UH083(NZ)BOO/3	BOOM	85	125
	UH083(NZ)BUC/1	BUCKET	80	120
	UH083(NZ)BUC/2	BUCKET	80	125
	UH083(NZ)BUC/3	BUCKET	80	120
	UH083/UH07ARM	ARM	100	140
	UH083ADJ	TRACK ADJUSTER		70
	UH121ARM	ARM	105	150
	UH121B/B	BOOM/BUCKET	95	150
	UH123ARM	ARM	95	150
	UH143BOO	BOOM	100	150
	UH143BUC	BUCKET	100	150
	WD60BUC	BUCKET	65	115
	ZW310LIFT	LIFT	95	145
	ZW310STEER	STEERING	45	70
	ZX050UBUC	BUCKET	45	75
	ZX100/3	THUMB	2.5	4
	ZX110ADJ			
	ZX110MARM	ARM	75	105
	ZX110MBOO	BOOM	70	95
	ZX110MBUC	BUCKET	65	95
	ZX120ARM	ARM	80	115
	ZX120BOO	BOOM	70	105
	ZX120BUC	BUCKET	70	100
	ZX130KARM	ARM	80	115
	ZX130KLIFT	LIFT	70	105
	ZX135US/BUC	BUCKET	70	100
	ZX160ARM	ARM	90	120
	ZX160BUC	BUCKET	75	105
	ZX160LCBOO	BOOM	80	110
	ZX200/3BOO/LIFT	BOOM	85	120
	ZX200/3LIFT		85	
	ZX200ADJ			
	ZX200ARM/BRIMEX	ARM	95	135
	ZX200ARM/PK	ARM	95	135
	ZX200BOO	boom	85	120
	ZX200BOO/BRIMEX	BOOM	85	120
	ZX200BUC	BUCKET	80	115
	ZX200BUC/BRIMEX	BUCKET	80	115
	ZX200LIFT-SPGBU	LIFT	85	120
	ZX200LIFT-SPGT	LIFT	85	120

HITACHI	ZX200R/J			
	ZX210LIFT	LIFT	85	120
	ZX225USR/ARM	ARM	95	135
	ZX225USRARMGTEX			
	ZX225USR-DIPPER	DIPPER	95	135
	ZX225USR-LIFT	LIFT	85	120
	ZX230/1BUC	BUCKET	90	135
	ZX230/1DIPPER	ARM	105	140
	ZX230/1LIFT	BOOM	90	125
	ZX230BUC	BUCKET	90	130
	ZX230DIPPER	DIPPER	105	140
	ZX230LIFT	LIFT	90	125
	ZX270/1R/J	ROTARY JOINT		
	ZX270BOO	BOOM	95	135
	ZX270-LC/ARM	ARM	100	145
	ZX27U/3-R/J			
	ZX330/3-5-ARM	ARM	115	170
	ZX330/3-LIFT	LIFT	100	145
	ZX330BUC	BUCKET	95	145
	ZX330DIPPER	DIPPER	115	170
	ZX330LIFT	LIFT	105	150
	ZX350/3ARM	ARM	115	170
	ZX350/3BOO	BOOM	100	145
	ZX350/3BUC	BUCKET	95	140
	ZX35-ADJ			
	ZX40/2-U-ADJ			
	ZX40/50/UARM	ARM	50	80
	ZX40/UBOO	BOOM	55	90
	ZX40/UBUC	BUCKET	40	70
	ZX400ARM/PK	ARM	130	190
	ZX70LIFT	LIFT	65	115
	PART#	***RAM***	***ROD***	***BORE***
HY-MAC	580CARM/BUC	ARM / BUCKET	3	5.25
	580CBOO	BOOM	2.5	4
	PART#	***RAM***	***ROD***	***BORE***
HYUNDAI	HL25BOO	BOOM	75	140
	HL750/3BOO	BOOM	75	140
	HL770/3STEER	STEERING	50	100
	HL770/7BOO	BOOM	110	180
	R110/7A-ADJ			
	R110/7-ADJ			
	R110LC/7BOO	BOOM	70	95
	R110LC/7BUC	BUCKET	65	95
	R1300LC/3ARM	ARM	80	115
	R1300LC/3BLA	BLADE	70	100
	R1300LC/3BOO	BOOM	75	105

HYUNDAI	R1300LC/3BUC	BUCKET	70	100
	R1300LC/WM.C	M.C.V		
	R1300LCARM	ARM	80	115
	R1300LCBOO	BOOM	75	105
	R1300LCBUC	BUCKET	70	100
	R1300WBLA	BLADE	65	100
	R1300WBUC	BUCKET	65	100
	R140/7A-ADJ			
	R140/7-ADJ			
	R140/7-C/J-PK			
	R140/9-ADJ			
	R140LC/7ARM	ARM	80	115
	R140LC/7BOO	BOOM	75	105
	R140LC/7BUC	BUCKET	70	100
	R145CR/9-ADJ			
	R160LC/7	BOOM	80	115
	R18-D-OC			
	R18-S316-OC			
	R2000LC2C/J	ROTARY CENTRE JOINT		
	R2000LCARM	ARM	95	140
	R2000LCARM1	ARM	95	140
	R2000LCBOO	BOOM	85	125
	R2000LCBOO1	BOOM	85	125
	R2000LCBUC	BUCKET	80	120
	R2000LCBUC1	BUCKET	80	120
	R2000S/M	SLEW MOTOR		
	R210/7-DIPPER	DIPPER	100	140
	R210ARM/PK	ARM	95	140
	R210B00/PK	BOOM	85	125
	R210BUC/PK	BUCKET	80	120
	R210C/J-PK			
	R210T/ADJ/PK			
	R2200LC/3ARM	ARM	95	140
	R2200LC/3BOO	BOOM	85	120
	R2200LC/3BUC	BUCKET	80	115
	R2500LC/3/7BOO	BOOM	95	140
	R2500LC/3/7BUC	BUCKET	90	135
	R2500LC/3ARM	ARM	105	145
	R2500LC/7ARM	ARM	110	150
	R2500LC/7-R/J			
	R250LC/9ARM	DIPPER	105	145
	R2800LCARM	ARM	105	150
	R2800LCARM1	ARM	105	150
	R2800LCBOO	BOOM	95	145
	R2800LCBOO1	BOOM	95	145
	R2800LCBUC	BUCKET	95	145

HYUNDAI	R2800LCBUC1	BUCKET	95	145
	R2900LC/3ARM	ARM	105	150
	R2900LC/3BOO	BOOM	100	140
	R2900LC/3BUC	BUCKET	95	140
	R2900LC/7ARM	ARM	95	140
	R2900LC/7BOO	BOOM	100	140
	R3200LC/3ARM	ARM	110	160
	R3200LC/3BOO	BOOM	100	140
	R3200LC/3BUC	BUCKET	100	140
	R3200LCARM	ARM	110	160
	R3200LCBOO	BOOM	100	140
	R3200LCBUC	BUCKET	100	140
	R3600LC/3ARM	ARM	120	170
	R3600LC/3BOO	BOOM	105	160
	R3600LC/3BUC	BUCKET	105	150
	R360LC/3S/M	SWING MOTOR		
	R4500/1ARM	ARM	125	185
	R4500LC/3ARM	ARM	120	185
	R4500LC/3BOO	BOOM	110	160
	R4500LC/3BUC	BUCKET	110	160
	R4500LC3M.C	M.C.V		
	R4500LCARM	ARM	120	185
	R4500LCBOO	BOOM	110	160
	R4500LCBUC	BUCKET	110	160
	R450ARM	ARM	50	85
	R450BLA	BLADE	50	100
	R450BOO	BOOM	55	95
	R450BUC	BUCKET	50	80
	R450SWI	SWING	50	95
	R520LC/9BOO	BOOM	130	190
	R55/3ARM	ARM	55	90
	R55/3BOO	BOOM	65	110
	R55/3BUC	BUCKET	50	80
	R55/3R/J			
	R55/7BOO	BOOM	65	110
	RC110LC/7ARM	ARM	75	110
	RC140LC/7BOO	BOOM	75	105
	RC140LC/7BUC	BUCKET	70	100
	RC210/7LC-ADJ			
	RC210/7LC-ARM	ARM	100	140
	RC210/7LC-BOO	BOOM	85	120
	RC210/7LC-BUC	BUCKET	85	115
	PART#	***RAM***	***ROD***	***BORE***
HYVA	HYVA/08-36-S	MAIN LIFT	63	125
	HYVA060	HOIST	60	
	HYVA078	HOIST	78	

HYVA	HYVA099	HOIST	99	
	HYVA120	HOIST	120	
	HYVA141	HOIST	141	
	HYVA162	HOIST	162	
	HYVA183	HOIST	183	
	HYVA207	HOIST	207	
	PART#	***RAM***	***ROD***	***BORE***
IHI	IHI-30NXR/J	ROTARY JOINT	60	
	IHI-402/4TARM	ARM	50	90
	IHI-45J/2BOO	BOOM	60	105
	IHI-45J/2SW	BOOM SWING	60	105
	IHI-55J-ARM-BUC	ARM/BUCKET	55	90
	IHI-55J-BOO	BOOM	70	120
	IHI-55J-BUC	BUCKET	50	85
	IHI-55J-C/JOINT			
	PART#	***RAM***	***ROD***	***BORE***
INTERNATIONAL	530BOO	BOOM	2.75	5.5
	530BUC	BUCKET	3.5	6.5
	530STEER	STEERING	1.5	3
	TD15CADJ	TRACK ADJUSTER	2.5	2.5
	TD15CBLADE	BLADE	2.25	4.5
	TD15CCROWD	CROWD	2.25	5.5
	PART#	***RAM***	***ROD***	***BORE***
JOHN DEERE	JD540E-SKID	SKIDDER	45	80
	JD909JLC	LEVELING	4	7
	PART#	***RAM***	***ROD***	***BORE***
KATO	HD510EARM	ARM	80	110
	HD510EB/B	BOOM/BUCKET	70	95
	HD700SE/2B/B	BUCKET	80	125
	HD700SE-SE/2ARM	ARM	90	130
	PART#	***RAM***	***ROD***	***BORE***
KAWASAKI	70ZV/STEER	STEERING	45	80
	CT/60500	LIFT		150
	CT/60520	TILT		180
	CT/70240	STEERING		80
	CT/71440	TILT	90	
	CT/72560			
	CT/90300	LIFT	75	
	K3V140DTPUMP	PUMP		
	K3VREGULATOR	REGULATOR KIT		
	KFL/WL22	TILT	120	225
	ZZ50SBUC	BUCKET	50	100
	PART#	***RAM***	***ROD***	***BORE***
KOBELCO	904CARM	ARM	75	120
	K907/2ARM	ARM	90	130

KOBELCO	K907/2BOO	BOOM	85	120
	KOBELCOHANDCONT	PILOT HAND CONTROL		
	LX120BOO	BOOM	55	100
	SK014BOO	BOOM	35	60
	SK017BOO	BOOM	30	55
	SK020BUC	BUCKET	35	55
	SK04ARM	ARM	75	115
	SK07/07-2/N2R/J			
	SK07/N2ARM	ARM	100	145
	SK07/N2BOO	BOOM	85	125
	SK07/N2BUC	BUCKET	80	120
	SK100/3ARM	ARM	75	115
	SK100/5BOO	BOOM	65	95
	SK100ARM/PK	ARM	75	120
	SK100WARM	ARM	75	115
	SK115ARM	ARM	75	110
	SK115BUC	BUCKET	65	95
	SK115SRBOO	BOOM	65	95
	SK120/5R/J	ROTARY JOINT	80	
	SK120/5SARM	SUPER ARM	80	115
	SK120/5SBOO/PK	SUPER BOOM	70	100
	SK120ADJ	TRACK ADJUSTER		
	SK120ARM	ARM	80	120
	SK120BOO	BOOM	70	105
	SK120BUC	BUCKET	65	100
	SK135BOO	BOOM	70	100
	SK135SR/1EBOO	BOOM	65	95
	SK135SR/1EBUC	BUCKET	65	95
	SK135SRARM	ARM	80	115
	SK200/200/3ADJ	ADJUST	80	
	SK200/3BOO	BOOM	85	125
	SK200/3BOO/BF	BOOM	85	125
	SK200/3BUC/PK	BUCKET	80	120
	SK200/5ARM	ARM	95	135
	SK200/5BOO	BOOM	80	120
	SK200/5BUC	BUCKET	75	115
	SK200/5R/J	ROTARY JOINT	80	
	SK200/6BUC	BUCKET	80	115
	SK200/8BOO	BOOM	85	120
	SK200ARM	ARM	100	145
	SK200BOO	BOOM	85	125
	SK200BUC	BUCKET	80	120
	SK200SRARM	ARM	90	125
	SK200SRBOO	BOOM	80	115
	SK200SRBUC	BUCKET	75	105
	SK200SRLIFT	LIFT	80	115

KOBELCO	SK20SRARM	ARM	35	65
	SK210/6EARM	ARM	95	135
	SK210/6EBOO	BOOM	85	125
	SK210/6EBUC	BUCKET	80	120
	SK210LC/8BOOM	BOOM	85	120
	SK220/1ARM	ARM	105	150
	SK220/1BOO	BOOM	90	140
	SK220/1BUC	BUCKET	85	130
	SK220/3ARM	ARM	105	150
	SK220/3BUC	BUCKET	85	130
	SK220/5ARM	ARM	100	140
	SK220/5BOO	BOOM	90	135
	SK220/5BUC	BUCKET	85	130
	SK230/6ARM	ARM	100	140
	SK235SRARM	ARM	95	135
	SK235SRBOO	BOOM	85	125
	SK250/260/8BU	BUCKET	85	125
	SK250/6/6EARM	ARM	85	125
	SK250/6/6EBOO	BOOM	90	135
	SK250/6BUC	BUCKET	85	120
	SK250/6EBUC	BUCKET	90	120
	SK300ARM	ARM	110	160
	SK300BOO	BOOM	95	150
	SK300BUC	BUCKET	100	150
	SK30SRBOO	BOOM	45	80
	SK30URARM	ARM	45	75
	SK330/6ARM	ARM	120	170
	SK330/6EBUC	BUCKET	100	150
	SK330ARM	ARM	120	170
	SK330LCARM	ARM CYL KIT	105	150
	SK330LCBOO	BOOM CYL KIT	100	140
	SK330LCBUC	BUCKET CYL KIT	100	150
	SK35/SR/5ARM/PK	ARM	45	80
	SK35/SR/5BOO/PK	BOOM	45	80
	SK35/SR/5BUC/PK	BUCKET	40	65
	SK35UR/BUC/PK	BUCKET	40	70
	SK40ARM	ARM	50	80
	SK40URBUC	BUCKET	40	75
	SK42ADJ	TRACK ADJUSTER	50	
	SK45SRARM	ARM	50	90
	SK45SRBOO	BOOM	55	100
	SK480/6ARM	ARM	130	190
	SK480BOO	BOOM	115	170
	SK50SR/3BUC	BUCKET	45	75
	SK60/3ARM	ARM	60	100
	SK60/3BOO	BOOM	70	125

KOBELCO	SK60/5ARM	ARM	60	100
	SK60/5BUC	BUCKET	55	85
	SK60/5R/J	ROTARY JOINT		
	SK60ADJ	TRACK ADJUSTER		
	SK60BUC	BUCKET	65	110
	SK60R/J	ROTARY JOINT		
	SK60SRARM	ARM	65	95
	SK70SRARM	ARM	65	95
	SK75URARM	ARM	55	110
	SK75URO/S	OFFSET	70	110
	SK80MSRBUC	BUCKET	55	80
	SK95URR/J	ROTARY JOINT		
	SR025ARM	ARM	30	55
	PART#	***RAM***	***ROD***	***BORE***
KOMATSU	20HT/2/3BOO	BOOM	90	130
	20HT/3ARM	ARM	100	140
	20HT/3BUC	BUCKET	80	130
	20TH/2ARM	ARM	90	140
	3EB.64.05020	STEERING	25	50
	470/5HBOO	BOOM	95	180
	470/5HBUC	BUCKET	100	200
	470/6BUC	BUCKET	100	160
	CBCMG/001		32	63
	CBCMG/002		32	63
	CBCMG/003		45	
	D/85LIFT	LIFT	90	200
	D155A/2RIP	RIPPER/TILT	90	225
	D155-AX/6	BLADE	75	110
	D155BLADE/PK	BLADE TILT	90	225
	D155L/B	LIFT / BOOM	75	140
	D155RIP	RIPPER	90	225
	D21A/3ADJ			
	D31/21ADJ/PK	TRACK ADJUSTER		
	D375/1ALIFT	LIFT	90	150
	D375/1-RIPLIFT	RIPPER/LIFT	110	225
	D375/1-RIPTILT	RIPPER/TILT	110	200
	D37E/5BLADE	BLADE/TILT	40	90
	D37P/2ADJ	TRACK ADJUSTER		50
	D37P/3-BLADE	BLADE/LIFT	40	70
	D41/43/45ADJ	TRACK ADJUSTER	60	60
	D41P/5BLADE	BLADE	50	90
	D41P/5BLADE/1			
	D41P/5LIFT			
	D41P/5TILT	TILT RAM	60	110
	D475BLADE	BLADE TILT	140	250
	D475RIP	RIPPER TILT	120	250

KOMATSU	D475RIPLIFT	RIPPER LIFT	120	250
	D50P/17LIF/PK	LIFT CYL	55	90
	D50P/17TIL/PK	TILT CYL	70	160
	D53PADJ	ADJUST		
	D60E/8LIF	LIFT CYL	65	110
	D65/A8ADJ	TRACK ADJUSTER	70	
	D65/E8BOO	BOOM	65	110
	D65/E8RIP	RIPPER	75	160
	D65EX/12/15BLAD	BLADE	65	90
	D65PBLADE	BLADE LIFT	65	110
	D65PTILT	TILT	70	160
	D75/2BOO	BOOM	75	160
	D75/2BUC/PK	BUCKET	60	140
	D75/3BOO	BOOM	90	180
	D75/3BUC	BUCKET	70	150
	D85E/21-RIPPER	RIPPER	70	140
	D85EX/15LIFT	BLADE LIFT	65	100
	FD25T-STEER	STEERING	50	75
	FG25/8-STEERING	ST/RAM	25	50
	GD655/3-BLADE	BLADE	50	80
	GD655/3-DRAWBAR	DRAWBAR	45	80
	HD205/3STEER	STEERING	40	60
	HD255/5FSUS	SUSPENSION	140	
	HD255/5RSUS	SUSPENSION REAR	140	
	HD255R/BRAKE	REAR BRAKE		
	HD255STEER	STEERING	40	60
	HD785/5STEER	STEER (DUMP TRUCK)	70	110
	LW250STEER	STEERING	50	80
	PC100/1/2ARM	ARM	70	120
	PC100/1/2B/B	BOOM BUCKET	65	110
	PC100/3ARM	ARM	75	110
	PC100/3BOO	BOOM	65	100
	PC100/3BUC	BUCKET	65	100
	PC100/5ARM	ARM	75	115
	PC100/5BOO	BOOM	65	95
	PC100/5BUC/PK	BUCKET	65	90
	PC100/6ADJ	TRACK ADJUSTER		60
	PC100/6BUC	BUCKET	60	90
	PC1000ARM	ARM	170	250
	PC1000BUC	BUCKET	160	225
	PC120/1/2ARM	ARM	80	130
	PC120/1/2B/B	BOOM BUCKET	70	120
	PC120/1/3/5R/J	ROTARY JOINT		
	PC120/1/3/5R/J2	ROTARY JOINT		
	PC120/3ARM	ARM	75	110
	PC120/3BOO	BOOM	70	110

KOMATSU	PC120/3BUC	BUCKET	65	100
	PC120/5ADJ	TRACK ADJUSTER	70	70
	PC120/5ARM	ARM	75	115
	PC120/5BOO	BOOM	70	105
	PC120/6ADJ	TRACK ADJUSTER		
	PC120/6ARM/PK	ARM	75	115
	PC120/6BOO	BOOM	70	105
	PC120/6BUC	BUCKET	65	95
	PC1250BUC	BUCKET CYL KIT	110	160
	PC138ARM	ARM	75	115
	PC150/1/5ARM	ARM	85	120
	PC150/1/5BOO	BOOM	75	110
	PC150/1/5BUC	BUCKET	70	100
	PC150/3ARM	ARM	80	120
	PC150/3BOO	BOOM	75	110
	PC150/3BUC	BUCKET	75	110
	PC15BOO	BOOM	35	60
	PC20/6BOO	BOOM	45	80
	PC20/7ARM	ARM	40	70
	PC200/1ARM/PK	ARM	100	150
	PC200/1BOO/PK	BOOM	90	130
	PC200/1BUC/PK	BUCKET	80	130
	PC200/2ARM	ARM	90	140
	PC200/2BOO	BOOM	90	130
	PC200/2BUC	BUCKET	75	120
	PC200/3(N)ARM/P	ARM	95	130
	PC200/3(NEW)BUC	BUCKET	75	110
	PC200/3(NW)BOOP	boom	85	120
	PC200/3(OD)BOOP	BOOM	85	120
	PC200/3(OLD)ARM	ARM	95	130
	PC200/3(OLD)BUC	bucket	75	110
	PC200/5/6ARM	ARM	95	135
	PC200/5/6BOO/PK	BOOM	85	120
	PC200/5/6BUC	BUCKET	80	115
	PC200/5BUC/PK	BUCKET	80	115
	PC200/6BOO1/PK	BOOM	90	130
	PC200/6R/J	ROTARY JOINT		
	PC200/6ZEARM	ARM	95	135
	PC200ADJ			
	PC200ADJ/BF	TRACK ADJUSTER	70	70
	PC20BOO	BOOM	45	75
	PC220/1ARM	ARM	110	160
	PC220/1BOO	BOOM	90	140
	PC220/1BUC	BUCKET	90	140
	PC220/3(NEW)ARM	ARM	95	140
	PC220/3(NEW)BOO	BOOM	90	130

KOMATSU	PC220/3(NEW)BUC	BUCKET	90	130
	PC220/3(OD)BOOP	BOOM	90	130
	PC220/3(OLD)ARM	ARM	95	140
	PC220/3(OLD)BUC	BUCKET	90	130
	PC220/5/6ARM/PK	ARM	100	140
	PC220/5/6BOO	BOOM	90	130
	PC220/5/6BUC	BUCKET	90	130
	PC220/5ADJ	TRACK ADJUSTER		
	PC220/6R/J	ROTARY JOINT		
	PC220LC/2ARM	ARM	100	150
	PC220LC/2BOO	BOOM	90	140
	PC220LC/2BUC	BUCKET	90	140
	PC260LC/6LIFT	LIFT	100	140
	PC28UUBOO	BOOM	45	80
	PC30/7BOO	BOOM	45	80
	PC30/7BUC	BUCKET	40	70
	PC300/1/2ARM/PK	ARM	110	160
	PC300/1/2BOO	BOOM	100	150
	PC300/1/2BUC	BUCKET	90	140
	PC300/1R/J	ROTARY JOINT		
	PC300/3ARM	ARM	110	160
	PC300/3BOO/PK	BOOM	100	140
	PC300/3BUC	BUCKET	100	140
	PC300/3R/J/PK	ROTARY JOINT		
	PC300/5ARM	ARM	110	160
	PC300/5BOO	BOOM	100	140
	PC300/5BUC	BUCKET	100	140
	PC300/5-RJ			
	PC300/6ARM	ARM	110	160
	PC300/6BOO/PK	BOOM	100	140
	PC300/6BUC	BUCKET	100	140
	PC30MR/1ARM	ARM	40	75
	PC30MR/1BOO	BOOM	45	75
	PC30MR/1BUC	BUCKET	40	65
	PC30UU/3BOO	BOOM	45	75
	PC350/6BOO/PK	BOOM	100	140
	PC350LC/6ARM	ARM	110	160
	PC350LC/6BUC	BUCKET	110	160
	PC350LC/6R/J	ROTARY JOINT		
	PC35ARM	ARM	40	75
	PC35BOO	BOOM	45	75
	PC35BUC	BUCKET	40	65
	PC40/3BOO	BOOM	55	100
	PC40/3BUC	BUCKET	55	80
	PC40/6BOO	BOOM	55	90
	PC40/7ADJ	TRACK ADJUSTER		

KOMATSU	PC40/7ARM	ARM	50	80
	PC40/7BOO	BOOM	55	90
	PC40/7BUC	BUCKET	45	75
	PC40/8ADJ	TRACK ADJUSTER	40	47
	PC400/1ARM	ARM	140	200
	PC400/1BOO	BOOM	110	180
	PC400/1BUC	BUCKET	110	150
	PC400/1R/J	ROTARY JOINT		
	PC400/3(NEW)ARM	ARM	120	180
	PC400/3(NEW)BOO	BOOM	110	160
	PC400/3(NEW)BUC	BUCKET	95	130
	PC400/3(OLD)ARM	ARM	120	180
	PC400/5/6ARM	ARM	120	185
	PC400/5/6BOO	BOOM	110	160
	PC400/5/6BUC	BUCKET	110	160
	PC40BOO	BOOM	55	100
	PC450/6BOO	BOOM	110	160
	PC450/6BUC	BUCKET	110	160
	PC450/6BUC(AUS)	BUCKET	110	160
	PC450/6STICK	STICK	130	185
	PC450/7ARM	ARM	120	185
	PC45ARM	ARM	50	85
	PC45BOO	BOOM	50	100
	PC50UUBOO	BOOM	55	100
	PC58UU/3ARM	ARM	55	90
	PC60/1BOO	BOOM	65	110
	PC60/3/5/6ADJ			
	PC60/3/5ARM	ARM	60	90
	PC60/3/5BOO	BOOM	65	100
	PC60/3/5BUC	BUCKET	55	90
	PC60/3BUC(NEW)	BUCKET	60	100
	PC60/6ARM/PK	ARM	60	90
	PC60/6BOO/PK	BOOM	65	100
	PC60/6BUC/PK	BUCKET	55	90
	PC60/7ADJ	TRACK ADJUSTER		
	PC60/7ARM	ARM	60	100
	PC60/7BOO	BOOM	65	115
	PC60/7BUC/PK	BUCKET	55	90
	PC60/7R/JBL			
	PC60U/2ARM	ARM	65	110
	PC650/1FSBOO	BOOM	120	200
	PC650/3ARM	ARM BOOM	140	200
	PC650/3BUC	BUCKET	130	180
	PC650ADJ	TRACK ADJUSTER		
	PC710ARM	ARM	140	200
	PC75UU/1ARM	ARM	60	100

KOMATSU	PC75UU/2ADJ	TRACK ADJUSTER		50
	PC75UUARM	ARM	65	110
	PC75UUBOO	BOOM	70	120
	PC80/1ARM	ARM	65	110
	PC80/1BOO	BOOM	65	120
	PC80/1BUC	BUCKET	55	90
	PC80/3ARM	ARM	65	100
	PC80/3BOO	BOOM	70	110
	PC80/3BUC	BUCKET	55	90
	PC800/6SEARM	BUCKET	120	185
	PC800/6SEBUC	BUCKET	160	225
	PC90/1ARM	ARM	65	105
	PC90/1BOO	BOOM	70	110
	PC90/1BUC	BUCKET	55	90
	PW100ARM	ARM	75	110
	PW170/E6/6K		85	120
	PW170ARM	ARM	85	120
	PW170BUC	BUCKET	75	110
	PW170LIFT	LIFT	85	120
	PW60/3ARM	ARM	60	90
	PW60/3BUC	BUCKET	55	90
	PW60/3R/J	ROTARY JOINT	100	
	PW60/PC60/2ARM	ARM	65	110
	PW60/PC60/2LIFP	LIFT	65	100
	PW60ARM	ARM	60	90
	PW60BOS	BOOM O/S	55	100
	WA100/3STEER	STEER	40	60
	WA250/1LIFT	LIFT	70	130
	WA300/1BOO	BOOM	80	140
	WA30BOO/PK	BOOM	40	65
	WA320/1LIF	LIFT	75	140
	WA320/3BOO	BOOM	75	140
	WA320/3BUC	BUCKET	80	160
	WA320/3STEER	STEERING	40	70
	WA350/1STEER	STEERING	45	80
	WA350/3EBUC	LIFT	90	160
	WA350/3ESTEER	STEERING	45	80
	WA350LIF	LIFT	90	150
	WA350STEER	STEERING	45	80
	WA350TIL	TILT	90	180
	WA380/3BOO	BOOM	90	160
	WA380/3STEER	STEERING	45	80
	WA380BUC	BUCKET	90	180
	WA40/3EBOO	BOOM	40	70
	WA400STEER	STEERING	45	90
	WA420/1/3LIF/PK	LIFT	90	160

KOMATSU	WA420/1/3TIL/PK	TILT	100	200
	WA420/1-STEER	STEERING	45	90
	WA450/3EBOO	BOOM	95	180
	WA450BUC	BUCKET	100	200
	WA450CB	CONTROL BANK		
	WA450STEER	STEERING	50	
	WA470/3BOO	BOOM	95	180
	WA470/3STEER	STEERING	50	100
	WA470/5BOO	BOOM	95	180
	WA470/5BUC	BUCKET	100	200
	WA470/5HARM	ARM	95	180
	WA470/5H-STEER	STEERING	50	100
	WA470/5-STEER	STEERING	50	100
	WA470BOO	BOOM	95	180
	WA500/1/3BOO	BOOM	110	200
	WA500/1/3BUC	BUCKET	120	225
	WA500/1/3STEER	STEERING	55	110
	WA600/1BOO	BOOM	120	225
	WA600/1BUC	BUCKET	140	280
	WA600/1STEER	STEER	70	130
	WA700/1STEER	STEER	85	130
	WA903STEER	STEERING	50	100
	WF450TSTEER	STEER	50	100
	PART#	***RAM***	***ROD***	***BORE***
KUBOTA	KH024ARM	ARM	40	70
	KH024BUC	BUCKET	45	75
	KX091/2BUC	BUCKET	40	70
	KX121BOO	BOOM	50	95
	KX151BOO	BOOM	55	100
	KX161/2ARM	ARM	55	95
	KX161/2BOO	BOOM	60	110
	KX161/2BUC	BUCKET	45	75
	KX161/2DOZER	DOZER	60	110
	KX161/2SWING	SWING	50	100
	U45ARM	ARM	45	80
	PART#	***RAM***	***ROD***	***BORE***
LIEBHERR	984ARM	ARM	125	180
	L580STEER	STEERING	40	90
	PART#	***RAM***	***ROD***	***BORE***
MITSUBUSHI	MS070BUC	BUCKET	70	100
	MS090BUC	BUCKET	65	100
	MS120/2BOO	BOOM	75	110
	MS140/1ARM	ARM	80	120
	MS140/1BOO	BOOM	75	110
	MS140/1BUC	BUCKET	70	110
	MS180/2/3ARM	ARM	90	140

MITSUBUSHI	MS180/2/3BOO	BOOM	85	125
	MS180/2/3BUC	BUCKET	75	120
	MS180/8ADJ	TRACK ADJUSTER		
	MS180/8ARM	ARM	100	140
	MS180/8BOO	BOOM	85	125
	MS180/8BUC	BUCKET	85	125
	MS185B/B	BOOM BUCKET	85	125
	MS300/8ARM	ARM	110	160
	MS300/8B/B	BUCKET	100	150
	WN/FD40	TILT	45	90
	PART#	***RAM***	***ROD***	***BORE***
PALFINGER	PK6700		32	55
	PK9001-2ND-BOOM	BOOM	90	125
	TD002/PK	3.25	90	140
	TD003/PK		70	90
	TD005/PK	3.25		55
	TD008/TD025/PK		90	165
	TD009/PK		55	80
	TD011/PK		40	70
	TD012/PK		90	170
	TD013/PK		90	160
	TD014/PK		25	40
	TD015/PK		90	110
	TD022/PK			
	TD028/PK		25	40
	TD029/PK		70	110
	TD030/PK		55	70
	TD031/PK		90	125
	TD035/PK		25	45
	TD036/PK		70	110
	TD046/PK		55	125
	TD055/PK			
	TD058/PK		60	90
	TD086/PK		70	110
	TD090/PK		90	150
	TD092/PK		90	150
	TD094/PK		70	90
	TD095/PK		90	125
	TD096/PK		40	60
	TD110/PK		70	150
	TD116/PK		70	
	TD117/PK		25	40
	TD126/PK		90	140
	TD132/PK		32	45
	TD133/PK		32	45
	TD134/PK		70	110

PALFINGER	TD139/PK		40	60
	TD141/PK		25	40
	TD142/PK		90	150
	TD163/PK		60	90
	TD236		25	40
	TD540		55	70
	PART#	***RAM***	***ROD***	***BORE***
SAMSUNG	130LCARM/PK	ARM	80	120
	130LCBOO	BOOM	70	110
	SE130/1/2BUC	BUCKET	70	100
	SE130LC/1ARM	ARM	80	120
	SE130LCBOO	BOOM	70	110
	SE130W/2ARM	ARM	80	120
	SE130WB/B/PK	BOOM BUCKET	70	100
	SE210LCBUC	BUCKET	80	120
	SL180/2LIFT	LIFT CYL KIT	90	150
	PART#	***RAM***	***ROD***	***BORE***
SNORKEL	HS935/PK	UPPER BOOM	1.75"	4"
	HS936/PK	LOWER BOOM	1.75"	4.5"
	HS937/PK	LEG/FLY BOOM	1.25"	2"
	SNORKEL12516			
	PART#	***RAM***	***ROD***	***BORE***
STEELBRO	HC/27087TILT	STABILISER TILT	4	6
	HC/27089		2.5	4
	HC/27100TOPLIFT	TOP LIFT	4	6
	HC/27101B/LIFT			
	HC/28940		3	6
	HC/28943		4	6
	HC/29003TOPLIFT	TIO LIFT	3.5	6
	HC/29005TILT	STABILISER TILT	2.5	4
	HC/29006B/LIFT	BOTTOM LIFT	3	6
	HC/30047	STAB LUFFING	4	6
	HC/30048	TOP LIFT	4	6
	HC/30049	SIDE LIFT	3.5	7
	HC-37823			
	PART#	***RAM***	***ROD***	***BORE***
sumitomo	LS2650BOO	BOOM	70	110
	LS2800FJARM/PK	ARM	95	140
	LS2800FJBOO/PK	BOOM	85	125
	LS2800FJBUC/PK	BUCKET	75	120
	LS4300FJ2ARM/PK	ARM	110	160
	LS4300FJ2BOO/PK	BOOM	100	150
	LS4300FJ2BUC/PK	BUCKET	95	140
	LZ00367BUC	BUCKET	65	95
	SH120/3ADJ			

sumitomo	SH120/3ARM	ARM	65	95
	SH120/3BOO	BOOM	70	105
	SH120/3BUC	BUCKET	65	95
	SH120ARM/PK	ARM	80	110
	SH120BOO/PK	BOOM	75	100
	SH120BUC/PK	BUCKET	70	95
	SH120R/J	R/J		
	SH200/3ARM	ARM	80	115
	SH200/3-BOOM	BOOM	95	135
	SH200/3BUC	BUCKET	80	115
	SH200ADJ/PK	ADJUST		
	SH200ARM/PK	ARM	100	135
	SH200BOO/PK	BOOM	85	125
	SH200BUC/PK	BUCKET	80	120
	SH200LC/3			
	SH220/3ARM	ARM	105	145
	SH220/3BOO	BOOM	90	125
	SH220/3BUC	BUCKET	90	130
	SH220ARM/PK	ARM	105	145
	SH220BOO	BOOM	90	130
	SH240.3ADJ			
	SH240/5BOO	BOOM	90	130
	SH315ARM	ARM	75	105
	SH350HD/3ARM/PK			
	SH350HD/3BOO	BOOM	100	145
	SH350HD/3BUC/PK	BUCKET	105	150
	SH60ARM	ARM	60	95
	SH60BOO	BOOM	65	100
	SH60BUC	BUCKET	55	85
	PART#	***RAM***	***ROD***	***BORE***
TAKEUCHI	514A2/42631/A	ORBITROL TOP	25.4	32.1
	TAKEUCHI-TB015			
	TB015A/B/B(NW)P	ARM/BUC/BOOM	30	55
	TB015A/B/B(OLD)	ARM BOOM BUCKET	30	50
	TB016ARM	ARM	30	55
	TB016BOO	BOOM	30	55
	TB016BUC	BUCKET	30	50
	TB035ADJ/PK			
	TB135ARM/BOO	ARM/BOOM	45	80
	TB35ARM	ARM	45	80
	TB35BLADE	BLADE	40	70
	TB35BOO	BOOM	40	70
	TB35BUC	BUCKET	40	70
	TB45BOO	BOOM	40	70
	TB50ARM	ARM	40	75
	TB50BOOM	BOOM	45	80

	PART#	RAM	ROD	BORE
TOYOTA	TOY/30MMLIFT	SKID STEER LIFT KIT	30	60
	TOY/75G30-STG3	LIFT	60	85
	TOY4SDKLIFT			

	PART#	RAM	ROD	BORE
VOLVO	130LCBUC	BUCKET	70	100
	EC240LC-ARM/PK	ARM	100	140
	EC290B/ANGLE	ANGLE CYL KIT	2"	3.5"
	EC290LOCK/BF	LOCK		
	EC55BOO	BOOM	60	105
	EC55BUC/PK	BUCKET	50	80
	EC700CLBOOM	BOOM	125	190
	KFL/150F/LIFT	LIFT	90	160
	KFL/180F/STEER	STEERING	50	100
	L120FSTEER			
	L150FSTEER	STEERING	50	90
	L180GSTEER	STEERING	60	100
	L70BBOO	BOOM	70	100
	L70C&BSTEER		40	63
	L90BHT			
	L90B-TILT	TILT	60	110
	L90CSTEER	STEERING	40	70
	MX10LC/2ARM	ARM	105	150
	MX10LC/2B/B	BOOM	95	140
	MX132LCARM/PK	ARM	80	120
	MX132LCBOO/PK	BOOM	70	110
	MX132LCBUC/PK	BUCKET	70	100
	MX132WARM/PK	ARM	80	120
	MX132WBOO/PK	BOOM	70	100
	MX132WBUC/PK	BUCKET	70	100
	MX14/2ARM	ARM	115	170
	MX14/2BOO	BOOM	105	160
	MX14/2BUC	BUCKET	105	150
	MX452LCARM	ARM	130	190
	MX452LCBOO	BOOM	110	165
	MX452LCBUC	BUCKET	110	165
	MX8W/2ARM	ARM	95	135
	MX8W/2B/B	BOOM	80	120
	SE210/2ARM/PK	ARM	95	135
	SE210/2B/B/PK	B/BKT	80	120
	SE210LARM/PK	ARM	95	135
	SE210LBOO/PK	BOOM	80	120
	SE210LBUC/PK	BUCKET	80	120
	SE280/2ARM/PK	ARM	105	150
	SE280/2B/B/PK	B/BKT	95	140
	SE280ARM	ARM	105	150

VOLVO	SE280BOO	BOOM	95	140
	SE280BUC/PK	BUCKET	95	140
	SE350LARM/PK	ARM	115	170
	SE350LBOO/PK	BOOM	105	160
	SE350LBUC/PK	BUCKET	105	150
	SE350LC/2ARM/PK	ARM	115	170
	SE350LC/2BOO/PK	BOOM	105	160
	SE350LC/2BUC/PK	BUCKET	105	150
	SE40WARM/PK	ARM	60	90
	SE40WBLA/PK	BLADE	45	70
	SE40WBOO/PK	BOOM	65	100
	SE40WBUC/PK	BUCKET	55	90
	SE40WSTE/PK	STEERING	25	50
	SE450LC/2ARM/PK	ARM	130	190
	SE450LC/2BOO/PK	BOOM	110	165
	SE450LC/2BUC/PK	BUCKET	110	165
	WL17-STEER	STEERING	50	90
	PART#	***RAM***	***ROD***	***BORE***
YANMAR	D140BUC	BUCKET	35	60
	VI015BUC	BUCKET	30	55
	VI020ADJ	TRACK ADJUSTER	30	36.7
	VI020ARM	ARM	35	65
	VI020BOO/PK	BOOM	40	70
	VI020BUC/PK	BUCKET	30	55
	VI030BOO/PK	BOOM	40	80
	VI030BUC/PK	BUCKET	40	65
	VI035BOO/PK	BOOM	45	85
	VI040/1ARM/PK	ARM	45	75
	VI040/1BUC/PK	BUCKET	40	70
	VI040/2ARM	ARM	45	80
	VI040/2BLADE	BLADE	50	90
	VI040/2LIFT	LIFT	50	95
	VI05.5ADJ	TRACK ADJUSTER	40	45
	VI050ARM	ARM	50	85
	VI050BOO/PK	BOOM	45	75
	VI050BUC/PK	BUCKET	50	75
	VI070ARM/PK	ARM	60	100
	VI070BOO	BOOM	65	115
	Y40ARM	ARM	55	85
	YANMAR5TONNR/JP			

EDBRO

ARC FABRIC CUP



PART #	OD	HOLE	HEIGHT
FB137ARC 2	1.375	0.625	0.437
FB200ARC 4	2	0.625	0.81
FB262ARC 5	2.625	0.875	0.81
FB325ARC 7	3.25	1	0.81
FB387ARC 13	3.875	1.125	0.81
FB475ARC 15	4.75	1.25	0.81
FB575ARC 23/1	5.75	1.5	0.81
FB700ARC 23/15	7	2.75	1
FB825ARC 23/16	8.25	2.75	1

SAS CYLINDER





	SIL PART #	EDBRO #	SIZE
SEAL	SA300375562RW	SAS300	3” X 3-3/4”
WIPER	FWI300/2D	EWS300	
SEAL	SA362437562RW	SAS362	3-5/8” X 4-3/8”
WIPER	FWI362/1D	EWS362	
SEAL	SA437512562RW	SAS437	4-3/8” X 5-1/8”
WIPER	FWI437/1D	EWS437	
SEAL	SA525600562RW	SAS525	5-1/4” X 6”
WIPER	FWI525/1D	EWS525	
SEAL	SA631706562RW	SAS631	6-5/16’ X 7-1/16”
WIPER	FWI631D	EWS631	
SEAL	SA731806562RW	SAS731	7-5/16” X 8-1/16”
WIPER	FWI731D	EWS731	
SEAL	SA837937687RW	SAS837	8-3/8 X 9-3/8”
WIPER	FWI837D	EWS837	

EDBRO

SAL CYLINDER





	SIL PART #	EDBRO #	SIZE
SEAL	SA275320687FE	SAL275	2-3/4' x 3.200"
WIPER	FWI275/1D	EWS275	
SEAL	SA350401719FE	SAL350	3-1/2" x 4.013"
WIPER	FWI350/1D	EWS350	
SEAL	SA437488750FE	SAL437	4-3/8" X 4.888"
WIPER	FWI437/1D	EWS437	
SEAL	SA525588719FE	SAL525	5-1/4" X 5.888"
WIPER	FWI525/1D	EWS525	
SEAL	SA631688719FE	SAL631	6-5/16' X 6.888"
WIPER	FWI631D	EWS631	
SEAL	SA731795750FE	SAL731	7-5/16" X 7.954"
WIPER	FWI731D	EWS731	
SEAL	SA837900687FE	SAL837	8-3/8 X 9"
WIPER	FWI837D	EWS837	

EDBRO

CS / CX CYLINDERS





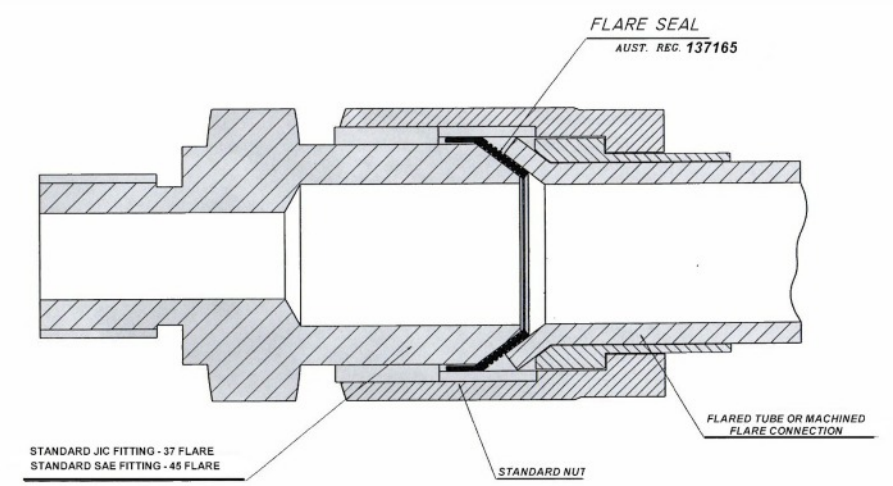
	SIL PART #	QTY	EDBRO #	SIZE
SEAL	SM07908912FE	1	SAM79/1	**79 X 89**
WIPER	FWM079DH	1	EWM79	
BEARING RING	BRM08423.52.5P	2	BRH079/03	
SEAL	SM09810812FE	1	SAM98/1	**98 X 108**
WIPER	FWM098/1DH	1	EWM98	
BEARING RING	BRM10323.42.5	2	BRH098/03	
SEAL	SM11712713.5FE	1	SAM117/01	**117 X 127**
WIPER	FWM117DH	1	EWM117	
BEARING RING	BRM12223.42.5	2	BRH117/03	
SEAL	SM13614613.5FE	1	SAM136/01	**136 X 146**
WIPER	FWM136DH	1	EWM136	
BEARING	BRM14123.42.5	2	BRH136/03	
SEAL	SM15516513FE	1	SAM155/01	**155 X 165**
WIPER	FWM155/1DH	1	EWM155	
BEARING RING	BRM16023.42.5	2	BRH155/03	
SEAL	SM17618816	1	SAM176/1	**176 X 188**
WIPER	FWM176DH	1	EWM176	
BEARING RING	BRM18123.42.5A	2	BRH176/03	
SEAL	SM19821017.5FE	1	SAM198/1	**198 X 210**
WIPER	FWM198DH	1	EWM198	
BEARING RING	BRM20323.42.5A	2	BRH198	

FLARETITE

- Economical method to reduce minor leaks and weeping connections.
- Concentric, stainless steel, ribbed insert with multiple contact points
- Loctite coated to fill surface imperfections & stop electrolysis
- Allows for +/- ½ degree mis-alignment
- Higher assembly torque possible without surface damage



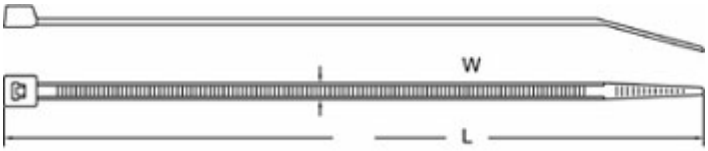
JIC 37° flare tube fitting





DASH SIZE	TUBE OD	JIC	TORQUE (FT-IB)
04	0.25”	7/16	14
06	0.375”	9/16	26
08	0.50”	3/4	55
10	0.625”	7/8	80
12	0.75”	11/16	110
16	1.0”	15/16	140
20	1.25”	1 5/16	190
24	1.5”	1 5/8	220
32	2.0”	2 1/2	325

CABLE TIES



HEAVY DUTY - NYLON - WEATHER RESISTANT

PART #	BAG SIZE	LENGTH	WIDTH
CT092X2.4MXD			
CT092X2.4SBLMXD			
CT100X2.5BK	BLACK 100PCS	100	2.5
CT100X2.5BLUE	BLUE 100PCS	100	2.5
CT100X2.5GREEN	GREEN 100PCS	100	2.5
CT100X2.5ORG	ORANGE 100PCS	100	2.5
CT100X2.5RED	RED 100PCS	100	2.5
CT100X2.5YELLOW	YELLOW 100PCS	100	2.5
CT1030X12.7BK	BLACK 25PCS	1030	12.7
CT1168X9BK	BLACK 25PCS	1168	9
CT120X4.8BK	BLACK 100PCS	120	4.8
CT142X3.2BK	BLACK 100PCS	142	3.2
CT150X3.5BLMXD			
CT162X4.8BK	BLACK 100PCS	162	4.8
CT165X2.5BK	BLACK 100PCS	165	2.5
CT186X4.8MXD			
CT186X4.8SBLMXD			
CT200X2.5BK	BLACK 100PCS	200	2.5
CT200X3.2BK	BLACK 100PCS	200	3.2
CT200X3.2BLUE	BLUE 100PCS	200	3.2
CT200X3.2GREEN	GREEN 100PCS	200	3.2
CT200X3.2KIT			
CT200X3.2ORANGE	ORANGE 100PCS	200	3.2
CT200X3.2RED	RED 100PCS	200	3.2
CT200X3.2YELLOW	YELLOW 100PCS	200	3.2
CT200X4.6CTI			
CT203X4.6BK	BLACK 100PCS	203	4.6
CT203X7.6BK	BLACK 50PCS	203	7.6
CT250X4.8BK	BLACK 50PCS	250	4.8
CT280X13BK	BLACK 25PCS	280	12.7
CT280X4.8BK	BLACK 50PCS	280	4.8
CT292X3.6ORG	ORANGE	292	3.6
CT292X3.6RED	RED	292	3.6
CT300X7.6BK	BLACK 50PCS	300	7.6
CT340X6.9MXD			
CT360X4.8MXD			
CT368X4.8BK	BLACK 50PCS	368	4.8
CT380X7.6BK	BLACK 50PCS	380	7.6
CT390X4.6BLMXD			
CT390X4.6SBLMXD			
CT432X4.8BK	BLACK 50PCS	432	4.8
CT450X8BK	BLACK 50PCS	450	8
CT550X12.7BK	BLACK 25PCS	550	12.7
CT550X8BK	BLACK 50PCS	550	8
CT762X9BK	BLACK 50PCS	762	9
CTT200X4.6	TIE WITH ID TAG	203	4.6

D RINGS

CATERPILLAR -- D RINGS

NITRILE RUBBER

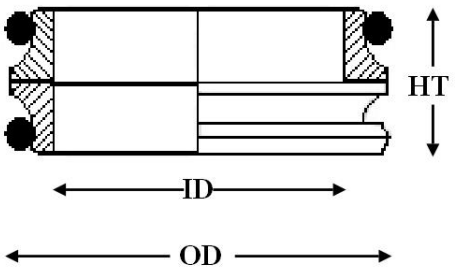
PART #	ID inch	OD inch	HEIGHT
DC075	3/4	1	3/16
DC100	1	1 1/4	3/16
DC125	1 1/4	1 1/2	3/16
DC 150	1 1/2	1 3/4	3/16
DC175	1 3/4	2	3/16
DC200	2	2 1/4	3/16
DC212	2 1/8	2 3/8	3/16
DC225	2 1/4	2 1/2	3/16
DC250	2 1/2	2 3/4	3/16

HITACHI -- D RINGS

POLY URETHANE

PART #	ID mm	OD mm	HEIGHT
DH01	69.6	80.4	5.7
DH02	89.6	100.4	5.7
DH03	118.6	129.4	5.7
DH04	124.6	135.4	5.7
DH05	147.6	158.4	5.7
DH06	159.1	170.1	6.4

FLOATING SEAL



NITRILE ORING

CAST IRON SEAL



ALL DIMENSIONS ARE METAL

PART#	ID	OD	HT
DUR24026338			
DUR35539240			
DUR36639438SIL			
DUR42945738			
DUR10011831.8	100	118	31.8
DUR10212232	102	122	32
DUR10411722.4	104	117	20
DUR10412223	104	122	22
DUR10913232	109	132	32
DUR11012732	110	127	32
DUR11513731	115	137	31
DUR12014338	120	143	38
DUR12414122	124	141	22
DUR125144.131.8	125	144.1	31.8
DUR12714129	127	141	25
DUR12714631.8	127	146	31.8
DUR130150.832	130	150	32
DUR13015238	130	152	38
DUR14315725	143	157	25
DUR146171.738	146	171.7	38
DUR14817031	148	170	31
DUR15017240	150	172	40
DUR15416826	154	168	25
DUR15416922	154	169	22
DUR159.518032	159.5	180	32
DUR163.3191.238	163.3	191.2	38
DUR17820038	178	200	38
DUR18221038	182	210	38
DUR18221050	182	210	50
DUR19221533	192	215	33
DUR20923442	209	234	42
DUR22024641	220	246	41
DUR22525238	225	252	38
DUR22525240	225	252	40
DUR23926840	239	268	40
DUR25027641	250	276	41
DUR26529338	265	293	37
DUR30032538	300	325	38

PART#	ID	OD	HT
DUR30032838	300	328	40
DUR31834638	318	346	38
DUR34036841	340	368	38
DUR36639438	365	391	37
DUR38040540	380	405	40
DUR04505821	45	58	21
DUR04806225	48	62	25
DUR05607025	56	70	25
DUR05807527	58	75	27
DUR063.58231.8	63.5	82	31.8
DUR06407825	64	78	25
DUR06608528	66	85	28
DUR06908426	69	84	26
DUR07009029	70	90	29
DUR07309231.8	73	92	31.8
DUR07408622	74	86	22
DUR07509429	76	94	29
DUR08009929	80	99	29
DUR08110029	81	100	29
DUR09010528	90	105	28
DUR090.510931.8	90.5	109	31.8
DUR092109.322	92	109.3	22
DUR094106.722	94	106.7	22
DUR09511430	95	114	30
DUR098.511930	98.5	119	30

Specified Tolerances

Metric

Nominal Size		SHAFTS (outside diameters) units 0.001mm									BORES (inside diameters) units 0.001mm				
OVER	**TO**	**E9**	**F8**	**F9**	**H8**	**H9**	**H10**	**H11**	**JS10**	**JS11**	**H8**	**H9**	**H10**	**H11**	**JS11**
2	3	-14	-6	-6	0	0	0	0	20	30	14	25	40	60	30
2	3	-39	-20	-31	-14	-25	-40	-60	-20	-30	0	0	0	0	-30
3	6	-20	-10	-10	0	0	0	0	24	38	18	30	48	75	38
3	6	-50	-28	-40	-18	-30	-48	-75	-24	-38	0	0	0	0	-38
6	10	-25	-13	-13	0	0	0	0	29	45	22	36	58	90	45
6	10	-61	-35	-49	-22	-36	-58	-90	-29	-45	0	0	0	0	-45
10	18	-32	-16	-16	0	0	0	0	35	55	27	43	70	110	55
10	18	-75	-43	-59	-27	-43	-70	-110	-35	-55	0	0	0	0	-55
18	30	-40	-20	-20	0	0	0	0	42	65	33	52	84	130	65
18	30	-92	-53	-72	-33	-52	-84	-130	-42	-65	0	0	0	0	-65
30	50	-50	-25	-25	0	0	0	0	50	80	39	62	100	160	80
30	50	-112	-64	-87	-39	-62	-100	-160	-50	-80	0	0	0	0	-80
50	80	-60	-30	-30	0	0	0	0	60	95	46	74	120	190	95
50	80	-134	-76	-104	-46	-74	-120	-190	-60	-95	0	0	0	0	-95
80	120	-72	-36	-36	0	0	0	0	70	110	54	87	140	220	110
80	120	-159	-90	-123	-54	-87	-140	-220	-70	-110	0	0	0	0	-110
120	180	-85	-43	-43	0	0	0	0	80	125	63	100	160	250	125
120	180	-185	-106	-143	-63	-100	-160	-250	-80	-125	0	0	0	0	-125
180	250	-100	-50	-50	0	0	0	0	92	145	72	115	185	290	145
180	250	-215	-122	-165	-72	-115	-185	-290	-92	-145	0	0	0	0	-145
250	315	-110	-56	-56	0	0	0	0	105	160	81	130	210	320	160
250	315	-240	-137	-186	-81	-130	-210	-320	-105	-160	0	0	0	0	-160
315	400	-125	-62	-62	0	0	0	0	115	180	89	140	230	360	180
315	400	-265	-151	-212	-89	-140	-230	-360	-115	-180	0	0	0	0	-180

Specified Tolerances

Imperial

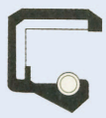
Nominal Size		SHAFTS (outside diameters) units 0.001 inch									BORES (inside diameters) units 0.001 inch				
OVER	**TO**	**E9**	**F8**	**F9**	**H8**	**H9**	**H10**	**H11**	**JS10**	**JS11**	**H8**	**H9**	**H10**	**H11**	**JS11**
0.04	0.12	-0.6	-0.3	-0.3	0	0	0	0	0.8	1.3	0.6	1	1.6	2.5	1.3
0.04	0.12	-1.6	-0.9	-1.2	-0.6	-1	-1.6	-2.5	-0.8	-1.3	0	0	0	0	-1.3
0.12	0.24	-0.8	-0.4	-0.4	0	0	0	0	0.9	1.5	0.7	1.2	1.8	3	1.5
0.12	0.24	-2	-1.1	-1.6	-0.7	-1.2	-1.8	-3	-0.9	-1.5	0	0	0	0	-1.5
0.24	0.4	-1	-0.5	-0.5	0	0	0	0	1.1	1.8	0.9	1.4	2.2	3.5	1.8
0.24	0.4	-2.4	-1.4	-1.9	-0.9	-1.4	-2.2	-3.5	-1.1	-1.8	0	0	0	0	-1.8
0.4	0.71	-1.2	-0.6	-0.6	0	0	0	0	1.4	2	1	1.6	2.8	4	2
0.4	0.71	-2.8	-1.6	-2.3	-1	-1.6	-2.8	4	-1.4	-2	0	0	0	0	-2
0.71	1.19	-1.6	-0.8	-0.8	0	0	0	0	1.8	2.5	1.2	2	3.5	5	2.5
0.71	1.19	-3.6	-2	-2.8	-1.2	-2	-3.5	-5	-1.8	-2.5	0	0	0	0	-2.5
1.19	1.97	-2	-1	-1	0	0	0	0	2	3	1.6	2.5	4	6	3
1.19	1.97	-4.5	-2.6	-3.4	-1.6	-2.5	-4	-6	-2	-3	0	0	0	0	-3
1.97	3.15	-2.5	-1.2	-1.2	0	0	0	0	2.3	3.5	1.8	3	4.5	7	3.5
1.97	3.15	-5.5	-3	-4.1	-1.8	-3	-4.5	-7	-2.3	-3.5	0	0	0	0	-3.5
3.15	4.73	-3	-1.4	-1.4	0	0	0	0	2.5	4.5	2.2	3.5	5	9	4.5
3.15	4.73	-6.5	-3.6	-4.8	-2.2	-3.5	-5	-9	-2.5	-4.5	0	0	0	0	-4.5
4.73	7.09	-3.5	-1.6	-1.6	0	0	0	0	3	5	2.5	4	6	10	5
4.73	7.09	-7.5	-4.1	-5.6	-2.5	-4	-6	-10	-3	-5	0	0	0	0	-5
7.09	9.85	-4	-2	-2	0	0	0	0	3.5	6	2.8	4.5	7	12	6
7.09	9.85	-8.5	-4.8	-6.5	-2.8	-4.5	-7	-12	-3.5	-6	0	0	0	0	-6
9.85	12.41	-4.5	-2.2	-2.2	0	0	0	0	4	6	3	5	8	12	6
9.85	12.41	-9.5	-5.2	-7.3	-3	-5	-8	-12	-4	-6	0	0	0	0	-6

ROTARY SHAFT SEALS (RS)

Industrial Applications



BRAND CONVERSION CHART

			High/ Medium Pressure	
Brand	**Single Lip**	**Double Lip**	**Double Lip**	**Gamma Seal**
DIN 3760	A	AS	AS_P	RB/9RB
CFW	BA	BABL	BABSL	
GOETZE	827N	827S	827SK	
KACO	DG	DGS	DGSP	
STEFA	CB	CC	CF	
NOK	SC	TC	TCN/TCV	RB/9RB
SOG	103	104	122	291/292
GACO	A	FA		
PIONEER WESTERN	R21	R23		
PAULSTRA	IE	IEL		
NATIONAL	35	32		

Full Machining/Design details available on request

DESCRIPTION

- Manufactures to DIN 3760/ISO 9002
- Cold rolled metal case to DIN 1624
- Garter spring loaded lip
- Rubber covered for static seal on OD
  - NBR (Nitrile)
  - Polyacrylate
  - Neoprene
  - Silicone
  - FKM (Viton™)
- NBR up to 2500RPM @ ø50mm
- FKM up to 9000RPM @ ø50mm
  - Fig. 1 & Fig. 2 (see over)
- Low/Medium/High pressure styles
  - Fig. 2 (see over)
- Double lip standard
  - Second lip excluding dust ingress

SEAL SELECTION

- Match shaft speed (M/S or RPM), to obtain Seal Material - Fig 1 (see over)
- Check Seal Material fluid compatibility (your distributor can help)
- Confirm size availability
- Confirm Pressure/Shaft speed relationship suitability - Fig 2 (see over)
- Seal specifications still do not match up!
  - Your needs may be high speed Automotive/Specialised Industrial
  - Contact your distributor for help.

SiL SEAL INNOVATIONS

NEW ZEALAND

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www.sealinnovations.co.nz

AUSTRALIA

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ROTARY SHAFT SEALS (RS)

Industrial Applications

SHAFT SPEED MATERIAL SELECTION

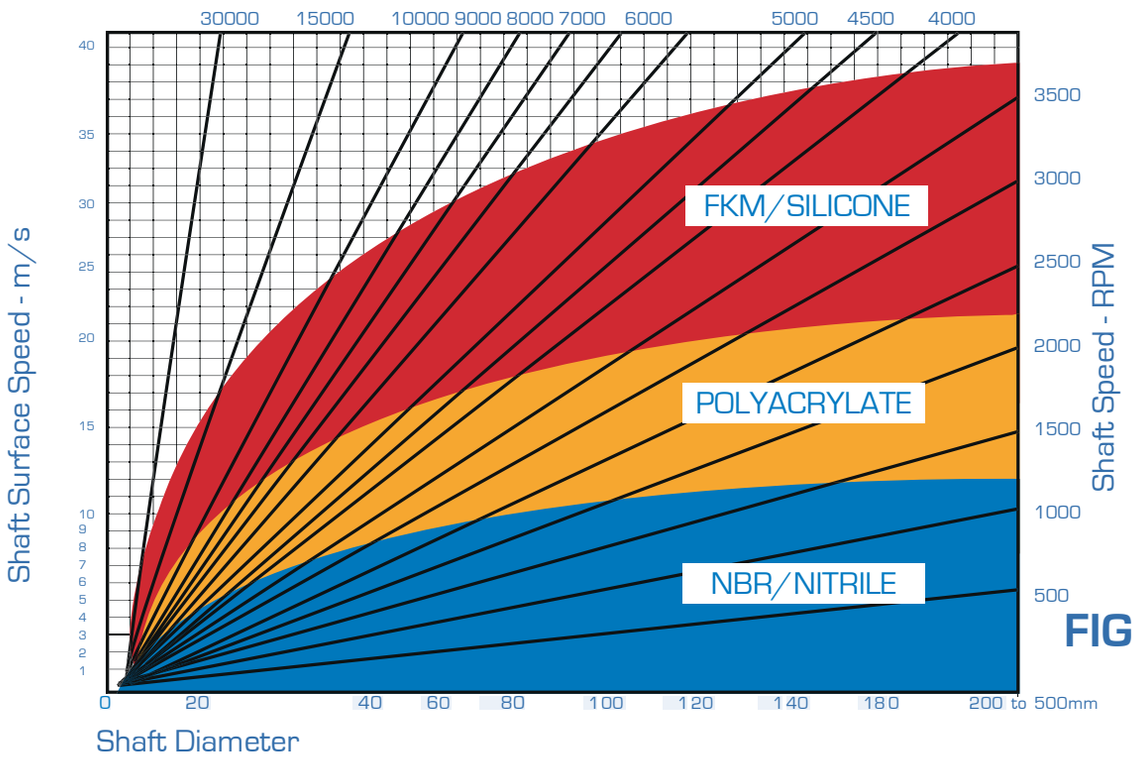


FIG 1

Example: For a shaft of 50 diameter rotating at 4000RPM, the surface speed is 10.5 m/s. If the type of Medium to be sealed and the operation temperature allow, polyacrylate rubber can be chosen as the lip material

PRESSURE/SHAFT SPEED RELATIONSHIP

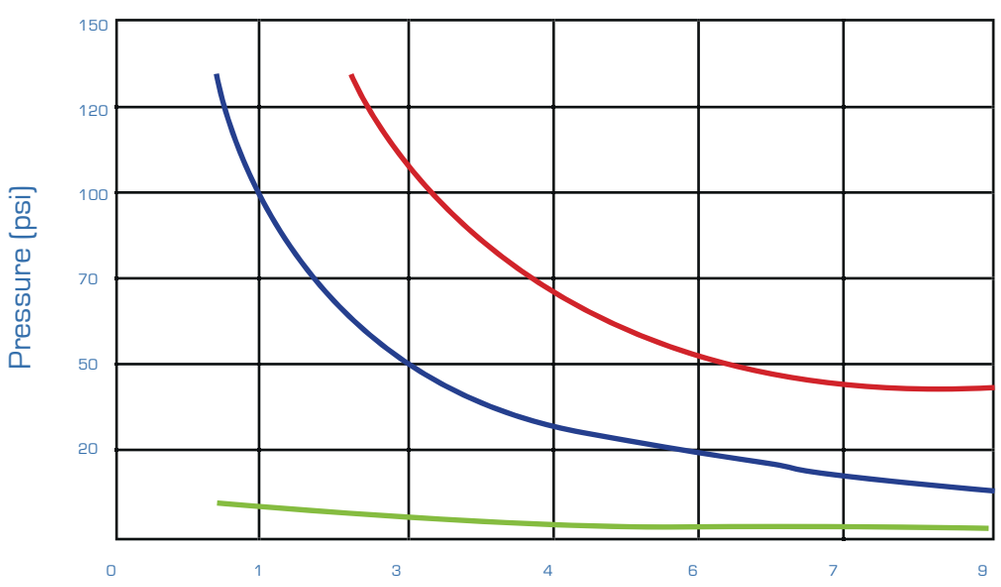


FIG 2

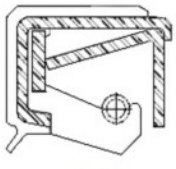
STD - No pressure Medium Pressure High Pressure

The higher the pressure or the speed the lower the seal life

ROTARY SEALS etc

	PAGE
ROTARY SEAL PROFILES	1
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WEAR PRO	89
ROLL PINS	85
E CLIP	86
EXT CIR CLIP	87
INT CIR CLIP	88

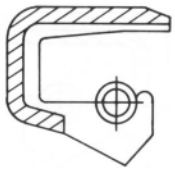
OIL SEAL PROFILES



374
TCN



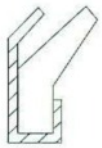
304
TA
CS



223
SEB



212
TZ
BS



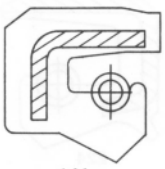
291
RB



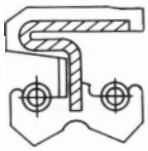
201
VB
BO



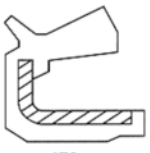
207
SB
B



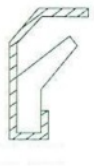
141
SF
A



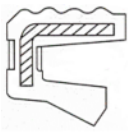
135
DC
A-DUO



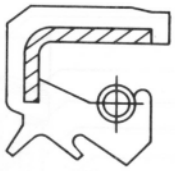
172
OKC



292
9RB



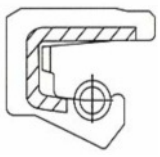
137
VG
AO-RIL



131
TC4



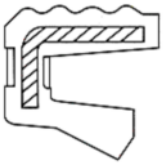
128
TEC
TCV



127
SEC
SCV



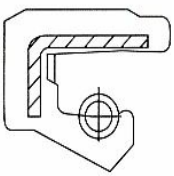
126
TCN



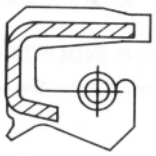
137
(NITRILE)



133
TC9



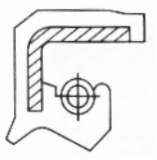
125
SCN



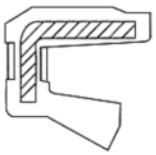
124
TEC



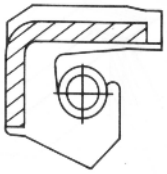
123
SEC
BIS



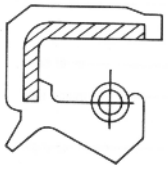
122
TCN
BABSL



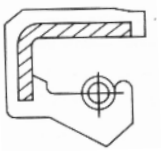
101
(NITRILE)



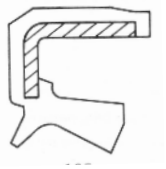
121
SCN
BAHD



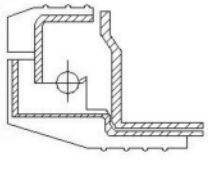
104
TC
AS



103
SC
A



102
KC
AOS



TM

ROTARY OIL SEAL

IMPERIAL

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RS02507525LVC	0.25	0.75	0.25	104	LOW		VITON
RS02507525LNC	0.25	0.75	0.25	104	LOW		NBR
RS03105625ZNW	0.312	0.562	0.25	101	ZERO		NBR
RS03107525LNC	0.312	0.75	0.25	104	LOW		NBR
RS03107525LVC	0.312	0.75	0.25	104	LOW		VITON
RS03108725LNC	0.312	0.875	0.25	104	LOW		NBR
RS03110025HNC	0.312	1	0.25	126	HIGH		NBR
RS03705609ZNW	0.375	0.562	0.093		ZERO		NBR
RS03707525HNC	0.375	0.75	0.25	122	HIGH		NBR
RS03707525LNK	0.375	0.75	0.25	123	LOW		NBR
RS03708137LNC	0.375	0.812	0.375	104	LOW		NBR
RS03708725LNC	0.375	0.875	0.25	104	LOW		NBR
RS03708725LVC	0.375	0.875	0.25	104	LOW		VITON
RS03708725HVC	0.375	0.875	0.25	122	HIGH		VITON
RS03710037LNC	0.375	1	0.375	207	LOW		NBR
RS04308725LNC	0.437	0.875	0.25	104	LOW		NBR
RS04310025LNC	0.437	1	0.25	207	LOW		NBR
RS04312525LNC	0.437	1.25	0.25	104	LOW		NBR
RS05007518ZNW	0.5	0.75	0.187	101	ZERO		NBR
RS05007525LNC	0.5	0.75	0.25	104	LOW		NBR
RS05008725LNC	0.5	0.875	0.25	104	LOW		NBR
RS05010018LNC	0.5	1	0.187	104	LOW		NBR
RS05010025HVC	0.5	1	0.25	122	HIGH		VITON
RS05010025LNC	0.5	1	0.25	104	LOW		NBR
RS05010031LNC	0.5	1	0.312	104	LOW		NBR
RS05011225LVC	0.5	1.125	0.25	104	LOW		VITON
RS05011225LNC	0.5	1.125	0.25	104	LOW		NBR
RS05011231LNC	0.5	1.125	0.312	104	LOW		NBR
RS05012525LNC	0.5	1.25	0.25	104	LOW		NBR
RS05608718LNC	0.562	0.875	0.187	104	LOW		NBR
RS05610018LNC	0.562	1	0.187	104	LOW		NBR
RS05610025LNC	0.562	1	0.25	104	LOW		NBR
RS05611225LNC	0.562	1.125	0.25	104	LOW		NBR
RS05613725LVC	0.562	1.375	0.25	104	LOW		VITON
RS06209318LNC	0.625	0.937	0.187	104	LOW		NBR
RS06209318LNK	0.625	0.937	0.187		LOW		NBR
RS06210018LNC	0.625	1	0.187	104	LOW		NBR
RS06210025LNC	0.625	1	0.25	104	LOW		NBR
RS06210025LVC	0.625	1	0.25	104	LOW		VITON

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RS06211218LNC	0.625	1.125	0.187	104	LOW		NBR
RS06211225LVC	0.625	1.125	0.25	104	LOW		VITON
RS06211225HVC	0.625	1.125	0.25	122	HIGH		VITON
RS06211225LNC	0.625	1.125	0.25	104	LOW		NBR
RS06211237HNC	0.625	1.125	0.375	122	HIGH		NBR
RS06211237LNC	0.625	1.125	0.375	104	LOW		NBR
RS06211237LVC	0.625	1.125	0.375	104	LOW		VITON
RS06212525LNC	0.625	1.25	0.25	104	LOW		NBR
RS06212525LVC	0.625	1.25	0.25	104	LOW		VITON
RS06213125LNC	0.625	1.312	0.25	104	LOW		NBR
RS06213725LNC	0.625	1.375	0.25	104	LOW		NBR
RS06213725LVC	0.625	1.375	0.25	104	LOW		VITON
RS06213731HVC	0.625	1.375	0.312	127	HIGH		VITON
RS06215025LNC	0.625	1.5	0.25	104	LOW		NBR
RS06811225HNC	0.687	1.125	0.25	122	HIGH		NBR
RS06811225LNC	0.687	1.125	0.25	104	LOW		NBR
RS06811231LNC	0.687	1.125	0.312	104	LOW		NBR
RS06811818LNC	0.687	1.187	0.187	104	LOW		NBR
RS06812525LNC	0.687	1.25	0.25	104	LOW		NBR
RS06813725LNC	0.687	1.375	0.25	104	LOW		NBR
RS07510012ZNX	0.75	1	0.125		ZERO		NBR
RS075112187LNB	0.75	1.125	0.187	103	LOW		NITRILE
RS07511218LNC	0.75	1.125	0.187	103	LOW		NBR
RS07511225LNC	0.75	1.125	0.25	104	LOW		NBR
RS07511225LVC	0.75	1.125	0.25	104	LOW		VITON
RS07511231LNC	0.75	1.125	0.312	104	LOW		NBR
RS07511825LNC	0.75	1.187	0.25	103	LOW		NBR
RS07512518LNC	0.75	1.25	0.187	207	LOW		NBR
RS07512525LVC	0.75	1.25	0.25	104	LOW		VITON
RS07512525HNC	0.75	1.25	0.25	122	HIGH		NBR
RS07512525LNC	0.75	1.25	0.25	207	LOW		NBR
RS07512531HVC	0.75	1.25	0.312	124	HIGH		VITON
RS07512531LNC	0.75	1.25	0.312	104	LOW		NBR
RS07512531LVC	0.75	1.25	0.312	104	LOW		VITON
RS07513125LNC	0.75	1.312	0.25	104	LOW		NBR
RS07513125LVC	0.75	1.312	0.25	104	LOW		VITON
RS07513131LNC	0.75	1.312	0.312	104	LOW		NBR
RS07513725HNC	0.75	1.375	0.25	122	HIGH		NBR
RS07513725LNC	0.75	1.375	0.25	104	LOW		NBR
RS07513737LNC	0.75	1.375	0.375	104	LOW		NBR
RS07513737LVC	0.75	1.375	0.394	104	LOW		VITON
RS07515018LNC	0.75	1.5	0.187	104	LOW		NBR

ROTARY OIL SEAL

IMPERIAL

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RS07515025LVC	0.75	1.5	0.25	104	LOW		VITON
RS07515025LNC	0.75	1.5	0.25	104	LOW		NBR
RS07515031LNC	0.75	1.5	0.312	104	LOW		NBR
RS07515037LNC	0.75	1.5	0.375	104	LOW		NBR
RS07516225LNC	0.75	1.625	0.25	104	LOW		NBR
RS07516225LVC	0.75	1.625	0.25	104	LOW		VITON
RS07516237LNC	0.75	1.625	0.375	104	LOW		NBR
RS07517525LNC	0.75	1.75	0.25	282	LOW		NBR
RS07517531LNC	0.75	1.75	0.312	103	LOW		NBR
RS07517537HNC	0.75	1.75	0.375	122	HIGH		NBR
RS07812828LNC	0.781	1.281	0.281	10	LOW		NBR
RS07815625HNC	0.781	1.562	0.25	126	HIGH		NBR
RS08111825LNC	0.812	1.187	0.25	103	LOW		NBR
RS08113725LNC	0.812	1.375	0.25	103	LOW		NBR
RS08113731LNC	0.812	1.375	0.312	104	LOW		NBR
RS08116225HNC	0.812	1.625	0.25	125	HIGH		NBR
RS08117525LNC	0.812	1.75	0.25	210	LOW		NBR
RS08118725LNC	0.812	1.875	0.25	104	LOW		NBR
RS08413737LNC	0.843	1.375	0.375	104	LOW		NBR
RS08711218ZNW	0.875	1.125	0.187	101	ZERO		NBR
RS08712518LNC	0.875	1.25	0.187	104	LOW		NBR
RS08712521HNC	0.875	1.25	0.218	128	HIGH		NBR
RS08712525LNC	0.875	1.25	0.25	104	LOW		NBR
RS08713725HNC	0.875	1.375	0.25	126	HIGH		NBR
RS08713725LNC	0.875	1.375	0.25	104	LOW		NBR
RS08713725LVC	0.875	1.375	0.25	104	LOW		VITON
RS08713731HNC	0.875	1.375	0.312	122	HIGH		NBR
RS08713739LNC	0.875	1.375	0.393	104	LOW		NBR
RS08713837LNC	0.875	1.383	0.375	104	LOW		NBR
RS08715025HNC	0.875	1.5	0.25	126	HIGH		NBR
RS08715025LNC	0.875	1.5	0.25	104	LOW		NBR
RS08715037LNC	0.875	1.5	0.375	104	LOW		NBR
RS08716237LNC	0.875	1.625	0.375	104	LOW		NBR
RS08716237LVC	0.875	1.625	0.375	104	LOW		VITON
RS08716856LNC	0.875	1.687	0.562	207	LOW		NBR
RS08718737LNC	0.875	1.875	0.375	104	LOW		NBR
RS08720025LNC	0.875	2	0.25	104	LOW		NBR
RS08720037LNC	0.875	2	0.375	104	LOW		NBR
RS09313725LNC	0.937	1.375	0.25	104	LOW		NBR
RS09315025LNC	0.937	1.5	0.25	104	LOW		NBR

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RS09315037LNC	0.937	1.5	0.375	207	LOW		NBR
RS09316225LNC	0.937	1.625	0.25	104	LOW		NBR
RS09316231LNC	0.937	1.625	0.312	104	LOW		NBR
RS09317537LNC	0.937	1.75	0.375	104	LOW		NBR
RS09320431LNC	0.937	2.046	0.312	104	LOW		NBR
RS09617525HNC	0.969	1.75	0.25	122	HIGH		NBR
RS09816937LNC	0.984	1.69	0.375	104	LOW		NBR
RS10012512ZNW	1	1.25	0.125	101	ZERO		NBR
RS10012512ZVW	1	1.25	0.125	101	ZERO		VITON
RS10012525LNC	1	1.25	0.25	104	LOW		NBR
RS10013718LNC	1	1.375	0.187	104	LOW		NBR
RS10013725LNC	1	1.375	0.25	104	LOW		NBR
RS10013725ZVW	1	1.375	0.25	104	LOW		VITON
RS10014325LNC	1	1.437	0.25	104	LOW		NBR
RS10015025HNC	1	1.5	0.25	126	HIGH		NBR
RS10015025LNC	1	1.5	0.25	210	LOW		NBR
RS10015031LNC	1	1.5	0.312	104	LOW		NBR
RS10015037LNC	1	1.5	0.375	104	LOW		NBR
RS10015631LNC	1	1.562	0.312	104	LOW		NBR
RS10016225HNC	1	1.625	0.25	122	HIGH		NBR
RS10016225LNC	1	1.625	0.25	104	LOW		NBR
RS10016231LNC	1	1.625	0.312	104	LOW		NBR
RS10016237LNC	1	1.625	0.375	104	LOW		NBR
RS10016237LVC	1	1.625	0.375	104	LOW		VITON
RS10016243LND	1	1.625	0.437	135	LOW		NBR
RS10017518HNC	1	1.75	0.187	121	HIGH		NBR
RS10017525HVC	1	1.75	0.25	128	MEDIUM		VITON
RS10017525LNC	1	1.75	0.25	104	LOW		NBR
RS10017525HNC	1	1.75	0.25	121	HIGH		NBR
RS10016225LVC	1	1.75	0.25	104	LOW		VITON
RS10017525LVC	1	1.75	0.25	104	LOW		VITON
RS10017528HNC	1	1.75	0.29	122	HIGH		NBR
RS10017531LNC	1	1.75	0.312	104	LOW		NBR
RS10017531LVC	1	1.75	0.312	104	LOW		VITON
RS10017537HNC	1	1.75	0.375	122	HIGH		NBR
RS10017537LNC	1	1.75	0.375	104	LOW		NBR
RS10017537LVC	1	1.75	0.375	104	LOW		VITON
RS10018725LNC	1	1.875	0.25	104	LOW		NBR
RS10018731LNC	1	1.875	0.312	104	LOW		NBR
RS10018737LNC	1	1.875	0.375	104	LOW		NBR
RS10020025LNC	1	2	0.25	104	LOW		NBR

ROTARY OIL SEAL

IMPERIAL

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RS10020031LNC	1	2	0.312	104	LOW		NBR
RS10020037LNC	1	2	0.375	104	LOW		NBR
RS10020050LNC	1	2	0.5	104	LOW		NBR
RS10020425LNC	1	2.046	0.25	104	LOW		NBR
RS10020427LNC	1	2.047	0.275	104	LOW		NBR
RS10020637LNC	1	2.062	0.375	104	LOW		NBR
RS10021237LNC	1	2.125	0.375	104	LOW		NBR
RS10022537LNC	1	2.25	0.375	104	LOW		NBR
RS10023131LNC	1	2.312	0.312	104	LOW		NBR
RS10613112ZNW	1.062	1.312	0.125	201	ZERO		NBR
RS10615025LNC	1.062	1.5	0.25	104	LOW		NBR
RS10616237LNC	1.062	1.625	0.375	104	LOW		NBR
RS10616831HNC	1.062	1.687	0.312	126	HIGH		NBR
RS10616837LNC	1.062	1.687	0.375	104	LOW		NBR
RS10617537LNC	1.062	1.75	0.375	104	LOW		NBR
RS10618737LNC	1.062	1.875	0.375	104	LOW		NBR
RS10620037LNC	1.062	2	0.375	104	LOW		NBR
RS10917537LNC	1.093	1.75	0.375	104	LOW		NBR
RS112137I2ZNW	1.125	1.375	0.125	101	LOW		NBR
RS11213725LNC	1.125	1.375	0.25	104	LOW		NBR
RS11215025LNC	1.125	1.5	0.25	104	LOW		NBR
RS11215025LVC	1.125	1.5	0.25	104	LOW		VITON
RS11215631LNC	1.125	1.562	0.312	104	LOW		NBR
RS11215637LNC	1.125	1.562	0.375	104	LOW		NBR
RS11216225LNC	1.125	1.625	0.25	104	LOW		NBR
RS11216231LNC	1.125	1.625	0.312	104	LOW		NBR
RS11216237LNC	1.125	1.625	0.375	104	LOW		NBR
RS11216831LVC	1.125	1.687	0.312	104	LOW		VITON
RS11217525LNC	1.125	1.75	0.25	104	LOW		NBR
RS11217531LNC	1.125	1.75	0.312	104	LOW		NBR
RS11217537LNC	1.125	1.75	0.375	104	LOW		NBR
RS11217850LNC	1.125	1.781	0.5	104	LOW		NBR
RS11218731LNC	1.125	1.875	0.312	104	LOW		NBR
RS11218737LNC	1.125	1.875	0.375	104	LOW		NBR
RS11219925HNC	1.125	1.998	0.25	122	HIGH		NBR
RS11220025LNC	1.125	2	0.25	104	LOW		NBR
RS11220025LVC	1.125	2	0.25	104	LOW		VITON
RS11220037LNC	1.125	2	0.375	104	LOW		NBR
RS11220037LVC	1.125	2	0.375	104	LOW		VITON
RS11220637LNC	1.125	2.062	0.375	104	LOW		NBR
RS11221237LNC	1.125	2.125	0.375	104	LOW		NBR
RS11222537LVC	1.125	2.25	0.375	104	LOW		VITON
RS11222537LNC	1.125	2.25	0.375	104	LOW		NBR
RS11224343LNC	1.125	2.437	0.437	104	LOW		NBR
RS11225325LNC	1.125	2.531	0.25	104	LOW		NBR
RS11315943LNC	1.134	1.598	0.437		LOW		NBR
RS11516831HNC	1.156	1.687	0.312	126	HIGH		NBR
RS11516832LNC	1.156	1.687	0.328	104	LOW		NBR
RS11816837LNC	1.187	1.687	0.375	104	LOW		NBR
RS11817518LNC	1.187	1.75	0.187	103	LOW		NBR
RS11817537LNC	1.187	1.75	0.375	104	LOW		NBR
RS11818731LNC	1.187	1.875	0.312	103	LOW		NBR
RS11818737LNC	1.187	1.875	0.375	104	LOW		NBR
RS11820025LNC	1.187	2	0.25	104	LOW		NBR
RS11820028LNC	1.187	2	0.281	104	LOW		NBR
RS11820037LNC	1.187	2	0.375	104	LOW		NBR
RS11824337LNC	1.187	2.437	0.375	104	LOW		NBR
RS12515727LNC	1.25	1.574	0.275	104	LOW		NBR
RS12516218LNC	1.25	1.625	0.187	104	LOW		NBR
RS12516225LNC	1.25	1.625	0.25	104	LOW		NBR
RS12516818LNR	1.25	1.687	0.187	104	LOW/RH		NBR
RS12516825LNC	1.25	1.687	0.25	104	LOW		NBR
RS12516831LNC	1.25	1.687	0.312	104	LOW		NBR
RS12517525HNC	1.25	1.75	0.25	122	HIGH		NBR
RS12517525LNB	1.25	1.75	0.25		LOW		NBR
RS12517525LNC	1.25	1.75	0.25	104	LOW		NBR
RS12517525LVC	1.25	1.75	0.25	104	LOW		VITON
RS12517531LNC	1.25	1.75	0.312	104	LOW		NBR
RS12517531LVC	1.25	1.75	0.312	104	LOW		VITON
RS12517537LNC	1.25	1.75	0.375	104	LOW		NBR
RS12517537LVC	1.25	1.75	0.375	104	LOW		VITON
RS12517539LNC	1.25	1.75	0.39	126	HIGH		NBR
RS12517550LNC	1.25	1.75	0.5	104	LOW		NBR
RS12518337LNC	1.25	1.828	0.375	104	LOW		NBR
RS12518725LNC	1.25	1.875	0.25	104	LOW		NBR
RS12518725LVC	1.25	1.875	0.25	104	LOW		VITON
RS12518731LNC	1.25	1.875	0.312	104	LOW		NBR
RS12518737LNC	1.25	1.875	0.375	104	LOW		NBR
RS12519731LNC	1.25	1.976	0.312	104	LOW		NBR
RS12520025LNC	1.25	2	0.25	104	LOW		NBR
RS12520025LVC	1.25	2	0.25	104	LOW		VITON
RS12520028HNC	1.25	2	0.281	122	HIGH		NBR

ROTARY OIL SEAL

IMPERIAL

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RS12520028HVC	1.25	2	0.281		HIGH		VITON
RS12520031LNC	1.25	2	0.312	104	LOW		NBR
RS12520037LVC	1.25	2	0.375	104	LOW		VIT
RS12520037LNC	1.25	2	0.375	104	LOW		NBR
RS12520050LND	1.25	2	0.5	135	LOW		NBR
RS12520050LVC	1.25	2	0.5	104	LOW		VITON
RS12520637LNC	1.25	2.062	0.375	103	LOW		NBR
RS12521225LNC	1.25	2.125	0.25	104	LOW		NBR
RS12521231LNC	1.25	2.125	0.312	104	LOW		NBR
RS12521237LNC	1.25	2.125	0.375	104	LOW		NBR
RS12521837LNC	1.25	2.187	0.375	104	LOW		NBR
RS12521843LNC	1.25	2.187	0.437	104	LOW		NBR
RS12522525LNC	1.25	2.25	0.25	103	LOW		NBR
RS12522537LNC	1.25	2.25	0.375	104	LOW		NBR
RS12522550LNC	1.25	2.25	0.5	104	LOW		NBR
RS12523737LNC	1.25	2.375	0.375	103	LOW		NBR
RS12523750LNC	1.25	2.375	0.5	104	LOW		NBR
RS12524328LNC	1.25	2.437	0.281	104	LOW		NBR
RS12525037LNC	1.25	2.5	0.375	104	LOW		NBR
RS12527537LNC	1.25	2.75	0.375	104	LOW		NBR
RS12528537LNC	1.25	2.852	0.375	104	LOW		NBR
RS12819350LNC	1.281	1.937	0.5	104	LOW		NBR
RS12820037LNC	1.281	2	0.375	122	LOW		NBR
RS13028437LNA	1.3	2.845	0.375		LOW		NBR
RS13117537LNC	1.312	1.75	0.375	104	LOW		NBR
RS13118743LNC	1.312	1.875	0.437	104	LOW		NBR
RS13119331HNC	1.312	1.937	0.312	126	HIGH		NBR
RS13120031LNC	1.312	2	0.312	104	LOW		NBR
RS13120637LNC	1.312	2.062	0.375	104	LOW		NBR
RS13121231HNC	1.312	2.125	0.312	126	HIGH		NBR
RS13121237LNC	1.312	2.125	0.375	104	LOW		NBR
RS13122537LNC	1.312	2.25	0.375	104	LOW		NBR
RS13122850LNC	1.312	2.28	0.5	104	LOW		NBR
RS13128537HVC	1.312	2.849	0.375		HIGH		VITON
RS13128737LNC	1.312	2.875	0.375	104	LOW		NBR
RS13717525LNC	1.375	1.75	0.25	104	LOW		NBR
RS13718718LNC	1.375	1.875	0.187	104	LOW		NBR
RS13718725LNC	1.375	1.875	0.25	104	LOW		NBR
RS13718731LNC	1.375	1.875	0.312	104	LOW		NBR
RS13718737LNC	1.375	1.875	0.375	104	LOW		NBR
RS13720031LNC	1.375	2	0.312	104	LOW		NBR

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RS13720031LVC	1.375	2	0.312	104	LOW		VITON
RS13720037LNC	1.375	2	0.375	104	LOW		NBR
RS13720625LNC	1.375	2.062	0.25	104	LOW		NBR
RS13720631LNC	1.375	2.062	0.312	104	LOW		NBR
RS13721225LNC	1.375	2.125	0.25	104	LOW		NBR
RS13721231LNC	1.375	2.125	0.312	104	LOW		NBR
RS13721231LVF	1.375	2.125	0.312		LOW		VITON
RS13721237LNC	1.375	2.125	0.375	104	LOW		NBR
RS13721237LND	1.375	2.125	0.375	135	LOW		NBR
RS13721237LVC	1.375	2.125	0.375	104	LOW		VITON
RS13721243LNC	1.375	2.125	0.437	104	LOW		NBR
RS13721825LNC	1.375	2.187	0.25	104	LOW		NBR
RS13722525LNC	1.375	2.25	0.25	104	LOW		NBR
RS13722531HNC	1.375	2.25	0.312	122	HIGH		NBR
RS13722531LNC	1.375	2.25	0.312	104	LOW		NBR
RS13722537LNC	1.375	2.25	0.375	104	LOW		NBR
RS13722543LNC	1.375	2.25	0.437	104	LOW		NBR
RS13722550LNC	1.375	2.25	0.5	104	LOW		NBR
RS13722550LVC	1.375	2.25	0.5	104	LOW		VITON
RS13723140LNC	1.375	2.312	0.406	104	LOW		NBR
RS13723143LNC	1.375	2.312	0.437	104	LOW		NBR
RS13723731LNC	1.375	2.375	0.312	104	LOW		NBR
RS13723731ZVW	1.375	2.375	0.312	104	LOW		VITON
RS13723737LNC	1.375	2.375	0.375	103	LOW		NBR
RS13723750LNC	1.375	2.375	0.5	103	LOW		NBR
RS13725037LNC	1.375	2.5	0.375	104	LOW		NBR
RS13725043LNC	1.375	2.5	0.437	104	LOW		NBR
RS13725050HNC	1.375	2.5	0.5	122	HIGH		NBR
RS13725050LNC	1.375	2.5	0.5	104	LOW		NBR
RS13726237LNC	1.375	2.625	0.375	104	LOW		NBR
RS13727537LNC	1.375	2.75	0.375	104	LOW		NBR
RS14020031LNC	1.406	2	0.312	104	LOW		NBR
RS14318725LNC	1.437	1.875	0.25	104	LOW		NBR
RS14318725LVC	1.437	1.875	0.25	104	LOW		VITON
RS14319827LVR	1.437	1.988	0.275	104	LOW/R		VITON
RS14320025LNC	1.437	2	0.25	104	LOW		NBR
RS14320031HNC	1.437	2	0.312	126	HIGH		NBR
RS14320031HVC	1.437	2	0.312		HIGH		VITON
RS14320031LNC	1.437	2	0.312	104	LOW		NBR
RS14320631LNC	1.437	2.062	0.312	104	LOW		NBR
RS14321237LNC	1.437	2.125	0.375		LOW		NBR
RS14322537LNC	1.437	2.25	0.375	104	LOW		NBR

ROTARY OIL SEAL

IMPERIAL

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RS14323125LNC	1.437	2.312	0.25	104	LOW		NBR
RS14323225LNC	1.437	2.328	0.25	104	LOW		NBR
RS14323737LNC	1.437	2.375	0.375	210	LOW		NBR
RS14325037LNC	1.437	2.5	0.375		LOW		NBR
RS14327531LNC	1.437	2.75	0.312	104	LOW		NBR
RS15018718LNC	1.5	1.875	0.187	104	LOW		NBR
RS15018725LNC	1.5	1.875	0.25	104	LOW		NBR
RS15018725LNH	1.5	1.875	0.25		LOW		NBR
RS15020025LNC	1.5	2	0.25	104	LOW		NBR
RS15020031LNC	1.5	2	0.312	104	LOW		NBR
RS15020625LNC	1.5	2.062	0.25	103	LOW		NBR
RS15020631LNC	1.5	2.062	0.312	104	LOW		NBR
RS15021231LNC	1.5	2.125	0.312	104	LOW		NBR
RS15021237LNC	1.5	2.125	0.375	104	LOW		NBR
RS15022531LNC	1.5	2.25	0.312	104	LOW		NBR
RS15022531LVC	1.5	2.25	0.312	104	LOW		VITON
RS15022531HNC	1.5	2.25	0.312	122	HIGH		NBR
RS15022537HVX	1.5	2.25	0.375	125	HIGH		VITON
RS15022537LNC	1.5	2.25	0.375	104	LOW		NBR
RS15022537LVC	1.5	2.25	0.375	104	LOW		NBR
RS15022537HNC	1.5	2.25	0.375	122	HIGH		NBR
RS15023337LNC	1.5	2.33	0.375	104	LOW		NBR
RS15023737LNC	1.5	2.375	0.375	104	LOW		NBR
RS15023750LNC	1.5	2.375	0.5	104	LOW		NBR
RS15024337LNC	1.5	2.437	0.375	104	LOW		NBR
RS15025031LNC	1.5	2.5	0.312	104	LOW		NBR
RS15025037LNC	1.5	2.5	0.375	104	LOW		NBR
RS15025037LSC	1.5	2.5	0.375	104	LOW		SILICONE
RS15025037LVC	1.5	2.5	0.375	104	LOW		VITON
RS15025043LYX	1.5	2.5	0.437		LOW		
RS15025050LNC	1.5	2.5	0.5	104	LOW		NBR
RS15025075LND	1.5	2.5	0.75	135	LOW		NBR
RS15026237LNC	1.5	2.625	0.375	104	LOW		NBR
RS15026250LNC	1.5	2.625	0.5	104	LOW		NBR
RS15027537LNC	1.5	2.75	0.375	104	LOW		NBR
RS15028737LNC	1.5	2.875	0.375	104	LOW		NBR
RS15030037LNC	1.5	3	0.375	103	LOW		NBR
RS15031237LNC	1.5	3.125	0.375	104	LOW		NBR
RS15320931LNC	1.531	2.093	0.312	104	LOW		NBR
RS15521225LNC	1.562	2.125	0.25	104	LOW		NBR
RS15621231LNC	1.562	2.125	0.312	104	LOW		NBR
RS15621237LNC	1.562	2.125	0.375	104	LOW		NBR
RS15622537LNC	1.562	2.25	0.375	104	LOW		NBR
RS15622539LNC	1.562	2.25	0.393	104	LOW		NBR
RS15623131LNC	1.562	2.312	0.312	103	LOW		NBR
RS15623137LNC	1.562	2.312	0.375	104	LOW		NBR
RS15623725ZNW	1.562	2.375	0.25	201	LOW		NBR
RS15623731LNC	1.562	2.375	0.312	104	LOW		NBR
RS15623737LNC	1.562	2.375	0.375	104	LOW		NBR
RS15624443LNR	1.562	2.44	0.433	104	LOW/R		NBR
RS15625031LNC	1.562	2.5	0.312	104	LOW		NBR
RS15625037LNC	1.562	2.5	0.375	104	LOW		NBR
RS15625050LNC	1.562	2.5	0.5	104	LOW		NBR
RS15626237LNC	1.562	2.625	0.375	103	LOW		NBR
RS15626837LNC	1.562	2.687	0.375	104	LOW		NBR
RS15630037LNC	1.562	3	0.375	104	LOW		NBR
RS16225631LVJ6	1.625	2	0.312		LOW		VITON
RS16221225LNC	1.625	2.125	0.25	104	LOW		NBR
RS16221231LNC	1.625	2.125	0.312	104	LOW		NBR
RS16221237LNC	1.625	2.125	0.375	104	LOW		NBR
RS16222525LNC	1.625	2.25	0.25	104	LOW		NBR
RS16222531LNC	1.625	2.25	0.312	104	LOW		NBR
RS16222537LNC	1.625	2.25	0.375	104	LOW		NBR
RS16223737HNC	1.625	2.375	0.375	126	HIGH		NBR
RS16223737LNC	1.625	2.375	0.375	104	LOW		NBR
RS16224337LNC	1.625	2.437	0.375	104	LOW		NBR
RS16224350LNC	1.625	2.437	0.5	104	LOW		NBR
RS16225025LNC	1.625	2.5	0.25	104	LOW		NBR
RS16225037LNC	1.625	2.5	0.375	104	LOW		NBR
RS16225050LNC	1.625	2.5	0.5	104	LOW		NBR
RS16225637LNC	1.625	2.562	0.375	104	LOW		NBR
RS16226235LNC	1.625	2.625	0.359	104	LOW		NBR
RS16226237LNC	1.625	2.625	0.375	104	LOW		NBR
RS16227537LNC	1.625	2.75	0.375	104	LOW		NBR
RS16228737LNC	1.625	2.875	0.375	104	LOW		NBR
RS16228939LNC	1.625	2.89	0.393	104	LOW		NBR
RS16230025LNC	1.625	3	0.25	104	LOW		NBR
RS16230037LNC	1.625	3	0.375	104	LOW		NBR
RS16526237LNC	1.656	2.625	0.375	104	LOW		NBR
RS16526237LNR	1.656	2.625	0.375	104	LOW/RH		NBR
RS16822531LNC	1.68	2.25	0.312		LOW		NBR
RS16823237LNC	1.687	2.328	0.375	104	LOW		NBR

ROTARY OIL SEAL

IMPERIAL

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RS16825037LNC	1.687	2.5	0.375	104	LOW		NBR
RS16825037LVC	1.687	2.5	0.375	104	LOW		VITON
RS16827550LNC	1.687	2.75	0.5	104	LOW		NBR
RS17521218LNC	1.75	2.125	0.187	104	LOW		NBR
RS17522525LNC	1.75	2.25	0.25	104	LOW		NBR
RS17522531LNC	1.75	2.25	0.312	104	LOW		NBR
RS17522537LNC	1.75	2.25	0.375	104	LOW		NBR
RS17522543LNC	1.75	2.25	0.437	104	LOW		NBR
RS17523125LNC	1.75	2.312	0.25	104	LOW		NBR
RS17523225LNC	1.75	2.328	0.25	104	LOW		NBR
RS17523737LNC	1.75	2.375	0.375	104	LOW		NBR
RS17523750LNC	1.75	2.375	0.5	104	LOW		NBR
RS17524331LNC	1.75	2.437	0.312	104	LOW		NBR
RS17524337LNC	1.75	2.437	0.375	104	LOW		NBR
RS17525025LNC	1.75	2.5	0.25	104	LOW		NBR
RS17525031HNC	1.75	2.5	0.312	125	MEDIUM		NBR
RS17525031LVC	1.75	2.5	0.312	104	LOW		VITON
RS17525031HVC	1.75	2.5	0.312	122	HIGH		VITON
RS17525031LNC	1.75	2.5	0.312	104	LOW		NBR
RS17525037HNC	1.75	2.5	0.375		HIGH		NBR
RS17525037LNC	1.75	2.5	0.375	104	LOW		NBR
RS17525037LVC	1.75	2.5	0.375	104	LOW		VITON
RS17525050LNC	1.75	2.5	0.5	104	LOW		NBR
RS17525050LVC	1.75	2.5	0.5	104	LOW		VITON
RS17526231LNC	1.75	2.625	0.312	104	LOW		NBR
RS17526237LNC	1.75	2.625	0.375	104	LOW		NBR
RS17526250LNC	1.75	2.625	0.5	104	LOW		NBR
RS17526850LNC	1.75	2.687	0.5	104	LOW		NBR
RS17527531LNC	1.75	2.75	0.312	104	LOW		NBR
RS17527531LVC	1.75	2.75	0.312	104	LOW		VITON
RS17527537LNC	1.75	2.75	0.375	104	LOW		NBR
RS17527550LNC	1.75	2.75	0.5	104	LOW		NBR
RS17528737LVC	1.75	2.875	0.375	104	LOW		VITON
RS17528737LNC	1.75	2.875	0.375	104	LOW		NBR
RS17528750LNC	1.75	2.875	0.5	104	LOW		NBR
RS17530037LNC	1.75	3	0.375	104	LOW		NBR
RS17531837LNC	1.75	3.187	0.375	104	LOW		NBR
RS17531850LNC	1.75	3.187	0.5	104	LOW		NBR
RS17539337LNC	1.75	3.937	0.375	104	LOW		NBR
RS17839337LNC	1.781	3.938	0.375	104	LOW		NBR
RS18125037LNC	1.812	2.5	0.375	104	LOW		NBR
RS18126231LNC	1.812	2.625	0.312	207	LOW		NBR
RS18126237LNC	1.812	2.625	0.375	104	LOW		NBR
RS18130037LNC	1.812	3	0.375	104	LOW		NBR
RS18723737LNC	1.875	2.375	0.375	104	LOW		NBR
RS18725037LNC	1.875	2.5	0.375	104	LOW		NBR
RS18726237LNC	1.875	2.625	0.375	104	LOW		NBR
RS18726237LVC	1.875	2.625	0.375	104	LOW		VITON
RS18726243LNC	1.875	2.625	0.437	103	LOW		NBR
RS18726250LNC	1.875	2.625	0.5	103	LOW		NBR
RS18726250LVC	1.875	2.625	0.5	104	LOW		VITON
RS18726837LNC	1.875	2.687	0.375	104	LOW		NBR
RS18727531LNC	1.875	2.75	0.312	104	LOW		NBR
RS18727531LVF	1.875	2.75	0.312		LOW		VITON
RS18727537LNC	1.875	2.75	0.375	104	LOW		NBR
RS18727550LNC	1.875	2.75	0.5	104	LOW		NBR
RS18727550LVC	1.875	2.75	0.5	104	LOW		VITON
RS18728137LNC	1.875	2.812	0.375	104	LOW		NBR
RS18728737LNC	1.875	2.875	0.375	104	LOW		NBR
RS18728743LNC	1.875	2.875	0.437	104	LOW		NBR
RS18728746LNC	1.875	2.875	0.469	104	LOW		NBR
RS18730037LNC	1.875	3	0.375	104	LOW		NBR
RS18730050LNC	1.875	3	0.5	104	LOW		NBR
RS18731237LNC	1.875	3.125	0.375	104	LOW		NBR
RS18731250LNR	1.875	3.125	0.5	104	LOW/RH		NBR
RS19125037LNC	1.915	2.5	0.375	104	LOW		NBR
RS19324631LNC	1.937	2.468	0.312	104	LOW		NBR
RS19324631LVC	1.937	2.469	0.312	104	LOW		NBR
RS19324731HNC	1.937	2.471	0.312	126	HIGH		NBR
RS19325037LNC	1.937	2.5	0.375	104	LOW		NBR
RS19325037LVC	1.937	2.5	0.375	104	LOW		VITON
RS19325050LNC	1.937	2.5	0.5	104	LOW		NBR
RS19326225LNC	1.937	2.625	0.25	104	LOW		NBR
RS19326225LVC	1.937	2.625	0.25	104	LOW		VITON
RS19326231LNC	1.937	2.625	0.312	104	LOW		NBR
RS19326231LVC	1.937	2.625	0.312	104	LOW		VITON
RS19326850LND	1.937	2.687	0.5	135	LOW		NBR
RS19327537LNC	1.937	2.75	0.375	104	LOW		NBR
RS19327537LND	1.937	2.75	0.375	135	LOW		NBR
RS19327537LNR	1.937	2.75	0.375	104	LOW/RH		NBR
RS19327537LVC	1.937	2.75	0.375	104	LOW		VITON
RS19330031LVC	1.937	3	0.312	210	LOW		VITON

ROTARY OIL SEAL

IMPERIAL

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RS19330037LNC	1.937	3	0.375	104	LOW		NBR
RS19330050LNC	1.937	3	0.5	104	LOW		NBR
RS19331250LNC	1.937	3.125	0.5	104	LOW		NBR
RS19627337LNC	1.968	2.733	0.375	104	LOW		NBR
RS20025025LNC	2	2.5	0.25	104	LOW		NBR
RS20025037LNC	2	2.5	0.375	104	LOW		NBR
RS20026237LNC	2	2.625	0.375	210	LOW		NBR
RS20026837LNC	2	2.687	0.375	104	LOW		NBR
RS20026843LNC	2	2.687	0.437	104	LOW		NBR
RS20027525LNC	2	2.75	0.25	103	LOW		NBR
RS20027531LNC	2	2.75	0.312	210	LOW		NBR
RS20027531LVC	2	2.75	0.312	104	LOW		VITON
RS20027537LNC	2	2.75	0.375	210	LOW		NBR
RS20027537LVC	2	2.75	0.375	104	LOW		VITON
RS20027543LNR	2	2.75	0.437	104	LOW/R		NBR
RS20027550LNC	2	2.75	0.5	104	LOW		NBR
RS20028737LNC	2	2.875	0.375	104	LOW		NBR
RS20028750LNC	2	2.875	0.5	104	LOW		NBR
RS20028750LVC	2	2.875	0.5	104	LOW		VITON
RS20030025LNC	2	3	0.25	104	LOW		NBR
RS20030037LNC	2	3	0.375	104	LOW		NBR
RS20030050LNC	2	3	0.5	104	LOW		NBR
RS20030050LNR	2	3	0.5	104	LOW/R		NBR
RS20030050LVC	2	3	0.5	104	LOW		VITON
RS20031250LNC	2	3.125	0.5	104	LOW		NBR
RS20031850LNC	2	3.187	0.5	104	LOW		NBR
RS20033750LNC	2	3.375	0.5	104	LOW		NBR
RS20628737LNC	2.062	2.875	0.375	104	LOW		NBR
RS20630037LNC	2.062	3	0.375	104	LOW		NBR
RS20630037LVC	2.062	3	0.375	104	LOW		VITON
RS20630043LNC	2.062	3	0.437	104	LOW		NBR
RS20630050LNC	2.062	3	0.5	104	LOW		NBR
RS21227537LNC	2.125	2.75	0.375	104	LOW		NBR
RS21228737LNC	2.125	2.875	0.375	104	LOW		NBR
RS21228737LVC	2.125	2.875	0.375	104	LOW		VITON
RS21228750LNC	2.125	2.875	0.5	104	LOW		NBR
RS21230037LNC	2.125	3	0.375	104	LOW		NBR
RS21230050LNC	2.125	3	0.5	104	LOW		NBR
RS21230050LND	2.125	3	0.5	135	LOW		NBR
RS21230650LNC	2.125	3.062	0.5	104	LOW		NBR
RS21231237LNC	2.125	3.125	0.375	104	LOW		NBR
RS21231250LNC	2.125	3.125	0.5	104	LOW		NBR
RS21231825LNC	2.125	3.187	0.25	104	LOW		NBR
RS21231837LNC	2.125	3.187	0.375	104	LOW		NBR
RS21231850LNC	2.125	3.187	0.5	104	LOW		NBR
RS21232537LNC	2.125	3.25	0.375	104	LOW		NBR
RS21233737LNC	2.125	3.375	0.375	104	LOW		NBR
RS21233750LNC	2.125	3.375	0.5		LOW		NBR
RS21235050LNC	2.125	3.5	0.5	104	LOW		NBR
RS21528737LNC	2.156	2.875	0.375	104	LOW		NBR
RS21828737LNC	2.187	2.875	0.375	104	LOW		NBR
RS21830037LNC	2.187	3	0.375	104	LOW		NBR
RS21830650LNC	2.187	3.062	0.5	104	LOW		NBR
RS21832537LNC	2.187	3.25	0.375	103	LOW		NBR
RS21833750LNC	2.187	3.375	0.5	104	LOW		NBR
RS22527537LNC	2.25	2.75	0.375	104	LOW		NBR
RS22527550LNC	2.25	2.75	0.5	104	LOW		NBR
RS22528737LNC	2.25	2.875	0.375	103	LOW		NBR
RS225300375LNR	2.25	3	0.375	104	LOW/RH		NBR
RS22530037LVR	2.25	3	0.375	104	LOW		VITON
RS22530037LVC	2.25	3	0.375	104	LOW		VITON
RS22530037LNC	2.25	3	0.375	104	LOW		NBR
RS22530050LNC	2.25	3	0.5	104	LOW		NBR
RS22531237LNC	2.25	3.125	0.375	104	LOW		NBR
RS22531850LNC	2.25	3.187	0.5	104	LOW		NBR
RS22532525LNC	2.25	3.25	0.25	104	LOW		NBR
RS22532537LNC	2.25	3.25	0.375	104	LOW		NBR
RS22532550LNC	2.25	3.25	0.5	104	LOW		NBR
RS22533737LNC	2.25	3.375	0.375	104	LOW		NBR
RS22533750LNC	2.25	3.375	0.5	104	LOW		NBR
RS22535050LNC	2.25	3.5	0.5	104	LOW		NBR
RS22537550LNC	2.25	3.75	0.5	210	LOW		NBR
RS23131237LNC	2.312	3.125	0.375	104	LOW		NBR
RS23131237LVC	2.312	3.125	0.375	104	LOW		VITON
RS23132550LNC	2.312	3.25	0.5	104	LOW		NBR
RS23133531LNC	2.312	3.35	0.312	104	LOW		NBR
RS23728731LNC	2.375	2.875	0.312	104	LOW		NBR
RS23730037LNC	2.375	3	0.375	104	LOW		NBR
RS23731237LNC	2.375	3.125	0.375	104	LOW		NBR
RS23731237LNL	2.375	3.125	0.375	104	LOW/L		NBR
RS23731237LNR	2.375	3.125	0.375	104	LOW/R		NBR

ROTARY OIL SEAL

IMPERIAL

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RS23731240LNC	2.375	3.125	0.405	104	LOW		NBR
RS23731248LNC	2.375	3.125	0.484	104	LOW		NBR
RS23731250LNC	2.375	3.125	0.5	104	LOW		NBR
RS23732537LNC	2.375	3.25	0.375	104	LOW		NBR
RS23732550LNC	2.375	3.25	0.5	104	LOW		NBR
RS23733737LNC	2.375	3.375	0.375	104	LOW		NBR
RS23733750LNC	2.375	3.375	0.5	104	LOW		NBR
RS23735050HNC	2.375	3.5	0.5	126	HIGH		NBR
RS23735050LNC	2.375	3.5	0.5	104	LOW		NBR
RS23735050LVC	2.375	3.5	0.5	104	LOW		VITON
RS23737475HNC	2.375	3.74	0.75	128	HIGH		NBR
RS24332537LNC	2.437	3.25	0.375	104	LOW		NBR
RS24333750LNC	2.437	3.375	0.5	104	LOW		NBR
RS24335050LNC	2.437	3.5	0.5	104	LOW		NBR
RS25030025LNC	2.5	3	0.25	104	LOW		NBR
RS25030037LNC	2.5	3	0.375	104	LOW		NBR
RS25030037LVC	2.5	3	0.375	104	LOW		VITON
RS25031237LNC	2.5	3.125	0.375	104	LOW		NBR
RS25031837LNC	2.5	3.187	0.375	104	LOW		NBR
RS25032537LNC	2.5	3.25	0.375	104	LOW		NBR
RS25032537LVC	2.5	3.25	0.375	104	LOW		VITON
RS25033431LNC	2.5	3.343	0.312	104	LOW		NBR
RS25033447LNC	2.5	3.346	0.472	104	LOW		NBR
RS25033447LVC	2.5	3.346	0.472	104	LOW		VITON
RS25033737LNC	2.5	3.375	0.375	104	LOW		NBR
RS25033750LNC	2.5	3.375	0.5	104	LOW		NBR
RS25035037LNC	2.5	3.5	0.375	104	LOW		NBR
RS25035050LNC	2.5	3.5	0.5	104	LOW		NBR
RS25035050LVC	2.5	3.5	0.5	104	LOW		VITON
RS25035443LNC	2.5	3.546	0.437	104	LOW		NBR
RS25035443LVC	2.5	3.546	0.437	104	LOW		VITON
RS25035450LNC	2.5	3.562	0.5	104	LOW		NBR
RS25036250LVC	2.5	3.625	0.5	104	LOW		NBR
RS25036250LNC	2.5	3.625	0.5	104	LOW		NBR
RS25037537LNC	2.5	3.75	0.375	104	LOW		NBR
RS25037550HNC	2.5	3.75	0.5	128	HIGH		NBR
RS25037550LNC	2.5	3.75	0.5	104	LOW		NBR
RS25037550LVC	2.5	3.75	0.5	104	LOW		VITON
RS25040050LNC	2.5	4	0.5		LOW		NBR
RS26232537LNC	2.625	3.25	0.375	104	LOW		NBR
RS26233737LNC	2.625	3.375	0.375	104	LOW		NBR
RS26235037LNC	2.625	3.5	0.375	104	LOW		NBR
RS26235446LNC	2.625	3.5	0.469	104	LOW		NBR
RS26235050LNC	2.625	3.5	0.5	104	LOW		NBR
RS26235050LVC	2.625	3.5	0.5	104	LOW		VITON
RS26236237LNC	2.625	3.625	0.375	104	LOW		NBR
RS26236250LNC	2.625	3.625	0.5	104	LOW		NBR
RS26236850LNC	2.625	3.687	0.5	104	LOW		NBR
RS26237537LNC	2.625	3.75	0.375	104	LOW		NBR
RS26237550LNC	2.625	3.75	0.5	104	LOW		NBR
RS26240050LNC	2.625	4	0.5	104	LOW		NBR
RS26835037LNC	2.687	3.5	0.375	104	LOW		NBR
RS26837537HYC	2.687	3.75	0.375		HIGH		
RS26837550LNC	2.687	3.75	0.5	104	LOW		NBR
RS26837550LVC	2.687	3.75	0.5	104	LOW		VITON
RS27532525LNC	2.75	3.25	0.25	104	LOW		NBR
RS27533731LNC	2.75	3.375	0.312	104	LOW		NBR
RS27535037HYC	2.75	3.5	0.375		HIGH		
RS27535037LNC	2.75	3.5	0.375	104	LOW		NBR
RS27535037LVC	2.75	3.5	0.375	104	LOW		VITON
RS27535050LVC	2.75	3.5	0.5	104	LOW		VITON
RS27535050LNC	2.75	3.5	0.5	104	LOW		NBR
RS27536243LVC	2.75	3.625	0.437	104	LOW		VITON
RS27537537LNC	2.75	3.75	0.375	104	LOW		NBR
RS27537537LVC	2.75	3.75	0.375		LOW		VITON
RS27537543LNC	2.75	3.75	0.437	104	LOW		NBR
RS27537550LNC	2.75	3.75	0.5	104	LOW		NBR
RS27537550LVC	2.75	3.75	0.5	104	LOW		VITON
RS27538743LVC	2.75	3.875	0.437	104	LOW		VITON
RS27538750LNC	2.75	3.875	0.5	104	LOW		NBR
RS27540050LNC	2.75	4	0.5	104	LOW		NBR
RS28136237HVC	2.812	3.625	0.375	122	HIGH		VITON
RS28136237LNC	2.812	3.625	0.375	104	LOW		NBR
RS28140037LNC	2.812	4	0.375	104	LOW		NBR
RS28733718LNC	2.875	3.375	0.187	103	LOW		NBR
RS28735031LNC	2.875	3.5	0.312	104	LOW		NBR
RS28736237LNC	2.875	3.625	0.375	104	LOW		NBR
RS28736237LVC	2.875	3.625	0.375	104	LOW		VITON
RS28737518LNC	2.875	3.75	0.187	104	LOW		NBR
RS28737537LNC	2.875	3.75	0.375	104	LOW		NBR
RS28737550LNC	2.875	3.75	0.5	104	LOW		NBR
RS28738750LNC	2.875	3.875	0.5	104	LOW		NBR

ROTARY OIL SEAL

IMPERIAL

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RS28740050LNC	2.875	4	0.5	104	LOW		NBR
RS28740062LNC	2.875	4	0.625	104	LOW		NBR
RS28740068LNC	2.875	4	0.687	104	LOW		NBR
RS29338750LNC	2.937	3.875	0.5	104	LOW		NBR
RS29340050LNC	2.937	4	0.5	104	LOW		NBR
RS29340062LNC	2.937	4	0.625	104	LOW		NBR
RS30037537LVC	3	3.375	0.375	104	LOW		VITON
RS30035037LNC	3	3.5	0.375	104	LOW		NBR
RS30037537LND	3	3.75	0.375	135	LOW		NBR
RS30037537LNC	3	3.75	0.375	104	LOW		NBR
RS30038737LNC	3	3.875	0.375	104	LOW		NBR
RS30040037LNC	3	4	0.375	104	LOW		NBR
RS30040037LVC	3	4	0.375	104	LOW		VITON
RS30040043LNC	3	4	0.437	104	LOW		NBR
RS30040043LVC	3	4	0.437	104	LOW		VITON
RS30040050LNC	3	4	0.5	104	LOW		NBR
RS30040050LVC	3	4	0.5	104	LOW		VITON
RS30041243LVC	3	4.125	0.437	104	LOW		VITON
RS30041250LNC	3	4.125	0.5	104	LOW		NBR
RS30041250LND	3	4.125	0.5	135	LOW		NBR
RS30042550LNC	3	4.25	0.5	103	LOW		NBR
RS30045050LNC	3	4.5	0.5	104	LOW		NBR
RS30637550LNC	3.062	3.75	0.5	104	LOW		NBR
RS30641250LNC	3.062	4.125	0.5	104	LOW		NBR
RS30642550LNC	3.062	4.25	0.5	104	LOW		NBR
RS31238725LNC	3.125	3.875	0.25	104	LOW		NBR
RS31241250LNC	3.125	4.125	0.5	104	LOW		NBR
RS31245050LNC	3.125	4.5	0.5	104	LOW		NBR
RS31247550LNC	3.125	4.75	0.5	104	LOW		NBR
RS31842531LNC	3.187	4.25	0.312	104	LOW		NBR
RS31842550LNC	3.187	4.25	0.5	104	LOW		NBR
RS31847550LNC	3.187	4.75	0.5	104	LOW		NBR
RS32540037LNC	3.25	4	0.375	104	LOW		NBR
RS32540050LNC	3.25	4	0.5	104	LOW		NBR
RS32542550LNA	3.25	4.25	0.5	304	LOW		NBR
RS32542550LNC	3.25	4.25	0.5	104	LOW		NBR
RS32542550LVC	3.25	4.25	0.5	104	LOW		VITON
RS32545050LNC	3.25	4.5	0.5	104	LOW		NBR
RS32545050LVC	3.25	4.5	0.5	104	LOW		VITON
RS32546250LNC	3.25	4.625	0.5	104	LOW		NBR
RS32547537LNC	3.25	4.75	0.375	104	LOW		NBR
RS32550050LNC	3.25	5	0.5	210	LOW		NBR
RS32552550LNC	3.25	5.25	0.5	104	LOW		NBR
RS33142550LNC	3.312	4.25	0.5	104	LOW		NBR
RS33143750LNC	3.312	4.375	0.5	104	LOW		NBR
RS33143750LVC	3.312	4.375	0.5	104	LOW		VITON
RS33150050LNC	3.312	5	0.5	104	LOW		NBR
RS33445150LNC	3.343	4.513	0.5	104	LOW		NBR
RS33738737LNC	3.375	3.875	0.375	104	LOW		NBR
RS33740037LNC	3.375	4	0.375	104	LOW		NBR
RS33742550LNC	3.375	4.25	0.5	104	LOW		NBR
RS33743750LNC	3.375	4.375	0.5	104	LOW		NBR
RS33743750LVC	3.375	4.375	0.5	104	LOW		VITON
RS33745050LNC	3.375	4.5	0.5	104	LOW		NBR
RS33746237LNC	3.375	4.625	0.375		LOW		NBR
RS33746250LNC	3.375	4.625	0.5	104	LOW		NBR
RS33747550LNC	3.375	4.75	0.5	104	LOW		NBR
RS33748750LNC	3.375	4.875	0.5	104	LOW		NBR
RS34342537LNC	3.437	4.25	0.375	104	LOW		NBR
RS34345050LNC	3.437	4.5	0.5	104	LOW		NBR
RS34345062LNC	3.437	4.5	0.625		LOW		NBR
RS34346243LNA	3.437	4.625	0.437	304	LOW		NBR
RS34347550LNC	3.437	4.75	0.5	104	LOW		NBR
RS34347556LNC	3.437	4.75	0.562	104	LOW		NBR
RS35040031LNC	3.5	4	0.312	104	LOW		NBR
RS35041237LNC	3.5	4.125	0.375	103	LOW		NBR
RS35041237LVF	3.5	4.125	0.375		LOW		VITON
RS35041250LNC	3.5	4.125	0.5	104	LOW		NBR
RS35043750LNC	3.5	4.375	0.5	104	LOW		NBR
RS35045037LNC	3.5	4.5	0.375	104	LOW		NBR
RS35045050LVC	3.5	4.5	0.5	104	LOW		VITON
RS35045050HVC	3.5	4.5	0.5	125	HIGH		VITON
RS35045050LNC	3.5	4.5	0.5	104	LOW		NBR
RS35047550LNC	3.5	4.75	0.5	104	LOW		NBR
RS35048491LNX	3.5	4.841	0.919	TM	LOW		NBR
RS35050050LNC	3.5	5	0.5	104	LOW		NBR
RS35052543LNA	3.5	5.25	0.437	303	LOW		NBR
RS36243743LNC	3.625	4.375	0.437	104	LOW		NBR

ROTARY OIL SEAL

IMPERIAL

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RS36245037LNC	3.625	4.5	0.375	104	LOW		NBR
RS36245050LNC	3.625	4.5	0.5	104	LOW		NBR
RS36246250LNC	3.625	4.625	0.5	104	LOW		NBR
RS36248737LNC	3.625	4.875	0.375	212	LOW		NBR
RS36250050LNC	3.625	5	0.5	104	LOW		NBR
RS36847550LNC	3.687	4.75	0.5	104	LOW		NBR
RS36851250LNC	3.687	5.125	0.5	104	LOW		NBR
RS37545037LNC	3.75	4.5	0.375	104	LOW		NBR
RS37545050LNC	3.75	4.5	0.5	104	LOW		NBR
RS37546250LNC	3.75	4.625	0.5	104	LOW		NBR
RS37547550LNC	3.75	4.75	0.5	104	LOW		NBR
RS37550050LNC	3.75	5	0.5	104	LOW		NBR
RS37550050HNC	3.75	5	0.5	121	HIGH		NBR
RS38148750LNC	3.812	4.875	0.5	104	LOW		NBR
RS38747550LNC	3.875	4.75	0.5	104	LOW		NBR
RS38748750LNC	3.875	4.875	0.5	104	LOW		NBR
RS38750050LNC	3.875	5	0.5	104	LOW		NBR
RS38751250LNC	3.875	5.125	0.5	104	LOW		NBR
RS38753750LNC	3.875	5.375	0.5	104	LOW		NBR
RS38756850LNC	3.875	5.687	0.5	104	LOW		NBR
RS38756992LNX	3.875	5.692	0.927	TM	LOW		NBR
RS39350050LNC	3.937	5	0.5	104	LOW		NBR
RS40045025LNC	4	4.5	0.25	104	LOW		NBR
RS40045050LNC	4	4.5	0.5	104	LOW		NBR
RS40047550LNC	4	4.75	0.5	104	LOW		NBR
RS40050031LNC	4	5	0.312	104	LOW		NBR
RS40050037LNC	4	5	0.375	104	LOW		NBR
RS40050043LNC	4	5	0.437	104	LOW		NBR
RS40050043HNC	4	5	0.437	122	HIGH		NBR
RS40050050LNC	4	5	0.5	104	LOW		NBR
RS40050050LVC	4	5	0.5	104	LOW		VITON
RS40052550LVC	4	5.25	0.5	104	LOW		VITON
RS40052550LNC	4	5.25	0.5	104	LOW		NBR
RS40055050LNC	4	5.5	0.5	104	LOW		NBR
RS40056250LNC	4	5.625	0.5	104	LOW		NBR
RS400575106LNX	4	5.75	1.068	TM	LOW		NBR
RS41251250LNC	4.125	5.125	0.5	104	LOW		NBR
RS41255050LNC	4.125	5.5	0.5	104	LOW		NBR

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RS42550050LNC	4.25	5	0.5	103	LOW		NBR
RS42550050LVC	4.25	5	0.5		LOW		VITON
RS42552550LNC	4.25	5.25	0.5	104	LOW		NBR
RS42552550LVC	4.25	5.25	0.5	104	LOW		VITON
RS42553750LNC	4.25	5.375	0.5	104	LOW		NBR
RS42555075LNC	4.25	5.5	0.75	104	LOW		NBR
RS42556243LNC	4.25	5.625	0.437		LOW		NBR
RS42556250LNC	4.25	5.625	0.5	104	LOW		NBR
RS42557550LNC	4.25	5.75	0.5	104	LOW		NBR
RS42560050LNC	4.25	6	0.5	103	LOW		NBR
RS42560097LNX	4.25	6.008	0.974	TM	LOW		NBR
RS43256247LVX	4.328	5.625	0.47		LOW		VITON
RS43753737LND	4.375	5.375	0.375	135	LOW		NBR
RS43753750LNC	4.375	5.375	0.5	104	LOW		NBR
RS43753756LNC	4.375	5.375	0.562	104	LOW		NBR
RS43755043LNX	4.375	5.5	0.437		LOW		NBR
RS44057550LNC	4.375	5.75	0.5	104	LOW		NBR
RS43757550LNC	4.375	5.75	0.5	104	LOW		NBR
RS43760050LNC	4.375	6	0.5	104	LOW		NBR
RS43762556LNC	4.375	6.25	0.562	104	LOW		NBR
RS45052537LNK	4.5	5.25	0.375	103	LOW		NBR
RS45055050LNC	4.5	5.5	0.5	104	LOW		NBR
RS45057537LNX	4.5	5.75	0.375		LOW		NBR
RS45057550LNC	4.5	5.75	0.5	104	LOW		NBR
RS450575100LNX	4.5	5.75	1.006	TM	LOW		NBR
RS45058797LNX	4.5	5.875	0.974	TM	LOW		NBR
RS45060050LNC	4.5	6	0.5	104	LOW		NBR
RS45062550LNA	4.5	6.25	0.5	304	LOW		NBR
RS45063756LNC	4.5	6.375	0.562	104	LOW		NBR
RS45657550LNC	4.562	5.75	0.5	104	LOW		NBR
RS46056250LNC	4.609	5.625	0.5	104	LOW		NBR
RS46255056LNC	4.625	5.5	0.562	104	LOW		NBR
RS46256250LNC	4.625	5.625	0.5	104	LOW		NBR
RS46257550LNC	4.625	5.75	0.5		LOW		NBR
RS46260099LNX	4.625	6	0.99	TM	LOW		NBR
RS47555050LNC	4.75	5.5	0.5	104	LOW		NBR
RS47557550HNC	4.75	5.75	0.5	121	HIGH		NBR
RS47557550LNC	4.75	5.75	0.5	104	LOW		NBR
RS47560050LNC	4.75	6	0.5	104	LOW		NBR

ROTARY OIL SEAL

IMPERIAL

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RS47560062LNC	4.75	6	0.625	104	LOW		NBR
RS47562550LNC	4.75	6.25	0.5	104	LOW		NBR
RS476631111LNX	4.767	6.312	1.115	TM	LOW		NBR
RS48159350LNC	4.812	5.937	0.5	104	LOW		NBR
RS48762556LNC	4.875	6.25	0.562	104	LOW		NBR
RS48766250LNC	4.875	6.625	0.5	104	LOW		NBR
RS48758750LNK	4.875	8.75	0.5	103	LOW		NBR
RS49360050LND	4.937	6	0.5	135	LOW		NBR
RS49360050LVC	4.937	6	0.5		LOW		VITON
RS50057543LNC	5	5.75	0.437	104	LOW		NBR
RS50060050LNC	5	6	0.5	104	LOW		NBR
RS50060050LVC	5	6	0.5	104	LOW		VITON
RS50062550LNC	5	6.25	0.5	104	LOW		NBR
RS50062556LNC	5	6.25	0.562	104	LOW		NBR
RS50065050LNC	5	6.5	0.5	104	LOW		NBR
RS50661250LNC	5.062	6.125	0.5	104	LOW		NBR
RS51261250LNC	5.125	6.125	0.5	104	LOW		NBR
RS51263762LNC	5.125	6.375	0.625	104	LOW		NBR
RS52562550LVC	5.25	6.25	0.5	104	LOW		VITON
RS52562550LNC	5.25	6.25	0.5	104	LOW		NBR
RS52565050LNC	5.25	6.5	0.5	104	LOW		NBR
RS52565056LNC	5.25	6.5	0.562	104	LOW		NBR
RS53763750LNC	5.375	6.375	0.5	104	LOW		NBR
RS54365050LNC	5.437	6.5	0.5	104	LOW		NBR
RS55062550LNC	5.5	6.25	0.5	104	LOW		NBR
RS55065050LNC	5.5	6.5	0.5	104	LOW		NBR
RS55065050LVC	5.5	6.5	0.5	104	LOW		VITON
RS55067575LNC	5.5	6.75	0.75	104	LOW		NBR
RS56265050LNC	5.625	6.5	0.5	104	LOW		NBR
RS57567550LNC	5.75	6.75	0.5	104	LOW		NBR
RS58768750LNC	5.875	6.875	0.5		LOW		NBR
RS68778756LNC	5.875	7.875	0.562	104	LOW		NBR
RS59370050LNC	5.937	7	0.5	104	LOW		NBR

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RS60070050LNC	6	7	0.5	104	LOW		NBR
RS60070050LVC	6	7	0.5	104	LOW		VITON
RS60070062LNC	6	7	0.625	104	LOW		NBR
RS60075050LNC	6	7.5	0.5	104	LOW		NBR
RS60075050LVC	6	7.5	0.5	104	LOW		VITON
RS60075062LNC	6	7.5	0.625	104	LOW		NBR
RS60671250LNC	6.062	7.125	0.5	104	LOW		NBR
RS61271250LNC	6.125	7.125	0.5	104	LOW		NBR
RS62571862LNC	6.25	7.187	0.625	104	LOW		NBR
RS62572550LNC	6.25	7.25	0.5	104	LOW		NBR
RS63773750LNC	6.375	7.375	0.5	104	LOW		NBR
RS65075050LNC	6.5	7.5	0.5	104	LOW		NBR
RS65075050LVC	6.5	7.5	0.5	104	LOW		VITON
RS65077550LNC	6.5	7.75	0.5	104	LOW		NBR
RS65080050LNA	6.5	8	0.5	304	LOW		NBR
RS66276250LNC	6.625	7.625	0.5	104	LOW		NBR
RS67577550LVC	6.75	7.75	0.5	104	LOW		VITON
RS67577550LNC	6.75	7.75	0.5	104	LOW		NBR
RS67580050LNC	6.75	8	0.5	104	LOW		NBR
RS68778750LNC	6.875	7.875	0.5	104	LOW		NBR
RS70080050LNC	7	8	0.5	104	LOW		NBR
RS70085075LNC	7	8.5	0.75	104	LOW		NBR
RS72587556LNC	7.25	8.75	0.562	104	LOW		NBR
RS72587575LNC	7.25	8.75	0.75	104	LOW		NBR
RS73788756LNC	7.375	8.875	0.562	104	LOW		NBR
RS75085062LVA	7.5	8.5	0.625		LOW		VITON
RS75090075LNC	7.5	9	0.75	104	LOW		NBR
RS76291256LNC	7.625	9.125	0.562	104	LOW		NBR
RS76295075LNC	7.625	9.5	0.75	104	LOW		NBR
RS77587543LNC	7.75	8.75	0.437	104	LOW		NBR
RS800900625LNC	8	9	0.625	104	LOW		NBR
RS80095056LNC	8	9.5	0.562	104	LOW		NBR
RS85095050LNC	8.5	9.5	0.5	104	LOW		NBR

ROTARY OIL SEAL

IMPERIAL

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RS85097575LNC	8.5	9.75	0.75	104	LOW		NBR
RS850100075LNC	8.5	10	0.75	104	LOW		NBR
RS900105056LNC	9	10.5	0.562	104	LOW		NBR
RS925112562LNA	9.25	11.25	0.625	304	LOW		NBR
RS925112575LNA	9.25	11.25	0.75	304	LOW		NBR
RS950110056LNC	9.5	10	0.562	104	LOW		NBR
RS950110075LNC	9.5	11	0.75	104	LOW		NBR
RS1000110056LN	10	11	0.562	104	LOW		NBR
RS1000115056LN	10	11.5	0.562	104	LOW		NBR
RS1050123768LN	10.5	12.375	0.687	104	LOW		NBR
RS1075115050LN	10.75	11.5	0.5	104	LOW		NBR
RS1100120065LN	11	12	0.656	104	LOW		NBR
RS1200140075LN	12	14	0.75		LOW		NBR
RS2100230087LN	21	23	0.875	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM00401606LN	4	16	6	104	LOW		NBR
RSM00401607LN	4	16	7	104	LOW		NBR
RSM004501607LN	4.5	16	7	104	LOW		NBR
RSM005015045LN	5	15	4.5	104	LOW		NBR
RSM00501505LV	5	15	5	104	LOW		VITON
RSM00501506LN	5	15	6	104	LOW		NBR
RSM00501507LN	5	15	7	104	LOW		NBR
RSM00501605LV	5	16	5	104	LOW		VITON
RSM00501606LN	5	16	6	104	LOW		NBR
RSM00501607LN	5	16	7	104	LOW		NBR
RSM00501707LN	5	17	7	104	LOW		NBR
RSM00501806LN	5	18	6	104	LOW		NBR
RSM00501807LN	5	18	7	104	LOW		NBR
RSM00501905LV	5	19	5	104	LOW		VITON
RSM00501907LN	5	19	7	104	LOW		NBR
RSM00502207LN	5	22	7	104	LOW		NBR
RSM00601003ZN	6	10	3	137	ZERO		NBR
RSM00601104ZN	6	11	4	101	LOW		NBR
RSM00601202ZN	6	12	2	137	ZERO		NBR
RSM00601504LN	6	15	4	103	LOW		NBR
RSM00601505ZN	6	15	5	101	ZERO		NBR
RSM00601507LN	6	15	7	104	LOW		NBR
RSM00601507LV	6	15	7	104	LOW		VITON
RSM00601605LN	6	16	5	104	LOW		NITRI
RSM00601605LV	6	16	5	104	LOW		VITON
RSM00601606LV	6	16	6	104	LOW		VITON
RSM00601607LN	6	16	7	104	LOW		NBR
RSM00601607LV	6	16	7	104	LOW		VITON
RSM00601608LN	6	16	8	104	LOW		NBR
RSM00601707LN	6	17	7	104	LOW		NBR
RSM00601806LN	6	18	6	104	LOW		NBR
RSM00601807LN	6	18	7	104	LOW		NBR
RSM00601907LN	6	19	7	104	LOW		NBR
RSM00601907LV	6	19	7	104	LOW		VITON
RSM006020055LN	6	20	5.5	104	LOW		NBR
RSM00602006LV	6	20	6	104	LOW		VITON
RSM00602006LN	6	20	6	104	LOW		NBR
RSM00602207LN	6	22	7	104	LOW		NBR
RSM00602207LV	6	22	7	104	LOW		VITON
RSM00603507LN	6	35	7	104	LOW		NBR
RSM00650145LN	6.5	14.5	7	104	LOW		NBR
RSM006802207LN	6.8	22	7	104	LOW		NBR
RSM00701505LV	7	15	5	104	LOW		VITON
RSM00701505LN	7	15	5	104	LOW		NBR
RSM00701607LN	7	16	7	104	LOW		NBR
RSM00701807LN	7	18	7	104	LOW		NBR
RSM00701808LN	7	18	8	104	LOW		NBR
RSM00701907LN	7	19	7	104	LOW		NBR
RSM00702207LN	7	22	7	104	LOW		NBR
RSM00702207LV	7	22	7	104	LOW		VITON
RSM00703107LN	7	31	7	104	LOW		NBR
RSM00801203ZN	8	12	3	137	ZERO		NBR
RSM00801404ZN	8	14	4	137	ZERO		NBR
RSM00801405LN	8	14	5	104	LOW		NBR
RSM00801407LN	8	14	7	104	LOW		NBR
RSM00801505LN	8	15	5	104	LOW		NBR
RSM00801505LV	8	15	5	112	LOW		VITON
RSM00801505ZN	8	15	5	137	ZERO		NBR
RSM00801603ZN	8	16	3	137	ZERO		NBR
RSM00801605LN	8	16	5	104	LOW		NBR
RSM00801606LN	8	16	6	104	LOW		NBR
RSM008016065LN	8	16	6.5	104	LOW		NBR
RSM00801607LV	8	16	7	104	LOW		VITON
RSM00801607LE	8	16	7	104	LOW		EPDM
RSM00801607LN	8	16	7	104	LOW		NBR
RSM008016507H	8	16.5	7	131	HIGH		NBR
RSM008017507LN	8	17.5	7	104	LOW		NBR
RSM00801805LN	8	18	5	104	LOW		NBR
RSM00801805LV	8	18	5	104	LOW		VITON
RSM00801806LN	8	18	6	104	LOW		NBR
RSM00801807LN	8	18	7	104	LOW		NBR
RSM00801807LV	8	18	7	104	LOW		VITON
RSM00801808LN	8	18	8	104	LOW		NITRI
RSM008019045ZN	8	19	4.5	101	ZERO		NBR
RSM00801907LV	8	19	7	104	LOW		VITON
RSM00802007LN	8	20	7	104	LOW		NBR
RSM00802008HN	8	20	8	131	HIGH		NBR
RSM00802106LN	8	21	6	104	LOW		NBR
RSM00802206HN	8	22	6	122	HIGH		NBR
RSM00802206HV	8	22	6	122	HIGH		VITON
RSM00802206LN	8	22	6	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM00802207LN	8	22	7	104	LOW		NBR
RSM00802207LV	8	22	7	104	LOW		VITON
RSM00802208LN	8	22	8	104	LOW		NBR
RSM00802305LN	8	23	5	104	LOW		NBR
RSM00802404ZN	8	24	4	101	ZERO		NBR
RSM00802407LV	8	24	7	104	LOW		VITON
RSM00802407LN	8	24	7	104	LOW		NBR
RSM00802507LN	8	25	7	104	LOW		NBR
RSM00802607LN	8	26	7	104	LOW		NBR
RSM00803407LN	8	34	7	104	LOW		NBR
RSM00803408LN	8	34	8	104	LOW		NBR
RSM008501807H	8.5	18	7	125	HIGH		NBR
RSM00901504ZN	9	15	4	101	LOW		NBR
RSM00901705LN	9	17	5	104	LOW		NBR
RSM00901807LN	9	18	7	104	LOW		NBR
RSM00901905LN	9	19	5	104	LOW		NBR
RSM00902006HN	9	20	6	122	HIGH		NBR
RSM00902007LV	9	20	7	104	LOW		VITON
RSM00902007LN	9	20	7	104	LOW		NBR
RSM00902207LN	9	22	7	104	LOW		NBR
RSM00902207LV	9	22	7	103	LOW		VITON
RSM00902407LN	9	24	7	104	LOW		NBR
RSM00902507LN	9	25	7	104	LOW		NBR
RSM00902607LN	9	26	7	104	LOW		NBR
RSM009028041ZN	9	28	4.1	137	ZERO		NBR
RSM00903007LN	9	30	7	104	LOW		NBR
RSM01001403ZN	10	14	3	137	ZERO		NBR
RSM01001604LN	10	16	4	104	LOW		NBR
RSM01001604LV	10	16	4	104	LOW		VITON
RSM01001605LN	10	16	5	104	LOW/RH		NBR
RSM01001703ZN	10	17	3	137	ZERO		NBR
RSM01001704LN	10	17	4	104	LOW		NBR
RSM01001705LN	10	17	5	104	LOW		NBR
RSM01001707LN	10	17	7	104	LOW		NBR
RSM01001804LN	10	18	4	104	LOW		NBR
RSM01001804LV	10	18	4	104	LOW		VITON
RSM01001805LN	10	18	5	104	LOW		NBR
RSM01001805LV	10	18	5	104	LOW		VITON
RSM01001806LN	10	18	6	104	LOW		NBR
RSM01001806LV	10	18	6	104	LOW		VITON
RSM01001807LN	10	18	7	104	LOW		NBR

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM01001807LV	10	18	7	104	LOW		VITON
RSM01001808LN	10	18	8	104	LOW		NBR
RSM010019052LV	10	19	5.2	207	LOW		VITON
RSM01001907LN	10	19	7	104	LOW		NBR
RSM01001907LV	10	19	7	104	LOW		VITON
RSM01002004LN	10	20	4	104	LOW		NBR
RSM01002005LN	10	20	5	104	LOW		NBR
RSM01002005LV	10	20	5	104	LOW		VITON
RSM01002006LN	10	20	6	103	LOW		NBR
RSM01002006LV	10	20	6	104	LOW		VITON
RSM01002006HV	10	20	6	126	HIGH		VITON
RSM01002006HN	10	20	6	126	HIGH		NBR
RSM01002007LV	10	20	7	104	LOW		VITON
RSM01002007LN	10	20	7	104	LOW		NBR
RSM01002008LN	10	20	8	135	LOW		NBR
RSM01002009LN	10	20	9	104	LOW		NBR
RSM010020095LN	10	20	9.5	104	LOW		NBR
RSM01002104LN	10	21	4	104	LOW		NBR
RSM01002105LN	10	21	5	104	LOW		NBR
RSM01002107LN	10	21	7	104	LOW		NBR
RSM01002203ZN	10	22	3	137	ZERO		NBR
RSM01002204LN	10	22	4	104	LOW		NBR
RSM01002205LN	10	22	5	104	LOW		NBR
RSM01002206HN	10	22	6	122	HIGH		NBR
RSM01002206LN	10	22	6	104	LOW		NBR
RSM01002206LV	10	22	6	104	LOW		VITON
RSM01002207LV	10	22	7	104	LOW		VITON
RSM01002207LN	10	22	7	104	LOW		NBR
RSM01002208LN	10	22	8	104	LOW		NBR
RSM01002308LN	10	23	8	104	LOW		NBR
RSM010023507LN	10	23.5	7	104	LOW		NBR
RSM010023508H	10	23.5	8	126	HIGH		NBR
RSM010023510LN	10	23.5	10	104	LOW		NBR
RSM01002404LN	10	24	4	104	LOW		NBR
RSM01002406LN	10	24	6	104	LOW		NBR
RSM01002407LV	10	24	7	104	LOW		NBR
RSM01002407LN	10	24	7	104	LOW		NBR
RSM01002408LN	10	24	8	104	LOW		NBR
RSM01002505LN	10	25	5	104	LOW		NBR
RSM01002506LN	10	25	6	104	LOW		NBR
RSM01002507LN	10	25	7	104	LOW		NBR
RSM01002507LV	10	25	7	104	LOW		VITON
RSM01002508LN	10	25	8	104	LOW		NBR
RSM01002607LV	10	26	7	104	LOW		VITON

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM01002607HN	10	26	7	122	HIGH		NBR
RSM01002607LN	10	26	7	104	LOW		NBR
RSM01002608LN	10	26	8	104	LOW		NBR
RSM01002707LN	10	27	7	104	LOW		NBR
RSM01002807LN	10	28	7	104	LOW		NBR
RSM01002807LV	10	28	7	104	LOW		VITON
RSM01003007LN	10	30	7	104	LOW		NBR
RSM01003007LV	10	30	7	104	LOW		VITON
RSM01003010LN	10	30	10	104	LOW		NBR
RSM01003207LV	10	32	7	104	LOW		VITON
RSM01003207LN	10	32	7	104	LOW		NBR
RSM01003212HN	10	32	12	131	HIGH		NBR
RSM01003510LN	10	35	10	104	LOW		NBR
RSM01101704LN	11	17	4	104	LOW		NBR
RSM01101705LN	11	17	5	104	LOW		NBR
RSM01101905LV	11	19	5	104	LOW		VITON
RSM01101906LN	11	19	6	104	LOW		NBR
RSM01102106HN	11	21	6	121	HIGH		NBR
RSM01102107LN	11	21	7	104	LOW		NBR
RSM01102108LN	11	21	8	104	LOW		NBR
RSM01102207LV	11	22	7	104	LOW		VITON
RSM01102207HN	11	22	7	122	HIGH		NBR
RSM01102207LN	11	22	7	104	LOW		NBR
RSM01102307LN	11	23	7	104	LOW		NBR
RSM01102407LN	11	24	7	104	LOW		NBR
RSM01102407LV	11	24	7	104	LOW		VITON
RSM01102507LN	11	25	7	104	LOW		NBR
RSM01102507LV	11	25	7	104	LOW		VITON
RSM01102508LN	11	25	8	104	LOW		NBR
RSM01102607LN	11	26	7	104	LOW		NBR
RSM01103006HN	11	30	6	126	HIGH		NBR
RSM011602410LN	11.6	24	10	104	LOW		NBR
RSM011802207H	11.8	22	7	121	HIGH		NBR
RSM01201603ZN	12	16	3	137	ZERO		NBR
RSM01201803N	12	18	3	137	ZERO		NBR
RSM01201803ZN	12	18	3	101	ZERO		NBR
RSM012018045LN	12	18	4.5	104	LOW		NBR
RSM01201805LN	12	18	5	104	LOW		NBR
RSM01201903LN	12	19	3	104	LOW		NBR
RSM01201903ZN	12	19	3	137	ZERO		NBR

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM01201905LN	12	19	5	104	LOW		NBR
RSM01201905LV	12	19	5	104	LOW		VITON
RSM01201907LN	12	19	7	104	LOW		NBR
RSM01202004LN	12	20	4	104	LOW		NBR
RSM01202004LV	12	20	4	104	LOW		VITON
RSM01202005LV	12	20	5	104	LOW		VITON
RSM01202005LN	12	20	5	104	LOW		NBR
RSM01202006LV	12	20	6	104	LOW		VITON
RSM01202006LN	12	20	6	104	LOW		NBR
RSM01202007LN	12	20	7	104	LOW		NBR
RSM01202007LV	12	20	7	104	LOW		VITON
RSM01202008LN	12	20	8	135	LOW		NBR
RSM012020513LV	12	20.5	13	104	LOW		VITON
RSM01202104LN	12	21	4	104	LOW		NBR
RSM01202104LV	12	21	4	104	LOW		VITON
RSM01202105LN	12	21	5	104	LOW		NBR
RSM01202107LN	12	21	7	104	LOW		NBR
RSM01202107LV	12	21	7	104	LOW		VITON
RSM012021306LV	12	21.3	6.7	104	LOW		VITON
RSM01202204LN	12	22	4	104	LOW		NBR
RSM01202205HV	12	22	5	122	HIGH		VITON
RSM01202205LN	12	22	5	104	LOW		NBR
RSM01202205LV	12	22	5	104	LOW		VITON
RSM01202206HN	12	22	6	122	HIGH		NBR
RSM01202206LV	12	22	6	104	LOW		VITON
RSM01202206LN	12	22	6	104	LOW		NBR
RSM01202206HV	12	22	6	122	HIGH		VITON
RSM01202207LN	12	22	7	104	LOW		NBR
RSM01202207LV	12	22	7	104	LOW		VITON
RSM01202208LN	12	22	8	104	LOW		NBR
RSM01202209LN	12	22	9	104	LOW		NBR
RSM012022507LN	12	22.5	7	104	LOW		NBR
RSM01202303ZN	12	23	3	137	ZERO		NBR
RSM01202307LN	12	23	7	104	LOW		NBR
RSM012023507LN	12	23.5	7	104	LOW		NBR
RSM012023508LN	12	23.5	8	104	LOW		NBR
RSM012024045LN	12	24	4.5	104	LOW		NBR
RSM012024045LV	12	24	4.5	104	LOW		VITON
RSM01202405LN	12	24	5	104	LOW		NBR
RSM01202406HN	12	24	6	122	HIGH		NBR
RSM01202407HV	12	24	7	122	HIGH		VITON
RSM01202407LN	12	24	7	104	LOW		NBR
RSM01202407LV	12	24	7	104	LOW		VITON
RSM01202407HN	12	24	7	122	HIGH		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE ROTATION	MATERIAL
RSM01202408LN	12	24	8	104	LOW	NBR
RSM01202408LV	12	24	8	104	LOW	VITON
RSM012025045LN	12	25	4.5	104	LOW	NBR
RSM01202505LN	12	25	5	104	LOW	NBR
RSM01202505LV	12	25	5	104	LOW	VITON
RSM01202506LN	12	25	6	104	LOW	NBR
RSM01202507HN	12	25	7	126	HIGH	NBR
RSM01202507LN	12	25	7	104	LOW	NBR
RSM01202507LV	12	25	7	104	LOW	VITON
RSM01202508LN	12	25	8	104	LOW	NBR
RSM01202510LN	12	25	10	104	LOW	NBR
RSM012025507LN	12	25.5	7	104	LOW	NBR
RSM01202605LN	12	26	5	104	LOW	NBR
RSM01202607LV	12	26	7	104	LOW	VITON
RSM01202607HN	12	26	7	126	HIGH	NBR
RSM01202607LN	12	26	7	104	LOW	NBR
RSM01202608LN	12	26	8	104	LOW	NBR
RSM01202707LN	12	27	7	104	LOW	NBR
RSM01202708LN	12	27	8	104	LOW	NBR
RSM01202805LN	12	28	5	104	LOW	NBR
RSM01202805LV	12	28	5	104	LOW	VITON
RSM01202806LN	12	28	6	104	LOW	NBR
RSM01202807LN	12	28	7	104	LOW	NBR
RSM01202807LV	12	28	7	104	LOW	VITON
RSM01202808LN	12	28	8	104	LOW	NBR
RSM01202810LN	12	28	10	104	LOW	NBR
RSM012028507LN	12	28.5	7	104	LOW	NBR
RSM01203006LN	12	30	6	104	LOW	NBR
RSM01203007LN	12	30	7	104	LOW	NBR
RSM01203007LV	12	30	7	104	LOW	VITON
RSM012030075H	12	30	7.5	122	HIGH	NBR
RSM01203009LN	12	30	9	104	LOW	NBR
RSM01203205LN	12	32	5	104	LOW	NBR
RSM01203207LN	12	32	7	104	LOW	NBR
RSM01203207LV	12	32	7	104	LOW	VITON
RSM01203210LN	12	32	10	104	LOW	NBR
RSM01203407LN	12	34	7	104	LOW	NBR
RSM01203507LN	12	35	7	104	LOW	NBR
RSM01203507LV	12	35	7	104	LOW	VITON
RSM01203707LN	12	37	7	104	LOW	NBR
RSM01204208LN	12	42	8	104	LOW	NBR

RSM01250226HN	12.5	22	6.5	122	HIGH	NBR
RSM01250225LN	12.5	22.5	5.5	104	LOW	NBR

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE ROTATION	MATERIAL
RSM01302005LN	13	20	5	104	LOW	NBR
RSM01302007LN	13	20	7	104	LOW	NBR
RSM01302204LN	13	22	4	104	LOW	NBR
RSM01302205LN	13	22	5	104	LOW	NBR
RSM01302206LN	13	22	6	104	LOW	NBR
RSM01302207LN	13	22	7	104	LOW	NBR
RSM01302207LV	13	22	7	104	LOW	VITON
RSM01302306HN	13	23	6	122	HIGH	NBR
RSM01302407LN	13	24	7	104	LOW	NBR
RSM01302505LN	13	25	5	104	LOW	NBR
RSM01302507LN	13	25	7	104	LOW	NBR
RSM01302605LE	13	26	5	103	LOW	EPDM
RSM01302607LN	13	26	7	104	LOW	NBR
RSM01302607LV	13	26	7	104	LOW	VITON
RSM01302608LN	13	26	8	104	LOW	NBR
RSM01302609LV	13	26	9	104	LOW	VITON
RSM01302609LN	13	26	9	104	LOW	NBR
RSM01302708LN	13	27	8	104	LOW	NBR
RSM01302807LN	13	28	7	104	LOW	NBR
RSM01303007LN	13	30	7	104	LOW	NBR
RSM01303008LN	13	30	8	104	LOW	NBR
RSM01303008LV	13	30	8	104	LOW	VITON
RSM01303507LN	13	35	7	104	LOW	NBR

RSM01402003ZN	14	20	3	101	ZERO	NBR
RSM01402007LN	14	20	7	104	LOW	NBR
RSM01402104LN	14	21	4	104	LOW	NBR
RSM01402107LN	14	21	7	104	LOW	NBR
RSM01402203ZN	14	22	3	137	ZERO	NBR
RSM01402204LN	14	22	4	104	LOW	NBR
RSM01402204LV	14	22	4	104	LOW	VITON
RSM01402205LN	14	22	5	104	LOW	NBR
RSM01402206LN	14	22	6	104	LOW	NBR
RSM01402206HN	14	22	6.5	122	HIGH	NBR
RSM01402207LN	14	22	7	104	LOW	NBR
RSM01402207LV	14	22	7	104	LOW	VITON
RSM01402306LN	14	23	6	104	LOW	NBR
RSM01402307LN	14	23	7	104	LOW	NBR
RSM01402404LN	14	24	4	104	LOW	NBR
RSM01402405LN	14	24	5	104	LOW	NBR
RSM01402406LN	14	24	6	104	LOW	NBR
RSM01402406LV	14	24	6	104	LOW	VITON
RSM01402407LN	14	24	7	104	LOW	NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM01402407LV	14	24	7	104	LOW		VITON
RSM01402407HN	14	24	7	122	HIGH		NBR
RSM01402407HV	14	24	7	122	HIGH		VITON
RSM01402505LN	14	25	5	104	LOW		NBR
RSM01402507LN	14	25	7	104	LOW		NBR
RSM01402507LV	14	25	7	104	LOW		VITON
RSM01402607LN	14	26	7	104	LOW		NBR
RSM01402607LN	14	26	7	135	LOW		NBR
RSM01402607LV	14	26	7	104	LOW		VITON
RSM01402707LN	14	27	7	104	LOW		NBR
RSM01402707LV	14	27	7	104	LOW		VITON
RSM01402805LV	14	28	5	104	LOW		VITON
RSM01402807HN	14	28	7	128	HIGH		NBR
RSM01402807HV	14	28	7	128	HIGH		VITON
RSM01402807LN	14	28	7	104	LOW		NBR
RSM01402807LV	14	28	7	104	LOW		VITON
RSM01402907LN	14	29	7	104	LOW		NBR
RSM01403005LN	14	30	5	104	LOW		NBR
RSM01403007LV	14	30	7	104	LOW		VITON
RSM01403007LN	14	30	7	104	LOW		NBR
RSM01403010LN	14	30	10	104	LOW		NBR
RSM01403207LN	14	32	7	104	LOW		NBR
RSM01403507LN	14	35	7	104	LOW		NBR
RSM01403507LV	14	35	7	104	LOW		VITON
RSM01403508LN	14	35	8	104	LOW		NBR
RSM01403508LV	14	35	8	104	LOW		VITON
RSM01403607LN	14	36	7	104	LOW		NBR
RSM01404010LN	14	40	10	104	LOW		NBR
RSM014803005LN	14.8	30	5	104	LOW		NBR
RSM014803007LN	14.8	30	7.5	104	LOW		NBR
RSM014803010LN	14.8	30	10	104	LOW		NBR
RSM01502103ZN	15	21	3	137	ZERO		NBR
RSM01502104LN	15	21	4	104	LOW		NBR
RSM01502107LN	15	21	7	104	LOW		NBR
RSM01502204LN	15	22	4	104	LOW		NBR
RSM01502205LN	15	22	5	104	LOW		NBR
RSM01502207LN	15	22	7	104	LOW		NBR
RSM01502307LN	15	23	7	104	LOW		NBR
RSM015024045LN	15	24	4.5	104	LOW		NBR
RSM01502405LN	15	24	5	104	LOW		NBR
RSM01502405LV	15	24	5	104	LOW		VITON
RSM01502407HN	15	24	7	122	HIGH		NBR

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM01502407LN	15	24	7	104	LOW		NBR
RSM01502407LV	15	24	7	104	LOW		VITON
RSM01502505LV	15	25	5	104	LOW		VITON
RSM01502505LN	15	25	5	104	LOW		NBR
RSM01502506LV	15	25	6	104	LOW		VITON
RSM01502506LN	15	25	6	104	LOW		NBR
RSM01502506HN	15	25	6	122	HIGH		NBR
RSM01502506HV	15	25	6	122	HIGH		VITON
RSM01502507HN	15	25	7	122	HIGH		NBR
RSM01502507LN	15	25	7	104	LOW		NBR
RSM01502507LV	15	25	7	104	LOW		VITON
RSM015025546LV	15	25.5	4.6	103	LOW		VITON
RSM015026045LN	15	26	4.5	104	LOW		NBR
RSM01502606LV	15	26	6	104	LOW		VITON
RSM01502606LN	15	26	6	104	LOW		NBR
RSM01502607HN	15	26	7	126	HIGH		NBR
RSM01502607LN	15	26	7	104	LOW		NBR
RSM01502607LV	15	26	7	104	LOW		VITON
RSM01502608LN	15	26	8	104	LOW		NBR
RSM01502609LN	15	26	9	104	LOW		NBR
RSM01502707LV	15	27	7	104	LOW		VITON
RSM01502707LN	15	27	7	104	LOW		NBR
RSM01502803ZN	15	28	3	137	ZERO		NBR
RSM01502805LN	15	28	5	104	LOW		NBR
RSM01502806LN	15	28	6	104	LOW		NBR
RSM01502807LN	15	28	7	104	LOW		NBR
RSM01502807LV	15	28	7	104	LOW		VITON
RSM01502808LN	15	28	8	104	LOW		NBR
RSM01502808LV	15	28	8	104	LOW		VITON
RSM01502810LN	15	28	10	104	LOW		NBR
RSM01502907LN	15	29	7	104	LOW		NBR
RSM015030045LV	15	30	4.5	104	LOW		VITON
RSM015030045LN	15	30	4.5	104	LOW		NBR
RSM01503005LN	15	30	5	104	LOW		NBR
RSM01503006LN	15	30	6	104	LOW		NBR
RSM01503006LV	15	30	6	104	LOW		VITON
RSM01503007LV	15	30	7	103	LOW		VITON
RSM01503007LN	15	30	7	104	LOW		NBR
RSM01503007LN	15	30	7	135	LOW		NBR
RSM01503007LV	15	30	7	104	LOW		VITON
RSM01503008LN	15	30	8	104	LOW		NBR
RSM01503008LV	15	30	8	104	LOW		VITON
RSM01503010LN	15	30	10	104	LOW		NBR
RSM01503010LV	15	30	10	104	LOW		VITON

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM01503010MV	15	30	10	128	MEDIUM		VITON
RSM01503205LN	15	32	5	104	LOW		NBR
RSM01503207LV	15	32	7	104	LOW		VITON
RSM01503207HN	15	32	7	122	HIGH		NBR
RSM01503207LN	15	32	7	104	LOW		NBR
RSM01503208LN	15	32	8	104	LOW		NBR
RSM01503209LN	15	32	9	104	LOW		NBR
RSM01503210LN	15	32	10	104	LOW		NBR
RSM01503210LV	15	32	10	104	LOW		VITON
RSM01503306LN	15	33	6	104	LOW		NBR
RSM01503310LN	15	33	10	104	LOW		NBR
RSM01503505LN	15	35	5	104	LOW		NBR
RSM01503505SL	15	35	5	103	LOW		NBR
RSM01503506HN	15	35	6	122	HIGH		NBR
RSM01503506LV	15	35	6	104	LOW		VITON
RSM01503506HV	15	35	6	122	HIGH		VITON
RSM01503506LN	15	35	6	104	LOW		NBR
RSM01503507LN	15	35	7	104	LOW		NBR
RSM01503507LV	15	35	7	104	LOW		VITON
RSM01503508LN	15	35	8	104	LOW		NBR
RSM01503510LN	15	35	10	104	LOW		NBR
RSM01503510LV	15	35	10	104	LOW		VITON
RSM01503607LN	15	36	7	104	LOW		NBR
RSM01503706LN	15	37	6	104	LOW		NBR
RSM01503707LN	15	37	7	104	LOW		NBR
RSM01503707LV	15	37	7	104	LOW		VITON
RSM01503807LN	15	38	7	104	LOW		NBR
RSM01504007LN	15	40	7	104	LOW		NBR
RSM01504008LN	15	40	8	104	LOW		NBR
RSM01504010LN	15	40	10	104	LOW		NBR
RSM01504207LN	15	42	7	104	LOW		NBR
RSM01504208LN	15	42	8	104	LOW		NBR
RSM01504210LN	15	42	10	104	LOW		NBR
RSM01504210LV	15	42	10	104	LOW		VITON
RSM01602203ZN	16	22	3	137	ZERO		NBR
RSM01602204LN	16	22	4	104	LOW		NBR
RSM01602204LV	16	22	4	104	LOW		VITON
RSM01602207LN	16	22	7	104	LOW		NBR
RSM01602403ZN	16	24	3	137	ZERO		NBR
RSM01602403LN	16	24	3	104	LOW		NBR
RSM01602404ZN	16	24	4	101	ZERO		NBR
RSM01602404LV	16	24	4	104	LOW		VITON
RSM01602404LN	16	24	4	104	LOW		NBR

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM01602405LN	16	24	5	104	LOW		NBR
RSM01602405LV	16	24	5	104	LOW		VITON
RSM01602406LN	16	24	6	104	LOW		NBR
RSM016024065LN	16	24	6.5	104	LOW		NBR
RSM01602407LN	16	24	7	104	LOW		NBR
RSM01602407LV	16	24	7	104	LOW		VITON
RSM01602407HN	16	24	7	223	LOW		NBR
RSM01602503ZN	16	25	3	137	ZERO		NBR
RSM01602505LN	16	25	5	104	LOW		NBR
RSM01602506LN	16	25	6	104	LOW		NBR
RSM01602507LN	16	25	7	104	LOW		NBR
RSM01602507LV	16	25	7	104	LOW		VITON
RSM01602510LN	16	25	10	104	LOW		NBR
RSM01602605LN	16	26	5	104	LOW		NBR
RSM01602606LN	16	26	6	104	LOW		NBR
RSM01602607LV	16	26	7	104	LOW		VITON
RSM01602607LN	16	26	7	104	LOW		NBR
RSM01602608LN	16	26	8	104	LOW		NBR
RSM01602612LN	16	26	12	104	LOW		NBR
RSM01602707LN	16	27	7	104	LOW		NBR
RSM01602804LN	16	28	4	104	LOW		NBR
RSM01602807LN	16	28	7	104	LOW		NBR
RSM01602807LV	16	28	7	104	LOW		VITON
RSM01602807LN	16	28	7	135	LOW		NBR
RSM01602807HV	16	28	7	128	HIGH		VITON
RSM01602807HN	16	28	7	122	HIGH		NBR
RSM01602807LN	16	28	7	103	LOW		NBR
RSM01602808LN	16	28	8	104	LOW		NBR
RSM01602808LV	16	28	8	104	LOW		VITON
RSM01602907LN	16	29	7	104	LOW		NBR
RSM016030045LN	16	30	4.5	104	LOW		NBR
RSM016030045LV	16	30	4.5	104	LOW		VITON
RSM01603005HN	16	30	5	122	HIGH		NBR
RSM01603005LN	16	30	5	104	LOW		NBR
RSM01603006LN	16	30	6	104	LOW		NBR
RSM01603007HN	16	30	7	131	HIGH		NBR
RSM01603007LN	16	30	7	104	LOW		NBR
RSM01603007LN	16	30	7	104	LOW		NBR
RSM01603007LV	16	30	7	104	LOW		VITON
RSM01603008LN	16	30	8	104	LOW		NBR
RSM01603010LV	16	30	10	104	LOW		VITON
RSM01603010LN	16	30	10	104	LOW		NBR
RSM01603207LN	16	32	7	104	LOW		NBR
RSM01603207LV	16	32	7	104	LOW		VITON

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM01603208LV	16	32	8	104	LOW		VITON
RSM01603210HN	16	32	10	126	HIGH		NBR
RSM01603210LN	16	32	10	104	LOW		NBR
RSM01603404LN	16	34	4	104	LOW		NBR
RSM01603407LN	16	34	7	104	LOW		NBR
RSM01603506LN	16	35	6	135	LOW		NBR
RSM01603507LN	16	35	7	104	LOW		NBR
RSM01603507LV	16	35	7	104	LOW		VITON
RSM01603510LN	16	35	10	104	LOW		NBR
RSM01603510LV	16	35	10	104	LOW		VITON
RSM01603607LN	16	36	7	104	LOW		NBR
RSM01603707LN	16	37	7	104	LOW		NBR
RSM01603807LN	16	38	7	104	LOW		NBR
RSM01604007LN	16	40	7	104	LOW		NBR
RSM01604010LV	16	40	10	104	LOW		VITON
RSM01604010LN	16	40	10	104	LOW		NBR
RSM01604707LN	16	47	7	104	LOW		NBR
RSM016504012LV	16.5	40	12	BSX	LOW		VITON
RSM01702303ZN	17	23	3	137	ZERO		NBR
RSM01702407LN	17	24	7	104	LOW		NBR
RSM01702503ZN	17	25	3	102	ZERO		NBR
RSM01702504LN	17	25	4	104	LOW		NBR
RSM01702504LV	17	25	4	104	LOW		VITON
RSM01702506LN	17	25	6	104	LOW		NBR
RSM01702507LN	17	25	7	104	LOW		NBR
RSM01702507LV	17	25	7	104	LOW		VITON
RSM01702508LN	17	25	8	104	LOW		NBR
RSM017026045LN	17	26	4.5	104	LOW		NBR
RSM01702606LN	17	26	6	104	LOW		NBR
RSM01702607LN	17	26	7	104	LOW		NBR
RSM01702705LN	17	27	5	104	LOW		NBR
RSM01702706LN	17	27	6	104	LOW		NBR
RSM01702706LV	17	27	6	104	LOW		VITON
RSM01702707LN	17	27	7	104	LOW		NBR
RSM01702707LV	17	27	7	104	LOW		VITON
RSM01702710LN	17	27	10	104	LOW		NBR
RSM01702805LN	17	28	5	104	LOW		NBR
RSM01702805LV	17	28	5	104	LOW		VITON
RSM017028055LN	17	28	5.5	104	LOW		NBR
RSM01702806LN	17	28	6	104	LOW		NBR
RSM017028065H	17	28	6.5	122	HIGH		NBR
RSM01702807LN	17	28	7	104	LOW		NBR

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM01702807LN	17	28	7	104	LOW/RH		NBR
RSM01702807LV	17	28	7	104	LOW		VITON
RSM01702807HN	17	28	7	122	HIGH		NBR
RSM01702808LN	17	28	8	104	LOW		NBR
RSM01702808LN	17	28	8	135	LOW		NBR
RSM017028507LN	17	28.6	7	135	LOW		NBR
RSM017028607LN	17	28.6	7	104	LOW		NBR
RSM01702905LN	17	29	5	104	LOW		NBR
RSM01702907LN	17	29	7	135	LOW		NBR
RSM01702907LN	17	29	7	104	LOW		NBR
RSM01702908LN	17	29	8	104	LOW		NBR
RSM01703004LN	17	30	4	104	LOW		NBR
RSM01703005LN	17	30	5	104	LOW		NBR
RSM01703006HN	17	30	6	122	HIGH		NBR
RSM01703006HV	17	30	6	122	HIGH		NBR
RSM01703006LN	17	30	6	104	LOW		NBR
RSM01703007LSC	17	30	7	104	LOW		SILIC
RSM01703007LV	17	30	7	104	LOW		VITON
RSM01703007LV	17	30	7	135	LOW		VITON
RSM01703007LN	17	30	7	104	LOW		NBR
RSM01703007LN	17	30	7	135	LOW		NBR
RSM01703007HN	17	30	8	128	HIGH		NBR
RSM01703008HN	17	30	8	126	HIGH		NBR
RSM01703008LN	17	30	8	104	LOW		NBR
RSM01703008LV	17	30	8	104	LOW		VITON
RSM01703010LN	17	30	10	104	LOW		NBR
RSM01703010LV	17	30	10	104	LOW		VITON
RSM01703107LN	17	31	7	104	LOW		NBR
RSM01703205LN	17	32	5	104	LOW		NBR
RSM01703205LV	17	32	5	104	LOW		VITON
RSM01703206LN	17	32	6	104	LOW		NBR
RSM01703207LN	17	32	7	104	LOW		NBR
RSM01703207LV	17	32	7	104	LOW		VITON
RSM01703208LN	17	32	8	104	LOW		NBR
RSM01703308LN	17	33	8	104	LOW		NBR
RSM01703404LN	17	34	4	104	LOW		NBR
RSM01703407LN	17	34	7	104	LOW		NBR
RSM017034504LN	17	34.5	4	104	LOW		NBR
RSM01703505LN	17	35	5	104	LOW		NBR
RSM01703505LV	17	35	5	104	LOW		VITON
RSM01703506LN	17	35	6	104	LOW		NBR
RSM01703507HN	17	35	7	122	HIGH		NBR
RSM01703507LN	17	35	7	104	LOW		NBR
RSM01703507LV	17	35	7	104	LOW		VITON

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM01703508LV	17	35	8	104	LOW		VITON
RSM01703508LN	17	35	8	104	LOW		NBR
RSM01703510LN	17	35	10	104	LOW		NBR
RSM01703510LV	17	35	10	104	LOW		VITON
RSM01703607LN	17	36	7	104	LOW		NBR
RSM01703707LN	17	37	7	104	LOW		NBR
RSM01703707LV	17	37	7	104	LOW		VITON
RSM01703710LN	17	37	10	104	LOW		NBR
RSM01703807LN	17	38	7	104	LOW		NBR
RSM01703808LN	17	38	8	104	LOW		NBR
RSM01704005LN	17	40	5	104	LOW		NBR
RSM01704006LN	17	40	6	104	LOW		NBR
RSM01704007LN	17	40	7	104	LOW		NBR
RSM01704007LV	17	40	7	104	LOW		VITON
RSM01704007HN	17	40	7.5	122	HIGH		NBR
RSM01704008LN	17	40	8	104	LOW		NBR
RSM01704010LN	17	40	10	104	LOW		NBR
RSM01704207LN	17	42	7	104	LOW		NBR
RSM01704507LN	17	45	7	104	LOW		NBR
RSM01704707LN	17	47	7	104	LOW		NBR
RSM01704708LN	17	47	8	104	LOW		NBR
RSM01704710LN	17	47	10	104	LOW		NBR
RSM017403007LN	17.4	30	7	104	LOW		NBR
RSM017503207LN	17.5	32	7	104	LOW		NBR
RSM01802403ZN	18	24	3	137	ZERO		NBR
RSM01802404LN	18	24	4	104	LOW		NBR
RSM01802404ZN	18	24	4	137	ZERO		NBR
RSM01802407LN	18	24	7	104	LOW		NBR
RSM019025032ZN	18	25	3.2	137	ZERO		NBR
RSM01802506LN	18	25	6	207	LOW		NBR
RSM01802506LV	18	25	6	104	LOW		VITON
RSM01802507LV	18	25	7	104	LOW		VITON
RSM01802507LN	18	25	7	104	LOW		NBR
RSM01802604ZN	18	26	4	137	ZERO		NBR
RSM01802607LN	18	26	7	104	LOW		NBR
RSM01802707LN	18	27	7	104	LOW		NBR
RSM01802804LN	18	28	4	104	LOW		NBR
RSM01802804LV	18	28	4	104	LOW		VITON
RSM01802806LV	18	28	6	104	LOW		VITON
RSM01802806LN	18	28	6	104	LOW		NBR
RSM01802807LV	18	28	7	104	LOW		VITON

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM01802807LNJ	18	28	7	207	LOW		NBR
RSM01802807HN	18	28	7	104	LOW		NBR
RSM01802807LN	18	28	7	104	LOW		NBR
RSM01802809LN	18	28	9	104	LOW		NBR
RSM01802907LN	18	29	7	104	LOW		NBR
RSM01803005LN	18	30	5	104	LOW		NBR
RSM01803006LV	18	30	6	104	LOW		VITON
RSM01803006HN	18	30	6	122	HIGH		NBR
RSM01803006LN	18	30	6	104	LOW		NBR
RSM01803007HN	18	30	7	122	HIGH		NBR
RSM01803007LN	18	30	7	104	LOW		NBR
RSM01803007LN	18	30	7	135	LOW		NBR
RSM01803007LN	18	30	7	104	LOW/RH		NBR
RSM01803007LV	18	30	7	103	LOW		VITON
RSM01803007SL	18	30	7	103	LOW		NBR
RSM01803008LN	18	30	8	135	LOW		NBR
RSM01803008LN	18	30	8	104	LOW		NBR
RSM01803010LN	18	30	10	104	LOW		NBR
RSM01803010LV	18	30	10	104	LOW		VITON
RSM01803107LN	18	31	7	104	LOW		NBR
RSM01803206HN	18	32	6	122	HIGH		NBR
RSM01803206LN	18	32	6	104	LOW		NBR
RSM01803206LV	18	32	6	104	LOW		VITON
RSM01803207LN	18	32	7	104	LOW		NBR
RSM01803207LV	18	32	7	104	LOW		VITON
RSM01803208LN	18	32	8	104	LOW		NBR
RSM01803208LN	18	32	8	135	LOW		NBR
RSM01803210LN	18	32	10	104	LOW		NBR
RSM01803407LN	18	34	7	104	LOW		NBR
RSM01803506HN	18	35	6	122	HIGH		NBR
RSM01803506HV	18	35	6	122	HIGH		VITON
RSM01803506LN	18	35	6	104	LOW		NBR
RSM01803507LN	18	35	7	104	LOW		NBR
RSM01803507LV	18	35	7	104	LOW		VITON
RSM01803508LN	18	35	8	104	LOW		NBR
RSM01803508LV	18	35	8	104	LOW		VITON
RSM01803508MV	18	35	8	128	MEDIUM		VITON
RSM01803510LN	18	35	10	104	LOW		NBR
RSM01803510LV	18	35	10	104	LOW		VITON
RSM01803607LN	18	36	7	104	LOW		NBR
RSM01803707LN	18	37	7	104	LOW		NBR
RSM01803707LV	18	37	7	104	LOW		VITON
RSM01803708LN	18	37	8	128	LOW		NBR
RSM01803806LN	18	38	6	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM01803807LN	18	38	7	104	LOW		NBR
RSM01804007LN	18	40	7	104	LOW		NBR
RSM01804007LV	18	40	7	104	LOW		VITON
RSM01804008LN	18	40	8	135	LOW		NBR
RSM01804010LN	18	40	10	104	LOW		NBR
RSM01804207LN	18	42	7	104	LOW		NBR
RSM01804508LN	18	45	8	104	LOW		NBR
RSM01804710LN	18	47	10	104	LOW		NBR
RSM01805208LN	18	52	8	104	LOW		NBR
RSM01902704ZN	19	27	4	137	ZERO		NBR
RSM01902705LN	19	27	5	104	LOW		NBR
RSM01902706LN	19	27	6	104	LOW		NBR
RSM019027205H	19	27.2	5	122	HIGH		NBR
RSM01902907LN	19	29	7	104	LOW		NBR
RSM01903006HN	19	30	6	122	HIGH		NBR
RSM01903006LN	19	30	6	104	LOW		NBR
RSM019030065LV	19	30	6.5	104	LOW		VITON
RSM019030065LN	19	30	6.5	104	LOW		NBR
RSM01903007LN	19	30	7	104	LOW		NBR
RSM01903007LV	19	30	7	104	LOW		VITON
RSM01903008LN	19	30	8	104	LOW		NBR
RSM01903008LV	19	30	8	104	LOW		VITON
RSM01903108LN	19	31	8	104	LOW		NBR
RSM01903205LN	19	32	5	104	LOW		NBR
RSM01903206LN	19	32	6	104	LOW		NBR
RSM01903207LN	19	32	7	104	LOW		NBR
RSM01903207LV	19	32	7	104	LOW		VITON
RSM01903207HN	19	32	7	122	HIGH		NBR
RSM01903208LN	19	32	8	104	LOW		NBR
RSM01903208LV	19	32	8	104	LOW		VITON
RSM01903307LN	19	33	7	104	LOW		NBR
RSM019033310LN	19	33.3	10	104	LOW		NBR
RSM01903406LN	19	34	6	104	LOW		NBR
RSM01903407LN	19	34	7	104	LOW		NBR
RSM01903505LN	19	35	5	104	LOW		NBR
RSM01903506HN	19	35	6	126	HIGH		NBR
RSM01903507LN	19	35	7	104	LOW		NBR
RSM01903507LV	19	35	7	104	LOW		VITON
RSM01903508LN	19	35	8	104	LOW		NBR
RSM01903510LN	19	35	10	104	LOW		NBR
RSM01903510LV	19	35	10	104	LOW		VITON
RSM01903607LN	19	36	7	104	LOW		NBR
RSM01903707LN	19	37	7	104	LOW		NBR

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM01903807LV	19	38	7	104	LOW		VITON
RSM01903807LN	19	38	7	104	LOW		NBR
RSM01903810LN	19	38	10	104	LOW		NBR
RSM01904007LN	19	40	7	104	LOW		NBR
RSM01904010LN	19	40	10	104	LOW		NBR
RSM019041508LN	19	41.5	8	104	LOW		NBR
RSM01904207LN	19	42	7	104	LOW		NBR
RSM01904707LN	19	47	7	104	LOW		NBR
RSM01904710LN	19	47	10	104	LOW		NBR
RSM01904711HN	19	47	11	122	HIGH		NBR
RSM01904714LN	19	47	14	135	LOW		NBR
RSM01905208LN	19	52	8	104	LOW		NBR
RSM019803005LN	19.8	30	5	104	LOW		NBR
RSM019803006LN	19.8	30	6	104	LOW		NBR
RSM019803006LV	19.8	30	6	104	LOW		VITON
RSM019840522LN	19.8	52.2	9.5	104	LOW		NBR
RSM02002604LN	20	26	4	104	LOW		NBR
RSM02002604LV	20	26	4	104	LOW		VITON
RSM02002604N	20	26	4	137	ZERO		NBR
RSM02002605LN	20	26	5	104	LOW		NBR
RSM02002705LN	20	27	5	104	LOW		NBR
RSM02002804LN	20	28	4	104	LOW		NBR
RSM02002804LV	20	28	4	104	LOW		VITON
RSM02002804ZN	20	28	4	101	ZERO		NBR
RSM020028045LN	20	28	4.5	104	LOW		NBR
RSM02002805LN	20	28	5	104	LOW		NBR
RSM02002806LN	20	28	6	104	LOW		NBR
RSM02002806LV	20	28	6	104	LOW		VITON
RSM02002807LN	20	28	7	104	LOW		NBR
RSM02002807LV	20	28	7	104	LOW		VITON
RSM02002907LN	20	29	7	104	LOW		NBR
RSM02003004ZN	20	30	4	137	ZERO		NBR
RSM02003004ZN	20	30	4	137	ZERO		NBR
RSM02003004LN	20	30	4	104	LOW		NBR
RSM020030045LV	20	30	4.5	104	LOW		VITON
RSM020030045LN	20	30	4.5	104	LOW		NBR
RSM02003005LN	20	30	5	104	LOW		NBR
RSM02003005LV	20	30	5	104	LOW		VITON
RSM02003005LV	20	30	5	103	LOW		VITON
RSM02003005HN	20	30	5	122	HIGH		NBR
RSM02003006HN	20	30	6	122	HIGH		NBR
RSM02003006LN	20	30	6	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM02003007LN	20	30	7	104	LOW		NBR
RSM02003007LN	20	30	7	135	LOW		NBR
RSM02003007HN	20	30	7	122	HIGH		NBR
RSM02003007LV	20	30	7	104	LOW		VITON
RSM02003007HV	20	30	7	128	HIGH		VITON
RSM02003008LN	20	30	8	104	LOW		NBR
RSM02003008LV	20	30	8	104	LOW		VITON
RSM02003009LN	20	30	9	104	LOW		NBR
RSM02003010LN	20	30	10	104	LOW		NBR
RSM02003105LN	20	31	5	104	LOW		NBR
RSM02003106LN	20	31	6	104	LOW		NBR
RSM02003107LN	20	31	7	104	LOW		NBR
RSM02003204LV	20	32	4	212	LOW		VITON
RSM02003205LN	20	32	5	104	LOW		NBR
RSM02003205LV	20	32	5	104	LOW		VITON
RSM02003205HN	20	32	5	122	HIGH		NBR
RSM02003206HN	20	32	6	126	HIGH		NBR
RSM02003206HV	20	32	6	122	HIGH		VITON
RSM02003206LN	20	32	6	104	LOW		NBR
RSM02003207LN	20	32	7	104	LOW		NBR
RSM02003207LN	20	32	7	135	LOW		NBR
RSM02003207LV	20	32	7	104	LOW		VITON
RSM02003207HN	20	32	7	122	HIGH		NBR
RSM02003207HV	20	32	7	122	HIGH		VITON
RSM020032074LN	20	32	7.4	104	LOW		NBR
RSM02003208LN	20	32	8	104	LOW		NBR
RSM02003208LV	20	32	8	104	LOW		VITON
RSM02003210LN	20	32	10	104	LOW		NBR
RSM02003307LN	20	33	7	104	LOW		NBR
RSM02003310LV	20	33	10	104	LOW		VITON
RSM02003407LN	20	34	7	104	LOW		NBR
RSM02003408LN	20	34	8	104	LOW		NBR
RSM02003410LN	20	34	10	1	LOW		NBR
RSM02003505LN	20	35	5	104	LOW		NBR
RSM020035055LN	20	35	5.5	104	LOW		NBR
RSM02003506LV	20	35	6	104	LOW		VITON
RSM02003506HN	20	35	6	122	HIGH		NBR
RSM02003506HV	20	35	6	122	HIGH		VITON
RSM02003506LN	20	35	6	104	LOW		NBR
RSM02003507LV	20	35	7	104	LOW		VITON
RSM02003507LN	20	35	7	104	LOW		NBR
RSM02003507HN	20	35	7	131	HIGH		NBR
RSM02003508LN	20	35	8	104	LOW		NBR
RSM02003508LN	20	35	8		LOW		NBR

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM02003508LV	20	35	8	104	LOW		VITON
RSM02003510LV	20	35	10	104	LOW		VITON
RSM02003510HV	20	35	10	128	HIGH		VITON
RSM02003510LN	20	35	10	104	LOW		NBR
RSM02003513LN	20	35	13	104	LOW		NBR
RSM02003607LV	20	36	7	104	LOW		VITON
RSM02003607LN	20	36	7	104	LOW		NBR
RSM02003608LV	20	36	8	104	LOW		VITON
RSM02003610HN	20	36	10	131	HIGH		NBR
RSM02003610LN	20	36	10	135	LOW		NBR
RSM02003706LV	20	37	6	104	LOW		VITON
RSM02003707HN	20	37	7	122	HIGH		NBR
RSM02003707LV	20	37	7	104	LOW		VITON
RSM02003707LN	20	37	7	104	LOW		NBR
RSM02003708LN	20	37	8	104	LOW		NBR
RSM02003708LV	20	37	8	104	LOW		VITON
RSM02003710LN	20	37	10	104	LOW		NBR
RSM02003805LN	20	38	5	104	LOW		NBR
RSM02003805LV	20	38	5	104	LOW		VITON
RSM02003807LN	20	38	7	104	LOW		NBR
RSM02003807LV	20	38	7	104	LOW		VITON
RSM02003808LN	20	38	8	104	LOW		NBR
RSM02003810LN	20	38	10	104	LOW		NBR
RSM02003818LN	20	38	18	135	LOW		NBR
RSM02004006LV	20	40	6	104	LOW		VITON
RSM02004007LV	20	40	7	104	LOW		VITON
RSM02004007HN	20	40	7	128	HIGH		NBR
RSM02004007LN	20	40	7	104	LOW		NBR
RSM02004007LN	20	40	7	135	LOW		NBR
RSM02004008LV	20	40	8	104	LOW		VITON
RSM02004008LN	20	40	8	104	LOW		NBR
RSM02004010LN	20	40	10	104	LOW		NBR
RSM02004010LV	20	40	10	104	LOW		VITON
RSM02004011LN	20	40	11	104	LOW		NBR
RSM02004107LN	20	41	7	104	LOW		NBR
RSM020042055H	20	42	5.5	123	MEDIUM		NBR
RSM02004206LN	20	42	6	104	LOW		NBR
RSM02004207HN	20	42	7	122	HIGH		NBR
RSM02004207LN	20	42	7	104	LOW		NBR
RSM02004207LV	20	42	7	104	LOW		VITON
RSM02004208LN	20	42	8	104	LOW		NBR
RSM02004208LV	20	42	8	104	LOW		VITON
RSM02004210LN	20	42	10	104	LOW		NBR
RSM02004210LV	20	42	10	104	LOW		VITON

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM02004212LN	20	42	12	104	LOW		NBR
RSM02004407LN	20	44	7	104	LOW		NBR
RSM02004507LN	20	45	7	104	LOW		NBR
RSM02004507LV	20	45	7	104	LOW		VITON
RSM02004508LN	20	45	8	104	LOW		NBR
RSM02004508LV	20	45	8	104	LOW		VITON
RSM02004510LN	20	45	10	104	LOW		NBR
RSM02004510LV	20	45	10	104	LOW		VITON
RSM02004707LN	20	47	7	104	LOW		NBR
RSM02004707LV	20	47	7	104	LOW		VITON
RSM02004708LN	20	47	8	104	LOW		NBR
RSM02004710LN	20	47	10	104	LOW		NBR
RSM02004710LV	20	47	10	104	LOW		VITON
RSM020047127LN	20	47.1	12.7	104	LOW		NBR
RSM02004807LN	20	48	7	104	LOW		NBR
RSM02004807LV	20	48	7	104	LOW		VITON
RSM02005007LN	20	50	7	104	LOW		NBR
RSM02005008LN	20	50	8	104	LOW		NBR
RSM02005012LN	20	50	12	104	LOW		NBR
RSM02005206LN	20	52	6	104	LOW		NBR
RSM02005207LV	20	52	7	104	LOW		VITON
RSM02005207LN	20	52	7	104	LOW		NBR
RSM020052075H	20	52	7.5	122	HIGH		NBR
RSM02005208LN	20	52	8	104	LOW		NBR
RSM02005208LV	20	52	8	104	LOW		VITON
RSM02005209LN	20	52	9	104	LOW		NBR
RSM02005210LN	20	52	10	104	LOW		NBR
RSM02005210LV	20	52	10	104	LOW		VITON
RSM02005407LN	20	54	7	104	LOW		NBR
RSM02005510LN	20	55	10	104	LOW		NBR
RSM02006210LN	20	62	10	104	LOW		NBR
RSM020650337LN	20.7	33.7	8.7	104	LOW		NBR
RSM021030065LV	21	30	6.5	104	LOW		VITON
RSM02103107LN	21	31	7	104	LOW		NBR
RSM02103205LN	21	32	5	104	LOW		NBR
RSM02103207LV	21	32	7	104	LOW		VITON
RSM02103307LN	21	33	7	104	LOW		NBR
RSM02103308HN	21	33	8	122	HIGH		NBR
RSM02103504LN	21	35	4	104	LOW		NBR
RSM02103507LN	21	35	7	104	LOW		NBR
RSM02103508LN	21	35	8	104	LOW		NBR
RSM02103513LN	21	35	13	104	LOW		NBR
RSM02103808HN	21	38	8	122	HIGH		NBR
RSM02104007LN	21	40	7	104	LOW		NBR
RSM02104007LN	21	40	7	135	LOW		NBR
RSM02104007LV	21	40	7	104	LOW		VITON
RSM02202804ZN	22	28	4	101	ZERO		NBR
RSM02202904LN	22	29	4	137	ZERO		NBR
RSM02202904ZN	22	29	4	137	ZERO		NBR
RSM02203004LN	22	30	4	104	LOW		NBR
RSM02203004LV	22	30	4	104	LOW		VITON
RSM02203004ZN	22	30	4	137	ZERO		NBR
RSM02203006LN	22	30	6	104	LOW		NBR
RSM02203007LN	22	30	7	104	LOW		NBR
RSM02203007LV	22	30	7	104	LOW		VITON
RSM02203105LN	22	31	5	104	LOW		NBR
RSM02203204LN	22	32	4	103	LOW		NBR
RSM022032045LN	22	32	4.5	104	LOW		NBR
RSM02203205LN	22	32	5	104	LOW		NBR
RSM02203205LV	22	32	5	104	LOW		VITON
RSM022032055LN	22	32	5.5	104	LOW		NBR
RSM02203206LV	22	32	6	104	LOW		VITON
RSM02203206HN	22	32	6	122	HIGH		NBR
RSM02203206HV	22	32	6	122	HIGH		VITON
RSM02203206LN	22	32	6	104	LOW		NBR
RSM02203207LV	22	32	7	104	LOW		VITON
RSM02203207LN	22	32	7	103	LOW		NBR
RSM02203207LN	22	32	7	135	LOW		NBR
RSM02203207LN	22	32	7	104	LOW		NBR
RSM02203207HN	22	32	7	121	HIGH		NBR
RSM02203207HV	22	32	7	128	HIGH		VITON
RSM02203208LN	22	32	8	104	LOW		NBR
RSM02203306LN	22	33	6	104	LOW		NBR
RSM02203307LN	22	33	7	104	LOW		NBR
RSM02203405LN	22	34	5	104	LOW		NBR
RSM02203406LN	22	34	6	104	LOW		NBR
RSM022034065LN	22	34	6.5	104	LOW		NBR
RSM022034065LV	22	34	6.5	104	LOW		VITON
RSM02203407HN	22	34	7	126	HIGH		NBR
RSM02203407LN	22	34	7	104	LOW		NBR
RSM02203408LN	22	34	8	104	LOW		NBR
RSM02203410LN	22	34	10	135	LOW		NBR
RSM02203410LN	22	34	10	104	LOW		NBR
RSM02203505LN	22	35	5	104	LOW		NBR
RSM022035055LN	22	35	5.5	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM02203506HV	22	35	6	122	HIGH		VITON
RSM02203506LN	22	35	6	104	LOW		NBR
RSM02203506LV	22	35	6	104	LOW		VITON
RSM022035065LN	22	35	6.5	104	LOW		NBR
RSM02203506HN	22	35	6.5	122	HIGH		NBR
RSM02203507LV	22	35	7	104	LOW		VITON
RSM02203507LN	22	35	7	135	LOW		NBR
RSM02203507LN	22	35	7	104	LOW		NBR
RSM02203508LV	22	35	8	104	LOW		VITON
RSM02203508LN	22	35	8	104	LOW		NBR
RSM02203509LN	22	35	9	104	LOW		NBR
RSM02203510LN	22	35	10	104	LOW		NBR
RSM02203510LV	22	35	10	104	LOW		VITON
RSM022035307LN	22	35.2	7	104	LOW		NBR
RSM02203605LN	22	36	5	104	LOW		NBR
RSM02203606HN	22	36	6	121	HIGH		NBR
RSM02203606LN	22	36	6	104	LOW		NBR
RSM02203607LN	22	36	7	104	LOW		NBR
RSM02203608LN	22	36	8	104	LOW		NBR
RSM02203707LN	22	37	7	104	LOW		NBR
RSM02203711HN	22	37	11.5	131	HIGH		NBR
RSM02203805LN	22	38	5	104	LOW		NBR
RSM02203806LN	22	38	6	104	LOW		NBR
RSM02203807LV	22	38	7	104	LOW		VITON
RSM02203807LN	22	38	7	104	LOW		NBR
RSM02203808LN	22	38	8	104	LOW		NBR
RSM02203810LN	22	38	10	104	LOW		NBR
RSM02203906LN	22	39	6	104	LOW		NBR
RSM02203908LN	22	39	8	104	LOW		NBR
RSM02204005LV	22	40	5	104	LOW		VITON
RSM02204006HN	22	40	6	122	HIGH		NBR
RSM02204007LV	22	40	7	104	LOW		VITON
RSM02204007SL	22	40	7	207	LOW		NBR
RSM02204007LN	22	40	7	104	LOW		NBR
RSM02204007HN	22	40	7	122	HIGH		NBR
RSM02204008LN	22	40	8	104	LOW		NBR
RSM02204010LN	22	40	10	104	LOW		NBR
RSM02204010LV	22	40	10	104	LOW		VITON
RSM022041207LN	22	41.3	7	104	LOW		NBR
RSM022041207LV	22	41.3	7	104	LOW		VITON
RSM02204207LN	22	42	7	104	LOW		NBR
RSM02204207LV	22	42	7	104	LOW		VITON
RSM02204208LN	22	42	8	104	LOW		NBR
RSM02204208LV	22	42	8	104	LOW		VITON

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM02204210LN	22	42	10	104	LOW		NBR
RSM02204210LV	22	42	10	304	LOW		VITON
RSM02204210LV	22	42	10	104	LOW		VITON
RSM02204211HN	22	42	11	126	HIGH		NBR
RSM02204211LN	22	42	11	104	LOW		NBR
RSM02204212LN	22	42	12	104	LOW		NBR
RSM022042508LN	22	42.5	8	104	LOW		NBR
RSM02204308LN	22	43	8	104	LOW		NBR
RSM02204407LN	22	44	7	104	LOW		NBR
RSM02204411LN	22	44	11	104	LOW		NBR
RSM02204507LN	22	45	7	104	LOW		NBR
RSM02204507LV	22	45	7	104	LOW		VITON
RSM02204508LN	22	45	8	104	LOW		NBR
RSM02204707LN	22	47	7	104	LOW		NBR
RSM02204707LV	22	47	7	104	LOW		VITON
RSM02204710LN	22	47	10	104	LOW		NBR
RSM02204807LN	22	48	7	104	LOW		NBR
RSM02205010LN	22	50	10	104	LOW		NBR
RSM02205208LN	22	52	8	104	LOW		NBR
RSM02205210LN	22	52	10	104	LOW		NBR
RSM02205607LN	22	56	7	104	LOW		NBR
RSM02206212LN	22	62	12	104	LOW		NBR
RSM02303005LN	23	30	5	104	LOW		NBR
RSM02303207LN	23	32	7	104	LOW		NBR
RSM02303207LV	23	32	7	104	LOW		VITON
RSM02303408LN	23	34	8	104	LOW/LH		NBR
RSM02303506LN	23	35	6	104	LOW		NBR
RSM02303507LN	23	35	7	104	LOW		NBR
RSM02303607LN	23	36	7	104	LOW		NBR
RSM02303807LN	23	38	7	104	LOW		NBR
RSM02304005LN	23	40	5	104	LOW		NBR
RSM02304006LN	23	40	6	104	LOW		NBR
RSM02304006LV	23	40	6	104	LOW		VITON
RSM02304007LN	23	40	7	104	LOW		NBR
RSM02304008LV	23	40	8	104	LOW		VITON
RSM02304010LN	23	40	10	104	LOW		NBR
RSM02304210LN	23	42	10	104	LOW		NBR
RSM02304307LN	23	43	7	104	LOW		NBR
RSM02304707LN	23	47	7	104	LOW		NBR
RSM02304710LN	23	47	10	104	LOW		NBR
RSM02305211LN	23	52	11	104	LOW		NBR
RSM02305507LN	23	55	7	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM02403204LV	24	32	4	104	LOW		VITON
RSM02403204ZN	24	32	4	137	LOW		NBR
RSM02403204LN	24	32	4	104	LOW		NBR
RSM024032055LV	24	32	5.5	103	LOW/RH		VITON
RSM02403207LN	24	32	7	104	LOW		NBR
RSM02403305LN	24	33	5	104	LOW		NBR
RSM02403307LN	24	33	7	104	LOW		NBR
RSM02403407LN	24	34	7	104	LOW		NBR
RSM024035055LN	24	35	5.5	104	LOW		NBR
RSM024035055LV	24	35	5.5	104	LOW		VITON
RSM02403506LN	24	35	6	104	LOW		NBR
RSM02403506LV	24	35	6	104	LOW		VITON
RSM02403507LN	24	35	7	104	LOW		NBR
RSM02403507LV	24	35	7	104	LOW		VITON
RSM02403507SL	24	35	7	103	LOW		NBR
RSM02403508LN	24	35	8	104	LOW		NBR
RSM02403606LN	24	36	6	123	LOW		NBR
RSM02403607LV	24	36	7	104	LOW		VITON
RSM02403607HN	24	36	7	126	HIGH		NBR
RSM02403607LN	24	36	7	104	LOW		NBR
RSM02403608LN	24	36	8	104	LOW		NBR
RSM02403707LN	24	37	7	104	LOW		NBR
RSM024037081LN	24	37	8.1	104	LOW		NBR
RSM02403805LN	24	38	5	104	LOW		NBR
RSM02403807LN	24	38	7	104	LOW		NBR
RSM02403808LN	24	38	8	104	LOW		NBR
RSM02403808LV	24	38	8	104	LOW		VITON
RSM02403810LN	24	38	10	104	LOW		NBR
RSM024038510LN	24	38.5	10	104	LOW		NBR
RSM02404006HV	24	40	6	122	HIGH		VITON
RSM02404006HN	24	40	6	122	HIGH		NBR
RSM02404007HN	24	40	7	122	HIGH		NBR
RSM02404007LN	24	40	7	104	LOW		NBR
RSM02404007LV	24	40	7	104	LOW		VITON
RSM02404008HN	24	40	8	122	HIGH		NBR
RSM02404008LN	24	40	8	104	LOW		NBR
RSM02404008LV	24	40	8	104	LOW		VITON
RSM02404010LN	24	40	10	104	LOW		NBR
RSM024041115H	24	41	11.5	122	HIGH		NBR
RSM02404206HN	24	42	6	122	HIGH		NBR
RSM02404207LN	24	42	7	104	LOW		NBR
RSM02404207LV	24	42	7	104	LOW		VITON
RSM02404208LN	24	42	8	104	LOW		NBR
RSM02404208LV	24	42	8	104	LOW		VITON

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM02404210LN	24	42	10	104	LOW		NBR
RSM02404210LN	24	42	10	135	LOW		NBR
RSM02404305HN	24	43	5	125	HIGH		NBR
RSM02404306LN	24	43	6	104	LOW		NBR
RSM02404507LN	24	45	7	104	LOW		NBR
RSM02404510LN	24	45	10	104	LOW		NBR
RSM02404607LN	24	46	7	104	LOW		NBR
RSM02404610LN	24	46	10	104	LOW		NBR
RSM02404707LN	24	47	7	104	LOW		NBR
RSM02404708LN	24	47	8	104	LOW		NBR
RSM02404710LN	24	47	10	104	LOW		NBR
RSM02404710LV	24	47	10	104	LOW		VITON
RSM02404807LN	24	48	7	104	LOW		NBR
RSM02405010LN	24	50	10	104	LOW		NBR
RSM02405107LN	24	51	7	104	LOW		NBR
RSM02405207LN	24	52	7	104	LOW		NBR
RSM02405207LV	24	52	7	104	LOW		VITON
RSM02405208LN	24	52	8	104	LOW		NBR
RSM02405210LN	24	52	10	104	LOW		NBR
RSM02405211LN	24	52	11	104	LOW		NBR
RSM02405510LN	24	55	10	104	LOW		NBR
RSM02406207LN	24	62	7	104	LOW		NBR
RSM02406210LN	24	62	10	104	LOW		NBR
RSM02407808LN	24	78	8	104	LOW		NBR
RSM024605202LN	24.6	52	9.5	104	LOW		NBR
RSM024615217LN	24.6	52.2	9.5	104	LOW		NBR
RSM02503204LN	25	32	4	104	LOW		NBR
RSM02503204LV	25	32	4	104	LOW		VITON
RSM02503204ZN	25	32	4	137	ZERO		NBR
RSM02503205LN	25	32	5	104	LOW		NBR
RSM02503205LV	25	32	5	104	LOW		VITON
RSM02503206LN	25	32	6	104	LOW		NBR
RSM02503206LV	25	32	6	104	LOW		VITON
RSM02503207LN	25	32	7	104	LOW		NBR
RSM02503207LV	25	32	7	104	LOW		VITON
RSM02503304ZN	25	33	4	137	ZERO		NBR
RSM02503304ZN	25	33	4	137	ZERO		NBR
RSM02503304LN	25	33	4	104	LOW		NBR
RSM02503304LV	25	33	4	104	LOW		VITON
RSM02503306LN	25	33	6	104	LOW		NBR
RSM02503306LV	25	33	6	103	LOW		VITON
RSM02503405LN	25	34	5	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE ROTATION	MATERIAL
RSM025034065H	25	34	6.5	131	HIGH	NBR
RSM02503407LN	25	34	7	104	LOW	NBR
RSM02503504LN	25	35	4	104	LOW	NBR
RSM02503504ZN	25	35	4	137	ZERO	NBR
RSM02503505LV	25	35	5	104	LOW	VITON
RSM02503505LN	25	35	5	104	LOW	NBR
RSM02503506HN	25	35	6	122	HIGH	NBR
RSM02503506HV	25	35	6	122	HIGH	VITON
RSM02503506LN	25	35	6	104	LOW	NBR
RSM02503506LN	25	35	6	104	LOW/RH	NBR
RSM02503506LV	25	35	6	104	LOW	VITON
RSM02503507LN	25	35	7	135	LOW	NBR
RSM02503507LV	25	35	7	104	LOW	VITON
RSM02503507SL	25	35	7	103	LOW	NBR
RSM02503507LN	25	35	7	104	LOW	NBR
RSM02503508LN	25	35	8	104	LOW	NBR
RSM02503508LN	25	35	8	135	LOW	NBR
RSM02503508LV	25	35	8	104	LOW	VITON
RSM02503509LV	25	35	9	104	LOW	VITON
RSM02503510LN	25	35	10	104	LOW	NBR
RSM02503510LV	25	35	10	104	LOW	VITON
RSM02503606HN	25	36	6	122	HIGH	NBR
RSM02503606LN	25	36	6	104	LOW	NBR
RSM02503606LV	25	36	6	104	LOW	VITON
RSM02503607LN	25	36	7	104	LOW	NBR
RSM02503607LV	25	36	7	104	LOW	VITON
RSM02503608LN	25	36	8	104	LOW	NBR
RSM02503609LN	25	36	9	104	LOW	NBR
RSM02503609LV	25	36	9	104	LOW	VITON
RSM02503704ZN	25	37	4	102	ZERO	NBR
RSM02503705LN	25	37	5	104	LOW	NBR
RSM02503706LN	25	37	6	135	LOW	NBR
RSM02503706LV	25	37	6	104	LOW	VITON
RSM02503706LN	25	37	6	104	LOW	NBR
RSM02503706HN	25	37	6.5	122	HIGH	NBR
RSM02503707LN	25	37	7	104	LOW	NBR
RSM02503707LV	25	37	7	104	LOW	VITON
RSM02503708LN	25	37	8	104	LOW	NBR
RSM02503805LN	25	38	5	104	LOW	NBR
RSM02503806LN	25	38	6	104	LOW	NBR
RSM02503806LN	25	38	6	104	LOW/RH	NBR
RSM02503807LN	25	38	7	104	LOW	NBR
RSM02503807LV	25	38	7	104	LOW	VITON
RSM02503807HN	25	38	7	126	HIGH	NBR

PART #	ID	OD	HT	PROFILE	PRESSURE ROTATION	MATERIAL
RSM02503808LN	25	38	8	104	LOW	NBR
RSM02503808LN	25	38	8	135	LOW	NBR
RSM02503810LN	25	38	10	104	LOW	NBR
RSM02503907LN	25	39	7	104	LOW	NBR
RSM02504005LN	25	40	5	104	LOW	NBR
RSM02504005LV	25	40	5	104	LOW	VITON
RSM02504006LN	25	40	6	104	LOW	NBR
RSM02504007HN	25	40	7	122	HIGH	NBR
RSM02504007HV	25	40	7	122	HIGH	VITON
RSM02504007LN	25	40	7	104	LOW	NBR
RSM02504007LV	25	40	7	104	LOW	VITON
RSM025040075LN	25	40	7.5	104	LOW	NBR
RSM02504008HV	25	40	8	128	HIGH	VITON
RSM02504008LV	25	40	8	104	LOW	VITON
RSM02504008LN	25	40	8	104	LOW	NBR
RSM02504008HN	25	40	8	128	HIGH	NBR
RSM02504008LN	25	40	8	135	LOW	NBR
RSM02504009LN	25	40	9	104	LOW	NBR
RSM02504009LV	25	40	9	104	LOW	VITON
RSM02504010LN	25	40	10	104	LOW	NBR
RSM02504010LN	25	40	10	135	LOW	NBR
RSM02504010LV	25	40	10	104	LOW	VITON
RSM02504012LN	25	40	12	104	LOW	NBR
RSM02504012LV	25	40	12	104	LOW	VITON
RSM02504107LN	25	41	7	104	LOW	NBR
RSM025041106LN	25	41.1	6	104	LOW	NBR
RSM025041108LN	25	41.1	8	104	LOW	NBR
RSM025041206LV	25	41.25	6	104	LOW	VITON
RSM025041206LN	25	41.3	6	104	LOW	NBR
RSM025041207LN	25	41.3	7	104	LOW	NBR
RSM025041208LN	25	41.3	8	104	LOW	NBR
RSM025041506LV	25	41.5	6	104	LOW	VITON
RSM02504206LV	25	42	6	104	LOW	VITON
RSM02504206LN	25	42	6	104	LOW	NBR
RSM02504206HN	25	42	6.5	122	HIGH	NBR
RSM02504207LN	25	42	7	104	LOW	NBR
RSM02504207LV	25	42	7	104	LOW	VITON
RSM02504207SL	25	42	7	302	LOW	NBR
RSM02504208LN	25	42	8	104	LOW	NBR
RSM02504208LV	25	42	8	104	LOW	VITON
RSM02504210HN	25	42	10	126	HIGH	NBR
RSM02504210LV	25	42	10	104	LOW	VITON
RSM02504210LN	25	42	10	135	LOW	NBR
RSM02504210LN	25	42	10	104	LOW	NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM02504212LN	25	42	12	104	LOW		NBR
RSM02504307LN	25	43	7	104	LOW		NBR
RSM02504308HN	25	43	8	121	HIGH		NBR
RSM02504309LN	25	43	9	104	LOW		NBR
RSM02504310LN	25	43	10	104	LOW		NBR
RSM02504310LN	25	43	10	104	LOW/RH		NBR
RSM02504310HV	25	43	10	128	HIGH		VITON
RSM02504310LV	25	43	10	104	LOW		VITON
RSM02504407LN	25	44	7	104	LOW		NBR
RSM02504408LN	25	44	8	104	LOW		NBR
RSM024990444LN	25	44.5	5	104	LOW		NBR
RSM025044407LN	25	44.5	7	104	LOW		NBR
RSM02504505LN	25	45	5	104	LOW		NBR
RSM02504507LN	25	45	7	104	LOW		NBR
RSM02504507LV	25	45	7	104	LOW		VITON
RSM02504508LN	25	45	8	104	LOW		NBR
RSM02504508LV	25	45	8	104	LOW		VITON
RSM02504510LN	25	45	10	104	LOW		NBR
RSM02504510LV	25	45	10	104	LOW		VITON
RSM02504511HN	25	45	11	126	HIGH		NBR
RSM02504511HN	25	45	11	374	HIGH		NBR
RSM02504511LN	25	45	11	104	LOW		NBR
RSM02504511LV	25	45	11	104	LOW		VITON
RSM02504512HN	25	45	12.5	374	HIGH		NBR
RSM02504512HV	25	45	12.5	374	HIGH		VITON
RSM02504514LN	25	45	14	135	LOW		NBR
RSM02504607LN	25	46	7	104	LOW		NBR
RSM02504607LV	25	46	7	104	LOW		VITON
RSM02504610LN	25	46	10	104	LOW		NBR
RSM02504615LN	25	46	15	104	LOW		NBR
RSM02504615LV	25	46	15	104	LOW		VITON
RSM02504706LN	25	47	6	104	LOW		NBR
RSM02504706HV	25	47	6	122	HIGH		VITON
RSM02504706HN	25	47	6	122	HIGH		NBR
RSM02504707LSC	25	47	7	104	LOW		SILIC
RSM02504707LV	25	47	7	104	LOW		VITON
RSM02504707LN	25	47	7	104	LOW		NBR
RSM02504708HN	25	47	8	121	HIGH		NBR
RSM02504708LN	25	47	8	104	LOW		NBR
RSM02504708LV	25	47	8	104	LOW		VITON
RSM02504710LN	25	47	10	135	LOW		NBR
RSM02504710LV	25	47	10	104	LOW		VITON
RSM02504710LN	25	47	10	104	LOW		NBR
RSM02504807LN	25	48	7	104	LOW		NBR

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM02504808LN	25	48	8	104	LOW		NBR
RSM02504808LV	25	48	8	104	LOW		VITON
RSM02504910LN	25	49	10	104	LOW		NBR
RSM02505007LN	25	50	7	104	LOW		NBR
RSM02505007LV	25	50	7	104	LOW		VITON
RSM02505008LV	25	50	8	104	LOW		VITON
RSM02505008LN	25	50	8	104	LOW		NBR
RSM02505010LV	25	50	10	104	LOW		VITON
RSM02505010LN	25	50	10	104	LOW		NBR
RSM02505012LN	25	50	12	104	LOW		NBR
RSM02505110LN	25	51	10	104	LOW		NBR
RSM02505205LN	25	52	5	104	LOW		NBR
RSM02505207LV	25	52	7	104	LOW		VITON
RSM02505207HN	25	52	7	122	HIGH		NBR
RSM02505207LN	25	52	7	104	LOW		NBR
RSM02505207LN	25	52	7	135	LOW		NBR
RSM02505208LV	25	52	8	104	LOW		VITON
RSM02505208LN	25	52	8	104	LOW		NBR
RSM02505208LN	25	52	8	135	LOW		NBR
RSM02505209LN	25	52	9	104	LOW		NBR
RSM02505210LN	25	52	10	104	LOW		NBR
RSM02505210LV	25	52	10	104	LOW		VITON
RSM02505212LN	25	52	12	104	LOW		NBR
RSM02505215LN	25	52	15	104	LOW		NBR
RSM02505310LN	25	53	10	104	LOW		NBR
RSM02505408LN	25	54	8	104	LOW		NBR
RSM02505507LN	25	55	7	104	LOW		NBR
RSM02505507LV	25	55	7	104	LOW		VITON
RSM02505508LN	25	55	8	104	LOW		NBR
RSM02505509LN	25	55	9	104	LOW		NBR
RSM02505510LN	25	55	10	104	LOW		NBR
RSM02505510LV	25	55	10	104	LOW		VITON
RSM02505512LN	25	55	12	104	LOW		NBR
RSM02505810LN	25	58	10	104	LOW		NBR
RSM02506007LN	25	60	7	104	LOW		NBR
RSM02506008LN	25	60	8	104	LOW		NBR
RSM02506010LN	25	60	10	104	LOW		NBR
RSM02506010MV	25	60	10	126	MEDIUM		VITON
RSM02506206LN	25	62	6	104	LOW		NBR
RSM02506207LN	25	62	7	104	LOW		NBR
RSM02506207LV	25	62	7	104	LOW		VITON
RSM02506208LN	25	62	8	104	LOW		NBR
RSM02506208HN	25	62	8	122	HIGH		NBR
RSM02506210LV	25	62	10	104	LOW		VITON

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM02506210LN	25	62	10	104	LOW		NBR
RSM02506212LN	25	62	12	104	LOW		NBR
RSM02506510LN	25	65	10	104	LOW		NBR
RSM02507010LV	25	70	10	104	LOW		VITON
RSM02507207LN	25	72	7	104	LOW		NBR
RSM025404526LN	25.4	45.3	6.4	104	LOW		NBR
RSM025405206LN	25.4	52	6.4	104	LOW		NBR
RSM025405207LN	25.4	52	7	104	LOW		NBR
RSM02550375LN	25.5	37.5	6	104	LOW/RH		NBR
RSM02603507HN	26	35	7	121	HIGH		NBR
RSM02603507LN	26	35	7	104	LOW		NBR
RSM026035505LN	26	35.5	5	104	LOW		NBR
RSM02603605LN	26	36	5	104	LOW		NBR
RSM02603605LV	26	36	5	104	LOW		VITON
RSM02603607LV	26	36	7	104	LOW		VITON
RSM02603607LN	26	36	7	104	LOW		NBR
RSM02603706LV	26	37	6	104	LOW		VITON
RSM02603706LN	26	37	6	104	LOW		NBR
RSM02603707HN	26	37	7	121	HGH		NBR
RSM02603707LN	26	37	7	104	LOW		NBR
RSM02603707LV	26	37	7	104	LOW		VITON
RSM02603708LN	26	37	8	104	LOW		NBR
RSM02603710LN	26	37	10	104	LOW		NBR
RSM026037105H	26	37	10.5	131	HIGH		NBR
RSM02603805LN	26	38	5	104	LOW		NBR
RSM02603807LN	26	38	7	104	LOW		NBR
RSM02603808LN	26	38	8	104	LOW		NBR
RSM02604005LN	26	40	5	104	LOW		NBR
RSM02604006HN	26	40	6	122	HIGH		NBR
RSM02604006HV	26	40	6	122	HIGH		VITON
RSM02604006LN	26	40	6	104	LOW		NBR
RSM02604007LN	26	40	7	104	LOW		NBR
RSM02604008LN	26	40	8	104	LOW		NBR
RSM02604009LN	26	40	9	104	LOW		NBR
RSM02604207LN	26	42	7	104	LOW		NBR
RSM02604208LN	26	42	8	104	LOW		NBR
RSM02604208LN	26	42	8	104	LOW/RH		NBR
RSM02604208LV	26	42	8	104	LOW		VITON
RSM02604209LN	26	42	9	104	LOW		NBR
RSM02604307LN	26	43	7	104	LOW		NBR
RSM02604308LN	26	43	8	104	LOW		NBR

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM02604310LN	26	43	10	104	LOW		NBR
RSM02604508HN	26	45	8.5		HIGH		NBR
RSM02604510LN	26	45	10	104	LOW		NBR
RSM02604610LN	26	46	10	104	LOW		NBR
RSM02604707HN	26	47	7	121	HIGH		NBR
RSM02604707LN	26	47	7	104	LOW		NBR
RSM02604708LN	26	47	8	104	LOW		NBR
RSM02604710LN	26	47	10	104	LOW		NBR
RSM02604712LN	26	47	12	104	LOW		NBR
RSM02604807LN	26	48	7	104	LOW/RH		NBR
RSM02604807LN	26	48	7	104	LOW		NBR
RSM02605010LN	26	50	10	104	LOW		NBR
RSM02605206LN	26	52	6	104	LOW		NBR
RSM02605207LN	26	52	7	104	LOW		NBR
RSM02605208LN	26	52	8	104	LOW		NBR
RSM02605208LN	26	52	8	135	LOW		NBR
RSM02605209LN	26	52	9	104	LOW		NBR
RSM02606209LN	26	62	9	104	LOW		NBR
RSM02703404LN	27	34	4	211	LOW		NBR
RSM02703606LN	27	36	6	104	LOW		NBR
RSM02703607LN	27	36	7	104	LOW		NBR
RSM02703704LN	27	37	4	104	LOW		NBR
RSM02703706LN	27	37	6	104	LOW		NBR
RSM02703707LN	27	37	7	104	LOW		NBR
RSM02703707LV	27	37	7	104	LOW		VITON
RSM027037105LN	27	37	10.5	135	LOW		NBR
RSM027037203ZN	27	37.2	3	137	ZERO		NBR
RSM02703807LN	27	38	7	104	LOW		NBR
RSM02704006LN	27	40	6	104	LOW		NBR
RSM02704007LN	27	40	7	104	LOW		NBR
RSM02704008LN	27	40	8	104	LOW		NBR
RSM02704010LN	27	40	10	104	LOW		NBR
RSM02704107LN	27	41	7	104	LOW		NBR
RSM02704110LN	27	41	10	104	LOW		NBR
RSM02704207HN	27	42	7	122	HIGH		NBR
RSM02704207HV	27	42	7	122	HIGH		VITON
RSM02704207LN	27	42	7	104	LOW		NBR
RSM02704209LN	27	42	9	104	LOW		NBR
RSM02704210LN	27	42	10	104	LOW		NBR
RSM02704210LV	27	42	10	104	LOW		VITON
RSM02704307LN	27	43	7	104	LOW		NBR
RSM02704307LV	27	43	7	104	LOW		VITON
RSM02704308LN	27	43	8	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM02704308HN	27	43	9	122	HIGH		NBR
RSM02704309LN	27	43	9	104	LOW		NBR
RSM02704309LN	27	43	9	104	LOW/LH		NBR
RSM02704507LN	27	45	7	104	LOW		NBR
RSM02704508LN	27	45	8	104	LOW		NBR
RSM02704509LN	27	45	9	104	LOW		NBR
RSM02704706LN	27	47	6	104	LOW		NBR
RSM02704706LV	27	47	6	104	LOW		VITON
RSM02704707LN	27	47	7	104	LOW		NBR
RSM02704707LV	27	47	7	104	LOW		VITON
RSM02704708LN	27	47	8	104	LOW		NBR
RSM02704710LV	27	47	10	104	LOW		VITON
RSM02704710LN	27	47	10	104	LOW		NBR
RSM02705010LN	27	50	10	104	LOW		NBR
RSM02705205LN	27	52	5	104	LOW		NBR
RSM02705307LN	27	53	7	104	LOW		NBR
RSM02705408LN	27	54	8	104	LOW		NBR
RSM02705508LN	27	55	8	104	LOW		NBR
RSM02706210LN	27	62	10	104	LOW		NBR
RSM027503706H	27.5	37	6.9	122	HIGH		NBR
RSM027804005H	27.8	40	5.5	122	HIGH		NBR
RSM027804445LN	27.8	44.5	9.5	104	LOW		NBR
RSM02803504ZN	28	35	4	137	ZERO		NBR
RSM02803505LN	28	35	5	104	LOW		NBR
RSM02803507LN	28	35	7	104	LOW		NBR
RSM02803507LV	28	35	7	104	LOW		VITON
RSM02803509LN	28	35	9	104	LOW		NBR
RSM02803605LN	28	36	5	104	LOW		NBR
RSM02803607LN	28	36	7	104	LOW		NBR
RSM02803704LN	28	37	4	104	LOW		NBR
RSM02803705LN	28	37	5	104	LOW		NBR
RSM02803706LN	28	37	6	104	LOW		NBR
RSM02803707LV	28	37	7	104	LOW		VITON
RSM02803707LN	28	37	7	104	LOW		NBR
RSM02803805LN	28	38	5	104	LOW		NBR
RSM028038055LN	28	38	5.5	104	LOW		NBR
RSM028038065LN	28	38	6.5	104	LOW		NBR
RSM02803807LN	28	38	7	104	LOW		NBR
RSM02803807LV	28	38	7	104	LOW		VITON
RSM02803808LN	28	38	8	104	LOW		NBR
RSM02803908HN	28	39	8	131	HIGH		NBR

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM02804005LN	28	40	5	104	LOW		NBR
RSM02804005LV	28	40	5	104	LOW		VITON
RSM02804005ZN	28	40	5	137	ZERO		NBR
RSM02804006HN	28	40	6	122	HIGH		NBR
RSM02804006HV	28	40	6	126	HIGH		VITON
RSM02804006LV	28	40	6	104	LOW		VITON
RSM02804007LN	28	40	7	104	LOW		NBR
RSM02804007LV	28	40	7	104	LOW		VITON
RSM02804007HN	28	40	7	122	HIGH		NBR
RSM02804008LV	28	40	8	104	LOW		VITON
RSM02804008LN	28	40	8	104	LOW		NBR
RSM02804009LN	28	40	9	104	LOW		NBR
RSM02804009LN	28	40	9	135	LOW		NBR
RSM02804010LN	28	40	10	104	LOW		NBR
RSM02804010LV	28	40	10	104	LOW		VITON
RSM02804107LN	28	41	7	104	LOW		NBR
RSM02804206HN	28	42	6	122	HIGH		NBR
RSM02804206HV	28	42	6	126	HIGH		VITON
RSM02804206LN	28	42	6	104	LOW		NBR
RSM02804207LN	28	42	7	104	LOW		NBR
RSM02804207LV	28	42	7	104	LOW		VITON
RSM02804208LN	28	42	8	104	LOW		NBR
RSM02804208LV	28	42	8	104	LOW		VITON
RSM02804210LN	28	42	10	104	LOW		NBR
RSM02804210LV	28	42	10	104	LOW		VITON
RSM02804211LN	28	42	11	104	LOW		NBR
RSM028042508LN	28	42.5	8	104	LOW		NBR
RSM02804307LN	28	43	7	104	LOW		NBR
RSM02804307LV	28	43	7	104	LOW		VITON
RSM02804307HN	28	43	7	122	HIGH		NBR
RSM02804308LN	28	43	8	104	LOW		NBR
RSM02804309LN	28	43	9	104	LOW/RH		NBR
RSM02804310LN	28	43	10	104	LOW		NBR
RSM028043506LN	28	43.5	6	104	LOW		NBR
RSM02804406LN	28	44	6	104	LOW		NBR
RSM02804407LN	28	44	7	104	LOW		NBR
RSM02804407LV	28	44	7	104	LOW		VITON
RSM02804408LN	28	44	8	104	LOW		NBR
RSM02804506LN	28	45	6	104	LOW		NBR
RSM02804507LN	28	45	7	104	LOW		NBR
RSM02804507LV	28	45	7	104	LOW		VITON
RSM02804508LN	28	45	8	104	LOW		NBR
RSM02804508LV	28	45	8	104	LOW		VITON
RSM02804510LV	28	45	10	104	LOW		VITON

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM02804510LN	28	45	10	104	LOW		NBR
RSM02804606LN	28	46	6	104	LOW		NBR
RSM02804608LN	28	46	8	104	LOW		NBR
RSM02804612LN	28	46	12	104	LOW		NBR
RSM02804705LN	28	47	5	104	LOW		NBR
RSM02804705LV	28	47	5	104	LOW		VITON
RSM02804707LV	28	47	7	104	LOW		VITON
RSM02804707HN	28	47	7	122	HIGH		NBR
RSM02804707LN	28	47	7	104	LOW		NBR
RSM02804708LV	28	47	8	104	LOW		VITON
RSM02804708LN	28	47	8	104	LOW/RH		NBR
RSM02804708LN	28	47	8	135	LOW		NBR
RSM02804708LN	28	47	8	104	LOW		NBR
RSM02804710LN	28	47	10	104	LOW		NBR
RSM02804710LN	28	47	10	104	LOW/RH		NBR
RSM02804710LV	28	47	10	104	LOW		VITON
RSM02804807LN	28	48	7	104	LOW		NBR
RSM02804807LV	28	48	7	104	LOW		VITON
RSM02804808LN	28	48	8	104	LOW		NBR
RSM02804810LV	28	48	10	104	LOW		VITON
RSM02804810LN	28	48	10	104	LOW		NBR
RSM02804810LN	28	48	10		LOW		NBR
RSM02804811LN	28	48	11	104	LOW		NBR
RSM02804811LV	28	48	11	104	LOW		VITON
RSM02804812HN	28	48	12.5	374	HIGH		NBR
RSM02804812HV	28	48	12.5	374	HIGH		VITON
RSM02804907LN	28	49	7	104	LOW		NBR
RSM02805006HN	28	50	6	123	HIGH		NBR
RSM02805006LN	28	50	6	104	LOW		NBR
RSM02805007LN	28	50	7	104	LOW		NBR
RSM02805007LV	28	50	7	104	LOW		VITON
RSM02805008LN	28	50	8	104	LOW		NBR
RSM02805010LN	28	50	10	104	LOW		NBR
RSM02805010LV	28	50	10	104	LOW		VITON
RSM02805012LN	28	50	12	104	LOW		NBR
RSM02805206LN	28	52	6	104	LOW		NBR
RSM02805207LN	28	52	7	104	LOW		NBR
RSM02805207LV	28	52	7	104	LOW		VITON
RSM02805208LN	28	52	8	104	LOW		NBR
RSM02805210LN	28	52	10	104	LOW		NBR
RSM02805210LV	28	52	10	104	LOW		VITON
RSM028054075LN	28	54	7.5	104	LOW		NBR
RSM02805507LN	28	55	7	104	LOW		NBR
RSM02805510LN	28	55	10	104	LOW		NBR

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM02805606LN	28	56	6	104	LOW		NBR
RSM02805607LN	28	56	7	104	LOW		NBR
RSM02805608LN	28	56	8	104	LOW		NBR
RSM02805608LN	28	56	8	135	LOW		NBR
RSM02805610LN	28	56	10	104	LOW		NBR
RSM02805707LV	28	57	7	104	LOW		VITON
RSM02805810LN	28	58	10	104	LOW		NBR
RSM02806207LN	28	62	7	104	LOW		NBR
RSM02806210LN	28	62	10	104	LOW		NBR
RSM02807010LN	28	70	10	104	LOW		NBR
RSM02807207LN	28	72	7	104	LOW		NBR
RSM028170432LN	28.2	43.3	8	104	LOW		NBR
RSM028170563LN	28.2	56.4	11.9	104	LOW		NBR
RSM028503806LN	28.5	38	6	104	LOW		NBR
RSM02850395LN	28.5	39.5	9.5	104	LOW		NBR
RSM028504205H	28.5	42	5	122	HIGH		NBR
RSM028504307LN	28.5	43	7	104	LOW		NBR
RSM028503502ZN	28.57	35	2.2	201	ZERO		NBR
RSM028604008LN	28.6	40	8	104	LOW		NBR
RSM028504806H	28.6	48	6	128	HIGH		NBR
RSM02880465LN	28.8	46.5	11.2	104	LOW		NBR
RSM02903704ZN	29	37	4	137	ZERO		NBR
RSM02904007LN	29	40	7	104	LOW		NBR
RSM02904308LN	29	43	8	104	LOW		NBR
RSM02904310LN	29	43	10	104	LOW		NBR
RSM02904508LN	29	45	8	104	LOW		NBR
RSM02904508LN	29	45	8	104	LOW/LH		NBR
RSM02904509LN	29	45	9	104	LOW		NBR
RSM02904609LN	29	46	9	104	LOW		NBR
RSM02904610LN	29	46	10	104	LOW		NBR
RSM02904710LN	29	47	10	104	LOW		NBR
RSM02905008LN	29	50	8	104	LOW		NBR
RSM02905010LN	29	50	10	104	LOW		NBR
RSM02905207LV	29	52	7	104	LOW		VITON
RSM029360381LN	29.4	38.1	4.8	104	LOW		NBR
RSM02950479LN	29.5	47.9	9	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE ROTATION	MATERIAL
RSM029804710LN	29.8	47	10	104	LOW	NBR
RSM03003605SL	30	36	5	103	LOW	VITON
RSM03003704LN	30	37	4	103	LOW	NBR
RSM03003704ZN	30	37	4	137	ZERO	NBR
RSM03003804LN	30	38	4	104	LOW	NBR
RSM03003805LN	30	38	5	104	LOW	NBR
RSM03003806LN	30	38	6	104	LOW	NBR
RSM03003807LN	30	38	7	104	LOW	NBR
RSM03003808LN	30	38	8	104	LOW	NBR
RSM03004004LN	30	40	4	137	ZERO	NBR
RSM03004004LV	30	40	4	104	LOW	VITON
RSM03004004ZN	30	40	4	137	ZERO	NBR
RSM03004005LN	30	40	5	104	LOW	NBR
RSM03004005LV	30	40	5	104	LOW	VITON
RSM03004006LN	30	40	6	104	LOW	NBR
RSM03004007LV	30	40	7	104	LOW	VITON
RSM03004007HN	30	40	7	122	HIGH	NBR
RSM03004007HV	30	40	7	124	HIGH	VITON
RSM03004007LN	30	40	7	104	LOW	NBR
RSM03004008LN	30	40	8	104	LOW	NBR
RSM03004008HN	30	40	8	122	HIGH	NBR
RSM03004010LN	30	40	10	104	LOW	NBR
RSM03004010LV	30	40	10	104	LOW	VITON
RSM03004107LN	30	41	7	104	LOW	NBR
RSM030042045LN	30	42	4.5	104	LOW	NBR
RSM03004205LN	30	42	5	104	LOW	NBR
RSM03004206HV	30	42	6	122	HIGH	VITON
RSM03004206LN	30	42	6	104	LOW	NBR
RSM03004206HN	30	42	6	122	HIGH	NBR
RSM03004206LV	30	42	6	104	LOW	VITON
RSM03004207LV	30	42	7	135	LOW	VITON
RSM03004207LN	30	42	7	104	LOW	NBR
RSM03004207LN	30	42	7	103	LOW	NBR
RSM03004207LN	30	42	7	104	LOW/RH	NBR
RSM03004207LV	30	42	7	104	LOW	VITON
RSM03004208LV	30	42	8	104	LOW	VITON
RSM03004208LN	30	42	8	104	LOW	NBR
RSM03004208HN	30	42	8	128	HIGH	NBR
RSM03004208HV	30	42	8	128	HIGH	VITON
RSM03004210LN	30	42	10	104	LOW	NBR
RSM03004210LV	30	42	10	104	LOW	VITON
RSM03004308HN	30	43	8	122	HIGH	NBR
RSM03004308LN	30	43	8	104	LOW	NBR

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE ROTATION	MATERIAL
RSM03004310LN	30	43	10	104	LOW	NBR
RSM03004407LN	30	44	7	104	LOW	NBR
RSM03004407LN	30	44	7	104	LOW/RH	NBR
RSM03004407LV	30	44	7	104	LOW	VITON
RSM03004408LN	30	44	8	104	LOW	NBR
RSM03004409LN	30	44	9	104	LOW	NBR
RSM03004409LN	30	44	9	104	LOW/RH	NBR
RSM03004410LN	30	44	10	104	LOW	NBR
RSM030044510LN	30	44.5	10	104	LOW/RH	NBR
RSM03004505LN	30	45	5	104	LOW	NBR
RSM03004506HN	30	45	6	123	HIGH	NBR
RSM03004506LN	30	45	6	104	LOW	NBR
RSM03004507HN	30	45	7	122	HIGH	NBR
RSM03004507LN	30	45	7	104	LOW	NBR
RSM03004507LV	30	45	7	104	LOW	VITON
RSM03004507HV	30	45	7.5	122	HIGH	VITON
RSM03004508HN	30	45	8	126	HIGH	NBR
RSM03004508LN	30	45	8	104	LOW	NBR
RSM03004508LV	30	45	8	104	LOW	VITON
RSM03004509LN	30	45	9	104	LOW	NBR
RSM03004509LV	30	45	9	104	LOW	VITON
RSM03004510LV	30	45	10	104	LOW	VITON
RSM03004510LN	30	45	10	104	LOW	NBR
RSM03004511LN	30	45	11	104	LOW	NBR
RSM03004512LN	30	45	12	135	LOW	NBR
RSM03004513LN	30	45	13	104	LOW	NBR
RSM030045706LN	30	45.7	6	104	LOW	NBR
RSM03004607LV	30	46	7	104	LOW	VITON
RSM03004607LN	30	46	7	104	LOW/RH	NBR
RSM03004607LN	30	46	7	104	LOW	NBR
RSM03004608LN	30	46	8	104	LOW	NBR
RSM03004610LN	30	46	10	104	LOW	NBR
RSM03004705LN	30	47	5	104	LOW	NBR
RSM03004705LV	30	47	5	104	LOW	VITON
RSM03004706LN	30	47	6	104	LOW	NBR
RSM03004707LV	30	47	7	104	LOW	VITON
RSM03004707HN	30	47	7	122	HIGH	NBR
RSM03004707LN	30	47	7	104	LOW	NBR
RSM03004708LN	30	47	8	104	LOW	NBR
RSM03004708LV	30	47	8	104	LOW	VITON
RSM03004710LN	30	47	10	104	LOW	NBR
RSM03004710LV	30	47	10	104	LOW	VITON
RSM03004807LN	30	48	7	104	LOW	NBR
RSM03004807LV	30	48	7	104	LOW	VITON

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM03004808LN	30	48	8	104	LOW		NBR
RSM03004808LV	30	48	8	104	LOW		VITON
RSM03004810LN	30	48	10	104	LOW		NBR
RSM03004810LV	30	48	10	104	LOW		VITON
RSM03004907LN	30	49	7	104	LOW		NBR
RSM03005005LN	30	50	5	104	LOW		NBR
RSM03005207LV	30	50	7	104	LOW		VITON
RSM03005007HN	30	50	7	122	HIGH		NBR
RSM03005007LN	30	50	7	104	LOW		NBR
RSM03005007LV	30	50	7	104	LOW		VITON
RSM03005008LN	30	50	8	104	LOW		NBR
RSM03005008LV	30	50	8	104	LOW		VITON
RSM03005010LN	30	50	10	104	LOW		NBR
RSM03005010LV	30	50	10	104	LOW		VITON
RSM03005011LV	30	50	11	304	LOW		VITON
RSM03005011LN	30	50	11	104	LOW		NBR
RSM03005012LN	30	50	12	104	LOW		NBR
RSM030050125LN	30	50	12.5	104	LOW		NBR
RSM03005012HN	30	50	12.5	374	HIGH		NBR
RSM03005108LN	30	51	8	104	LOW		NBR
RSM03005109LN	30	51	9	104	LOW		NBR
RSM03005110LN	30	51	10	104	LOW		NBR
RSM03005205LV	30	52	5	104	LOW		VITON
RSM03005205LN	30	52	5	104	LOW		NBR
RSM03005207HN	30	52	7	122	LOW		NBR
RSM03005207LN	30	52	7	104	LOW		NBR
RSM03005207LN	30	52	7	104	LOW/RH		NBR
RSM03005208LN	30	52	8	104	LOW/RH		NBR
RSM03005208LV	30	52	8	104	LOW		VITON
RSM03005208LN	30	52	8	104	LOW		NBR
RSM03005209LN	30	52	9	104	LOW		NBR
RSM03005210LN	30	52	10	104	LOW		NBR
RSM03005210LV	30	52	10	104	LOW		VITON
RSM03005211LN	30	52	11	104	LOW		NBR
RSM03005212LN	30	52	12	104	LOW		NBR
RSM03005212LV	30	52	12	104	LOW		VITON
RSM03005214LN	30	52	14	104	LOW		NBR
RSM03005308LN	30	53	8	104	LOW		NBR
RSM030053510LN	30	53.5	10	104	LOW		NBR
RSM03005409LN	30	54	9	104	LOW		NBR
RSM03005410LN	30	54	10	104	LOW		NBR
RSM03005505LN	30	55	5	104	LOW		NBR
RSM03005506LN	30	55	6	104	LOW		NBR
RSM03005507HN	30	55	7	122	HIGH		NBR

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM03005507LN	30	55	7	104	LOW		NBR
RSM03005507LV	30	55	7	104	LOW		VITON
RSM03005508LN	30	55	8	104	LOW		NBR
RSM03005510LN	30	55	10	104	LOW		NBR
RSM03005510LV	30	55	10	104	LOW		VITON
RSM03005511LN	30	55	11	104	LOW		NBR
RSM03005512LN	30	55	12	104	LOW		NBR
RSM03005606LN	30	56	6	104	LOW		NBR
RSM03005607LN	30	56	7	104	LOW		NBR
RSM03005610LN	30	56	10	104	LOW		NBR
RSM03005610LV	30	56	10	104	LOW		VITON
RSM03005612LN	30	56	12	104	LOW		NBR
RSM03005707LN	30	57	7	104	LOW		NBR
RSM03005808LN	30	58	8	104	LOW		NBR
RSM03005810LN	30	58	10	104	LOW		NBR
RSM03006007LN	30	60	7	104	LOW		NBR
RSM03006007LV	30	60	7	104	LOW		VITON
RSM03006008LN	30	60	8	104	LOW		NBR
RSM03006010LV	30	60	10	104	LOW		VITON
RSM03006010LN	30	60	10	104	LOW		NBR
RSM03006205LN	30	62	5	104	LOW		NBR
RSM03006207LN	30	62	7	104	LOW		NBR
RSM03006207LV	30	62	7	104	LOW		VITON
RSM03006207HV	30	62	7	122	HIGH		VITON
RSM03006208LN	30	62	8	104	LOW		NBR
RSM03006208LV	30	62	8	104	LOW		VITON
RSM03006210LN	30	62	10	104	LOW		NBR
RSM03006210LV	30	62	10	104	LOW		VITON
RSM03006211LN	30	62	11	104	LOW		NBR
RSM03006212LN	30	62	12	104	LOW		NBR
RSM03006213LN	30	62	13	104	LOW		NBR
RSM03006214LN	30	62	14	135	LOW		NBR
RSM03006505LN	30	65	5	104	LOW		NBR
RSM03006508LN	30	65	8	104	LOW		NBR
RSM03006508LV	30	65	8	104	LOW		VITON
RSM03006510LN	30	65	10	104	LOW		NBR
RSM03006510LV	30	65	10	104	LOW		VITON
RSM03006807LN	30	68	7	104	LOW		NBR
RSM03006807LV	30	68	7	104	LOW		VITON
RSM03006810LV	30	68	10	104	LOW		VITON
RSM03006810LN	30	68	10	104	LOW		NBR
RSM03007007LN	30	70	7	104	LOW		NBR
RSM030070085LN	30	70	8.5	104	LOW		NBR
RSM03007010LN	30	70	10	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM03007206LN	30	72	6	104	LOW		NBR
RSM03007207LV	30	72	7	104	LOW		VITON
RSM03007207LN	30	72	7	104	LOW		NBR
RSM03007208LN	30	72	8	104	LOW		NBR
RSM03007210LN	30	72	10	104	LOW		NBR
RSM03007210LV	30	72	10	104	LOW		VITON
RSM03007213LN	30	72	13	104	LOW		NBR
RSM03007509LN	30	75	9	104	LOW		NBR
RSM03007510LN	30	75	10	104	LOW		NBR
RSM03007709LN	30	77	9	104	LOW		NBR
RSM03008010LN	30	80	10	104	LOWLOW		NBR
RSM03008210LN	30	82	10	104	LOW		NBR
RSM03008510LN	30	85	10	104	LOW		NBR
RSM03009010LN	30	90	10	104	LOW		NBR
RSM03104107LN	31	41	7	104	LOW		NBR
RSM03104306LN	31	43	6	104	LOW		NBR
RSM03104307LN	31	43	7	104	LOW		NBR
RSM03104407LN	31	44	7	104	LOW		NBR
RSM03104408LN	31	44	8	104	LOW		NBR
RSM03104507LN	31	45	7	104	LOW		NBR
RSM03104508LV	31	45	8	104	LOW		VITON
RSM03104608LN	31	46	8	104	LOW/LH		NBR
RSM03104707LN	31	47	7	104	LOW		NBR
RSM03104710LN	31	47	10	104	LOW		NBR
RSM03104810LN	31	48	10	104	LOW/LH		NBR
RSM03104907LN	31	49	7	104	LOW		NBR
RSM03105008LN	31	50	8	104	LOW		NBR
RSM03105107LN	31	51	7	104	LOW		NBR
RSM03105207LN	31	52	7	104	LOW		NBR
RSM031507209LN	31.5	72	9.5	104	LOW		NBR
RSM031704007LN	31.8	40	7	104	LOW		NBR
RSM031804808H	31.8	48	8	131	HIGH		NBR
RSM03175072LN	31.8	72	9.5	104	LOW		NBR
RSM03203805ZN	32	38	5	181	LOW		NBR
RSM03204005LN	32	40	5	104	LOW		NBR
RSM03204007LN	32	40	7	104	LOW		NBR
RSM03204007LV	32	40	7	104	LOW		VITON
RSM03204204ZN	32	42	4	137	ZERO		NBR
RSM03204205LN	32	42	5	104	LOW		NBR
RSM03204206LN	32	42	6	104	LOW		NBR

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM03204207LV	32	42	7	104	LOW		VITON
RSM03204207LN	32	42	7	104	LOW		NBR
RSM03204208LN	32	42	8	104	LOW		NBR
RSM03204210LN	32	42	10	104	LOW		NBR
RSM032042505LN	32	42.5	5	104	LOW		NBR
RSM032043055LN	32	43	5.5	104	LOW		NBR
RSM03204307LN	32	43	7	104	LOW		NBR
RSM03204406LN	32	44	6	104	LOW/RH		NBR
RSM03204407LN	32	44	7	104	LOW		NBR
RSM03204407LV	32	44	7	104	LOW		VITON
RSM03204408HN	32	44	8	122	HIGH		NBR
RSM03204408LN	32	44	8	104	LOW		NBR
RSM03204409LN	32	44	9	104	LOW		NBR
RSM03204410LN	32	44	10	104	LOW		NBR
RSM03204411LN	32	44	11	104	LOW		NBR
RSM03204505LN	32	45	5	104	LOW		NBR
RSM03204506LN	32	45	6	104	LOW		NBR
RSM03204507LV	32	45	7	104	LOW		VITON
RSM03204507HN	32	45	7	121	HIGH		NBR
RSM03204507LN	32	45	7	104	LOW		NBR
RSM03204508LN	32	45	8	104	LOW		NBR
RSM03204508LV	32	45	8	104	LOW		VITON
RSM03304510LN	32	45	10	104	LOW		NBR
RSM03204510LN	32	45	10	104	LOW		NBR
RSM03204510LV	32	45	10	104	LOW		VITON
RSM03204606LN	32	46	6	104	LOW/RH		NBR
RSM03204607LN	32	46	7	104	LOW		NBR
RSM03204607LN	32	46	7	104	LOW		NBR
RSM03204608LV	32	46	8	104	LOW		VITON
RSM03204608LN	32	46	8	104	LOW		NBR
RSM03204608LN	32	46	8	104	LOW/LH		NBR
RSM03204706HN	32	47	6	122	HIGH		NBR
RSM03204706LN	32	47	6	104	LOW		NBR
RSM03204706LN	32	47	6	104	LOW/RH		NBR
RSM03204707HN	32	47	7	122	HIGH		NBR
RSM03204707SL	32	47	7	302	LOW		NBR
RSM03204707LN	32	47	7	104	LOW		NBR
RSM03204707LV	32	47	7	104	LOW		VITON
RSM03204708LN	32	47	8	104	LOW		NBR
RSM03204708LN	32	47	8	104	LOW/RH		NBR
RSM03204708LV	32	47	8	104	LOW		VITON
RSM03204709LN	32	47	9	104	LOW		NBR
RSM03204710LN	32	47	10	104	LOW		NBR
RSM03204710LV	32	47	10	104	LOW		VITON

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM03204807LV	32	48	7	104	LOW		VITON
RSM03204807LN	32	48	7	104	LOW		NBR
RSM03204808LN	32	48	8	104	LOW		NBR
RSM03204808LV	32	48	8	104	LOW		VITON
RSM03204810LN	32	48	10	104	LOW		NBR
RSM03204810LN	32	48	10	104	LOW/LH		NBR
RSM03204810LV	32	48	10	104	LOW		VITON
RSM03205007HN	32	50	7	122	HIGH		NBR
RSM03205007LN	32	50	7	104	LOW		NBR
RSM03205007LV	32	50	7	104	LOW		VITON
RSM03205008LN	32	50	8	104	LOW		NBR
RSM03205008LV	32	50	8	104	LOW		VITON
RSM03205010LN	32	50	10	104	LOW		NBR
RSM03205010LV	32	50	10	104	LOW		VITON
RSM03205012LN	32	50	12	104	LOW		NBR
RSM03205108LN	32	51	8	104	LOW		NBR
RSM032051095LN	32	51	9.5	104	LOW		NBR
RSM03205206LN	32	52	6	104	LOW		NBR
RSM032052065LN	32	52	6.5	104	LOW		NBR
RSM03205207LV	32	52	7	104	LOW		VITON
RSM03205207LN	32	52	7	135	LOW		NBR
RSM03205207LN	32	52	7	104	LOW		NBR
RSM03205207HN	32	52	7	122	HIGH		NBR
RSM03205207HV	32	52	7	122	HIGH		VITON
RSM03205208LN	32	52	8	104	LOW		NBR
RSM03205208LV	32	52	8	104	LOW		VITON
RSM03205210LN	32	52	10	104	LOW		NBR
RSM03205210LV	32	52	10	104	LOW		VITON
RSM03205211LN	32	52	11	304	LOW		NBR
RSM03205211LN	32	52	11	104	LOW		NBR
RSM03205211LN	32	52	11	104	LOW/LH		NBR
RSM03205211LV	32	52	11	304	LOW		VITON
RSM03205211LV	32	52	11	104	LOW		VITON
RSM03205211HN	32	52	11	374	HIGH		NBR
RSM03205212LN	32	52	12	104	LOW		NBR
RSM03205307LN	32	53	7	104	LOW/RH		NBR
RSM03205407LN	32	54	7	104	LOW		NBR
RSM03205410LN	32	54	10	104	LOW		NBR
RSM03205507LV	32	55	7	104	LOW		VITON
RSM03205507LN	32	55	7	104	LOW		NBR
RSM03205508LN	32	55	8	104	LOW		NBR
RSM03205508LV	32	55	8	104	LOW		VITON
RSM03205509HV	32	55	9	122	HIGH		VITON
RSM03205509LV	32	55	9	104	LOW		VITON

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM03205510LN	32	55	10	104	LOW		NBR
RSM03205510LV	32	55	10	104	LOW		VITON
RSM03205511LN	32	55	11	104	LOW		NBR
RSM03205512LN	32	55	12	104	LOW		NBR
RSM03205608LN	32	56	8	104	LOW		NBR
RSM03205610LN	32	56	10	104	LOW		NBR
RSM03205610LV	32	56	10	104	LOW		VITON
RSM03205611LN	32	56	11	104	LOW		NBR
RSM03205807LV	32	58	7	104	LOW		VITON
RSM03205808LN	32	58	8	104	LOW		NBR
RSM03205810HN	32	58	10	122	HIGH		NBR
RSM03205810LN	32	58	10	104	LOW		NBR
RSM03205812LN	32	58	12	104	LOW		NBR
RSM03206007LN	32	60	7	104	LOW		NBR
RSM03206007LV	32	60	7	104	LOW		VITON
RSM03206008LN	32	60	8	104	LOW		NBR
RSM03206008LV	32	60	8	104	LOW		VITON
RSM03206010LV	32	60	10	104	LOW		VITON
RSM03206010LN	32	60	10	104	LOW		NBR
RSM03206207LN	32	62	7	104	LOW		NBR
RSM03206208LN	32	62	8	104	LOW		NBR
RSM03206208LV	32	62	8	104	LOW		VITON
RSM03206210LN	32	62	10	104	LOW		NBR
RSM03206210LV	32	62	10	104	LOW		VITON
RSM03206410LN	32	64	10	104	LOW		NBR
RSM032065065LN	32	65	6.5	104	LOW		NBR
RSM03206509LN	32	65	9	104	LOW		NBR
RSM03206510LN	32	65	10	104	LOW		NBR
RSM03206512LN	32	65	12	104	LOW		NBR
RSM03206513LN	32	65	13	104	LOW		NBR
RSM03206513LV	32	65	13	104	LOW		VITON
RSM03206708LN	32	67	8	104	LOW		NBR
RSM03207008LN	32	70	8	104	LOW		NBR
RSM03207010LN	32	70	10	104	LOW		NBR
RSM03207208LN	32	72	8	104	LOW		NBR
RSM03207210LV	32	72	10	104	LOW		VITON
RSM03207210LN	32	72	10	104	LOW		NBR

RSM03304307LN	33	43	7	104	LOW		NBR
RSM03304408LN	33	44	8	211	LOW		NBR
RSM03304507LN	33	45	7	104	LOW		NBR
RSM03304507LV	33	45	7	104	LOW		VITON
RSM03304508LN	33	45	8	104	LOW		NBR
RSM03304610HN	33	46	10.5	131	HIGH		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE ROTATION	MATERIAL
RSM03304611LN	33	46	11	135	LOW	NBR
RSM03304706LN	33	47	6	104	LOW	NBR
RSM03304707LN	33	47	7	104	LOW/RH	NBR
RSM03304708LN	33	47	8	104	LOW	NBR
RSM03304806LN	33	48	6	104	LOW	NBR
RSM03304808LN	33	48	8	104	LOW	NBR
RSM033048089LN	33	48	8.9	104	LOW	NBR
RSM03304908LN	33	49	8	104	LOW/RH	NBR
RSM03305006LN	33	50	6	104	LOW	NBR
RSM03305007LN	33	50	7	104	LOW	NBR
RSM03305008LN	33	50	8	104	LOW	NBR
RSM03305008LV	33	50	8	104	LOW	VITON
RSM03305010LN	33	50	10	104	LOW	NBR
RSM03305012LN	33	50	12	104	LOW	NBR
RSM03305012LN	33	50	12	104	LOW/LH	NBR
RSM03305206LV	33	52	6	104	LOW	VITON
RSM03305206LN	33	52	6	104	LOW	NBR
RSM03305207LN	33	52	7	104	LOW	NBR
RSM03305208LN	33	52	8	104	LOW	NBR
RSM03305210LN	33	52	10	104	LOW	NBR
RSM03305510LN	33	55	10	104	LOW	NBR
RSM03305512LN	33	55	12	104	LOW	NBR
RSM03305608LV	33	56	8	133	LOW	VITON
RSM03305612LN	33	56	12	104	LOW	NBR
RSM03305911LV	33	59	11	133	LOW	VITON
RSM03305912LN	33	59	12	104	LOW	NBR
RSM03306208LN	33	62	8	104	LOW	NBR
RSM03306309LN	33	63	9	104	LOW	NBR
RSM03306410LN	33	64	10	104	LOW	NBR
RSM03307210LN	33	72	10	104	LOW	NBR
RSM03404208LN	34	42	8	104	LOW	NBR
RSM03404307LN	34	43	7	104	LOW	NBR
RSM03404407LN	34	44	7	104	LOW	NBR
RSM03404407LV	34	44	7	104	LOW	VITON
RSM03404408LN	34	44	8	104	LOW	NBR
RSM03404507LN	34	45	7	104	LOW	NBR
RSM03404508LN	34	45	8	104	LOW	NBR
RSM03404607LN	34	46	7	104	LOW	NBR
RSM03404608LN	34	46	8	104	LOW	NBR
RSM03404707LN	34	47	7	104	LOW	NBR
RSM03404709LN	34	47	9	104	LOW	NBR
RSM03404807LV	34	48	7	104	LOW	VITON
RSM03404807LN	34	48	7	104	LOW	NBR
RSM03404807LN	34	48	7	104	LOW/RH	NBR
RSM03404808LN	34	48	8	104	LOW/RH	NBR
RSM03404808LN	34	48	8	104	LOW	NBR
RSM03404809LN	34	48	9	104	LOW	NBR
RSM03404810LN	34	48	10	104	LOW	NBR
RSM03405007LN	34	50	7	104	LOW	NBR
RSM03405007LN	34	50	7	104	LOW/RH	NBR
RSM03405007LV	34	50	7	104	LOW	VITON
RSM03405008LN	34	50	8	104	LOW	NBR
RSM03405010LN	34	50	10	104	LOW	NBR
RSM03405108LN	34	51	8	103	LOW	NBR
RSM03405207LN	34	52	7	104	LOW	NBR
RSM03405208LN	34	52	8	104	LOW	NBR
RSM03405210LN	34	52	10	104	LOW	NBR
RSM03405211LN	34	52	11	104	LOW	NBR
RSM03405310LN	34	53	10	104	LOW	NBR
RSM03405407LN	34	54	7	104	LOW	NBR
RSM03405408LN	34	54	8	104	LOW	NBR
RSM03405409LN	34	54	9	104	LOW	NBR
RSM03405410LN	34	54	10	104	LOW	NBR
RSM03405411HV	34	54	11	374	HIGH	VITON
RSM03405411LN	34	54	11	104	LOW	NBR
RSM034054125LN	34	54	12.5	104	LOW	NBR
RSM03405506LN	34	55	6	104	LOW	NBR
RSM03405507LN	34	55	7	104	LOW	NBR
RSM03405508LN	34	55	8	104	LOW	NBR
RSM03405509LN	34	55	9	104	LOW	NBR
RSM03405510LN	34	55	10	104	LOW	NBR
RSM03405512LN	34	55	12	104	LOW	NBR
RSM03405608LN	34	56	8	104	LOW	NBR
RSM03405706LN	34	57	6	104	LOW	NBR
RSM03405808LN	34	58	8	104	LOW	NBR
RSM03405813LN	34	58	13	104	LOW	NBR
RSM03406206LN	34	62	6	104	LOW	NBR
RSM03406208LN	34	62	8	104	LOW	NBR
RSM03406210LN	34	62	10	104	LOW	NBR
RSM03406214LN	34	62	14	104	LOW	NBR
RSM03407010LN	34	70	10	104	LOW	NBR
RSM03407210LN	34	72	10	104	LOW	NBR
RSM03407510LN	34	75	10	104	LOW	NBR
RSM03408012LN	34	80	12	104	LOW	NBR
RSM034504707LN	34.5	47	7	104	LOW	NBR
RSM03450493LN	34.5	49.3	12.5	104	LOW/LH	NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE ROTATION	MATERIAL
RSM034907224LN	34.9	72.2	9.5	104	LOW	NBR
RSM03504204LN	35	42	4	212	LOW	NBR
RSM03504204ZN	35	42	4	137	ZERO	NBR
RSM03504207LV	35	42	7	104	LOW	VITON
RSM03504207LN	35	42	7	104	LOW	NBR
RSM03504208LN	35	42	8	104	LOW	NBR
RSM03504304ZN	35	43	4	137	ZERO	NBR
RSM035043045LN	35	43	4.5	104	LOW	NBR
RSM03504407LN	35	44	7	104	LOW	NBR
RSM03504504ZN	35	45	4	137	ZERO	NBR
RSM03504505LN	35	45	5	104	LOW	NBR
RSM03504506LV	35	45	6	104	LOW	VITON
RSM03504506LN	35	45	6	104	LOW	NBR
RSM03504507LN	35	45	7	104	LOW	NBR
RSM03504507LV	35	45	7	104	LOW	VITON
RSM03504508LN	35	45	8	104	LOW	NBR
RSM03504510LN	35	45	10	104	LOW	NBR
RSM03504510LN	35	45	10	135	LOW	NBR
RSM03504510LV	35	45	10	104	LOW	VITON
RSM035045207LN	35	45.2	7	104	LOW	NBR
RSM03504607LN	35	46	7	104	LOW	NBR
RSM03504607LV	35	46	7	104	LOW	VITON
RSM03504705LN	35	47	5	104	LOW	NBR
RSM03504706HN	35	47	6	122	HIGH	NBR
RSM03504706HV	35	47	6	122	HIGH	VITON
RSM03504706LN	35	47	6	104	LOW	NBR
RSM03504706LN	35	47	6	104	LOW/RH	NBR
RSM03504707LN	35	47	7	135	LOW	NBR
RSM03504707LV	35	47	7	104	LOW	VITON
RSM03504707HV	35	47	7	128	HIGH	VITON
RSM03504707HN	35	47	7	122	HIGH	NBR
RSM03504707LN	35	47	7	104	LOW	NBR
RSM03504708LN	35	47	8	104	LOW	NBR
RSM03504709LN	35	47	9	104	LOW	NBR
RSM03504710HN	35	47	10	122	HIGH	NBR
RSM03504710LN	35	47	10	104	LOW	NBR
RSM03504710LV	35	47	10	104	LOW	VITON
RSM03504712LN	35	47	12	104	LOW	NBR
RSM03504712LV	35	47	12	104	LOW	VITON
RSM03504805HV	35	48	5	122	HIGH	VITON
RSM03504807LN	35	48	7	104	LOW	NBR
RSM03504807LV	35	48	7	104	LOW	VITON

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE ROTATION	MATERIAL
RSM03504808LN	35	48	8	104	LOW	NBR
RSM03504808LN	35	48	8	104	LOW/LH	NBR
RSM03504808LV	35	48	8	104	LOW	VITON
RSM03504809LN	35	48	9	104	LOW	NBR
RSM03504810LN	35	48	10	104	LOW	NBR
RSM03504810LN	35	48	10	104	LOW/LH	NBR
RSM03504906LN	35	49	6	104	LOW/RH	NBR
RSM03504907LN	35	49	7	104	LOW/LH	NBR
RSM03504908LN	35	49	8	104	LOW	NBR
RSM035049212LN	35	49.2	12.5	104	LOW/LH	NBR
RSM035049508H	35	49.5	8	122	HIGH	NBR
RSM035049508H	35	49.5	8	122	HIGH	NBR
RSM035049510LN	35	49.5	10	104	LOW	NBR
RSM035049512LN	35	49.5	12	104	LOW	NBR
RSM03505004LN	35	50	4	104	LOW	NBR
RSM03505005LN	35	50	5	104	LOW	NBR
RSM03505007HN	35	50	7	122	HIGH	NBR
RSM03505007LN	35	50	7	104	LOW	NBR
RSM03505007LV	35	50	7	104	LOW	VITON
RSM03505008LN	35	50	8	104	LOW	NBR
RSM03505008LN	35	50	8	104	LOW/LH	NBR
RSM03505008LV	35	50	8	104	LOW	VITON
RSM03505010LN	35	50	10	104	LOW	NBR
RSM03505010LV	35	50	10	104	LOW	VITON
RSM03505011LN	35	50	11	104	LOW	NBR
RSM03505011LN	35	50	11	104	LOW/LH	NBR
RSM03505012LN	35	50	12	104	LOW	NBR
RSM03505012LN	35	50	12	104	LOW/LH	NBR
RSM03505012LV	35	50	12	104	LOW	VITON
RSM03505108LN	35	51	8	104	LOW	NBR
RSM03505109LN	35	51	9	104	LOW	NBR
RSM03505110LN	35	51	10	104	LOW	NBR
RSM03505205LN	35	52	5	104	LOW	NBR
RSM03505206HV	35	52	6	122	HIGH	VITON
RSM03505206LN	35	52	6	104	LOW	NBR
RSM03505206LV	35	52	6	104	LOW	VITON
RSM03505206HN	35	52	6	122	HIGH	NBR
RSM03505207LV	35	52	7	104	LOW	VITON
RSM03505207HN	35	52	7	122	HIGH	NBR
RSM03505207LN	35	52	7	104	LOW	NBR
RSM03505207LN	35	52	7	135	LOW	NBR
RSM03505208LV	35	52	8	104	LOW	VITON
RSM03505208LN	35	52	8	104	LOW	NBR
RSM03505209LN	35	52	9	104	LOW	NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM03505210LN	35	52	10	104	LOW		NBR
RSM03505210LN	35	52	10	135	LOW		NBR
RSM03505210LN	35	52	10	104	LOW/RH		NBR
RSM03505210LV	35	52	10	104	LOW		VITON
RSM03505211LN	35	52	11	104	LOW		NBR
RSM03505212LN	35	52	12	104	LOW		NBR
RSM03505212LN	35	52	12	135	LOW		NBR
RSM03505212LV	35	52	12	104	LOW		VITON
RSM03505307LN	35	53	7	103	LOW		NBR
RSM03505310LN	35	53	10	104	LOW		NBR
RSM03505406HN	35	54	6	122	HIGH		NBR
RSM035054075LN	35	54	7.5	104	LOW		NBR
RSM03505408LN	35	54	8	104	LOW		NBR
RSM03505408LV	35	54	8	104	LOW		VITON
RSM03505410LN	35	54	10	104	LOW		NBR
RSM03505410LV	35	54	10	104	LOW		VITON
RSM03505507LN	35	55	7	104	LOW		NBR
RSM03505507LV	35	55	7	104	LOW		VITON
RSM03505508LN	35	55	8	104	LOW		NBR
RSM03505508LV	35	55	8	104	LOW		VITON
RSM03505509LN	35	55	9	104	LOW		NBR
RSM03505509LV	35	55	9	133	LOW		VITON
RSM03505510HV	35	55	10	122	HIGH		VITON
RSM03505510LV	35	55	10	304	LOW		VITON
RSM03505510LN	35	55	10	104	LOW		NBR
RSM03505510HN	35	55	10	126	HIGH		NBR
RSM03505510LV	35	55	10	104	LOW		VITON
RSM03505511HN	35	55	11	122	HIGH		NBR
RSM03505511LN	35	55	11	104	LOW		NBR
RSM03505511LV	35	55	11	104	LOW		VITON
RSM03505512LN	35	55	12	104	LOW		NBR
RSM03505512LV	35	55	12	104	LOW		VITON
RSM035055509LN	35	55.5	9	104	LOW		NBR
RSM03505606LN	35	56	6	104	LOW		NBR
RSM03505607LN	35	56	7	104	LOW		NBR
RSM03505607LV	35	56	7	104	LOW		VITON
RSM03505608LN	35	56	8	104	LOW		NBR
RSM03505609LN	35	56	9	104	LOW		NBR
RSM03505609LV	35	56	9	133	LOW		VITON
RSM03505610LN	35	56	10	104	LOW		NBR
RSM03505610LV	35	56	10	104	LOW		VITON
RSM03505707LN	35	57	7	104	LOW		NBR
RSM03505708HN	35	57	8	122	HIGH		NBR
RSM03505708LN	35	57	8	104	LOW		NBR

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM03505709LN	35	57	9	104	LOW		NBR
RSM03505709LV	35	57	9	104	LOW		VITON
RSM03505709LV	35	57	9	133	LOW		VITON
RSM03505710LN	35	57	10	104	LOW		NBR
RSM03505807LN	35	58	7	104	LOW		NBR
RSM03505808LN	35	58	8	104	LOW		NBR
RSM03505808LV	35	58	8	104	LOW		VITON
RSM03505808HN	35	58	8	121	HIGH		NBR
RSM03505809LN	35	58	9	104	LOW		NBR
RSM03505810LN	35	58	10	104	LOW		NBR
RSM03505810LV	35	58	10	104	LOW		VITON
RSM03505811LN	35	58	11	104	LOW		NBR
RSM03505812LN	35	58	12	104	LOW		NBR
RSM03505812LV	35	58	12	104	LOW		VITON
RSM03505815LN	35	58	15	104	LOW		NBR
RSM03505912LN	35	59	12	104	LOW		NBR
RSM03506007LN	35	60	7	104	LOW		NBR
RSM03506008LN	35	60	8	104	LOW		NBR
RSM03506010LN	35	60	10	104	LOW		NBR
RSM03506010LV	35	60	10	104	LOW		VITON
RSM03506012LN	35	60	12	104	LOW		NBR
RSM03506012LV	35	60	12	104	LOW		VITON
RSM03506015LV	35	60	15	304	LOW		VITON
RSM03506206LN	35	62	6	104	LOW		NBR
RSM03506207HN	35	62	7	122	HIGH		NBR
RSM03506207LV	35	62	7	104	LOW		VITON
RSM03506207HV	35	62	7	122	HIGH		VITON
RSM03506207LN	35	62	7	104	LOW		NBR
RSM03506508LN	35	62	8	104	LOW		NBR
RSM03506208LN	35	62	8	104	LOW		NBR
RSM03506208LN	35	62	8	135	LOW		NBR
RSM03506208LV	35	62	8	104	LOW		VITON
RSM03506209LN	35	62	9	104	LOW		NBR
RSM035062095LN	35	62	9.5	104	LOW		NBR
RSM03506210LN	35	62	10	104	LOW		NBR
RSM03506210LV	35	62	10	104	LOW		VITON
RSM03506212LV	35	62	12	104	LOW		VITON
RSM03506212LN	35	62	12	104	LOW		NBR
RSM03506214LN	35	62	14	135	LOW		NBR
RSM03506309LV	35	63	9	133	LOW		VITON
RSM03506409LN	35	64	9	104	LOW		NBR
RSM03506410LN	35	64	10	104	LOW		NBR
RSM03506413LN	35	64	13	104	LOW		NBR
RSM03506507LN	35	65	7	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM03506510LN	35	65	10	104	LOW		NBR
RSM03506510LV	35	65	10	104	LOW		VITON
RSM03506512LN	35	65	12	104	LOW		NBR
RSM03506512LV	35	65	12	104	LOW		VITON
RSM03506808LN	35	68	8	104	LOW		NBR
RSM03506810LN	35	68	10	104	LOW		NBR
RSM03506810LV	35	68	10	104	LOW		VITON
RSM03506812LN	35	68	12	104	LOW		NBR
RSM03507008LN	35	70	8	104	LOW		NBR
RSM03507010LV	35	70	10	104	LOW		VITON
RSM03507010LN	35	70	10	104	LOW		NBR
RSM03507207LN	35	72	7	104	LOW		NBR
RSM03507207LV	35	72	7	104	LOW		VITON
RSM03507208LN	35	72	8	104	LOW		NBR
RSM03507208LV	35	72	8	104	LOW		VITON
RSM03507210LV	35	72	10	104	LOW		VITON
RSM03507210LN	35	72	10	104	LOW		NBR
RSM03507212LV	35	72	12	104	LOW		VITON
RSM03507212LN	35	72	12	104	LOW		NBR
RSM03507507LN	35	75	7	104	LOW		NBR
RSM03507507LV	35	75	7	104	LOW		VITON
RSM03507508LN	35	75	8	104	LOW		NBR
RSM03507515LN	35	75	15	104	LOW		NBR
RSM03507609LN	35	76	9	104	LOW		NBR
RSM03507610LN	35	76	10	104	LOW		NBR
RSM03507810LN	35	78	10	104	LOW		NBR
RSM03508007LN	35	80	7	104	LOW		NBR
RSM03508008LV	35	80	8	104	LOW		VITON
RSM03508008LN	35	80	8	104	LOW		NBR
RSM03508010LN	35	80	10	104	LOW		NBR
RSM03508010LV	35	80	10	104	LOW		VITON
RSM03508012LN	35	80	12	104	LOW		NBR
RSM03508013LN	35	80	13	104	LOW		NBR
RSM03508207LN	35	82	7	104	LOW		NBR
RSM03510010LN	35	100	10	104	LOW		NBR
RSM035710508LN	35.7	50.8	8	104	LOW		NBR
RSM03604405LN	36	44	5	104	LOW		NBR
RSM03604604LN	36	46	4	104	LOW		NBR
RSM03604606LN	36	46	6	104	LOW		NBR
RSM03604608LN	36	46	8	104	LOW		NBR
RSM03604707LN	36	47	7	104	LOW		NBR
RSM03604707LV	36	47	7	104	LOW		VITON
RSM03604810LV	36	48	10	104	LOW		VITON
RSM03604810LN	36	48	10	104	LOW		NBR
RSM03604907LN	36	49	7	104	LOW/RH		NBR
RSM03604909LN	36	49	9	104	LOW		NBR
RSM03605010LN	36	50		104	LOW		NBR
RSM03605007LN	36	50	7	103	LOW		NBR
RSM03605007LV	36	50	7	104	LOW		VITON
RSM03605008LN	36	50	8	104	LOW		NBR
RSM03605010LN	36	50	10	104	LOW/LH		NBR
RSM03605010LV	36	50	10	104	LOW		VITON
RSM03605108LN	36	51	8	104	LOW		NBR
RSM036052063LN	36	52	6.3	104	LOW		NBR
RSM03605207LN	36	52	7	104	LOW		NBR
RSM03605207LV	36	52	7	104	LOW		VITON
RSM03605208LN	36	52	8	135	LOW		NBR
RSM03605210LN	36	52	10	104	LOW		NBR
RSM03605309LN	36	53	9	104	LOW		NBR
RSM03605407LN	36	54	7	104	LOW		NBR
RSM036054075LN	36	54	7.5	104	LOW		NBR
RSM036054075LV	36	54	7.5	104	LOW		VITON
RSM03605408LN	36	54	8	104	LOW		NBR
RSM03605410LN	36	54	10	104	LOW		NBR
RSM03605411LN	36	54	11	104	LOW		NBR
RSM03605507LN	36	55	7	104	LOW		NBR
RSM03605510LN	36	55	10	104	LOW		NBR
RSM03605510LV	36	55	10	104	LOW		VITON
RSM03605608LN	36	56	8	104	LOW		NBR
RSM03605608LV	36	56	8	104	LOW		VITON
RSM03605609LN	36	56	9	104	LOW		NBR
RSM03605707LN	36	57	7	104	LOW		NBR
RSM03605808LN	36	58	8	104	LOW		NBR
RSM03605810LN	36	58	10	104	LOW		NBR
RSM03605812LN	36	58	12	104	LOW		NBR
RSM03606008LN	36	60	8	104	LOW		NBR
RSM03606010LN	36	60	10	104	LOW		NBR
RSM03606207LN	36	62	7	104	LOW		NBR
RSM03606210LN	36	62	10	104	LOW		NBR
RSM03606810LN	36	68	10	104	LOW		NBR
RSM03607207LN	36	72	7	135	LOW		NBR
RSM03650505LN	36.5	50.5	7	104	LOW/RH		NBR
RSM036508010LN	36.5	80	10	104	LOW		NBR
RSM03704510LN	37	45	10	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE ROTATION	MATERIAL
RSM03704704ZN	37	47	4	137	ZERO	NBR
RSM03704707LN	37	47	7	104	LOW	NBR
RSM03704707LV	37	47	7	104	LOW	VITON
RSM03704710LV	37	47	10	104	LOW	VITON
RSM03704710LN	37	47	10	104	LOW	NBR
RSM037047505LN	37	47.5	5	104	LOW	NBR
RSM03704806LN	37	48	6	104	LOW	NBR
RSM03705006LN	37	50	6	104	LOW/RH	NBR
RSM03705207LN	37	52	7	104	LOW	NBR
RSM03705208LN	37	52	8	104	LOW	NBR
RSM03705210LN	37	52	10	104	LOW	NBR
RSM03705212LN	37	52	12	104	LOW	NBR
RSM03705307LN	37	53	7	104	LOW	NBR
RSM03705509LN	37	55	9	104	LOW	NBR
RSM03705709LN	37	57	9	104	LOW	NBR
RSM03705710LN	37	57	10	104	LOW	NBR
RSM03705807LN	37	58	7	104	LOW	NBR
RSM03705808LN	37	58	8	104	LOW	NBR
RSM03706010LN	37	60	10	104	LOW	NBR
RSM03706110LN	37	61	10	104	LOW	NBR
RSM03706207LN	37	62	7	104	LOW	NBR
RSM03706207LV	37	62	7	104	LOW	VITON
RSM03706208LN	37	62	8	104	LOW	NBR
RSM03706208LV	37	62	8	104	LOW	VITON
RSM03706209LN	37	62	9	104	LOW	NBR
RSM03706210LN	37	62	10	104	LOW	NBR
RSM03706214LN	37	62	14	104	LOW	NBR
RSM03706607LN	37	66	7	104	LOW	NBR
RSM037066095LN	37	66	9.5	104	LOW	NBR
RSM03707207LN	37	72	7	104	LOW	NBR
RSM037505006LN	37.5	50	6	104	LOW/RH	NBR
RSM03746065LN	37.5	65.1	9.5	104	LOW	NBR
RSM037804806LN	37.8	48	6	104	LOW	NBR
RSM03804508LN	38	45	8	104	LOW	NBR
RSM03804707LN	38	47	7	104	LOW	NBR
RSM03804710LN	38	47	10	104	LOW	NBR
RSM03804806LN	38	48	6	104	LOW	NBR
RSM03804807LN	38	48	7	104	LOW	NBR
RSM03804808LN	38	48	8	104	LOW	NBR
RSM03804810LV	38	48	10	104	LOW	VITON
RSM03804810LN	38	48	10	104	LOW	NBR

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE ROTATION	MATERIAL
RSM03805006HN	38	50	6	122	HIGH	NBR
RSM03805007LN	38	50	7	104	LOW	NBR
RSM03805007LV	38	50	7	104	LOW	VITON
RSM03805008LN	38	50	8	104	LOW	NBR
RSM03805008LV	38	50	8	104	LOW	VITON
RSM03805010LN	38	50	10	104	LOW	NBR
RSM03805010LV	38	50	10	104	LOW	VITON
RSM03805107LN	38	51	7	104	LOW	NBR
RSM038051074LN	38	51	7.4	104	LOW	NBR
RSM03805206LN	38	52	6	104	LOW	NBR
RSM03805207LV	38	52	7	104	LOW	VITON
RSM03805207LN	38	52	7	104	LOW	NBR
RSM03805208LN	38	52	8	104	LOW	NBR
RSM03805208LV	38	52	8	104	LOW	VITON
RSM038052085LN	38	52	8.5	104	LOW	NBR
RSM03805209LN	38	52	9	104	LOW	NBR
RSM03805210LN	38	52	10	104	LOW	NBR
RSM03805210LV	38	52	10	104	LOW	VITON
RSM03805308LN	38	53	8	104	LOW	NBR
RSM03805310LN	38	53	10	104	LOW	NBR
RSM03805405LN	38	54	5	104	LOW	NBR
RSM03805407LN	38	54	7	104	LOW	NBR
RSM03805408LN	38	54	8	104	LOW	NBR
RSM03805410LN	38	54	10	104	LOW	NBR
RSM03805507LV	38	55	7	104	LOW	VITON
RSM03805507LN	38	55	7	104	LOW	NBR
RSM03805508LN	38	55	8	104	LOW	NBR
RSM03805508LV	38	55	8	104	LOW	VITON
RSM03805509LN	38	55	9	104	LOW	NBR
RSM03805510LN	38	55	10	104	LOW	NBR
RSM03805510LV	38	55	10	104	LOW	VITON
RSM03805512LN	38	55	12	104	LOW	NBR
RSM03805607LN	38	56	7	104	LOW	NBR
RSM03805607LV	38	56	7	104	LOW	VITON
RSM03805608LV	38	56	8	133	LOW	VITON
RSM03805610LV	38	56	10	104	LOW	VITON
RSM03805610LN	38	56	10	104	LOW	NBR
RSM03805612LN	38	56	12	104	LOW	NBR
RSM03805707LN	38	57	7	104	LOW	NBR
RSM03805708LN	38	57	8	104	LOW	NBR
RSM03805709LN	38	57	9	104	LOW	NBR
RSM03805807LN	38	58	7	104	LOW	NBR
RSM03805807LV	38	58	7	104	LOW	VITON
RSM03805808LN	38	58	8	104	LOW	NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM03805808LV	38	58	8	104	LOW		VITON
RSM03805809LV	38	58	9	104	LOW		VITON
RSM03805809LN	38	58	9	104	LOW		NBR
RSM03805810LN	38	58	10	104	LOW		NBR
RSM03805810LV	38	58	10	104	LOW		VITON
RSM03805811LV	38	58	11	104	LOW		VITON
RSM03805811HV	38	58	11	123	LOW		VITON
RSM03805811LN	38	58	11	104	LOW		NBR
RSM03805811LV	38	58	11	304	LOW		VITON
RSM03805908LN	38	59	8	104	LOW		NBR
RSM03805909LN	38	59	9	104	LOW/RH		NBR
RSM03805909LV	38	59	9	133	LOW/L		VITON
RSM03806007LN	38	60	7	104	LOW		NBR
RSM03806008LN	38	60	8	104	LOW		NBR
RSM03806008LV	38	60	8	104	LOW		VITON
RSM03806010LN	38	60	10	104	LOW		NBR
RSM03806010LV	38	60	10	104	LOW		VITON
RSM03806206LN	38	62	6	104	LOW		NBR
RSM03806207LV	38	62	7	104	LOW		VITON
RSM03806207HN	38	62	7	122	HIGH		NBR
RSM03806207LN	38	62	7	104	LOW		NBR
RSM03806208LN	38	62	8	104	LOW		NBR
RSM03806208LV	38	62	8	104	LOW		VITON
RSM03806210LN	38	62	10	104	LOW		NBR
RSM03806210LV	38	62	10	104	LOW		VITON
RSM03806211LN	38	62	11	104	LOW		NBR
RSM03806212LN	38	62	12	104	LOW		NBR
RSM03806212LV	38	62	12	104	LOW		VITON
RSM03806309LN	38	63	9	104	LOW		NBR
RSM03806410LN	38	64	10	104	LOW		NBR
RSM03806508LN	38	65	8	104	LOW		NBR
RSM03806509LN	38	65	9	104	LOW		NBR
RSM03806510LN	38	65	10	104	LOW		NBR
RSM03806510LV	38	65	10	104	LOW		VITON
RSM03806808LN	38	68	8	104	LOW		NBR
RSM03806810LN	38	68	10	104	LOW		NBR
RSM03806812LN	38	68	12	104	LOW		NBR
RSM03807007LN	38	70	7	104	LOW		NBR
RSM03807010LN	38	70	10	104	LOW		NBR
RSM03807208LN	38	72	8	104	LOW		NBR
RSM03807210LN	38	72	10	104	LOW		NBR
RSM03807211LN	38	72	11	104	LOW		NBR
RSM03807212LN	38	72	12	104	LOW		NBR
RSM03807408LN	38	74	8	104	LOW		NBR

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM03807410LN	38	74	10	104	LOW		NBR
RSM03807411LN	38	74	11	104	LOW		NBR
RSM03807510LN	38	75	10	104	LOW		NBR
RSM03808008LN	38	80	8	104	LOW		NBR
RSM03809010LV	38	90	10	104	LOW		VITON
RSM039050508LN	39	50.5	8.5	104	LOW		NBR
RSM039051075LN	39	51	7.5	104	LOW		NBR
RSM03905205ZN	39	52	5	137	ZERO		NBR
RSM03905209LN	39	52	9	104	LOW		NBR
RSM03905607LN	39	56	7	104	LOW		NBR
RSM03905608LV	39	56	8	133	LOW		VITON
RSM03905806LN	39	58	6	104	LOW		NBR
RSM03906008LN	39	60	8	104	LOW		NBR
RSM039506010LN	39.5	60	10	104	LOW		NBR
RSM04004704LN	40	47	4	104	LOW		NBR
RSM04004707LN	40	47	7	104	LOW		NBR
RSM04004804LV	40	48	4	104	LOW		VITON
RSM04004804LN	40	48	4	104	LOW		NBR
RSM04004805LN	40	48	5	104	LOW		NBR
RSM04005004LN	40	50	4	104	LOW		NBR
RSM04005004ZN	40	50	4	137	ZERO		NBR
RSM04005005LN	40	50	5	104	LOW		NBR
RSM040050065LN	40	50	6.5	104	LOW		NBR
RSM04005007LN	40	50	7	104	LOW		NBR
RSM04005007LV	40	50	7	104	LOW		VITON
RSM04005008LV	40	50	8	104	LOW		VITON
RSM04005008LN	40	50	8	104	LOW		NBR
RSM04005010LN	40	50	10	104	LOW		NBR
RSM04005106LN	40	51	6	104	LOW		NBR
RSM04005205HV	40	52	5	122	HIGH		VITON
RSM04005205LN	40	52	5	104	LOW		NBR
RSM04005206LN	40	52	6	104	LOW		NBR
RSM04005206LN	40	52	6	104	LOW/RH		NBR
RSM04005207LN	40	52	7	104	LOW		NBR
RSM04005207LV	40	52	7	104	LOW		VITON
RSM04005207LV	40	52	7	104	LOW		VITON
RSM04005207HN	40	52	7	122	HIGH		NBR
RSM040052075LN	40	52	7.5	135	LOW		NBR
RSM04005207HV	40	52	7.5	122	HIGH		VITON
RSM04005208LN	40	52	8	104	LOW		NBR
RSM04005208LN	40	52	8	103	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM04005208LV	40	52	8	104	LOW		VITON
RSM04005209LN	40	52	9	104	LOW		NBR
RSM04005209LV	40	52	9	104	LOW		VITON
RSM04005210LN	40	52	10	104	LOW		NBR
RSM04005210LV	40	52	10	104	LOW		VITON
RSM040052115H	40	52	11.5	122	HIGH		NBR
RSM040053065LN	40	53	6.5	104	LOW		NBR
RSM04005307LN	40	53	7	104	LOW		NBR
RSM04005405LN	40	54	5	104	LOW		NBR
RSM040054055LN	40	54	5.5	104	LOW		NBR
RSM04005407LN	40	54	7	104	LOW		NBR
RSM04005407LV	40	54	7	104	LOW		VITON
RSM04005408LN	40	54	8	104	LOW		NBR
RSM04005410LN	40	54	10	104	LOW		NBR
RSM04005411LN	40	54	11	135	LOW		NBR
RSM04005505LN	40	55	5	104	LOW		NBR
RSM04005506LN	40	55	6	104	LOW		NBR
RSM04005506LN	40	55	6	104	LOW/RH		NBR
RSM04005507LN	40	55	7	135	LOW		NBR
RSM04005507LV	40	55	7	104	LOW		VITON
RSM04005507LN	40	55	7	104	LOW		NBR
RSM04005507HV	40	55	7	122	HIGH		VITON
RSM04005507HN	40	55	7	122	HIGH		NBR
RSM04005507SL	40	55	7	103	LOW		NBR
RSM04005508LN	40	55	8	104	LOW		NBR
RSM04005508LN	40	55	8	104	LOW/RH		NBR
RSM04005508LV	40	55	8	104	LOW		VITON
RSM04005509LN	40	55	9	104	LOW		NBR
RSM04005509LN	40	55	9	104	LOW/RH		NBR
RSM04005510LV	40	55	10	104	LOW		VITON
RSM04005510LN	40	55	10	135	LOW		NBR
RSM04005510LN	40	55	10	104	LOW		NBR
RSM04005512LV	40	55	12	104	LOW		VITON
RSM04005512LN	40	55	12	104	LOW		NBR
RSM04005606HN	40	56	6	122	HIGH		NBR
RSM04005606LN	40	56	6	104	LOW		NBR
RSM04005607LN	40	56	7	104	LOW/RH		NBR
RSM04005608LV	40	56	7	104	LOW		VITON
RSM04005607LV	40	56	7	104	LOW		VITON
RSM04005607LN	40	56	7	104	LOW		NBR
RSM04005607HV	40	56	7	126	HIGH		VITON
RSM04005608LV	40	56	8	133	LOW		VITON
RSM04005608LN	40	56	8	104	LOW		NBR
RSM04005610LN	40	56	10	104	LOW		NBR

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM04005610LV	40	56	10	104	LOW		VITON
RSM04005708LN	40	57	8	104	LOW		NBR
RSM04005710LN	40	57	10	104	LOW		NBR
RSM04005808LN	40	58	8	104	LOW		NBR
RSM04005808LV	40	58	8	104	LOW		VITON
RSM040058085LN	40	58	8.5	104	LOW		NBR
RSM04005809LN	40	58	9	104	LOW		NBR
RSM04005810HN	40	58	10	122	HIGH		NBR
RSM04005810LN	40	58	10	104	LOW		NBR
RSM04005810LN	40	58	10	104	LOW/RH		NBR
RSM04005810LV	40	58	10	104	LOW		VITON
RSM040058105LN	40	58	10.5	135	LOW		NBR
RSM04005812LN	40	58	12	104	LOW		NBR
RSM04006007LV	40	60	7	104	LOW		VITON
RSM04006007HN	40	60	7	122	HIGH		NBR
RSM04006007LN	40	60	7	104	LOW		NBR
RSM04006008LN	40	60	8	104	LOW		NBR
RSM04006008LV	40	60	8	104	LOW		VITON
RSM04006010LV	40	60	10	104	LOW		VITON
RSM04006010HN	40	60	10	122	HIGH		NBR
RSM04006010LN	40	60	10	104	LOW		NBR
RSM04006010LN	40	60	10	104	LOW/RH		NBR
RSM04006012LV	40	60	12	104	LOW		VITON
RSM04006012LN	40	60	12	104	LOW		NBR
RSM04006108LV	40	61	8	104	LOW		VITON
RSM04006110HN	40	61	10	128	HIGH		NBR
RSM04006112LN	40	61	12	104	LOW		NBR
RSM04006205LN	40	62	5	104	LOW		NBR
RSM04006206LN	40	62	6	104	LOW		NBR
RSM04006206LV	40	62	6	104	LOW		VITON
RSM04006206HV	40	62	6	122	HIGH		VITON
RSM04006206HN	40	62	6	122	HIGH		NBR
RSM04006207LN	40	62	7	104	LOW		NBR
RSM04006207LV	40	62	7	104	LOW		VITON
RSM04006207HV	40	62	7	122	HIGH		VITON
RSM04006208LN	40	62	8	104	LOW		NBR
RSM04006208LV	40	62	8	104	LOW		VITON
RSM04006209LN	40	62	9	104	LOW		NBR
RSM04006209LV	40	62	9	104	LOW		VITON
RSM04006210LN	40	62	10	104	LOW		NBR
RSM04006210LV	40	62	10	104	LOW		VITON
RSM04006210LN	40	62	10	104	LOW/RH		NBR
RSM04006211HN	40	62	11	374	HIGH		NBR
RSM04006211LN	40	62	11	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM04006211LV	40	62	11	304	LOW		VITON
RSM04006211LV	40	62	11	104	LOW		VITON
RSM04006212LN	40	62	12	104	LOW		NBR
RSM04006212LV	40	62	12	104	LOW		VITON
RSM04006213LN	40	62	13	135	LOW		NBR
RSM04006214LN	40	62	14	104	LOW		NBR
RSM04006307LN	40	63	7	104	LOW		NBR
RSM04006410LN	40	64	10	104	LOW		NBR
RSM04006412LN	40	64	12	104	LOW		NBR
RSM04006506LN	40	65	6	104	LOW		NBR
RSM04006507LN	40	65	7	104	LOW		NBR
RSM04006508LN	40	65	8	104	LOW		NBR
RSM04006508LV	40	65	8	104	LOW		VITON
RSM04006510LN	40	65	10	104	LOW		NBR
RSM04006510LV	40	65	10	104	LOW		VITON
RSM04006512LN	40	65	12	104	LOW		NBR
RSM04006512LV	40	65	12	104	LOW		VITON
RSM04006513LN	40	65	13	104	LOW		NBR
RSM04006607LN	40	66	7	104	LOW		NBR
RSM04006611LN	40	66	11	104	LOW		NBR
RSM04006707LV	40	67	7	104	LOW		VITON
RSM04006707HV	40	67	7	122	HIGH		VITON
RSM04006806LN	40	68	6	104	LOW		NBR
RSM04006806LV	40	68	6	104	LOW		VITON
RSM04006807LN	40	68	7	104	LOW		NBR
RSM04006807LV	40	68	7	104	LOW		VITON
RSM04006808LN	40	68	8	104	LOW		NBR
RSM04006808LV	40	68	8	104	LOW		VITON
RSM04006810LN	40	68	10	104	LOW		NBR
RSM04006810LV	40	68	10	104	LOW		VITON
RSM04006811LN	40	68	11	104	LOW		NBR
RSM04006812LV	40	68	12	104	LOW		VITON
RSM04006812LN	40	68	12	104	LOW		NBR
RSM04007008LN	40	70	8	104	LOW		NBR
RSM04007008LV	40	70	8	104	LOW		VITON
RSM04007010LN	40	70	10	104	LOW		NBR
RSM04007010LV	40	70	10	104	LOW		VITON
RSM04007012LN	40	70	12	104	LOW		NBR
RSM04007012LV	40	70	12	104	LOW		VITON
RSM04007207LN	40	72	7	104	LOW		NBR
RSM04007207LV	40	72	7	104	LOW		VITON
RSM04007208LN	40	72	8	104	LOW		NBR
RSM04007209LN	40	72	9	104	LOW		NBR
RSM04007210HV	40	72	10	128	HIGH		VITON

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM04007210LN	40	72	10	104	LOW		NBR
RSM04007210LV	40	72	10	104	LOW		VITON
RSM04007212LN	40	72	12	104	LOW		NBR
RSM04007212LV	40	72	12	104	LOW		VITON
RSM04007410LN	40	74	10	104	LOW		NBR
RSM04007505LN	40	75	5	104	LOW		NBR
RSM04007508LN	40	75	8	104	LOW		NBR
RSM04007510LN	40	75	10	104	LOW		NBR
RSM04007510LV	40	75	10	104	LOW		VITON
RSM04007512LN	40	75	12	104	LOW		NBR
RSM04007512LV	40	75	12	104	LOW		VITON
RSM04007608LN	40	76	8	104	LOW		NBR
RSM04007808LN	40	78	8	104	LOW		NBR
RSM04008007LN	40	80	7	104	LOW		NBR
RSM04008008LN	40	80	8	104	LOW		NBR
RSM04008008LV	40	80	8	104	LOW		VITON
RSM04008010LN	40	80	10	104	LOW		NBR
RSM04008010LV	40	80	10	104	LOW		VITON
RSM04008012LN	40	80	12	104	LOW		NBR
RSM04008012LV	40	80	12	104	LOW		VITON
RSM04008013LN	40	80	13	104	LOW		NBR
RSM04008212LN	40	82	12	104	LOW		NBR
RSM04008510LN	40	85	10	104	LOW		NBR
RSM04008510LV	40	85	10	104	LOW		VITON
RSM04008512LN	40	85	12	104	LOW		NBR
RSM04009008LN	40	90	8	104	LOW		NBR
RSM04009008LV	40	90	8	104	LOW		VITON
RSM04009009LN	40	90	9	104	LOW		NBR
RSM04009010LN	40	90	10	104	LOW		NBR
RSM04009010LV	40	90	10	104	LOW		VITON
RSM04009012LV	40	90	12	104	LOW		VITON
RSM04009012LN	40	90	12	104	LOW		NBR
RSM04010010LN	40	100	10	104	LOW		NBR
RSM04010013LN	40	100	13	104	LOW		NBR
RSM04105207LN	41	52	7	104	LOW		NBR
RSM04105307LN	41	53	7	104	LOW		NBR
RSM04105308LN	41	53	8	104	LOW		NBR
RSM04105308HN	41	53	9.5	131	HIGH		NBR
RSM04105407LN	41	54	7	104	LOW		NBR
RSM04105411LN	41	54	11	135	LOW		NBR
RSM04105411HN	41	54	11	131	HIGH		NBR
RSM04105509LN	41	55	9	104	LOW		NBR
RSM041055709LN	41	55.7	9	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM04105607LN	41	56	7	104	LOW		NBR
RSM04105608LN	41	56	8	104	LOW		NBR
RSM04105608LN	41	56	8	104	LOW/RH		NBR
RSM04105610LN	41	56	10	104	LOW		NBR
RSM04106109LV	41	61	9	13	LOW		VITON
RSM04106410LN	41	64	10	104	LOW		NBR
RSM041064512LN	41	64.5	12	104	LOW		NBR
RSM041705507LN	41.7	55	7	104	LOW		NBR
RSM04205006LN	42	50	6	104	LOW		NBR
RSM04205007LN	42	50	7	104	LOW		NBR
RSM04205008LN	42	50	8	104	LOW		NBR
RSM04205204LN	42	52	4	104	LOW		NBR
RSM04205205LN	42	52	5	104	LOW		NBR
RSM04205207LN	42	52	7	104	LOW		NBR
RSM04205207LV	42	52	7	104	LOW		VITON
RSM04205208LN	42	52	8	104	LOW		NBR
RSM04205209LN	42	52	9	104	LOW		NBR
RSM04205210LN	42	52	10	104	LOW		NBR
RSM04205307LN	42	53	7	104	LOW		NBR
RSM04205405LN	42	54	5	104	LOW		NBR
RSM04205406LN	42	54	6	104	LOW		NBR
RSM04205407LN	42	54	7	104	LOW		NBR
RSM04205410LN	42	54	10	104	LOW		NBR
RSM04205505LN	42	55	5	104	LOW		NBR
RSM04205506LN	42	55	6	104	LOW		NBR
RSM04205507LV	42	55	7	104	LOW		VITON
RSM04205507LN	42	55	7	104	LOW		NBR
RSM04205507LN	42	55	7	104	LOW		NBR
RSM04205507HV	42	55	7	122	HIGH		VITON
RSM042055075H	42	55	7.5	122	HIGH		NBR
RSM04205508LN	42	55	8	104	LOW		NBR
RSM04205508LN	42	55	8	104	LOW		NBR
RSM04205508LV	42	55	8	104	LOW		VITON
RSM04205509LN	42	55	9	104	LOW		NBR
RSM04205509LV	42	55	9	104	LOW		VITON
RSM04205509LN	42	55	9	104	LOW		NBR
RSM04205510LN	42	55	10	104	LOW		NBR
RSM04205510LN	42	55	10	104	LOW		NBR
RSM04205510LV	42	55	10	104	LOW		VITON
RSM042056079LN	42	56	7	104	LOW		NBR
RSM04205607LN	42	56	7	104	LOW		NBR
RSM04205607LV	42	56	7	104	LOW		VITON

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM04205608LN	42	56	8	104	LOW		NBR
RSM04205610LN	42	56	10	104	LOW		NBR
RSM04205610LV	42	56	10	104	LOW		VITON
RSM042057110LN	42	57.2	10	104	LOW		NBR
RSM04205807LN	42	58	7	104	LOW		NBR
RSM04205808LN	42	58	8	104	LOW		NBR
RSM04205810LN	42	58	10	104	LOW		NBR
RSM04205810LV	42	58	10	104	LOW		VITON
RSM04205813LN	42	58	13	104	LOW		NBR
RSM04206005LN	42	60	5	104	LOW		NBR
RSM04206006LN	42	60	6	104	LOW/RH		NBR
RSM04206007LN	42	60	7	104	LOW		NBR
RSM04206007LN	42	60	7	104	LOW/RH		NBR
RSM04206007LV	42	60	7	104	LOW		VITON
RSM04206008LN	42	60	8	104	LOW		NBR
RSM04206008LV	42	60	8	104	LOW		VITON
RSM04206009LN	42	60	9	104	LOW		NBR
RSM04206009LV	42	60	9	104	LOW		VITON
RSM04206010LN	42	60	10	104	LOW		NBR
RSM04206010LV	42	60	10	104	LOW		VITON
RSM04206012LV	42	60	12	104	LOW		VITON
RSM04206012LN	42	60	12	104	LOW		NBR
RSM04206206HN	42	62	6	122	HIGH		NBR
RSM04206207LV	42	62	7	104	LOW		VITON
RSM04206207HN	42	62	7	122	HIGH		NBR
RSM04206207LN	42	62	7	104	LOW		NBR
RSM04206207LN	42	62	7	104	LOW/RH		NBR
RSM04206208LV	42	62	8	103	LOW		VITON
RSM04206208LN	42	62	8	104	LOW/RH		NBR
RSM04206208HN	42	62	8	122	HIGH		NBR
RSM04206208HV	42	62	8	122	HIGH		VITON
RSM04206208LN	42	62	8	104	LOW		NBR
RSM04206209LN	42	62	9	104	LOW		NBR
RSM04206210LN	42	62	10	104	LOW		NBR
RSM04206210LV	42	62	10	104	LOW		VITON
RSM04206212LN	42	62	12	104	LOW		NBR
RSM04206212LV	42	62	12	104	LOW		VITON
RSM04206407LN	42	64	7	104	LOW		NBR
RSM04206410LN	42	64	10	104	LOW		NBR
RSM04206507LN	42	65	7	104	LOW		NBR
RSM04206508LN	42	65	8	104	LOW		NBR
RSM04206508LV	42	65	8	104	LOW		VITON
RSM04206509LN	42	65	9	104	LOW		NBR
RSM04206510LN	42	65	10	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM04206510LV	42	65	10	104	LOW		VITON
RSM04206512HV	42	65	12	123	HIGH		VITON
RSM04206512LV	42	65	12	104	LOW		VITON
RSM04206512LV	42	65	12	304	LOW		VITON
RSM04206512LN	42	65	12	104	LOW		NBR
RSM04206608LN	42	66	8	104	LOW		NBR
RSM04206608LV	42	66	8	104	LOW		VITON
RSM04206610LN	42	66	10	104	LOW		NBR
RSM04206710LN	42	67	10	104	LOW		NBR
RSM04206712LN	42	67	12	104	LOW		NBR
RSM04206808LN	42	68	8	104	LOW		NBR
RSM04206808LV	42	68	8	104	LOW		VITON
RSM04206810LV	42	68	10	104	LOW		VITON
RSM04206810LN	42	68	10	104	LOW		NBR
RSM04206812LN	42	68	12	104	LOW		NBR
RSM04207008LN	42	70	8	104	LOW		NBR
RSM04207008LV	42	70	8	104	LOW		VITON
RSM04207010LV	42	70	10	104	LOW		VITON
RSM04207010LN	42	70	10	104	LOW		NBR
RSM04207012LN	42	70	12	104	LOW		NBR
RSM04207206LN	42	72	6	104	LOW		NBR
RSM04207207LN	42	72	7	104	LOW		NBR
RSM04207208LN	42	72	8	104	LOW		NBR
RSM04207208LV	42	72	8	104	LOW		VITON
RSM04207210LN	42	72	10	104	LOW		NBR
RSM04207210LV	42	72	10	104	LOW		VITON
RSM04207212LN	42	72	12	104	LOW		NBR
RSM04207510LN	42	75	10	104	LOW		NBR
RSM04207510LV	42	75	10	104	LOW		VITON
RSM04207512LN	42	75	12	104	LOW		NBR
RSM04207610LN	42	76	10	104	LOW		NBR
RSM04207810LN	42	78	10	104	LOW		NBR
RSM04208508LN	42	85	8	104	LOW		NBR
RSM04250545LN	42.5	54.5	6	104	LOW/RH		NBR
RSM04305304ZN	43	53	4	137	ZERO		NBR
RSM04305357LN	43	53.6	9.5	104	LOW		NBR
RSM04305407LN	43	54	7	104	LOW		NBR
RSM04305411HN	43	54	11	131	HIGH		NBR
RSM04305411LN	43	54	11	135	LOW		NBR
RSM04305506LN	43	55	6	104	LOW/RH		NBR
RSM04305507LN	43	55	7	104	LOW		NBR
RSM04305508LN	43	55	8	104	LOW		NBR
RSM04305509LN	43	55	9	104	LOW		NBR
RSM04305510LN	43	55	10	104	LOW		NBR
RSM043055105H	43	55	10.5	131	HIGH		NBR
RSM04305807LN	43	58	7	104	LOW		NBR
RSM04305808LN	43	58	8	104	LOW		NBR
RSM04305908LN	43	59	8	104	LOW		NBR
RSM04305910LN	43	59	10	104	LOW		NBR
RSM043060075LV	43	60	7.5	104	LOW		VITON
RSM04306010LN	43	60	10	104	LOW		NBR
RSM04306010LV	43	60	10	104	LOW		VITON
RSM04306015LN	43	60	15	104	LOW		NBR
RSM04306208LN	43	62	8	104	LOW		NBR
RSM04306212LN	43	62	12	104	LOW		NBR
RSM04306312LN	43	63	12	104	LOW		NBR
RSM04306508LN	43	65	8	104	LOW		NBR
RSM04306510LN	43	65	10	104	LOW		NBR
RSM04306510LV	43	65	10	104	LOW		VITON
RSM04306610LN	43	66	10	104	LOW		NBR
RSM04306808LN	43	68	8	104	LOW		NBR
RSM04307510LN	43	75	10	104	LOW		NBR
RSM04307510LV	43	75	10	104	LOW		VITON
RSM043660603LN	43.7	60.3	9.5	104	LOW		NBR
RSM04405406LN	44	54	6	104	LOW		NBR
RSM04405407LN	44	54	7	104	LOW		NBR
RSM044054075LN	44	54	7.5	104	LOW		NBR
RSM04405808LN	44	58	8	210	LOW		NBR
RSM04406007LV	44	60	7	104	LOW		VITON
RSM04406007LN	44	60	7	104	LOW		NBR
RSM04406008LN	44	60	8	104	LOW/RH		NBR
RSM04406010LN	44	60	10	104	LOW		NBR
RSM04406010LV	44	60	10	104	LOW		VITON
RSM04406108LN	44	61	8	104	LOW		NBR
RSM04406207LN	44	62	7	104	LOW		NBR
RSM04406208LN	44	62	8	104	LOW		NBR
RSM04406209LN	44	62	9	104	LOW		NBR
RSM04406210LN	44	62	10	104	LOW		NBR
RSM04406210LV	44	62	10	104	LOW		VITON
RSM04406210HN	44	62	10	122	HIGH		NBR
RSM044062115LN	44	62	11.5	104	LOW		NBR
RSM044040635LN	44	63.5	9.1	104	LOW		NBR
RSM04406409LN	44	64	9	104	LOW		NBR
RSM04406508LN	44	65	8	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE ROTATION	MATERIAL
RSM04406508LV	44	65	8	104	LOW	VITON
RSM04406510LN	44	65	10	104	LOW	NBR
RSM04406510LV	44	65	10	104	LOW	VITON
RSM04406511LN	44	65	11	104	LOW	NBR
RSM04406710LN	44	67	10	104	LOW	NBR
RSM04406808LV	44	68	8	104	LOW	VITON
RSM04406808LN	44	68	8	104	LOW	NBR
RSM04407010LN	44	70	10	104	LOW	NBR
RSM04407210LN	44	72	10	104	LOW	NBR
RSM04407210LV	44	72	10	104	LOW	VITON
RSM04407212LN	44	72	12	104	LOW	NBR
RSM04409210LN	44	92	10	104	LOW	NBR
RSM044710023LN	44.7	100.2	9.5	104	LOW	NBR
RSM04505204ZN	45	52	4	137	ZERO	NBR
RSM04505205LN	45	52	5	104	LOW	NBR
RSM04505207LV	45	52	7	104	LOW	VITON
RSM04505207LN	45	52	7	104	LOW	NBR
RSM04505208LN	45	52	8	104	LOW	NBR
RSM04505208LV	45	52	8	104	LOW	VITON
RSM045054045LN	45	54	4.5	104	LOW	NBR
RSM045054075LN	45	54	7.5	104	LOW	NBR
RSM04505504ZN	45	55	4	137	ZERO	NBR
RSM04505505LN	45	55	5	104	LOW	NBR
RSM04505506LN	45	55	6	212	LOW	NBR
RSM04505507LN	45	55	7	104	LOW	NBR
RSM04505507LV	45	55	7	104	LOW	VITON
RSM04505508LN	45	55	8	104	LOW	NBR
RSM04505510LN	45	55	10	104	LOW	NBR
RSM04505510LV	45	55	10	104	LOW	VITON
RSM04505607LN	45	56	7	104	LOW	NBR
RSM04505610LN	45	56	10	104	LOW	NBR
RSM04505707LN	45	57	7	104	LOW	NBR
RSM04505709LN	45	57	9	104	LOW	NBR
RSM04505711LN	45	57	11	135	LOW	NBR
RSM04505804LN	45	58	4	104	LOW	NBR
RSM04505806HN	45	58	6	122	HIGH	NBR
RSM04505807HN	45	58	7	122	HIGH	NBR
RSM04505807LN	45	58	7	104	LOW	NBR
RSM04505807LV	45	58	7	104	LOW	VITON
RSM04505808LN	45	58	8	104	LOW/RH	NBR
RSM04505808LV	45	58	8	104	LOW	VITON
RSM04505808LN	45	58	8	104	LOW	NBR

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE ROTATION	MATERIAL
RSM04505809LN	45	58	9	104	LOW	NBR
RSM04505810LN	45	58	10	104	LOW	NBR
RSM04505812LN	45	58	12	104	LOW	NBR
RSM04506005LN	45	60	5	104	LOW	NBR
RSM04506007LN	45	60	7	104	LOW	NBR
RSM04506007LV	45	60	7	104	LOW	VITON
RSM04506007HV	45	60	7	128	MEDIUM	NBR
RSM04506007HN	45	60	7	128	HIGH	NBR
RSM04506007SL	45	60	7	103	LOW	NBR
RSM04506008LN	45	60	8	104	LOW	NBR
RSM04506008LV	45	60	8	104	LOW	VITON
RSM04506009LN	45	60	9	104	LOW	NBR
RSM04506009LV	45	60	9	104	LOW	VITON
RSM04506010LV	45	60	10	104	LOW	VITON
RSM04506010LN	45	60	10	104	LOW	NBR
RSM04506010LN	45	60	10	104	LOW/RH	NBR
RSM04506012LV	45	60	12	104	LOW	VITON
RSM04506012LN	45	60	12	104	LOW	NBR
RSM04506106LV	45	61	6	104	LOW	VITON
RSM04506206HN	45	62	6	122	HIGH	NBR
RSM04506207LV	45	62	7	304	LOW	VITON
RSM04506207LV	45	62	7	104	LOW	VITON
RSM04506207LN	45	62	7	104	LOW	NBR
RSM04506207HV	45	62	7	122	HIGH	VITON
RSM04506207HN	45	62	7	122	HIGH	NBR
RSM045062075LN	45	62	7.5	104	LOW	NBR
RSM04506208LN	45	62	8	104	LOW	NBR
RSM04506208LV	45	62	8	104	LOW	VITON
RSM045062085LN	45	62	8.5	104	LOW	NBR
RSM04506209HN	45	62	9	122	HIGH	NBR
RSM04506209LN	45	62	9	104	LOW	NBR
RSM04506209LV	45	62	9	104	LOW	VITON
RSM04506210LN	45	62	10	104	LOW	NBR
RSM04506210LV	45	62	10	104	LOW	VITON
RSM04506210HN	45	62	10	122	HIGH	NBR
RSM04506211LN	45	62	11	104	LOW	NBR
RSM04506211LN	45	62	11	135	LOW	NBR
RSM04506212LN	45	62	12	104	LOW	NBR
RSM04506212LV	45	62	12	104	LOW	VITON
RSM04506409LN	45	64	9	104	LOW	NBR
RSM04506412LN	45	64	12	104	LOW	NBR
RSM04506505LN	45	65	5	104	LOW	NBR
RSM04506507LV	45	65	7	104	LOW	VITON
RSM04506507LN	45	65	7	104	LOW	NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM04506507HN	45	65	7	122	HIGH		NBR
RSM04506507HV	45	65	7	122	HIGH		VITON
RSM04506508LN	45	65	8	104	LOW		NBR
RSM04506508LV	45	65	8	104	LOW		VITON
RSM04506510LV	45	65	10	104	LOW		VITON
RSM04506510LN	45	65	10	104	LOW		NBR
RSM04506510LN	45	65	10	135	LOW		NBR
RSM04506512LV	45	65	12	104	LOW		VITON
RSM04506512LV	45	65	12	304	LOW		VITON
RSM04506512LN	45	65	12	104	LOW		NBR
RSM04506610LN	45	66	10	104	LOW		NBR
RSM04506710LN	45	67	10	104	LOW		NBR
RSM04506807LN	45	68	7	104	LOW		NBR
RSM04506808LN	45	68	8	104	LOW		NBR
RSM04506808LV	45	68	8	104	LOW		VITON
RSM04506809LN	45	68	9	104	LOW		NBR
RSM04506809LN	45	68	9		LOW		NBR
RSM04506809LV	45	68	9	104	LOW		VITON
RSM04506810HN	45	68	10	126	HIGH		NBR
RSM04506810LN	45	68	10	104	LOW		NBR
RSM04506810LN	45	68	10	104	LOW		NBR
RSM04506810LV	45	68	10	104	LOW		VITON
RSM04506811LV	45	68	11	304	LOW		VITON
RSM04506812LN	45	68	12	104	LOW		NBR
RSM04506812LN	45	68	12	104	LOW/RH		NBR
RSM04506812LV	45	68	12	104	LOW		VITON
RSM04506812HN	45	68	12	374	HIGH		NBR
RSM04506812HN	45	68	12	126	HIGH		NBR
RSM04506812LN	45	68	12	304	LOW		NBR
RSM04506813LN	45	68	13	104	LOW		NBR
RSM04507008LN	45	70	8	104	LOW		NBR
RSM04507010LV	45	70	10	104	LOW		VITON
RSM04507010LN	45	70	10	104	LOW		NBR
RSM04507010LN	45	70	10	135	LOW		NBR
RSM04507011LN	45	70	11	104	LOW		NBR
RSM04507012LV	45	70	12	104	LOW		VITON
RSM04507012LN	45	70	12	104	LOW		NBR
RSM04507207HN	45	72	7	122	HIGH		NBR
RSM04507207LN	45	72	7	104	LOW		NBR
RSM04507207LV	45	72	7	104	LOW		VITON
RSM04507208LN	45	72	8	104	LOW		NBR
RSM04507208LV	45	72	8	104	LOW		VITON
RSM04507210LN	45	72	10	104	LOW		NBR
RSM04507210LV	45	72	10	104	LOW		VITON

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM04507212LN	45	72	12	104	LOW		NBR
RSM04507212LV	45	72	12	104	LOW		VITON
RSM04507312LN	45	73	12	104	LOW		NBR
RSM04507506LN	45	75	6	104	LOW		NBR
RSM04507507LN	45	75	7	104	LOW		NBR
RSM04507508LN	45	75	8	104	LOW		NBR
RSM04507508LV	45	75	8	104	LOW		VITON
RSM04507510LN	45	75	10	104	LOW		NBR
RSM04507510LV	45	75	10	104	LOW		VITON
RSM04508012LV	45	75	12	104	LOW		VITON
RSM04507512LN	45	75	12	104	LOW/RH		NBR
RSM04507512LV	45	75	12	104	LOW		VITON
RSM04507512LN	45	75	12	104	LOW		NBR
RSM04508013LV	45	75	13	104	LOW		VITON
RSM04507610LN	45	76	10	104	LOW		NBR
RSM04507612LN	45	76	12	104	LOW		NBR
RSM04507812LN	45	78	12	104	LOW		NBR
RSM04508007LN	45	80	7	104	LOW		NBR
RSM04508007HV	45	80	7.5	122	HIGH		VITON
RSM04508008LN	45	80	8	104	LOW		NBR
RSM04508008LV	45	80	8	104	LOW		VITON
RSM04508010LN	45	80	10	104	LOW		NBR
RSM04508010LV	45	80	10	104	LOW		VITON
RSM04508012LN	45	80	12	104	LOW		NBR
RSM04508013LN	45	80	13	104	LOW		NBR
RSM04508208LN	45	82	8	104	LOW		NBR
RSM04508212LN	45	82	12	104	LOW		NBR
RSM04508507LN	45	85	7	104	LOW		NBR
RSM04508508LN	45	85	8	104	LOW		NBR
RSM04508508LV	45	85	8	104	LOW		VITON
RSM04508510LN	45	85	10	104	LOW		NBR
RSM04508510LV	45	85	10	104	LOW		VITON
RSM04508512LN	45	85	12	104	LOW		NBR
RSM04508513LN	45	85	13	104	LOW		NBR
RSM04508513LV	45	85	13	104	LOW		VITON
RSM04509010LN	45	90	10	104	LOW		NBR
RSM04509010LV	45	90	10	104	LOW		VITON
RSM04509210LN	45	92	10	104	LOW		NBR
RSM04510010LN	45	100	10	104	LOW		NBR
RSM04510010LV	45	100	10	104	LOW		VITON
RSM04512012LN	45	120	12	104	LOW		NBR
RSM04524100LN	45.2	100	9.5	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE ROTATION	MATERIAL
RSM04605607LN	46	56	7	104	LOW	NBR
RSM04605807LN	46	58	7	104	LOW/RH	NBR
RSM04605808LN	46	58	8	104	LOW/RH	NBR
RSM04606006HN	46	60	6	122	HIGH	NBR
RSM04606007LN	46	60	7	104	LOW	NBR
RSM04606007LN	46	60	7	104	LOW/RH	NBR
RSM04606010LN	46	60	10	104	LOW	NBR
RSM046061065LV	46	61	6.5	104	LOW	VITON
RSM04606208LN	46	62	8	104	LOW	NBR
RSM046063065LN	46	63	6.5	104	LOW/RH	NBR
RSM04606408LN	46	64	8	104	LOW	NBR
RSM04606409LN	46	64	9	104	LOW	NBR
RSM04606410LN	46	64	10	104	LOW	NBR
RSM04606507LN	46	65	7	104	LOW	NBR
RSM04606508LN	46	65	8	104	LOW	NBR
RSM04606510LN	46	65	10	104	LOW	NBR
RSM04606512LN	46	65	12	104	LOW	NBR
RSM04606808LN	46	68	8	104	LOW	NBR
RSM04606810LN	46	68	10	104	LOW	NBR
RSM04607008LN	46	70	8	104	LOW	NBR
RSM046073075LN	46	73	7.5	104	LOW	NBR
RSM04607310LN	46	73	10	104	LOW	NBR
RSM046094410LN	46	94.4	10	1	LOW	NBR
RSM04660762LN	46.6	76.1	12	104	LOW/RH	NBR
RSM04705807LN	47	58	7	104	LOW	NBR
RSM04705906LV	47	59	6	104	LOW	VITON
RSM04706007LN	47	60	7	104	LOW	NBR
RSM04706207HN	47	62	7	122	LOW	NBR
RSM04706207LN	47	62	7	103	LOW	NBR
RSM04706208LN	47	62	8	104	LOW	NBR
RSM04706209LN	47	62	9	104	LOW	NBR
RSM04706212LN	47	62	12	104	LOW	NBR
RSM047063512LN	47	63.5	12	104	LOW	NBR
RSM04706508LN	47	65	8	104	LOW	NBR
RSM04706510LV	47	65	10	104	LOW	VITON
RSM04706510HN	47	65	10	126	HIGH	NBR
RSM04706510LN	47	65	10	104	LOW	NBR
RSM04707008LN	47	70	8	104	LOW	NBR
RSM04707010LN	47	70	10	104	LOW	NBR
RSM04707012LN	47	70	12	104	LOW	NBR
RSM04707208LN	47	72	8	104	LOW	NBR
RSM04707212LN	47	72	12	104	LOW	NBR
RSM04707212LV	47	72	12	104	LOW	VITON
RSM04707210LN	47	75	10	104	LOW	NBR
RSM04708010LN	47	80	10	104	LOW	NBR
RSM04708410LN	47	84	10	104	LOW	NBR
RSM04708412LN	47	84	12	104	LOW	NBR
RSM04708812LN	47	88	12	104	LOW	NBR
RSM04709008LN	47	90	8	104	LOW	NBR
RSM04709008LV	47	90	8	104	LOW	VITON
RSM047506510LN	47.5	65	10	104	LOW	NBR
RSM047507065LN	47.5	70.7	9	104	LOW	NBR
RSM04805504LN	48	55	4	104	LOW	NBR
RSM04805804LN	48	58	4	104	LOW	NBR
RSM04805808LN	48	58	8	104	LOW	NBR
RSM04805810LN	48	58	10	104	LOW	NBR
RSM04806007LN	48	60	7	104	LOW	NBR
RSM04806008LN	48	60	8	104	LOW	NBR
RSM04806009LN	48	60	9	104	LOW	NBR
RSM04806010LN	48	60	10	104	LOW	NBR
RSM04806206LN	48	62	6	104	LOW	NBR
RSM04806207LN	48	62	7	104	LOW	NBR
RSM04806207LV	48	62	7	104	LOW	VITON
RSM04806207HN	48	62	7	126	HIGH	NBR
RSM04806207HV	48	62	7	122	HIGH	VITON
RSM04806208LN	48	62	8	104	LOW	NBR
RSM04806208LN	48	62	8	135	LOW	NBR
RSM04806208LV	48	62	8	104	LOW	VITON
RSM04806209LN	48	62	9	104	LOW	NBR
RSM04806209LV	48	62	9	304	LOW	VITON
RSM04806210LV	48	62	10	104	LOW	VITON
RSM04806210LN	48	62	10	104	LOW	NBR
RSM04806212LN	48	62	12	104	LOW	NBR
RSM04806410LN	48	64	10	104	LOW	NBR
RSM04806412LN	48	64	12	104	LOW	NBR
RSM04806507LN	48	65	7	104	LOW	NBR
RSM04806507LV	48	65	7	104	LOW	VITON
RSM04806508LN	48	65	8	104	LOW	NBR
RSM04806508LV	48	65	8	104	LOW	VITON
RSM04806509LN	48	65	9	104	LOW	NBR
RSM04806510LV	48	65	10	104	LOW	VITON
RSM04806510LN	48	65	10	104	LOW	NBR
RSM04806512LN	48	65	12	104	LOW	NBR
RSM04806515LN	48	65	15	104	LOW	NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE ROTATION	MATERIAL
RSM04806807LN	48	68	7	104	LOW/RH	NBR
RSM04806808LN	48	68	8	104	LOW	NBR
RSM04806808LV	48	68	8	104	LOW	VITON
RSM04806809LN	48	68	9	104	LOW	NBR
RSM04806810LN	48	68	10	104	LOW	NBR
RSM04806810LV	48	68	10	104	LOW	VITON
RSM04806812LN	48	68	12	104	LOW	NBR
RSM04806910LN	48	69	10	104	LOW	NBR
RSM04807007LN	48	70	7	104	LOW	NBR
RSM04807008LN	48	70	8	104	LOW	NBR
RSM04807009LN	48	70	9	104	LOW	NBR
RSM04807009LV	48	70	9	104	LOW	VITON
RSM04807010LN	48	70	10	104	LOW	NBR
RSM04807010LV	48	70	10	104	LOW	VITON
RSM04807012HN	48	70	12	374	HIGH	NBR
RSM04807012HV	48	70	12	374	HIGH	VITON
RSM04807012LV	48	70	12	104	LOW	VITON
RSM04807012LN	48	70	12	104	LOW	NBR
RSM04807012HN	48	70	12	122	HIGH	NBR
RSM04807207LN	48	72	7	104	LOW	NBR
RSM04807208LN	48	72	8	104	LOW	NBR
RSM04807208LV	48	72	8	104	LOW	VITON
RSM048072085LN	48	72	8.5	104	LOW	NBR
RSM04807209LN	48	72	9	104	LOW	NBR
RSM04807210LN	48	72	10	104	LOW	NBR
RSM04807210LV	48	72	10	104	LOW	VITON
RSM04807211LN	48	72	11	135	LOW	NBR
RSM04807212LN	48	72	12	104	LOW	NBR
RSM04807212LV	48	72	12	304	LOW	VITON
RSM04807212LV	48	72	12	104	LOW	VITON
RSM04807215LN	48	72	15	135	LOW	NBR
RSM048072510LN	48	72.5	10	104	LOW	NBR
RSM048072512LN	48	72.5	12	104	LOW	NBR
RSM04807307LN	48	73	7	210	LOW	NBR
RSM04807410LN	48	74	10	104	LOW	NBR
RSM04807510LN	48	75	10	104	LOW	NBR
RSM04807510LV	48	75	10	104	LOW	VITON
RSM04807512LN	48	75	12	104	LOW	NBR
RSM04807610LN	48	76	10	104	LOW	NBR
RSM04807810LN	48	78	10	104	LOW	NBR
RSM04808008LN	48	80	8	104	LOW	NBR
RSM04808008LV	48	80	8	104	LOW	VITON
RSM04808010LN	48	80	10	104	LOW	NBR
RSM04808010LV	48	80	10	104	LOW	VITON

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE ROTATION	MATERIAL
RSM04808012LN	48	80	12	104	LOW	NBR
RSM04808212LN	48	82	12	104	LOW	NBR
RSM04808510LN	48	85	10	104	LOW	NBR
RSM04808510LN	48	85	10	103	LOW	NBR
RSM04809010LN	48	90	10	104	LOW	NBR
RSM04809013LN	48	90	13	104	LOW	NBR
RSM04906206LN	49	62	6	104	LOW	NBR
RSM04906506LN	49	65	6	104	LOW	NBR
RSM049068208H	49	68.2	8	122	HIGH	NBR
RSM04909210LN	49	92	10	104	LOW	NBR
RSM05005804LN	50	58	4	104	LOW	NBR
RSM05005804LV	50	58	4	104	LOW	VITON
RSM05005804ZN	50	58	4	137	ZERO	NBR
RSM050058075H	50	58	7.5	122	HIGH	NBR
RSM05006006LN	50	60	6	104	LOW	NBR
RSM05006007LN	50	60	7	104	LOW	NBR
RSM05006008LN	50	60	8	104	LOW	NBR
RSM05006008LV	50	60	8	104	LOW	VITON
RSM05006010LN	50	60	10	104	LOW	NBR
RSM050060505LN	50	60.5	5	137	ZERO	NBR
RSM05006205ZN	50	62	5	137	ZERO	NBR
RSM05006207LN	50	62	7	104	LOW	NBR
RSM05006207LV	50	62	7	104	LOW	VITON
RSM05006208LN	50	62	8	104	LOW	NBR
RSM05006208LV	50	62	8	104	LOW	VITON
RSM05006209LN	50	62	9	104	LOW	NBR
RSM05006210LN	50	62	10	104	LOW	NBR
RSM05006308LN	50	63	8	104	LOW	NBR
RSM05006310LN	50	63	10	104	LOW	NBR
RSM05006408LN	50	64	8	104	LOW	NBR
RSM05006408LV	50	64	8	104	LOW	VITON
RSM05006410LN	50	64	10	104	LOW	NBR
RSM05006506LN	50	65	6	104	LOW	NBR
RSM05006507HV	50	65	7	122	HIGH	VITON
RSM05006507LN	50	65	7	104	LOW	NBR
RSM05006507HN	50	65	7	122	HIGH	NBR
RSM05006508HV	50	65	8	122	HIGH	VITON
RSM05006508LN	50	65	8	104	LOW	NBR
RSM05006508LN	50	65	8	104	LOW	NBR
RSM05006508LV	50	65	8	104	LOW	VITON
RSM05006508HN	50	65	8	122	HIGH	NBR
RSM05006509LV	50	65	9	104	LOW	VITON

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM05006509LN	50	65	9	104	LOW		NBR
RSM05006509LN	50	65	9	104	LOW/RH		NBR
RSM05006510LV	50	65	10	104	LOW		VITON
RSM05006510LN	50	65	10	104	LOW		NBR
RSM050065105H	50	65	10.5	122	HIGH		NBR
RSM050065308H	50	65.3	8	131	HIGH		NBR
RSM05006606LN	50	66	6	104	LOW		NBR
RSM05006707LN	50	67	7	104	LOW		NBR
RSM05006709LN	50	67	9	104	LOW		NBR
RSM05006710LN	50	67	10	104	LOW		NBR
RSM05006711LN	50	67	11	104	LOW		NBR
RSM05006807HN	50	68	7	122	HIGH		NBR
RSM05006807LN	50	68	7	104	LOW		NBR
RSM05006808HV	50	68	8	122	LOW		VITON
RSM05006808LN	50	68	8	104	LOW		NBR
RSM05006808LN	50	68	8	135	LOW		NBR
RSM05006808LV	50	68	8	104	LOW		VITON
RSM05006809LN	50	68	9	104	LOW		NBR
RSM05006809LV	50	68	9	104	LOW		VITON
RSM05006810LN	50	68	10	104	LOW		NBR
RSM05006810LSC	50	68	10	104	LOW		MVQ
RSM05006810LV	50	68	10	104	LOW		VITON
RSM05006812LN	50	68	12	104	LOW		NBR
RSM05007008LN	50	70	8	104	LOW		NBR
RSM05007008LN	50	70	8	135	LOW		NBR
RSM05007008LV	50	70	8	104	LOW		VITON
RSM05007009LN	50	70	9	104	LOW		NBR
RSM05007010HN	50	70	10	122	HIGH		NBR
RSM05007010LN	50	70	10	104	LOW		NBR
RSM05007010LV	50	70	10	104	LOW		VITON
RSM05007011LN	50	70	11	104	LOW		NBR
RSM05007012LN	50	70	12	104	LOW		NBR
RSM05007012LN	50	70	12	302	LOW		NBR
RSM05007012LV	50	70	12	104	LOW		VITON
RSM05007014LN	50	70	14	104	LOW		NBR
RSM05007207LN	50	72	7	104	LOW		NBR
RSM05007207LV	50	72	7	104	LOW		VITON
RSM05007207HN	50	72	7	122	HIGH		NBR
RSM05007207HV	50	72	7	122	HIGH		VITON
RSM05007208LN	50	72	8	104	LOW		NBR
RSM05007208LV	50	72	8	104	LOW		VITON
RSM05007209LN	50	72	9	104	LOW		NBR
RSM05007210LN	50	72	10	104	LOW		NBR
RSM05007210LN	50	72	10	104	LOW/RH		NBR

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM05007210LV	50	72	10	104	LOW		VITON
RSM05007212LN	50	72	12	304	LOW		NBR
RSM05007212LV	50	72	12	304	LOW		VITON
RSM05007212LN	50	72	12	104	LOW		NBR
RSM05007212LN	50	72	12	104	LOW		NBR
RSM05007309LN	50	73	9	104	LOW		NBR
RSM05007312LN	50	73	12	104	LOW		NBR
RSM05007410LN	50	74	10	104	LOW		NBR
RSM05007508LN	50	75	8	104	LOW		NBR
RSM05007508LV	50	75	8	104	LOW		VITON
RSM05007510LV	50	75	10	104	LOW		VITON
RSM05007510LN	50	75	10	104	LOW		NBR
RSM05007512LN	50	75	12	104	LOW		NBR
RSM05007512LV	50	75	12	104	LOW		VITON
RSM05007610LN	50	76	10	104	LOW		NBR
RSM050076209LN	50	76.2	9.5	104	LOW		NBR
RSM05007708LN	50	77	8	104	LOW		NBR
RSM05007808LN	50	78	8	104	LOW		NBR
RSM05007810LN	50	78	10	104	LOW		NBR
RSM05007812LN	50	78	12	104	LOW		NBR
RSM05008006LN	50	80	6	104	LOW		NBR
RSM05008007HV	50	80	7	122	HIGH		VITON
RSM05008007LN	50	80	7	104	LOW		NBR
RSM05008007HN	50	80	7	122	HIGH		NBR
RSM05008008LN	50	80	8	104	LOW		NBR
RSM05008008LV	50	80	8	104	LOW		VITON
RSM05008008SL	50	80	8	207	LOW		NBR
RSM05008010LN	50	80	10	104	LOW		NBR
RSM05008010LV	50	80	10	104	LOW		VITON
RSM05008010HN	50	80	10	125	HIGH		NBR
RSM05008012LN	50	80	12	104	LOW		NBR
RSM05008012LV	50	80	12	104	LOW		VITON
RSM05008013LN	50	80	13	104	LOW		NBR
RSM05008013LV	50	80	13	104	LOW		VITON
RSM05008014LN	50	80	14	104	LOW		NBR
RSM05008110LN	50	81	10	104	LOW		NBR
RSM05008113LN	50	81	13	104	LOW		NBR
RSM05008208LN	50	82	8	232	LOW		NBR
RSM05008212LN	50	82	12	104	LOW/RH		NBR
RSM05008212LN	50	82	12	104	LOW		NBR
RSM05008508LN	50	85	8	104	LOW		NBR
RSM05008510LN	50	85	10	104	LOW		NBR
RSM05008510LV	50	85	10	104	LOW		VITON
RSM05008512LN	50	85	12	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM05009008LN	50	90	8	104	LOW		NBR
RSM05009010LV	50	90	10	104	LOW		VITON
RSM05009010LN	50	90	10	104	LOW		NBR
RSM05009012LN	50	90	12	104	LOW		NBR
RSM05009012LV	50	90	12	104	LOW		VITON
RSM05009013LN	50	90	13	104	LOW		NBR
RSM05009510LN	50	95	10	104	LOW		NBR
RSM05010010LN	50	100	10	104	LOW		NBR
RSM05010010LV	50	100	10	104	LOW		VITON
RSM05010012LN	50	100	12	104	LOW		NBR
RSM05011010LN	50	110	10	104	LOW		NBR
RSM05011012LN	50	110	12	104	LOW		NBR
RSM05011012LV	50	110	12	104	LOW		VITON
RSM05012012LV	50	120	12	104	LOW		VITON
RSM05012012LN	50	120	12	104	LOW		NBR
RSM050506209LN	50.5	62	9	104	LOW		NBR
RSM050806509H	50.8	65	9	122	HIGH		NBR
RSM05106407LN	51	64	7	104	LOW		NBR
RSM05106507LN	51	65	7	104	LOW		NBR
RSM05106607LV	51	66	7	104	LOW		VITON
RSM05107610LN	51	76	10	104	LOW		NBR
RSM05206207LN	52	62	7	104	LOW		NBR
RSM05206808LV	52	62	8	104	LOW		VITON
RSM05206208LV	52	62	8	104	LOW		VITON
RSM05206210LN	52	62	10	104	LOW		NBR
RSM05206308LN	52	63	8	104	LOW		NBR
RSM05206310LN	52	63	10	104	LOW		NBR
RSM05206409LN	52	64	9	104	LOW		NBR
RSM05206508LN	52	65	8	104	LOW		NBR
RSM05206509LN	52	65	9	104	LOW		NBR
RSM05206509LV	52	65	9	104	LOW		VITON
RSM05206509HN	52	65	9	122	HIGH		NBR
RSM05206510LN	52	65	10	104	LOW		NBR
RSM05206807LN	52	68	7	104	LOW		NBR
RSM05206807LV	52	68	7	104	LOW		VITON
RSM05206808HV	52	68	8	124	LOW		VITON
RSM05206808LN	52	68	8	104	LOW		NBR
RSM05206810LN	52	68	10	104	LOW/RH		NBR
RSM05206810LV	52	68	10	103	LOW		VITON
RSM05206810SL	52	68	10	103	LOW		NBR

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM05206810LV	52	68	10	104	LOW		VITON
RSM05206810LSC	52	68	10	104	LOW		MVQ
RSM05206810LN	52	68	10	104	LOW		NBR
RSM05206813LN	52	68	13	104	LOW		NBR
RSM05206910LN	52	69	10	104	LOW		NBR
RSM05207007LN	52	70	7	104	LOW		NBR
RSM05207008LN	52	70	8	104	LOW		NBR
RSM05207009LN	52	70	9	104	LOW		NBR
RSM05207010LN	52	70	10	104	LOW		NBR
RSM05207207HN	52	72	7	122	HIGH		NBR
RSM05207208LN	52	72	8	104	LOW		NBR
RSM05207208LV	52	72	8	104	LOW		VITON
RSM05207209LN	52	72	9	104	LOW		NBR
RSM05207210LN	52	72	10	104	LOW		NBR
RSM05207210LV	52	72	10	104	LOW		VITON
RSM05207212LV	52	72	12	104	LOW		VITON
RSM05207212LN	52	72	12	104	LOW		NBR
RSM05207508LN	52	75	8	104	LOW		NBR
RSM05207509LN	52	75	9	104	LOW		NBR
RSM05207510LN	52	75	10	104	LOW		NBR
RSM05207510LV	52	75	10	104	LOW		VITON
RSM05207512HV	52	75	12	122	HIGH		VITON
RSM05207512LN	52	75	12	104	LOW		NBR
RSM05207512LV	52	75	12	304	LOW		VITON
RSM05207512LV	52	75	12	104	LOW		VITON
RSM05207515LN	52	75	15	104	LOW		NBR
RSM05207809LV	52	78	9	103	LOW		VITON
RSM05207810LN	52	78	10	104	LOW		NBR
RSM05207812LV	52	78	12	304	LOW		VITON
RSM05208008LN	52	80	8	104	LOW		NBR
RSM05208008LV	52	80	8	104	LOW		VITON
RSM05208010LN	52	80	10	104	LOW		NBR
RSM05208010LV	52	80	10	104	LOW		VITON
RSM05208013LV	52	80	13	104	LOW		VITON
RSM05208013LN	52	80	13	104	LOW		NBR
RSM05208508LN	52	85	8	104	LOW		NBR
RSM05208510LN	52	85	10	104	LOW		NBR
RSM05208510LV	52	85	10	104	LOW		VITON
RSM05208512LN	52	85	12	104	LOW		NBR
RSM05208513LN	52	85	13	104	LOW		NBR
RSM05209010LN	52	90	10	104	LOW		NBR
RSM05209410LN	52	94	10	104	LOW		NBR
RSM05210010LN	52	100	10	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM05306308LN	53	63	8	104	LOW		NBR
RSM05306505LN	53	65	5	104	LOW		NBR
RSM05306510LN	53	65	10	104	LOW		NBR
RSM05306810LN	53	68	10	104	LOW		NBR
RSM05306810LV	53	68	10	104	LOW		VITON
RSM05306813LN	53	68	13	104	LOW		NBR
RSM053068207LN	53	68.2	7	104	LOW		NBR
RSM05307208LN	53	72	8	104	LOW		NBR
RSM05307210LN	53	72	10	104	LOW		NBR
RSM05307610LN	53	76	10	104	LOW		NBR
RSM05307910LN	53	79	10	104	LOW		NBR
RSM05308010LN	53	80	10	104	LOW		NBR
RSM05308010LV	53	80	10	104	LOW		VITON
RSM05308212LN	53	82	12	104	LOW		NBR
RSM05406409LN	54	64	9	104	LOW		NBR
RSM05406409LV	54	64	9	104	LOW		VITON
RSM05406508LV	54	65	8	104	LOW		VITON
RSM05406510LN	54	65	10	104	LOW		NBR
RSM05406513LN	54	65	13	104	LOW		NBR
RSM05406607LN	54	66	7	104	LOW		NBR
RSM05406707LN	54	67	7	104	LOW		NBR
RSM05406810LN	54	68	10	104	LOW		NBR
RSM05407009LN	54	70	9	104	LOW		NBR
RSM05407010LN	54	70	10	104	LOW		NBR
RSM05407012LN	54	70	12	104	LOW		NBR
RSM05407012LV	54	70	12	104	LOW		VITON
RSM05407209LN	54	72	9	104	LOW		NBR
RSM05407210LN	54	72	10	104	LOW		NBR
RSM05407210LV	54	72	10	104	LOW		VITON
RSM054072509LN	54	72.5	9	104	LOW		NBR
RSM05407410LN	54	74	10	104	LOW		NBR
RSM05407508LN	54	75	8	104	LOW		NBR
RSM05407608LN	54	76	8	104	LOW		NBR
RSM05407608LV	54	76	8	104	LOW		VITON
RSM05407609LN	54	76	9	104	LOW		NBR
RSM05407613LN	54	76	13	104	LOW		NBR
RSM05408010LN	54	80	10	104	LOW		NBR
RSM05408013LN	54	80	13	104	LOW		NBR
RSM05408110LV	54	81	10	104	LOW		VITON
RSM05408110LN	54	81	10	104	LOW		NBR
RSM05408210LN	54	82	10	104	LOW		NBR
RSM05408211LN	54	82	11	104	LOW		NBR
RSM05408508LN	54	85	8	104	LOW		NBR

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM05408510LN	54	85	10	104	LOW		NBR
RSM05408510LV	54	85	10	104	LOW		VITON
RSM054707302LN	54.7	73	9.5	104	LOW		NBR
RSM054807009H	54.8	79	9	122	HIGH		NBR
RSM05506304ZN	55	63	4	137	ZERO		NBR
RSM05506307LN	55	63	7	104	LOW		NBR
RSM05506505LN	55	65	5	104	LOW		NBR
RSM05506508LN	55	65	8	104	LOW		NBR
RSM05506510LN	55	65	10	104	LOW		NBR
RSM055066085LN	55	66	8.5	104	LOW		NBR
RSM05506710LV	55	67	10	104	LOW		VITON
RSM05506710LN	55	67	10	104	LOW		NBR
RSM05506807HV	55	68	7	122	HIGH		VITON
RSM05506807HN	55	68	7.5	122	HIGH		NBR
RSM05506808HN	55	68	8	122	HIGH		NBR
RSM05506808LN	55	68	8	104	LOW		NBR
RSM05506808LV	55	68	8	104	LOW		VITON
RSM055068085LN	55	68	8.5	104	LOW		NBR
RSM05506809LN	55	68	9	104	LOW		NBR
RSM05506810LN	55	68	10	104	LOW		NBR
RSM05507006LN	55	70	6	104	LOW		NBR
RSM05507007HN	55	70	7	122	HIGH		NBR
RSM05507007HV	55	70	7	122	HIGH		VITON
RSM05507008HN	55	70	8	126	HIGH		NBR
RSM05507008LN	55	70	8	104	LOW		NBR
RSM05507008LV	55	70	8	104	LOW		VITON
RSM05507009LN	55	70	9	104	LOW		NBR
RSM05507009LV	55	70	9	104	LOW		VITON
RSM05507010LV	55	70	10	104	LOW		VITON
RSM05507010LN	55	70	10	104	LOW		NBR
RSM05507012LN	55	70	12	104	LOW		NBR
RSM05507012LV	55	70	12	104	LOW		VITON
RSM05507110LN	55	71	10	104	LOW		NBR
RSM05507206LN	55	72	6	104	LOW		NBR
RSM05507207HN	55	72	7	122	HIGH		NBR
RSM05507207HV	55	72	7	122	HIGH		VITON
RSM05507207LN	55	72	7	104	LOW		NBR
RSM05507207LV	55	72	7	104	LOW		VITON
RSM05507208HN	55	72	8	122	HIGH		NBR
RSM05507208SL	55	72	8	207	LOW		NBR
RSM05507208LV	55	72	8	104	LOW		VITON

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM05507208LN	55	72	8	104	LOW		NBR
RSM05507208HV	55	72	8	122	HIGH		VITON
RSM05507209LN	55	72	9	104	LOW		NBR
RSM05507209LV	55	72	9	104	LOW		VITON
RSM05507210LN	55	72	10	104	LOW		NBR
RSM05507210LV	55	72	10	104	LOW		VITON
RSM05507212LN	55	72	12	104	LOW		NBR
RSM05507212LV	55	72	12	104	LOW		VITON
RSM05507310LN	55	73	10	104	LOW		NBR
RSM05507313LN	55	73	13	104	LOW		NBR
RSM05507365LN	55	73.7	11	104	LOW		NBR
RSM05507507HN	55	75	7	122	HIGH		NBR
RSM05507507HV	55	75	7	122	HIGH		VITON
RSM05507508LN	55	75	8	104	LOW		NBR
RSM05507508LV	55	75	8	104	LOW		VITON
RSM05507509LN	55	75	9	104	LOW		NBR
RSM05507510LN	55	75	10	104	LOW		NBR
RSM05507510LV	55	75	10	104	LOW		VITON
RSM05507512LN	55	75	12	104	LOW		NBR
RSM05507512LV	55	75	12	104	LOW		VITON
RSM05507515LN	55	75	15	135	LOW		NBR
RSM05507608LN	55	76	8	104	LOW		NBR
RSM05507610LN	55	76	10	104	LOW		NBR
RSM05507612LV	55	76	12	104	LOW		VITON
RSM05507612LN	55	76	12	104	LOW		NBR
RSM05507710LN	55	77	10	104	LOW		NBR
RSM05507808LV	55	78	8	304	LOW		VITON
RSM05507808LV	55	78	8	104	LOW		VITON
RSM05507808LN	55	78	8	104	LOW		NBR
RSM05507809LN	55	78	9	104	LOW		NBR
RSM05507810HN	55	78	10	126	HIGH		NBR
RSM05507810LN	55	78	10	104	LOW		NBR
RSM05507810LV	55	78	10	104	LOW		VITON
RSM05507812HN	55	78	12	304	LOW		NBR
RSM05507812LV	55	78	12	104	LOW		VITON
RSM05507812LN	55	78	12	104	LOW		NBR
RSM05507812HV	55	78	12	304	LOW		VITON
RSM05508008HV	55	80	8	122	HIGH		VITON
RSM05508008LN	55	80	8	104	LOW		NBR
RSM05508008LV	55	80	8	104	LOW		VITON
RSM05508010LN	55	80	10	135	LOW		NBR
RSM05508010LV	55	80	10	104	LOW		VITON
RSM05508010LN	55	80	10	104	LOW		NBR
RSM05508010HN	55	80	10	122	HIGH		NBR

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM05508012LN	55	80	12	104	LOW		NBR
RSM05508012LV	55	80	12	104	LOW		VITON
RSM05508012HN	55	80	12	126	HIGH		NBR
RSM05508013LN	55	80	13	104	LOW		NBR
RSM05508013LN	55	80	13	104	LOW		NBR
RSM05508013LV	55	80	13	104	LOW		VITON
RSM05508208LN	55	82	8	104	LOW		NBR
RSM055082093LN	55	82	9.4	104	LOW		NBR
RSM05508210LN	55	82	10	104	LOW		NBR
RSM05508212LN	55	82	12	104	LOW		NBR
RSM05508508LN	55	85	8	104	LOW		NBR
RSM05508508LV	55	85	8	104	LOW		VITON
RSM05508510LN	55	85	10	104	LOW		NBR
RSM05508510LV	55	85	10	104	LOW		VITON
RSM05508512LN	55	85	12	104	LOW		NBR
RSM05508512LV	55	85	12	104	LOW		VITON
RSM05508513LN	55	85	13	104	LOW		NBR
RSM05508513LV	55	85	13	104	LOW		VITON
RSM05508514LN	55	85	14	104	LOW		NBR
RSM05508810LN	55	88	10	104	LOW		NBR
RSM05509008HN	55	90	8	127	HIGH		NBR
RSM05509008LN	55	90	8	104	LOW		NBR
RSM05509008LV	55	90	8	104	LOW		VITON
RSM05509010LN	55	90	10	104	LOW		NBR
RSM05509010LV	55	90	10	103	LOW		VITON
RSM05509012LN	55	90	12	104	LOW		NBR
RSM05509012LV	55	90	12	104	LOW		VITON
RSM05509013LN	55	90	13	104	LOW		NBR
RSM05509013LV	55	90	13	104	LOW		VITON
RSM05509209LN	55	92	9	104	LOW		NBR
RSM05509510LN	55	95	10	104	LOW		NBR
RSM05510010LN	55	100	10	104	LOW		NBR
RSM05510010LV	55	100	10	104	LOW		VITON
RSM05510012LV	55	100	12	104	LOW		VITON
RSM05510012LN	55	100	12	104	LOW		NBR
RSM05510013LN	55	100	13	104	LOW		NBR
RSM05511013LN	55	110	13	104	LOW		NBR
RSM05512016LN	55	120	16	104	LOW		NBR
RSM05512024LN	55	120.2	9.5	104	LOW		NBR
RSM05606508LN	56	65	8	104	LOW		NBR
RSM05606910LN	56	69	10	104	LOW		NBR
RSM05607008LN	56	70	8	104	LOW		NBR
RSM05607008LV	56	70	8	104	LOW		VITON

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM05607009LN	56	70	9	104	LOW		NBR
RSM05607009HN	56	70	9	122	HIGH		NBR
RSM05607207LN	56	72	7	104	LOW		NBR
RSM05607208HN	56	72	8	122	HIGH		NBR
RSM05607208LN	56	72	8	104	LOW		NBR
RSM05607208LV	56	72	8	104	LOW		VITON
RSM05607209LN	56	72	9	104	LOW		NBR
RSM05607606HV	56	76	6	121	HIGH		VITON
RSM056076095LN	56	76	9.5	104	LOW		NBR
RSM05607808LN	56	78	8	104	LOW		NBR
RSM05608008LN	56	80	8	104	LOW		NBR
RSM05608012LN	56	80	12	104	LOW		NBR
RSM05608012LV	56	80	12	104	LOW		VITON
RSM05608013LN	56	80	13	104	LOW		NBR
RSM05608508LN	56	85	8	104	LOW		NBR
RSM05608510LN	56	85	10	104	LOW		NBR
RSM05608613LN	56	86	13	104	LOW		NBR
RSM05608622LN	56	86	22	104	LOW		NBR
RSM05609010LN	56	90	10	104	LOW		NBR
RSM05609010LV	56	90	10	104	LOW		VITON
RSM05610010LN	56	100	10	104	LOW		NBR
RSM05610012LN	56	100	12	104	LOW		NBR
RSM05611010LN	56	110	10	104	LOW		NBR
RSM05706706LN	57	67	6	104	LOW		NBR
RSM05706707LN	57	67	7	104	LOW		NBR
RSM05707209LN	57	72	9	104	LOW		NBR
RSM05707210LN	57	72	10	104	LOW		NBR
RSM05707215LN	57	72	15	104	LOW		NBR
RSM05707307LN	57	73	7	104	LOW		NBR
RSM057075075H	57	75	7.5	122	HIGH		NBR
RSM05707512LN	57	75	12	104	LOW		NBR
RSM05707707LN	57	77	7	104	LOW		NBR
RSM05708512LN	57	85	12	104	LOW		NBR
RSM05708513LN	57	85	13	104	LOW		NBR
RSM05709013LN	57	90	13	104	LOW		NBR
RSM057111010LN	57.2	110	10	104	LOW		NBR
RSM05806809LN	58	68	9	104	LOW		NBR
RSM05807007LN	58	70	7	210	LOW		NBR
RSM05807007LN	58	70	7	104	LOW		NBR
RSM05807010LN	58	70	10	104	LOW		NBR
RSM05807206LN	58	72	6	104	LOW		NBR

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM05807208LN	58	72	8	104	LOW		NBR
RSM05807208LV	58	72	8	104	LOW		VITON
RSM05807209LN	58	72	9	104	LOW		NBR
RSM05807210LN	58	72	10	104	LOW		NBR
RSM05807210LV	58	72	10	104	LOW		VITON
RSM05807408LN	58	74	8	104	LOW		NBR
RSM05807410LN	58	74	10	104	LOW		NBR
RSM05807410LV	58	74	10	104	LOW		VITON
RSM05807508LN	58	75	8	104	LOW		NBR
RSM05807509LN	58	75	9	104	LOW		NBR
RSM05807510LN	58	75	10	104	LOW		NBR
RSM05807510LV	58	75	10	104	LOW		VITON
RSM05807511LN	58	75	11	104	LOW		NBR
RSM05807512LN	58	75	12	104	LOW		NBR
RSM05807810LN	58	78	10	104	LOW		NBR
RSM05807812LN	58	78	12	104	LOW		NBR
RSM05808007LN	58	80	7	104	LOW		NBR
RSM05808008LN	58	80	8	104	LOW		NBR
RSM05808008LV	58	80	8	104	LOW		VITON
RSM05808009LN	58	80	9	104	LOW		NBR
RSM05808009LV	58	80	9	104	LOW		VITON
RSM05808009HV	58	80	9	126	HIGH		VITON
RSM05808009HN	58	80	9	122	HIGH		NBR
RSM05808010HV	58	80	10	122	HIGH		VITON
RSM05808010LN	58	80	10	104	LOW		NBR
RSM05808010LV	58	80	10	104	LOW		VITON
RSM05808010HN	58	80	10	122	HIGH		NBR
RSM05808012LN	58	80	12	104	LOW		NBR
RSM05808012LV	58	80	12	104	LOW		VITON
RSM05808013LV	58	80	13	104	LOW		VITON
RSM05808013LN	58	80	13	104	LOW		NBR
RSM05808310LN	58	83	10	104	LOW		NBR
RSM05808508LN	58	85	8	104	LOW		NBR
RSM05808510LN	58	85	10	104	LOW		NBR
RSM05808510LV	58	85	10	104	LOW		VITON
RSM05808513LN	58	85	13	104	LOW		NBR
RSM05809010LN	58	90	10	104	LOW		NBR
RSM05809011LN	58	90	11	104	LOW		NBR
RSM05809013LN	58	90	13	104	LOW		NBR
RSM05810010LN	58	100	10	104	LOW		NBR
RSM05907510LN	59	75	10	210	LOW		NBR
RSM05909010LN	59	90	10	104	LOW/RH		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM06006808HN	60	68	8	126	HIGH		NBR
RSM06007007LN	60	70	7	104	LOW		NBR
RSM06007007LV	60	70	7	104	LOW		VITON
RSM06007008LN	60	70	8	104	LOW		NBR
RSM06007010LV	60	70	10	104	LOW		VITON
RSM06007010LN	60	70	10	104	LOW		NBR
RSM06007204ZN	60	72	4	137	ZERO		NBR
RSM06007207HN	60	72	7	122	HIGH		NBR
RSM06007208LN	60	72	8	104	LOW		NBR
RSM06007208LV	60	72	8	104	LOW		VITON
RSM06007209LN	60	72	9	104	LOW		NBR
RSM06007210LN	60	72	10	104	LOW		NBR
RSM06007212LN	60	72	12	104	LOW		NBR
RSM06007410LN	60	74	10	104	LOW		NBR
RSM060075065LN	60	75	6.5	104	LOW		NBR
RSM060075075H	60	75	7.5	122	HIGH		NBR
RSM06007508LN	60	75	8	104	LOW		NBR
RSM06007508LV	60	75	8	104	LOW		VITON
RSM06007508SL	60	75	8	103	LOW		NBR
RSM06007508HN	60	75	8	122	HIGH		NBR
RSM06007509LN	60	75	9	104	LOW		NBR
RSM06007510LV	60	75	10	104	LOW		VITON
RSM06007510HV	60	75	10	122	HIGH		VITON
RSM06007510LN	60	75	10	104	LOW		NBR
RSM06007512LN	60	75	12	104	LOW		NBR
RSM06007512LV	60	75	12	104	LOW		VITON
RSM06007608LN	60	76	8	104	LOW		NBR
RSM06007609LN	60	76	9	104	LOW		NBR
RSM06007712LN	60	77	12	104	LOW		NBR
RSM06007807LN	60	78	7	104	LOW		NBR
RSM06007808LN	60	78	8	104	LOW		NBR
RSM06007809LV	60	78	9	104	LOW		VITON
RSM06007809LN	60	78	9	104	LOW		NBR
RSM06007810LN	60	78	10	104	LOW		NBR
RSM06007810LV	60	78	10	104	LOW		VITON
RSM06007812LN	60	78	12	104	LOW		NBR
RSM06008007HN	60	80	7	122	HIGH		NBR
RSM06008007HV	60	80	7	122	HIGH		VITON
RSM06008007LN	60	80	7	104	LOW		NBR
RSM06008007LV	60	80	7	122	HIGH		VITON
RSM06008008HV	60	80	8	126	HIGH		VITON
RSM06008008LV	60	80	8	103	LOW		VITON
RSM06008008LV	60	80	8	104	LOW		VITON
RSM06008008HN	60	80	8	121	HIGH		NBR

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM06008008LN	60	80	8	104	LOW		NBR
RSM06008008LN	60	80	8	104	LOW		NBR
RSM06008009LN	60	80	9	104	LOW		NBR
RSM06008010LN	60	80	10	104	LOW		NBR
RSM06008010LN	60	80	10	135	LOW		NBR
RSM06008010LV	60	80	10	104	LOW		VITON
RSM06008012LN	60	80	12	304	LOW		NBR
RSM06008012LV	60	80	12	104	LOW		VITON
RSM06008012LN	60	80	12	104	LOW		NBR
RSM06008012LN	60	80	12	135	LOW		NBR
RSM06008013LN	60	80	13	104	LOW		NBR
RSM06008207LN	60	82	7	104	LOW		NBR
RSM06008208LN	60	82	8	104	LOW		NBR
RSM06008208LV	60	82	8	104	LOW		VITON
RSM06008209LV	60	82	9	104	LOW		VITON
RSM06008209LN	60	82	9	104	LOW		NBR
RSM06008210LN	60	82	10	104	LOW		NBR
RSM06008210LV	60	82	10	104	LOW		VITON
RSM06008212HN	60	82	12	126	HIGH		NBR
RSM06008212LN	60	82	12	104	LOW		NBR
RSM06008212LN	60	82	12	104	LOW/RH		NBR
RSM06008212LV	60	82	12	304	LOW		VITON
RSM06008506LN	60	85	6	104	LOW		NBR
RSM06008507HN	60	85	7	121	HIGH		NBR
RSM06008508LV	60	85	8	104	LOW		VITON
RSM06008508LN	60	85	8	104	LOW		NBR
RSM06008508LSC	60	85	8	104	LOW		SILIC
RSM06008510LN	60	85	10	104	LOW		NBR
RSM06008510LSC	60	85	10	104	LOW		CR
RSM06008510LV	60	85	10	141	LOW		VITON
RSM06008511LN	60	85	11	104	LOW		NBR
RSM06008512LV	60	85	12	104	LOW		VITON
RSM06008512LN	60	85	12	104	LOW		NBR
RSM06008513LN	60	85	13	104	LOW		NBR
RSM06008513LV	60	85	13	104	LOW		VITON
RSM060086510LN	60	86	10.5	104	LOW		NBR
RSM06008812LN	60	88	12	104	LOW		NBR
RSM06009007HN	60	90	7	122	HIGH		NBR
RSM06009008LN	60	90	8	104	LOW		NBR
RSM06009008LV	60	90	8	104	LOW		VITON
RSM06009010LN	60	90	10	104	LOW		NBR
RSM06009010LV	60	90	10	104	LOW		VITON
RSM06009010HN	60	90	10	122	HIGH		NBR
RSM06009011LN	60	90	11	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM06009012LN	60	90	12	104	LOW		NBR
RSM06009012LN	60	90	12	135	LOW		NBR
RSM06009012LV	60	90	12	104	LOW		VITON
RSM06009013LN	60	90	13	104	LOW		NBR
RSM06009013LV	60	90	13	104	LOW		VITON
RSM06009508LV	60	95	8	104	LOW		VITON
RSM06009508LN	60	95	8	104	LOW		NBR
RSM06009510LV	60	95	10	104	LOW		VITON
RSM06009510LN	60	95	10	135	LOW		NBR
RSM06009510LN	60	95	10	104	LOW		NBR
RSM06009512LN	60	95	12	104	LOW		NBR
RSM06009512LV	60	95	12	104	LOW		VITON
RSM06009513LN	60	95	13	104	LOW		NBR
RSM06009513LV	60	95	13	104	LOW		VITON
RSM06010010LV	60	100	10	104	LOW		VITON
RSM06010010LN	60	100	10	104	LOW		NBR
RSM06010013LN	60	100	13	104	LOW		NBR
RSM06010312LN	60	103	12	104	LOW		NBR
RSM06011008LN	60	110	8	104	LOW		NBR
RSM06011010LN	60	110	10	104	LOW		NBR
RSM06011010LV	60	110	10	140	LOW		VITON
RSM06011012LN	60	110	12	104	LOW		NBR
RSM06011013LN	60	110	13	104	LOW		NBR
RSM06011013LV	60	110	13	104	LOW		VITON
RSM06012010LN	60	120	10	104	LOW		NBR
RSM06013010LN	60	130	10	104	LOW		NBR
RSM06207209LN	62	72	9	104	LOW		NBR
RSM06207506LN	62	75	6	104	LOW		NBR
RSM06207507HN	62	75	7.5	122	HIGH		NBR
RSM06207510LV	62	75	10	104	LOW		VITON
RSM06207512LN	62	75	12	104	LOW		NBR
RSM06207610LN	62	76	10	104	LOW		NBR
RSM06207709LN	62	77	9	104	LOW		NBR
RSM06207810LN	62	78	10	104	LOW		NBR
RSM06208008LN	62	80	8	104	LOW		NBR
RSM06208009LN	62	80	9	104	LOW		NBR
RSM06208010LN	62	80	10	104	LOW		NBR
RSM06208010LV	62	80	10	104	LOW		VITON
RSM06208011LN	62	80	11	104	LOW		NBR
RSM06208012LN	62	80	12	104	LOW		NBR
RSM06208012LV	62	80	12	104	LOW		VITON
RSM06208106LN	62	81	6	104	LOW		NBR
RSM06208210LN	62	82	10	104	LOW		NBR
RSM06208212LN	62	82	12	104	LOW		NBR
RSM06208307LV	62	83	7	104	LOW		VITON
RSM06208309LN	62	83	9	104	LOW		NBR
RSM06208507HN	62	85	7	122	HIGH		NBR
RSM06208507LN	62	85	7	104	LOW		NBR
RSM06208507HV	62	85	7.5	122	HIGH		VITON
RSM06208508LN	62	85	8	104	LOW		NBR
RSM06208508LV	62	85	8	104	LOW		VITON
RSM06208509LN	62	85	9	104	LOW		NBR
RSM06208510LN	62	85	10	104	LOW		NBR
RSM06208510LV	62	85	10	104	LOW		VITON
RSM06208512HN	62	85	12	374	HIGH		NBR
RSM06208512HV	62	85	12	374	HIGH		VITON
RSM06208512LN	62	85	12	104	LOW		NBR
RSM06208512LV	62	85	12	104	LOW		VITON
RSM062085125LN	62	85	12.5	104	LOW		NBR
RSM06208513LN	62	85	13	104	LOW		NBR
RSM06209010LN	62	90	10	104	LOW		NBR
RSM06209010LV	62	90	10	104	LOW		VITON
RSM06209012LN	62	90	12	104	LOW		NBR
RSM06209013LN	62	90	13	104	LOW		NBR
RSM06209013LN	62	90	13	135	LOW		NBR
RSM06209013LV	62	90	13	104	LOW		VITON
RSM06209312LN	62	93	12	104	LOW		NBR
RSM06209313LN	62	93	13	104	LOW		NBR
RSM06209510LN	62	95	10	104	LOW		NBR
RSM06209513LN	62	95	13	104	LOW		NBR
RSM06210010LN	62	100	10	104	LOW		NBR
RSM06210012LN	62	100	12	104	LOW		NBR
RSM06210013LN	62	100	13	104	LOW		NBR
RSM06211010LN	62	110	10	104	LOW		NBR
RSM06211010LV	62	110	10	104	LOW		VITON
RSM06212012LN	62	120	12	104	LOW		NBR
RSM06212012LV	62	120	12	104	LOW		VITON
RSM06308008LN	63	80	8	103	LOW		NBR
RSM06308009LN	63	80	9	104	LOW		NBR
RSM06308010LN	63	80	10	104	LOW		NBR
RSM06308010LV	63	80	10	104	LOW		VITON
RSM06308011LN	63	80	11	104	LOW/LH		NBR
RSM06308012LN	63	80	12	104	LOW		NBR
RSM06308510LN	63	85	10	104	LOW		NBR
RSM06308510LV	63	85	10	104	LOW		VITON
RSM06308512LN	63	85	12	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM06308512LV	63	85	12	104	LOW		VITON
RSM06308810LN	63	88	10	104	LOW		NBR
RSM06308812LN	63	88	12	104	LOW		NBR
RSM06309010LV	63	90	10	104	LOW		VITON
RSM06309010LN	63	90	10	104	LOW		NBR
RSM06309012LN	63	90	12	104	LOW		NBR
RSM06310013LN	63	100	13	104	LOW		NBR
RSM063508510LN	63.5	85	10	104	LOW		NBR
RSM06408008LN	64	80	8	104	LOW		NBR
RSM06408010LN	64	80	10	104	LOW		NBR
RSM06408013LN	64	80	13	104	LOW		NBR
RSM06408207LN	64	82	7	104	LOW		NBR
RSM06408208LN	64	82	8	104	LOW		NBR
RSM06408510LN	64	85	10	104	LOW		NBR
RSM06408512LN	64	85	12	104	LOW		NBR
RSM06408516LN	64	85	16	104	LOW		NBR
RSM06408806LN	64	88	6	104	LOW		NBR
RSM06408808LN	64	88	8	104	LOW		NBR
RSM06409013LN	64	90	13	104	LOW		NBR
RSM06409510LN	64	95	10	104	LOW		NBR
RSM06412012LN	64	120	12	104	LOW		NBR
RSM06431202LN	64.3	120.2	9.5	104	LOW		NBR
RSM06507506LN	65	75	6	104	LOW		NBR
RSM06507508LN	65	75	8	104	LOW		NBR
RSM06507508LV	65	75	8	104	LOW		VITON
RSM06507510LN	65	75	10	104	LOW		NBR
RSM06507510LV	65	75	10	104	LOW		VITON
RSM06508007HV	65	80	7	122	HIGH		VITON
RSM06508007HN	65	80	7	122	HIGH		NBR
RSM06508008LN	65	80	8	104	LOW		NBR
RSM06508008LV	65	80	8	104	LOW		VITON
RSM06508010LN	65	80	10	104	LOW		NBR
RSM06508010LV	65	80	10	104	LOW		VITON
RSM06508012LN	65	80	12	104	LOW		NBR
RSM06508012LV	65	80	12	104	LOW		VITON
RSM06508208LN	65	82	8	104	LOW		NBR
RSM06508210LN	65	82	10	207	LOW		NBR
RSM06508409LN	65	84	9	104	LOW		NBR
RSM06508409LN	65	84	9	104	LOW/RH		NBR
RSM06508508HN	65	85	8	122	HIGH		NBR

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM06508508HV	65	85	8	122	HIGH		VITON
RSM06508508LN	65	85	8	104	LOW		NBR
RSM06508508LV	65	85	8	104	LOW		VITON
RSM06508510LN	65	85	10	135	LOW		NBR
RSM06508510LV	65	85	10	104	LOW		VITON
RSM06508510LY	65	85	10		LOW		PTFE
RSM06508510HN	65	85	10	122	HIGH		NBR
RSM06508510LN	65	85	10	104	LOW		NBR
RSM06508512LN	65	85	12	104	LOW		NBR
RSM06508512LN	65	85	12	135	LOW		NBR
RSM06508512LV	65	85	12	104	LOW		VITON
RSM06508513LN	65	85	13	104	LOW		NBR
RSM06508513LV	65	85	13	104	LOW		VITON
RSM06508610LN	65	86	10	104	LOW		NBR
RSM06508807HN	65	88	7	126	HIGH		NBR
RSM06508808LV	65	88	8	104	LOW		VITON
RSM06508808LN	65	88	8	104	LOW		NBR
RSM06508810LN	65	88	10	104	LOW		NBR
RSM06508810LV	65	88	10	104	LOW		VITON
RSM06508812LN	65	88	12	104	LOW		NBR
RSM06508812LN	65	88	12	104	LOW/RH		NBR
RSM06508812LV	65	88	12	104	LOW		VITON
RSM065089125LN	65	89	12.5	104	LOW		NBR
RSM06509007HV	65	90	7	122	HIGH		VITON
RSM06509007HN	65	90	7	122	HIGH		NBR
RSM06509007LV	65	90	7	104	LOW		VITON
RSM06509008LN	65	90	8	104	LOW		NBR
RSM06509008LV	65	90	8	104	LOW		VITON
RSM06509010HN	65	90	10	122	HIGH		NBR
RSM06509010LN	65	90	10	104	LOW		NBR
RSM06509010LV	65	90	10	104	LOW		VITON
RSM06509012LV	65	90	12	104	LOW		VITON
RSM06509012LN	65	90	12	104	LOW		NBR
RSM06509013LV	65	90	13	104	LOW		VITON
RSM06509013LN	65	90	13	104	LOW/RH		NBR
RSM06509013LN	65	90	13	104	LOW		NBR
RSM06509013HN	65	90	13	374	HIGH		NBR
RSM06509013HV	65	90	13	374	HIGH		VITON
RSM06509015LN	65	90	15	104	LOW		NBR
RSM06509213LN	65	92	13	104	LOW		NBR
RSM06509508LV	65	95	8	104	LOW		VITON
RSM06509508LN	65	95	8	104	LOW		NBR
RSM06509510LN	65	95	10	104	LOW		NBR
RSM06509510LV	65	95	10	104	LOW		VITON

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM06509512LN	65	95	12	104	LOW		NBR
RSM06509512LV	65	95	12	104	LOW		VITON
RSM06509513LN	65	95	13	104	LOW		NBR
RSM06509513LV	65	95	13	104	LOW		VITON
RSM06509514LN	65	95	14	104	LOW		NBR
RSM06510006LN	65	100	6	104	LOW		NBR
RSM06510008LV	65	100	8	104	LOW		VITON
RSM06510010LN	65	100	10	104	LOW		NBR
RSM06510010LV	65	100	10	104	LOW		VITON
RSM06510012LN	65	100	12	104	LOW		NBR
RSM06510012LV	65	100	12	104	LOW		VITON
RSM06510013LN	65	100	13	104	LOW		NBR
RSM06510512LN	65	105	12	104	LOW		NBR
RSM06511010LN	65	110	10	104	LOW		NBR
RSM06511012LV	65	110	12	104	LOW		VITON
RSM06511012LN	65	110	12	104	LOW		NBR
RSM06511013LN	65	110	13	104	LOW		NBR
RSM06511013LV	65	110	13	104	LOW		NBR
RSM06511513LN	65	115	13	104	LOW		NBR
RSM06511515LN	65	115	15	104	LOW		NBR
RSM06512010LN	65	120	10	104	LOW		NBR
RSM06512012LN	65	120	12	104	LOW		NBR
RSM06512012LV	65	120	12	104	LOW		VITON
RSM06512013LN	65	120	13	104	LOW		NBR
RSM06512013LV	65	120	13	104	LOW		VITON
RSM06513012LN	65	130	12	104	LOW		NBR
RSM06608010LN	66	80	10	104	LOW		NBR
RSM06609013LN	66	90	13	104	LOW		NBR
RSM06670901LN	66.7	90.1	11.9	104	LOW		NBR
RSM06708510LN	67	85	10	104	LOW		NBR
RSM06709013LV	67	90	13	104	LOW		VITON
RSM06808008LN	68	80	8	104	LOW		NBR
RSM06808010LN	68	80	10	104	LOW		NBR
RSM06808010LV	68	80	10	104	LOW		VITON
RSM06808207LN	68	82	7	104	LOW		NBR
RSM06808310LN	68	83	10	104	LOW		NBR
RSM06808508LN	68	85	8	104	LOW		NBR
RSM06808510LN	68	85	10	104	LOW		NBR
RSM06808510LV	68	85	10	104	LOW		VITON
RSM06808608LN	68	86	8	104	LOW		NBR
RSM06808608LN	68	86	8	104	LOW/LH		NBR
RSM06808708LN	68	87	8	104	LOW		NBR
RSM06808809LN	68	88	9	104	LOW		NBR
RSM06808812LN	68	88	12	104	LOW		NBR
RSM06809007LN	68	90	7	104	LOW		NBR
RSM06809008LN	68	90	8	104	LOW		NBR
RSM06809010HN	68	90	10	122	HIGH		NBR
RSM06809010LN	68	90	10	104	LOW		NBR
RSM06809010LN	68	90	10	140	LOW		NBR
RSM06809010LV	68	90	10	104	LOW		VITON
RSM06809012LN	68	90	12	104	LOW		NBR
RSM06809012LV	68	90	12	104	LOW		VITON
RSM06809013HV	68	90	13	374	HIGH		VITON
RSM06809013LN	68	90	13	104	LOW		NBR
RSM06809408LN	68	94	8	104	LOW		NBR
RSM06809810LN	68	98	10	104	LOW		NBR
RSM06810010LN	68	100	10	104	LOW		NBR
RSM06810010LV	68	100	10	104	LOW		VITON
RSM06810012LN	68	100	12	104	LOW		NBR
RSM06810013LN	68	100	13	104	LOW		NBR
RSM06811010LN	68	110	10	104	LOW		NBR
RSM06811013LN	68	110	13	104	LOW		NBR
RSM06812007LN	68	120	7	104	LOW		NBR
RSM06908508LV	69	85	8	104	LOW		VITON
RSM06908510LN	69	85	10	104	LOW		NBR
RSM07008008LN	70	80	8	104	LOW		NBR
RSM07008010LN	70	80	10	104	LOW		NBR
RSM07008508LV	70	85	8	104	LOW		VITON
RSM07008508LN	70	85	8	104	LOW		NBR
RSM07008509LN	70	85	9	104	LOW		NBR
RSM07008510HN	70	85	10	122	HIGH		NBR
RSM07008510LN	70	85	10	104	LOW		NBR
RSM07008510LV	70	85	10	104	LOW		VITON
RSM07008512LN	70	85	12	104	LOW		NBR
RSM07008515LN	70	85	15	104	LOW		NBR
RSM070087085LS	70	87	8.5	104	LOW/LH		SILIC
RSM07008710LN	70	87	10	104	LOW/LH		NBR
RSM07008808LN	70	88	8	104	LOW		NBR
RSM07008810LN	70	88	10	104	LOW		NBR
RSM07008810LV	70	88	10	104	LOW		VITON
RSM07008812LN	70	88	12	104	LOW		NBR
RSM07008812LN	70	88	12	104	LOW/LH		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM07008812LV	70	88	12	104	LOW		VITON
RSM07008912LV	70	89	12	104	LOW		VITON
RSM07009006LN	70	90	6	104	LOW		NBR
RSM07009006LV	70	90	6	104	LOW		VITON
RSM07009007HV	70	90	7	122	HIGH		VITON
RSM07009007LV	70	90	7	104	LOW		VITON
RSM07009007HN	70	90	7	122	HIGH		NBR
RSM07009008LN	70	90	8	104	LOW		NBR
RSM07009008LV	70	90	8	104	LOW		VITON
RSM07009007LN	70	90	9	104	LOW		NBR
RSM07009010HN	70	90	10	122	HIGH		NBR
RSM07009010LN	70	90	10	104	LOW		NBR
RSM07009010LV	70	90	10	104	LOW		VITON
RSM07009011LN	70	90	11	104	LOW		NBR
RSM07009012LN	70	90	12	104	LOW		NBR
RSM07009012LV	70	90	12	104	LOW		VITON
RSM07009013LN	70	90	13	104	LOW		NBR
RSM07009015LN	70	90	15	104	LOW		NBR
RSM070092085LN	70	92	8.5	104	LOW/LH		NBR
RSM07009209LN	70	92	9	104	LOW		NBR
RSM07009210LN	70	92	10	104	LOW		NBR
RSM07009210LV	70	92	10	104	LOW		VITON
RSM07009212HN	70	92	12	131	HIGH		NBR
RSM07009212LV	70	92	12	104	LOW		VITON
RSM07009212LN	70	92	12	104	LOW		NBR
RSM07009212LN	70	92	12	104	LOW		NBR
RSM07009213LN	70	92	13	104	LOW		NBR
RSM07009213LV	70	92	13	104	LOW		VITON
RSM07009312LN	70	93	12	104	LOW		NBR
RSM07009412LN	70	94	12	104	LOW		NBR
RSM07009508LN	70	95	8	104	LOW		NBR
RSM07009510LN	70	95	10	104	LOW		NBR
RSM07009510LV	70	95	10	104	LOW		VITON
RSM07009510LY	70	95	10		LOW		
RSM07009512LN	70	95	12	104	LOW		NBR
RSM07009512LV	70	95	12	304	LOW		VITON
RSM07009512LV	70	95	12	104	LOW		VITON
RSM07009513HV	70	95	13	374	HIGH		VITON
RSM07009513LN	70	95	13	104	LOW		NBR
RSM07009513LV	70	95	13	104	LOW		VITON
RSM07010008LN	70	100	8	104	LOW		NBR
RSM07010008LV	70	100	8	104	LOW		VITON
RSM07010010HN	70	100	10	122	HIGH		NBR
RSM07010010LN	70	100	10	104	LOW		NBR

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM07010010LV	70	100	10	104	LOW		VITON
RSM07010012LN	70	100	12	104	LOW		NBR
RSM07010012LV	70	100	12	104	LOW		VITON
RSM07010013LV	70	100	13	104	LOW		VITON
RSM07010013LN	70	100	13	104	LOW		NBR
RSM07010013LN	70	100	13	104	LOW/RH		NBR
RSM07010014LN	70	100	14	104	LOW		NBR
RSM07010015LN	70	100	15	104	LOW		NBR
RSM07010213LN	70	102	13	104	LOW		NBR
RSM07010510LN	70	105	10	104	LOW		NBR
RSM07010510LV	70	105	10	104	LOW		VITON
RSM07010512LN	70	105	12	104	LOW		NBR
RSM07010513LN	70	105	13	104	LOW		NBR
RSM07011008LV	70	110	8	104	LOW		VITON
RSM07011008LN	70	110	8	104	LOW		NBR
RSM07011010LN	70	110	10	104	LOW		NBR
RSM07011010LV	70	110	10	104	LOW		VITON
RSM07011012LN	70	110	12	104	LOW		NBR
RSM07011012LV	70	110	12	104	LOW		VITON
RSM07011013LN	70	110	13	104	LOW		NBR
RSM07011013LV	70	110	13	104	LOW		VITON
RSM07011014LN	70	110	14	104	LOW		NBR
RSM07011212LN	70	112	12	104	LOW		NBR
RSM07011213LN	70	112	13	104	LOW		NBR
RSM07011513LN	70	115	13	104	LOW		NBR
RSM07011515LN	70	115	15	104	LOW		NBR
RSM07012010LN	70	120	10	104	LOW		NBR
RSM07012012LN	70	120	12	104	LOW		NBR
RSM07012012LV	70	120	12	104	LOW		VITON
RSM07012013LN	70	120	13	104	LOW		NBR
RSM07012014LN	70	120	14	104	LOW		NBR
RSM07012510LN	70	125	10	104	LOW		NBR
RSM07012512LN	70	125	12	104	LOW		NBR
RSM07012512LV	70	125	12	104	LOW		VITON
RSM07013012LN	70	130	12	104	LOW		NBR
RSM07013012LV	70	130	12	104	LOW		VITON
RSM07013013LN	70	130	13	104	LOW		NBR
RSM07015012LN	70	150	12	104	LOW		NBR
RSM07108808LN	71	88	8	104	LOW		NBR
RSM07108810LN	71	88	10	104	LOW		NBR
RSM071808607LN	71.8	86.1	7	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM07208508LN	72	85	8	104	LOW		NBR
RSM07208607LN	72	86	7	104	LOW		NBR
RSM07208808LN	72	88	8	104	LOW		NBR
RSM07209010LN	72	90	10	104	LOW		NBR
RSM07209010LV	72	90	10	104	LOW		VITON
RSM07209012LN	72	90	12	104	LOW		NBR
RSM07209212LN	72	92	12	104	LOW		NBR
RSM07209212LV	72	92	12	104	LOW		VITON
RSM07209412LN	72	94	12	104	LOW		NBR
RSM07209510LN	72	95	10	104	LOW		NBR
RSM07209510LV	72	95	10	104	LOW		VITON
RSM07209512LN	72	95	12	104	LOW		NBR
RSM07209512LV	72	95	12	104	LOW		VITON
RSM07209513HV	72	95	13	374	HIGH		VITON
RSM07209513LN	72	95	13	104	LOW		NBR
RSM07209513LV	72	95	13	104	LOW		VITON
RSM07209609LN	72	96	9	104	LOW		NBR
RSM07209609LN	72	96	9	104	LOW/LH		NBR
RSM07210010LN	72	100	10	104	LOW		NBR
RSM07210010LV	72	100	10	104	LOW		VITON
RSM07210013LV	72	100	13	104	LOW		VITON
RSM07210013LN	72	100	13	104	LOW		NBR
RSM07210510LN	72	105	10	104	LOW		NBR
RSM07210513LN	72	105	13	104	LOW		NBR
RSM07211013LN	72	110	13	104	LOW		NBR
RSM07212512LN	72	125	12	104	LOW		NBR
RSM07214012LN	72	140	12	104	LOW		NBR
RSM07218012LN	72	180	12	104	LOW		NBR
RSM07309007LN	73	90	7	104	LOW		NBR
RSM07309609LN	73	96	9	104	LOW		NBR
RSM07310013LN	73	100	13	104	LOW		NBR
RSM07310407LN	73	104	7	104	LOW		NBR
RSM07408808LN	74	88	8	104	LOW		NBR
RSM07409008LN	74	90	8	104	LOW		NBR
RSM07409010LN	74	90	10	104	LOW		NBR
RSM07409012LN	74	90	12	104	LOW		NBR
RSM07409013LN	74	90	13	104	LOW		NBR
RSM07409312LN	74	93	12	104	LOW		NBR
RSM07409507LN	74	95	7	104	LOW		NBR
RSM07409510LN	74	95	10	104	LOW		NBR
RSM07409609LN	74	96	9	104	LOW		NBR
RSM07409612LN	74	96	12	104	LOW		NBR
RSM07409812LN	74	98	12	104	LOW		NBR
RSM07410013LN	74	100	13	104	LOW		NBR
RSM07410213LN	74	102	13	104	LOW		NBR
RSM07410410LN	74	104	10	104	LOW		NBR
RSM07410512LN	74	105	12	104	LOW		NBR
RSM07508510LN	75	85	10	104	LOW		NBR
RSM07508510LV	75	85	10	104	LOW		VITON
RSM07509006LN	75	90	6		LOW		NBR
RSM07509007LN	75	90	7	104	LOW		NBR
RSM07509008LN	75	90	8	104	LOW		NBR
RSM07509008LV	75	90	8	104	LOW		VITON
RSM07509010LN	75	90	10	104	LOW		NBR
RSM07509010LV	75	90	10	104	LOW		VITON
RSM07509010HN	75	90	10	122	HIGH		NBR
RSM075090115LN	75	90	11.5	104	LOW		NBR
RSM07509012LN	75	90	12	104	LOW		NBR
RSM07509012LV	75	90	12	104	LOW		VITON
RSM07509013LN	75	90	13	104	LOW		NBR
RSM07509013LV	75	90	13	104	LOW		VITON
RSM07509212LN	75	92	12	104	LOW		NBR
RSM07509309LN	75	93	9	104	LOW/LH		NBR
RSM07509410LN	75	94	10	104	LOW/LH		NBR
RSM07509412LN	75	94	12	104	LOW		NBR
RSM07509507HN	75	95	7	122	HIGH		NBR
RSM07509507LN	75	95	7	104	LOW		NBR
RSM07509507LV	75	95	7	104	LOW		VITON
RSM07509508LN	75	95	8	104	LOW		NBR
RSM07509508LV	75	95	8	104	LOW		VITON
RSM07509509LN	75	95	9	104	LOW		NBR
RSM07509510HN	75	95	10	126	HIGH		NBR
RSM07509510LN	75	95	10	104	LOW		NBR
RSM07509510LV	75	95	10	104	LOW		VITON
RSM07509512LN	75	95	12	104	LOW		NBR
RSM07509512LV	75	95	12	104	LOW		VITON
RSM07509513LN	75	95	13	104	LOW		NBR
RSM07509513LV	75	95	13	104	LOW		VITON
RSM07510008HN	75	100	8	122	HIGH		NBR
RSM075100085LN	75	100	8.5	104	LOM/LH		NBR
RSM07510010LN	75	100	10	104	LOW		NBR
RSM07510010LV	75	100	10	104	LOW		VITON
RSM07510012LN	75	100	12	104	LOW		NBR
RSM07510012LV	75	100	12	104	LOW		VITON
RSM07510013LN	75	100	13	104	LOW/LH		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM07510013LV	75	100	13	104	LOW		VITON
RSM07510013LN	75	100	13	135	LOW		NBR
RSM07510013LN	75	100	13	104	LOW		NBR
RSM07510013HV	75	100	13	374	HIGH		VITON
RSM07510013HN	75	100	13	374	HIGH		NBR
RSM07510013HN	75	100	13	128	MEDIUM		NBR
RSM07510013MV	75	100	13	128	MEDIUM		VITON
RSM07510017LN	75	100	17	104	LOW/RH		NBR
RSM07510210LV	75	102	10	104	LOW		VITON
RSM07510212LN	75	102	12	104	LOW		NBR
RSM07510213LN	75	102	13	104	LOW		NBR
RSM07510510LN	75	105	10	104	LOW		NBR
RSM07510512LV	75	105	12	104	LOW		VITON
RSM07510512LN	75	105	12	104	LOW		NBR
RSM07510513LN	75	105	13	104	LOW		NBR
RSM07510513LV	75	105	13	104	LOW		VITON
RSM07510515LN	75	105	15	104	LOW		NBR
RSM07510515LV	75	105	15	104	LOW		VITON
RSM07510606LN	75	106	6	104	LOW		NBR
RSM07510610LN	75	106	10	104	LOW		NBR
RSM07510613LN	75	106	13	104	LOW		NBR
RSM07511010LV	75	110	10	104	LOW		VITON
RSM07511010LN	75	110	10	104	LOW		NBR
RSM07511012LN	75	110	12	104	LOW		NBR
RSM07511012LV	75	110	12	104	LOW		VITON
RSM07511013LN	75	110	13	104	LOW		NBR
RSM07511013LV	75	110	13	104	LOW		VITON
RSM07511510LN	75	115	10	104	LOW		NBR
RSM07511510LV	75	115	10	104	LOW		VITON
RSM07511512LN	75	115	12	104	LOW		NBR
RSM07511512LV	75	115	12	104	LOW		VITON
RSM07511513LN	75	115	13	104	LOW		NBR
RSM07511513LV	75	115	13	104	LOW		VITON
RSM07512010LN	75	120	10	104	LOW		NBR
RSM07512010LV	75	120	10	104	LOW		VITON
RSM07512012LN	75	120	12	104	LOW		NBR
RSM07512012LV	75	120	12	104	LOW		VITON
RSM07512013LN	75	120	13	104	LOW		NBR
RSM07512013LV	75	120	13	104	LOW		VITON
RSM07512113LN	75	121	13	104	LOW		NBR
RSM07512512LV	75	125	12	104	LOW		VITON
RSM07513010LN	75	130	10	104	LOW		NBR
RSM07513013LN	75	130	13	104	LOW		NBR

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM076094085LN	76	94	8.5	104	LOW/LH		NBR
RSM07609412LN	76	94	12	104	LOW		NBR
RSM07609812LN	76	98	12	104	LOW		NBR
RSM07610210LN	76	102	9.8	304	LOW		NBR
RSM07610513LN	76	105	13	104	LOW		NBR
RSM07612114LN	76	121	14	104	LOW		NBR
RSM07709810LN	77	98	10	104	LOW		NBR
RSM077100115LN	77	100	11.5	104	LOW		NBR
RSM07810010LN	78	100	10	104	LOW		NBR
RSM07810010LV	78	100	10	104	LOW		VITON
RSM07810012LN	78	100	12	104	LOW		NBR
RSM07810013LN	78	100	13	104	LOW		NBR
RSM07810013LV	78	100	13	104	LOW		VITON
RSM07810513LN	78	105	13	104	LOW		NBR
RSM07811010LN	78	110	10	104	LOW		NBR
RSM07811013LN	78	110	13	104	LOW		NBR
RSM07811510LN	78	115	10	104	LOW		NBR
RSM07812007LN	78	120	7	104	LOW		NBR
RSM08009005ZN	80	90	5	137	ZERO		NBR
RSM08009006LN	80	90	6	104	LOW		NBR
RSM08009008LN	80	90	8	104	LOW		NBR
RSM08009010LN	80	90	10	104	LOW		NBR
RSM08009010LV	80	90	10	104	LOW		VITON
RSM08009508LN	80	95	8	104	LOW		NBR
RSM08009508LV	80	95	8	104	LOW		VITON
RSM08009510LV	80	95	10	104	LOW		VITON
RSM08009510LN	80	95	10	104	LOW		NBR
RSM08009609LN	80	96	9	104	LOW/LH		NBR
RSM08009810LN	80	98	10	104	LOW/LH		NBR
RSM08009908LN	80	99	8		LOW		NBR
RSM08010007LN	80	100	7	104	LOW		NBR
RSM08010007HN	80	100	7	122	HIGH		NBR
RSM08010007HV	80	100	7	122	HIGH		VITON
RSM08010008LV	80	100	8	104	LOW		VITON
RSM08010008LN	80	100	8	104	LOW		NBR
RSM080100085LN	80	100	8.5	104	LOW/LH		NBR
RSM0801001020T	80	100	10				
RSM08010010LN	80	100	10	104	LOW		NBR
RSM08010010LN	80	100	10	104	LOW/LH		NBR
RSM08010010LSC	80	100	10	103	LOW		SILIC
RSM08010010LV	80	100	10	104	LOW		VITON

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM08010012LN	80	100	12	104	LOW		NBR
RSM08010012LV	80	100	12	104	LOW		VITON
RSM08010012LN	80	100	12	104	LOW		NBR
RSM08010013LN	80	100	13	104	LOW		NBR
RSM08010013LN	80	100	13	104	LOW		NBR
RSM08010013LV	80	100	13	104	LOW		VITON
RSM08010015LN	80	100	15	104	LOW		NBR
RSM080105075H	80	105	7.5	122	HIGH		NBR
RSM08010507HV	80	105	7.5	122	HIGH		VITON
RSM08010508LN	80	105	8	104	LOW		NBR
RSM080105085LN	80	105	8.5	104	LOW		NBR
RSM08010510LSC	80	105	10	104	LOW		SILIC
RSM08010510LV	80	105	10	104	LOW		VITON
RSM08010510LN	80	105	10	104	LOW		NBR
RSM08010512LN	80	105	12	104	LOW		NBR
RSM08010512LN	80	105	12	135	LOW		NBR
RSM08010512LV	80	105	12	104	LOW		VITON
RSM08010513HN	80	105	13	374	HIGH		NBR
RSM08010513LV	80	105	13	103	LOW		VITON
RSM08010513LV	80	105	13	104	LOW		VITON
RSM08010513LN	80	105	13	104	LOW/LH		NBR
RSM08010513LN	80	105	13	104	LOW		NBR
RSM08010513HN	80	105	13	126	HIGH		NBR
RSM08010513HV	80	105	13	374	HIGH		VITON
RSM08010514LN	80	105	14	104	LOW		NBR
RSM08010515HN	80	105	15	374	HIGH		NBR
RSM08010515HV	80	105	15	374	HIGH		VITON
RSM08010815LN	80	108	15	104	LOW		NBR
RSM08011010LN	80	110	10	104	LOW		NBR
RSM08011010LV	80	110	10	104	LOW		VITON
RSM08011012LV	80	110	12	104	LOW		VITON
RSM08011012LN	80	110	12	104	LOW		NBR
RSM08011013LN	80	110	13	104	LOW		NBR
RSM08011013LN	80	110	13	104	LOW/LH		NBR
RSM08011013LV	80	110	13	104	LOW		VITON
RSM08011015LV	80	110	15	104	LOW		VITON
RSM08011312LN	80	113	12	104	LOW		NBR
RSM08011510LV	80	115	10	104	LOW		VITON
RSM08011510LN	80	115	10	104	LOW		NBR
RSM08011512LN	80	115	12	104	LOW		NBR
RSM08011512LV	80	115	12	104	LOW		VITON
RSM08011513LN	80	115	13	104	LOW		NBR
RSM08011513LV	80	115	13	104	LOW		VITON
RSM08011515LN	80	115	15	104	LOW		NBR

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM08011515LN	80	115	15	104	LOW/LH		NBR
RSM08012010HV	80	120	10	126	HIGH		VITON
RSM08012010LN	80	120	10	104	LOW		NBR
RSM08012012LV	80	120	12	104	LOW		VITON
RSM08012012LN	80	120	12	104	LOW		NBR
RSM08012013LN	80	120	13	104	LOW		NBR
RSM08012013LV	80	120	13	104	LOW		VITON
RSM08012508LN	80	125	8	104	LOW		NBR
RSM08012510LN	80	125	10	104	LOW		NBR
RSM08012510LV	80	125	10	104	LOW		VITON
RSM08012512LN	80	125	12	104	LOW		NBR
RSM08012512LV	80	125	12	104	LOW		VITON
RSM08012513LN	80	125	13	104	LOW		NBR
RSM08012513LV	80	125	13	104	LOW		VITON
RSM08012514LN	80	125	14	104	LOW		NBR
RSM08013012LN	80	130	12	104	LOW		NBR
RSM08013013LN	80	130	13	104	LOW		NBR
RSM08014012LN	80	140	12	104	LOW		NBR
RSM08014012LV	80	140	12	104	LOW		VITON
RSM08014013LN	80	140	13	104	LOW		NBR
RSM08015014LN	80	150	14	104	LOW		NBR
RSM08015015LN	80	150	15	104	LOW		NBR
RSM08210008LN	82	100	8	104	LOW		NBR
RSM08210212LN	82	102	12	104	LOW		NBR
RSM08210406LN	82	104	6	104	LOW		NBR
RSM08210510LN	82	105	10	104	LOW		NBR
RSM08210510LV	82	105	10	104	LOW		VITON
RSM08210512LV	82	105	12	104	LOW		VITON
RSM08210512LN	82	105	12	104	LOW		NBR
RSM08210513LN	82	105	13	104	LOW		NBR
RSM08210513LV	82	105	13	104	LOW		VITON
RSM08211012LN	82	110	12	104	LOW		NBR
RSM08211012LV	82	110	12	104	LOW		VITON
RSM08211013LN	82	110	13	104	LOW		NBR
RSM082114613LN	82	114.6	13	104	LOW		NBR
RSM08212012LN	82	120	12	104	LOW		NBR
RSM08216013LN	82	160	13	104	LOW		NBR
RSM08310008LN	83	100	8	104	LOW		NBR
RSM08310009LN	83	100	9	104	LOW/LH		NBR
RSM08311012LN	83	110	12	104	LOW		NBR
RSM08314213LN	83	142	13	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM08410010LN	84	100	10	104	LOW		NBR
RSM08410213LN	84	102	13	104	LOW		NBR
RSM08410410LN	84	104	10	104	LOW		NBR
RSM08410411LN	84	104	11	104	LOW/LH		NBR
RSM08510006LN	85	100	6	104	LOW		NBR
RSM08510009LN	85	100	9	104	LOW		NBR
RSM08510009LV	85	100	9	104	LOW		VITON
RSM08510010LN	85	100	10	104	LOW		NBR
RSM08510010LV	85	100	10	104	LOW		VITON
RSM08510012LN	85	100	12	104	LOW		NBR
RSM08510012LV	85	100	12	104	LOW		VITON
RSM08510013LN	85	100	13	104	LOW		NBR
RSM08510013LV	85	100	13	104	LOW		VITON
RSM08510209LV	85	102	9	104	LOW		VITON
RSM08510209LN	85	102	9	104	LOW		NBR
RSM08510213LN	85	102	13	104	LOW		NBR
RSM08510308LN	85	103	8	104	LOW		NBR
RSM085104085LN	85	104	8.5	104	LOW/LH		NBR
RSM08510507HN	85	105	7	122	HIGH		NBR
RSM08510508LN	85	105	8	104	LOW		NBR
RSM08510510LN	85	105	10	103	LOW		NBR
RSM08510510LSL	85	105	10	104	LOW/LEFT		ILICON
RSM08510510LV	85	105	10	104	LOW		VITON
RSM08510512HN	85	105	12	126	HIGH		NBR
RSM08510512LN	85	105	12	104	LOW		NBR
RSM08510512LV	85	105	12	104	LOW		VITON
RSM08510513LN	85	105	13	104	LOW		NBR
RSM08510513LV	85	105	13	104	LOW		VITON
RSM08511008LV	85	110	8	104	LOW		VITON
RSM08511009LN	85	110	9	104	LOW		NBR
RSM08511010LN	85	110	10	104	LOW		NBR
RSM08511010LV	85	110	10	104	LOW		VITON
RSM08511012LN	85	110	12	104	LOW		NBR
RSM08511012LV	85	110	12	104	LOW		VITON
RSM08511013HV	85	110	13	374	HIGH		VITON
RSM08511013LN	85	110	13	104	LOW		NBR
RSM08511013LN	85	110	13	135	LOW		NBR
RSM08511013LN	85	110	13	104	LOW/LH		NBR
RSM08511013LV	85	110	13	104	LOW		VITON
RSM08511012HV	85	110	13	122	HIGH		VITON
RSM08511015LN	85	110	15	104	LOW		NBR
RSM08511110LN	85	111	10	104	LOW		NBR
RSM08511510LN	85	115	10	104	LOW		NBR

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM08511512LN	85	115	12	104	LOW		NBR
RSM08511513LN	85	115	13	104	LOW		NBR
RSM08511513LV	85	115	13	104	LOW		VITON
RSM08511515LN	85	115	15	104	LOW		NBR
RSM085117512LN	85	117.5	12	104	LOW		NBR
RSM085120075H	85	120	7.5	122	HIGH		NBR
RSM08512007HV	85	120	7.5	122	HIGH		VITON
RSM08512008HN	85	120	8	122	HIGH		NBR
RSM08512010LN	85	120	10	104	LOW		NBR
RSM08512010LV	85	120	10	104	LOW		VITON
RSM08512012LN	85	120	12	104	LOW		NBR
RSM08512012LV	85	120	12	104	LOW		VITON
RSM08512013LN	85	120	13	207	LOW		NBR
RSM08512013LV	85	120	13	104	LOW		VITON
RSM08512014LN	85	120	14	104	LOW		NBR
RSM08512015LN	85	120	15	104	LOW		NBR
RSM08512017LN	85	120	17	104	LOW		NBR
RSM08512512LN	85	125	12	104	LOW		NBR
RSM08512512LV	85	125	12	104	LOW		VITON
RSM08512513LN	85	125	13	104	LOW		NBR
RSM08512513LV	85	125	13	104	LOW		VITON
RSM08512514LN	85	125	14	104	LOW		NBR
RSM08513010LN	85	130	10	104	LOW		NBR
RSM08513012LN	85	130	12	104	LOW		NBR
RSM08513012LV	85	130	12	104	LOW		VITON
RSM08513013LN	85	130	13	104	LOW		NBR
RSM08513013LV	85	130	13	104	LOW		VITON
RSM08513015LN	85	130	15	104	LOW		NBR
RSM08513512LN	85	135	12	104	LOW		NBR
RSM08514010LN	85	140	10	104	LOW		NBR
RSM08514012LN	85	140	12	104	LOW		NBR
RSM08514014LN	85	140	14	104	LOW		NBR
RSM08515012LN	85	150	12	104	LOW		NBR
RSM08515012LV	85	150	12	104	LOW		VITON
RSM08516013LV	85	160	13	104	LOW		VITON
RSM08610007LV	86	100	7	171	LOW		VITON
RSM08610010LN	86	100	10	104	LOW		NBR
RSM08610010LN	86	100	10	104	LOW/LH		NBR
RSM08610010LSR	86	100	10	104	LOW		NBR
RSM08610010LV	86	100	10	104	LOW		NBR
RSM08610308LN	86	103	8	104	LOW/LH		NBR
RSM08610608LN	86	106	8	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE ROTATION	MATERIAL
RSM08810510LN	88	105	10	104	LOW	NBR
RSM088106085LN	88	106	8.5	104	LOW	NBR
RSM08810610LN	88	106	10	104	LOW	NBR
RSM08810811LN	88	108	11	104	LOW	NBR
RSM08811012LN	88	110	12	104	LOW	NBR
RSM08811012LV	88	110	12	104	LOW	VITON
RSM08811013LN	88	110	13	104	LOW	NBR
RSM08811512LN	88	115	12	104	LOW	NBR
RSM08812013LN	88	120	13	104	LOW	NBR
RSM08816013LN	88	160	13	104	LOW	NBR
RSM08910510LN	89	105	10	104	LOW/RH	NBR
RSM09010005ZN	90	100	5	137	ZERO	NBR
RSM09010012LN	90	100	12	104	LOW	NBR
RSM09010012LV	90	100	12	104	LOW	VITON
RSM09010410LN	90	104	10	104	LOW	NBR
RSM09010411LN	90	104	11	104	LOW/LH	NBR
RSM09010506LN	90	105	6	104	LOW	NBR
RSM09010506LV	90	105	6	104	LOW	VITON
RSM09010510LN	90	105	10	104	LOW	NBR
RSM09010510LV	90	105	10	104	LOW	VITON
RSM09010512LN	90	105	12	104	LOW	NBR
RSM09010513LN	90	105	13	104	LOW	NBR
RSM09010513LV	90	105	13	104	LOW	VITON
RSM09011007LN	90	110	7	104	LOW/LH	NBR
RSM090110075LN	90	110	7.5	104	LOW	NBR
RSM090110075LV	90	110	7.5	104	LOW	VITON
RSM09011007HN	90	110	7.5	122	HIGH	NBR
RSM09011007HV	90	110	7.5	122	HIGH	VITON
RSM09011008LN	90	110	8	104	LOW	NBR
RSM09011008LV	90	110	8	104	LOW	VITON
RSM09011009LN	90	110	9	104	LOW/LH	NBR
RSM09011010LE	90	110	10	104	LOW	EPDM
RSM09011010LN	90	110	10	104	LOW	NBR
RSM09011010LN	90	110	10	104	LOW/LH	NBR
RSM09011010LV	90	110	10	104	LOW	VITON
RSM09011011LN	90	110	11	104	LOW	NBR
RSM09011012LV	90	110	12	104	LOW	VITON
RSM09011012HN	90	110	12	122	HIGH	NBR
RSM09011012LN	90	110	12	104	LOW	NBR
RSM09011013HN	90	110	13	223	HIGH	NBR
RSM09011013HV	90	110	13	128	HIGH	VITON
RSM09011013LN	90	110	13	104	LOW	NBR

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE ROTATION	MATERIAL
RSM09011013LN	90	110	13	104	LOW/LH	NBR
RSM09011013LV	90	110	13	104	LOW	VITON
RSM09011015LN	90	110	15	104	LOW/LH	NBR
RSM09011015LV	90	110	15	104	LOW	VITON
RSM09011015LN	90	110	15	104	LOW	NBR
RSM09011016LN	90	110	16	104	LOW	NBR
RSM09011212LN	90	112	12	104	LOW	NBR
RSM09011509LN	90	115	9	104	LOW	NBR
RSM09011510HV	90	115	10	122	HIGH	VITON
RSM09011510LN	90	115	10	104	LOW	NBR
RSM09011512LV	90	115	12	104	LOW	VITON
RSM09011512LN	90	115	12	104	LOW	NBR
RSM09011513LV	90	115	13	104	LOW	VITON
RSM09011513LN	90	115	13	135	LOW	NBR
RSM09011513LN	90	115	13	104	LOW	NBR
RSM09011513HV	90	115	13	126	HIGH	VITON
RSM09011513HN	90	115	13	126	HIGH	NBR
RSM09011513HN	90	115	13	374	HIGH	NBR
RSM09011515LN	90	115	15	104	LOW	NBR
RSM090117512LV	90	117.5	12.5	104	LOW	VITON
RSM09011812LN	90	118	12	104	LOW	NBR
RSM09012010LN	90	120	10	104	LOW	NBR
RSM09012010LV	90	120	10	104	LOW	VITON
RSM09012012LN	90	120	12	104	LOW	NBR
RSM09012012LV	90	120	12	104	LOW	VITON
RSM09012013LN	90	120	13	104	LOW	NBR
RSM09012013LV	90	120	13	104	LOW	VITON
RSM09012015LN	90	120	15	104	LOW	NBR
RSM09012512HV	90	125	12	126	HIGH	VITON
RSM09012512HN	90	125	12	126	HIGH	NBR
RSM09012513LN	90	125	13	104	LOW	NBR
RSM09012513LV	90	125	13	104	LOW	VITON
RSM09012515LN	90	125	15	104	LOW	NBR
RSM09013010LN	90	130	10	104	LOW	NBR
RSM09013012HV	90	130	12	126	HIGH	VITON
RSM09013012LN	90	130	12	104	LOW	NBR
RSM09013012LV	90	130	12	104	LOW	VITON
RSM09013013LV	90	130	12	104	LOW	VITON
RSM09013013LN	90	130	13	104	LOW	NBR
RSM09013513LN	90	135	13	104	LOW	NBR
RSM09013515LN	90	135	15	104	LOW	NBR
RSM09014010LN	90	140	10	104	LOW	NBR
RSM09014010LV	90	140	10	104	LOW	VITON
RSM09014012LN	90	140	12	104	LOW	NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM09014013LN	90	140	13	104	LOW		NBR
RSM09018014LN	90	180	14	104	LOW		NBR
RSM09111109LN	91	111	9	104	LOW/LH		NBR
RSM09210510LN	92	105	10	104	LOW		NBR
RSM092110085LN	92	110	8.5	104	LOW		NBR
RSM09211009LN	92	110	9	104	LOW/LH		NBR
RSM09211010LN	92	110	10	104	LOW		NBR
RSM09211210LN	92	112	10	104	LOW		NBR
RSM09212012LN	92	120	12	104	LOW		NBR
RSM09212013LN	92	120	13	104	LOW		NBR
RSM09212013LV	92	120	13	104	LOW		VITON
RSM09310807LN	93	108	7	104	LOW		NBR
RSM09311513LN	93	115	13	104	LOW		NBR
RSM09412010LN	94	120	10	104	LOW		NBR
RSM09510505LN	95	105	5	104	LOW		NBR
RSM09511007LN	95	110	7	104	LOW		NBR
RSM09511009LN	95	110	9	104	LOW		NBR
RSM09511009LV	95	110	9	104	LOW		VITON
RSM09511010LN	95	110	10	104	LOW		NBR
RSM09511010LV	95	110	10	104	LOW		VITON
RSM09511011LN	95	110	11	104	LOW		NBR
RSM09511011LN	95	110	11	104	LOW/RH		NBR
RSM09511012LN	95	110	12	104	LOW		NBR
RSM09511012LV	95	110	12	104	LOW		VITON
RSM09511013LN	95	110	13	104	LOW		NBR
RSM09511212LN	95	112	12	104	LOW		NBR
RSM095112125LN	95	112	12.5	104	LOW		NBR
RSM09511510LN	95	115	10	104	LOW		NBR
RSM09511512LN	95	115	12	104	LOW		NBR
RSM09511512LN	95	115	12	104	LOW/LH		NBR
RSM09511512LV	95	115	12	104	LOW		VITON
RSM09511513LN	95	115	13	104	LOW		NBR
RSM09511513LV	95	115	13	174	LOW		VITON
RSM09511513LV	95	115	13	104	LOW		VITON
RSM09511513LN	95	115	13	135	LOW		NBR
RSM09511712LN	95	117	12	104	LOW		NBR
RSM09511810LN	95	118	10	104	LOW/LH		NBR
RSM09512008LN	95	120	8	104	LOW		NBR
RSM09512012LV	95	120	12	104	LOW		VITON
RSM09512012HN	95	120	12	122	HIGH		NBR
RSM09512012LN	95	120	12	104	LOW		NBR
RSM09512013LV	95	120	13	104	LOW		VITON
RSM09512013LN	95	120	13	135	LOW		NBR
RSM09512013LN	95	120	13	104	LOW		NBR
RSM09512013HV	95	120	13	374	HIGH		VITON
RSM09512013HV	95	120	13	128	HIGH		NBR
RSM09512013HN	95	120	13	128	HIGH		NBR
RSM09512013HN	95	120	13	374	HIGH		NBR
RSM09512015LN	95	120	15	104	LOW		NBR
RSM09512015HN	95	120	15	374	HIGH		NBR
RSM09512512LV	95	125	12	104	LOW		VITON
RSM09512512LN	95	125	12	104	LOW		NBR
RSM09512512HV	95	125	12	126	HIGH		VITON
RSM09512513LN	95	125	13	104	LOW		NBR
RSM09512513LV	95	125	13	104	LOW		VITON
RSM09512515LN	95	125	15	104	LOW		NBR
RSM09512515LN	95	125	15	135	LOW		NBR
RSM09513012LV	95	130	12	104	LOW		VITON
RSM09513012LN	95	130	12	104	LOW		NBR
RSM09513013LV	95	130	13	104	LOW		VITON
RSM09513013LN	95	130	13	104	LOW		NBR
RSM09513013LN	95	130	13	104	LOW/LH		NBR
RSM09513015LN	95	130	15	104	LOW		NBR
RSM09513015LV	95	130	15	104	LOW		VITON
RSM09513513LN	95	135	13	104	LOW		NBR
RSM09514008HN	95	140	8	126	HIGH		NBR
RSM09514008LN	95	140	8	104	LOW		NBR
RSM09514510LN	95	145	10	104	LOW		NBR
RSM09514513LN	95	145	13	104	LOW		NBR
RSM09516015LN	95	160	15	104	LOW		NBR
RSM09517013LN	95	170	13	104	LOW		NBR
RSM09517013LV	95	170	13	104	LOW		VITON
RSM09517014LN	95	170	14	104	LOW		NBR
RSM09612011LN	96	120	11	104	LOW		NBR
RSM097124113LN	97	124.1	13	104	LOW		NBR
RSM09811610LN	98	116	10	104	LOW		NBR
RSM09812007LN	98	120	7	104	LOW		NBR
RSM09812013LN	98	120	13	104	LOW/RH		NBR
RSM09812013LN	98	120	13	104	LOW		NBR
RSM09812512LN	98	125	12	104	LOW		NBR
RSM09812512LV	98	125	12	104	LOW		VITON

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE ROTATION	MATERIAL
RSM09812810LN	98	128	10	104	LOW	NBR
RSM09813013LV	98	130	13	104	LOW	VITON
RSM10011005ZN	100	110	5	137	ZERO	NBR
RSM10011410LN	100	114	10	104	LOW	NBR
RSM10011509LV	100	115	9	104	LOW	VITON
RSM10011509LV	100	115	9	103	LOW	FKM
RSM10011510LN	100	115	10	104	LOW	NBR
RSM10011512LN	100	115	12	104	LOW	NBR
RSM10011810LN	100	118	10	104	LOW	NBR
RSM10011812LN	100	118	12	104	LOW	NBR
RSM10012007LN	100	120	7	104	LOW	NBR
RSM10012007LV	100	120	7	104	LOW	VITON
RSM10012007HV	100	120	7.5	122	HIGH	VITON
RSM10012007HN	100	120	7.6	122	HIGH	NBR
RSM10012008LN	100	120	8	104	LOW	NBR
RSM10012010LN	100	120	10	104	LOW	NBR
RSM10012010LV	100	120	10	104	LOW	VITON
RSM10012011LN	100	120	11	104	LOW	NBR
RSM10012012HN	100	120	12	122	HIGH	NBR
RSM10012012LN	100	120	12	104	LOW	NBR
RSM10012012LV	100	120	12	104	LOW	VITON
RSM10012013HN	100	120	13	128	MEDIUM	NBR
RSM10012013MV	100	120	13	128	MEDIUM	VITON
RSM10012013LV	100	120	13	104	LOW	VITON
RSM10012013LN	100	120	13	104	LOW	NBR
RSM10012015LN	100	120	15	104	LOW	NBR
RSM10012017LN	100	120	17	104	LOW	NBR
RSM10012508LN	100	125	8	104	LOW	NBR
RSM10012510LN	100	125	10	104	LOW	NBR
RSM10012512LV	100	125	12	104	LOW	VITON
RSM10012512LN	100	125	12	104	LOW	NBR
RSM10012513LV	100	125	13	104	LOW	VITON
RSM10012513LN	100	125	13	104	LOW	NBR
RSM10012513HN	100	125	13	374	HIGH	NBR
RSM10012513HV	100	125	13	374	HIGH	VITON
RSM10012514LN	100	125	14	104	LOW	NBR
RSM10012710LN	100	127	10	104	LOW	NBR
RSM10012712LN	100	127	12	104	LOW	NBR
RSM10013010LN	100	130	10	104	LOW	NBR
RSM10013012HN	100	130	12	122	HIGH	NBR
RSM10013012LV	100	130	12	104	LOW	VITON
RSM10013012LN	100	130	12	135	LOW	NBR
RSM10013012LN	100	130	12	104	LOW	NBR

PART #	ID	OD	HT	PROFILE	PRESSURE ROTATION	MATERIAL
RSM10013013LN	100	130	13	104	LOW	NBR
RSM10013013LV	100	130	13	104	LOW	VITON
RSM10013014LN	100	130	14	104	LOW	NBR
RSM10013015LN	100	130	15	104	LOW	NBR
RSM10013015LV	100	130	15	104	LOW	VITON
RSM10013213LN	100	132	13	104	LOW	NBR
RSM10013510LN	100	135	10	104	LOW	NBR
RSM10013512LN	100	135	12	104	LOW	NBR
RSM10013513LN	100	135	13	104	LOW	NBR
RSM10013513LV	100	135	13	104	LOW	VITON
RSM10013514LN	100	135	14	104	LOW/LH	NBR
RSM10013515LV	100	135	15	104	LOW	VITON
RSM10013711LN	100	137	11	104	LOW	NBR
RSM10014012LV	100	140	12	104	LOW	VITON
RSM10014012LN	100	140	12	104	LOW	NBR
RSM10014013LN	100	140	13	104	LOW	NBR
RSM10014013LV	100	140	13	104	LOW	VITON
RSM10014513LN	100	145	13	104	LOW	NBR
RSM10015010LN	100	150	10	104	LOW	NBR
RSM10015012LN	100	150	12	104	LOW	NBR
RSM10015012LV	100	150	12	104	LOW	VITON
RSM10015013LN	100	150	13	104	LOW	NBR
RSM10015013LV	100	150	13	104	LOW	VITON
RSM10015015LN	100	150	15	104	LOW	NBR
RSM10015015LV	100	150	15	104	LOW	VITON
RSM10016013LN	100	160	13	104	LOW	NBR
RSM10017015LN	100	170	15	104	LOW	NBR
RSM10018012LN	100	180	12	104	LOW	NBR
RSM10018012LV	100	180	12	104	LOW	VITON
RSM10018014LN	100	180	14	104	LOW	NBR
RSM10019015LN	100	190	15	104	LOW	NBR
RSM10211510LN	102	115	10	104	LOW	NBR
RSM10212513LN	102	125	13	104	LOW	NBR
RSM10213013LN	102	130	13	104	LOW	NBR
RSM10213513LN	102	135	13	104	LOW	NBR
RSM10312210LN	103	122	10	104	LOW	NBR
RSM10312210LV	103	122	10	104	LOW	VITON
RSM10412010LN	104	120	10	104	LOW	NBR
RSM10412013LV	104	120	13	104	LOW	VITON
RSM10413013LN	104	130	13	104	LOW	NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM10512007LN	105	120	7	104	LOW		NBR
RSM10512008LN	105	120	8	104	LOW		NBR
RSM10512010LN	105	120	10	104	LOW		NBR
RSM10512011LN	105	120	11	104	LOW/LH		NBR
RSM10512013LN	105	120	13	104	LOW		NBR
RSM10512510LN	105	125	10	104	LOW		NBR
RSM10512511LN	105	125	11	104	LOW/LH		NBR
RSM10512512LN	105	125	12	104	LOW		NBR
RSM10512512LV	105	125	12	104	LOW		VITON
RSM10512513LV	105	125	13	104	LOW		VITON
RSM10512513LN	105	125	13	104	LOW		NBR
RSM10512710LN	105	127	10	104	LOW		NBR
RSM10512715LN	105	127	15	104	LOW		NBR
RSM105130075HS	105	130	7.5	122	HIGH		SILIC
RSM10513007HN	105	130	7.5	126	HIGH		NBR
RSM10513007HV	105	130	7.5	122	HIGH		VITON
RSM10513012LV	105	130	12	104	LOW		VITON
RSM10513012HV	105	130	12	122	HIGH		VITON
RSM10513012LN	105	130	12	104	LOW		NBR
RSM10513013MN	105	130	13	128	MEDIUM		NBR
RSM10513013LN	105	130	13	104	LOW		NBR
RSM10513013LV	105	130	13	104	LOW		VITON
RSM10513015LV	105	130	15	104	LOW		VITON
RSM10513512LN	105	135	12	104	LOW		NBR
RSM10513512LV	105	135	12	104	LOW		VITON
RSM10513512LV	105	135	12	103	LOW		FKM
RSM10513513LN	105	135	13	104	LOW		NBR
RSM10513514LN	105	135	14	104	LOW/LH		NBR
RSM10513514LN	105	135	14	104	LOW		NBR
RSM10513514HV	105	135	14	374	HIGH		VITON
RSM10513515LN	105	135	15	104	LOW		NBR
RSM10513515LV	105	135	15	104	LOW		VITON
RSM10513613LN	105	136	13	104	LOW		NBR
RSM10514012LN	105	140	12	104	LOW		NBR
RSM10514012LV	105	140	12	104	LOW		VITON
RSM10514013LV	105	140	13	104	LOW		VITON
RSM10514013LN	105	140	13	104	LOW		NBR
RSM10514014LN	105	140	14	104	LOW		NBR
RSM10514014LV	105	140	14	104	LOW		VITON
RSM10514015LN	105	140	15	104	LOW		NBR
RSM10514016LN	105	140	16	104	LOW		NBR
RSM10514513LN	105	145	13	104	LOW		NBR
RSM10514513LV	105	145	13	104	LOW		VITON
RSM10514515LN	105	145	15	104	LOW		NBR

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM10515013LN	105	150	13	104	LOW		NBR
RSM10515015LV	105	150	15	104	LOW		VITON
RSM10515015LN	105	150	15	104	LOW		NBR
RSM10516012LN	105	160	12	104	LOW		NBR
RSM10518013LN	105	180	13	104	LOW		NBR
RSM10518015LN	105	180	15	104	LOW		NBR
RSM10519012LN	105	190	12	104	LOW		NBR
RSM106120506LN	106	120.5	6	104	LOW		NBR
RSM10713013LN	107	130	13	104	LOW		NBR
RSM11012507LV	110	125	7	104	LOW		VITON
RSM110125095LN	110	125	9.5	104	LOW		NBR
RSM11012512LN	110	125	12	104	LOW		NBR
RSM11012512LV	110	125	12	104	LOW		VITON
RSM11013008LY	110	130	8	17	LOW		NBR
RSM11013008LN	110	130	8	104	LOW		NBR
RSM11013008LV	110	130	8	104	LOW		VITON
RSM11013010LN	110	130	10	104	LOW		NBR
RSM11013012LN	110	130	12	104	LOW		NBR
RSM11013012LV	110	130	12	104	LOW		VITON
RSM11013012HN	110	130	12	122	HIGH		NBR
RSM11013013HN	110	130	13	128	HIGH		NBR
RSM11013013LN	110	130	13	104	LOW		NBR
RSM11013013LV	110	130	13	104	LOW		VITON
RSM11013015LN	110	130	15	104	LOW		NBR
RSM11013510LN	110	135	10	104	LOW		NBR
RSM11013512LN	110	135	12	104	LOW		NBR
RSM11013512LV	110	135	12	104	LOW		VITON
RSM11013513LN	110	135	13	104	LOW		NBR
RSM11013513LV	110	135	13	104	LOW		VITON
RSM11013514LN	110	135	14	104	LOW		NBR
RSM11014012LV	110	140	12	104	LOW		VITON
RSM11014012LN	110	140	12	104	LOW		NBR
RSM11014013LN	110	140	13	104	LOW		NBR
RSM11014013LV	110	140	13	104	LOW		VITON
RSM11014014HV	110	140	14	374	HIGH		VITON
RSM11014014LN	110	140	14	104	LOW		NBR
RSM11014014LV	110	140	14	104	LOW		VITON
RSM11014015LV	110	140	15	104	LOW		VITON
RSM110142812LN	110	142.8	12	104	LOW		NBR
RSM11014513LN	110	145	13	104	LOW		NBR
RSM11014513LV	110	145	13	104	LOW		VITON

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM11014514LV	110	145	14	104	LOW		VITON
RSM11014514LN	110	145	14	104	LOW		NBR
RSM11014515LN	110	145	15	104	LOW		NBR
RSM11014815LN	110	148	15	104	LOW		NBR
RSM11015008HN	110	150	8	122	HIGH		NBR
RSM11015013LN	110	150	13	104	LOW		NBR
RSM11015013LV	110	150	13	104	LOW		VITON
RSM11015015LN	110	150	15	104	LOW		NBR
RSM11015015LV	110	150	15	104	LOW		VITON
RSM11015512LN	110	155	12	104	LOW		NBR
RSM11016012LN	110	160	12	104	LOW		NBR
RSM11016013LN	110	160	13	104	LOW		NBR
RSM11017012LN	110	170	12	104	LOW		NBR
RSM11017012LV	110	170	12	104	LOW		VITON
RSM11017013LN	110	170	13	104	LOW		NBR
RSM11017015LN	110	170	15	104	LOW		NBR
RSM11018013LN	110	180	13	104	LOW		NBR
RSM11019013LN	110	190	13	104	LOW		NBR
RSM11020013LN	110	200	13	104	LOW		NBR
RSM11021515LN	110	215	15	104	LOW		NBR
RSM11214013LN	112	140	13	104	LOW		NBR
RSM11214015LN	112	140	15	104	LOW		NBR
RSM11412606LV	114	126	6	104	LOW		VITON
RSM11413513LN	114	135	13	104	LOW		NBR
RSM11414013LN	114	140	13	104	LOW		NBR
RSM11414513LN	114	145	13	104	LOW		NBR
RSM11414613LN	114	146	13	104	LOW		NBR
RSM11513012LV	115	130	12	104	LOW		VITON
RSM11513012LN	115	130	12	104	LOW		NBR
RSM11513013LN	115	130	13	104	LOW		NBR
RSM11513512LN	115	135	12	104	LOW		NBR
RSM11513513LN	115	135	13	104	LOW		NBR
RSM11513513LV	115	135	13	104	LOW		VITON
RSM11513514LN	115	135	14	104	LOW		NBR
RSM11513515LN	115	135	15	104	LOW		NBR
RSM11514007HN	115	140	7.5	122	HIGH		NBR
RSM11514010HN	115	140	10	223	HIGH		NBR
RSM11514010LV	115	140	10	103	LOW		VITON
RSM11514012LN	115	140	12	104	LOW		NBR
RSM11514012LV	115	140	12	104	LOW		VITON
RSM11514012MN	115	140	12	128	MEDIUM		NBR

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM11514013LV	115	140	13	104	LOW		VITON
RSM11514013LN	115	140	13	104	LOW		NBR
RSM11514014LN	115	140	14	104	LOW		NBR
RSM11514015LN	115	140	15	104	LOW		NBR
RSM11514015LV	115	140	15	104	LOW		VITON
RSM11514016LN	115	140	16	104	LOW		NBR
RSM11514512LN	115	145	12	104	LOW		NBR
RSM11514513LN	115	145	13	104	LOW		NBR
RSM11514514HN	115	145	14	374	HIGH		NBR
RSM11514514HV	115	145	14	374	HIGH		VITON
RSM11514514LN	115	145	14	104	LOW		NBR
RSM11514514LV	115	145	14	104	LOW		VITON
RSM11514516LN	115	145	16	104	LOW		NBR
RSM11515012LN	115	150	12	104	LOW		NBR
RSM11515012LV	115	150	12	104	LOW		VITON
RSM11515013LN	115	150	13	104	LOW		NBR
RSM11515014LN	115	150	14	104	LOW		NBR
RSM11515015LV	115	150	15	104	LOW		VITON
RSM11515015LN	115	150	15	104	LOW		NBR
RSM11515016LN	115	150	16	104	LOW		NBR
RSM11515512LN	115	155	12	104	LOW		NBR
RSM11516015LN	115	160	15	104	LOW		NBR
RSM11518012LN	115	180	12	104	LOW		NBR
RSM11613212LN	116	132	12	104	LOW		NBR
RSM11814013LN	118	140	13	104	LOW		NBR
RSM11814013LV	118	140	13	104	LOW		VITON
RSM11815012LN	118	150	12	104	LOW		NBR
RSM11815012LV	118	150	12	104	LOW		VITON
RSM12014007HV	120	140	7.5	122	HIGH		VITON
RSM12014007HN	120	140	7.5	122	HIGH		NBR
RSM12014008LN	120	140	8	172	LOW		NBR
RSM12014010LN	120	140	10	104	LOW		NBR
RSM12014010LV	120	140	10	104	LOW		VITON
RSM12014012LN	120	140	12	104	LOW		NBR
RSM12014012LV	120	140	12	104	LOW		VITON
RSM12014013HN	120	140	13	122	HIGH		NBR
RSM12014013LN	120	140	13	104	LOW		NBR
RSM12014013LV	120	140	13	104	LOW		VITON
RSM12014014LN	120	140	14	104	LOW		NBR
RSM12014014LV	120	140	14	104	LOW		VITON
RSM12014015LN	120	140	15	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM12014510LN	120	145	10	104	LOW		NBR
RSM12014512LN	120	145	12	104	LOW		NBR
RSM12014515LV	120	145	12	104	LOW		VITON
RSM12014512LV	120	145	12	104	LOW		VITON
RSM12014513LV	120	145	13	104	LOW		VITON
RSM12014513LN	120	145	13	104	LOW		NBR
RSM12014515LN	120	145	15	104	LOW		NBR
RSM12015010LN	120	150	10	104	LOW		NBR
RSM12015010LV	120	150	10	104	LOW		VITON
RSM12015012HN	120	150	12	122	HIGH		NBR
RSM12015012LN	120	150	12	104	LOW		NBR
RSM12015012LV	120	150	12	104	LOW		VITON
RSM12015013LN	120	150	13	104	LOW		NBR
RSM12015013LV	120	150	13	104	LOW		VITON
RSM12015014LN	120	150	14	104	LOW		NBR
RSM12015014HV	120	150	14	374	HIGH		VITON
RSM12015014HN	120	150	14	374	HIGH		NBR
RSM12015014LV	120	150	14	104	LOW		VITON
RSM12015015HN	120	150	15	122	HIGH		NBR
RSM12015015HV	120	150	15	128	HIGH		VITON
RSM12015015LN	120	150	15	104	LOW		NBR
RSM12015015LV	120	150	15	104	LOW		VITON
RSM12015016LN	120	150	16	135	LOW		NBR
RSM12015510LN	120	155	10	104	LOW		NBR
RSM12015512LN	120	155	12	104	LOW		NBR
RSM12015514LN	120	155	14	104	LOW		NBR
RSM12015515LN	120	155	15	104	LOW		NBR
RSM12015515LV	120	155	15	104	LOW		VITON
RSM12015516LN	120	155	16	104	LOW		NBR
RSM12016012LN	120	160	12	104	LOW		NBR
RSM12016012LV	120	160	12	104	LOW		VITON
RSM12016013LN	120	160	13	104	LOW		NBR
RSM12016014LN	120	160	14	104	LOW		NBR
RSM12016015HN	120	160	15	131	HIGH		NBR
RSM12016015LN	120	160	15	104	LOW		NBR
RSM12016015LV	120	160	15	104	LOW		VITON
RSM12016016LN	120	160	16	104	LOW		NBR
RSM12017015LN	120	170	15	104	LOW		NBR
RSM12017015LV	120	170	15	104	LOW		VITON
RSM12017016LN	120	170	16	104	LOW		NBR
RSM12017513LN	120	175	13	104	LOW		NBR
RSM12018013LN	120	180	13	104	LOW		NBR
RSM12018014LN	120	180	14	104	LOW		NBR
RSM12018015LN	120	180	15	104	LOW		NBR

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM12018015LV	120	180	15	104	LOW		VITON
RSM12020014LN	120	200	14	104	LOW		NBR
RSM12021513LN	120	215	13	104	LOW		NBR
RSM12215013LN	122	150	13	104	LOW		NBR
RSM122251409LN	122.3	140.9	11.9	104	LOW		NBR
RSM12514010LN	125	140	10	104	LOW		NBR
RSM12514013LN	125	140	13	104	LOW		NBR
RSM12514013LV	125	140	13	104	LOW		VITON
RSM12514313LN	125	143	13	104	LOW		NBR
RSM12514512LN	125	145	12	104	LOW		NBR
RSM12514512LV	125	145	12	104	LOW		VITON
RSM12514513LN	125	145	13	104	LOW		NBR
RSM12514513LV	125	145	13	104	LOW		VITON
RSM12514610LN	125	146	10	104	LOW		NBR
RSM125150105LN	125	150	10.5	172	LOW		NBR
RSM12515012LN	125	150	12	104	LOW		NBR
RSM12515012LV	125	150	12	104	LOW		VITON
RSM12515012HN	125	150	12	122	HIGH		NBR
RSM12515013LN	125	150	13	104	LOW		NBR
RSM12515013LV	125	150	13	104	LOW		VITON
RSM12515014LN	125	150	14	104	LOW		NBR
RSM12515014LV	125	150	14	104	LOW		VITON
RSM12515015LN	125	150	15	104	LOW		NBR
RSM12515015LV	125	150	15	104	LOW		VITON
RSM125152412LN	125	152.4	12	104	LOW		NBR
RSM12515512LV	125	155	12	104	LOW		VITON
RSM12515512LN	125	155	12	104	LOW		NBR
RSM12515514LV	125	155	14	104	LOW		VITON
RSM12515514LN	125	155	14	104	LOW		NBR
RSM12515514HV	125	155	14	374	HIGH		VITON
RSM12515514HN	125	155	14	374	HIGH		NBR
RSM12515515LN	125	155	15	104	LOW		NBR
RSM125160075H	125	160	7.5	122	HIGH		NBR
RSM12516010LN	125	160	10	104	LOW		NBR
RSM12516012LN	125	160	12	104	LOW		NBR
RSM12516012LV	125	160	12	104	LOW		VITON
RSM12516013LN	125	160	13	104	LOW		NBR
RSM12516013LV	125	160	13	104	LOW		VITON
RSM12516014LN	125	160	14	104	LOW		NBR
RSM12516015LN	125	160	15	104	LOW		NBR
RSM12516015LV	125	160	15	104	LOW		VITON

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM12516515LN	125	165	15	104	LOW		NBR
RSM12520015LN	125	200	15	104	LOW		NBR
RSM12614610LN	126	146	10	104	LOW		NBR
RSM12614613LN	126	146	13	104	LOW		NBR
RSM12614711LN	126	147	11	104	LOW		NBR
RSM12615015HN	126	150	15	126	HIGH		NBR
RSM12616213LN	126	162	13	104	LOW		NBR
RSM128146135LN	128	146	13.5	104	LOW		NBR
RSM12815013LN	128	150	13	104	LOW		NBR
RSM12815013LV	128	150	13	104	LOW		VITON
RSM12815213LN	128	152	13	104	LOW		NBR
RSM13014812LN	130	148	12	104	LOW		NBR
RSM13015007HN	130	150	7	122	HIGH		NBR
RSM13015010LN	130	150	10	210	LOW		NBR
RSM13015010LV	130	150	10	104	LOW		VITON
RSM13015010LN	130	150	10	104	LOW		NBR
RSM13015011LV	130	150	11	104	LOW		VITON
RSM13015012LN	130	150	12	104	LOW		NBR
RSM13015012LV	130	150	12	104	LOW		VITON
RSM13015013LN	130	150	13	104	LOW		NBR
RSM13015013LV	130	150	13	104	LOW		VITON
RSM13015014LN	130	150	14	104	LOW		NBR
RSM13015015LN	130	150	15	104	LOW		NBR
RSM13015018LV	130	150	18	104	LOW		VITON
RSM13015512LN	130	155	12	104	LOW		NBR
RSM13015513LN	130	155	13	104	LOW		NBR
RSM13015514LN	130	155	14	104	LOW		NBR
RSM13015514LV	130	155	14	104	LOW		VITON
RSM13016008HN	130	160	8	122	HIGH		NBR
RSM13016012HN	130	160	12	122	HIGH		NBR
RSM13016012LN	130	160	12	104	LOW		NBR
RSM13016012LV	130	160	12	104	LOW		VITON
RSM13016013HN	130	160	13	128	MEDIUM		NBR
RSM13016013LN	130	160	13	104	LOW		NBR
RSM13016013LV	130	160	13	104	LOW		VITON
RSM13016014HN	130	160	14	374	HIGH		NBR
RSM13016014HV	130	160	14	122	HIGH		VITON
RSM13016014HV	130	160	14	374	HIGH		VITON
RSM13016014LN	130	160	14	104	LOW		NBR
RSM13016014LV	130	160	14	104	LOW		VITON
RSM13016015LN	130	160	15	104	LOW		NBR
RSM13016015LV	130	160	15	104	LOW		VITON
RSM13016015LN	130	160	15	135	LOW		NBR
RSM13016209LN	130	162	9	104	LOW		NBR
RSM13016513LV	130	165	13	104	LOW		VITON
RSM13016515LN	130	165	15	104	LOW		NBR
RSM13016515LV	130	165	15	104	LOW		VITON
RSM13017012LN	130	170	12	104	LOW		NBR
RSM13017012LV	130	170	12	104	LOW		VITON
RSM13017013LV	130	170	13	104	LOW		VITON
RSM13017014LN	130	170	14	104	LOW		NBR
RSM13017014LV	130	170	14	104	LOW		VITON
RSM13017015LN	130	170	15	104	LOW		NBR
RSM13017015LV	130	170	15	104	LOW		VITON
RSM13018015LN	130	180	15	104	LOW		NBR
RSM13019012LN	130	190	12	104	LOW		NBR
RSM13019015LN	130	190	15	104	LOW		NBR
RSM13020012LN	130	200	12	104	LOW		NBR
RSM13021012LN	130	210	12	104	LOW		NBR
RSM13021515LN	130	215	15	104	LOW		NBR
RSM13216015LN	132	160	15	104	LOW		NBR
RSM13515512LN	135	155	12	104	LOW		NBR
RSM13515513LN	135	155	13	104	LOW		NBR
RSM13516012LN	135	160	12	104	LOW		NBR
RSM13516012LV	135	160	12	104	LOW		VITON
RSM13516013LN	135	160	13	104	LOW		NBR
RSM13516013LV	135	160	13	104	LOW		VITON
RSM13516014LV	135	160	14	104	LOW		VITON
RSM13516014LN	135	160	14	104	LOW		NBR
RSM13516015LN	135	160	15	104	LOW		NBR
RSM13516015LV	135	160	15	104	LOW		VITON
RSM13516213LN	135	162	13	104	LOW		NBR
RSM13516512LN	135	165	12	104	LOW		NBR
RSM13516512LV	135	165	12	104	LOW		VITON
RSM13516513LN	135	165	13	104	LOW		NBR
RSM13516514HN	135	165	14	374	HIGH		NBR
RSM13516514HV	135	165	14	374	HIGH		VITON
RSM13516514LN	135	165	14	104	LOW		NBR
RSM13516514LV	135	165	14	104	LOW		VITON
RSM13516515LN	135	165	15	104	LOW		NBR
RSM13517012LN	135	170	12	104	LOW		NBR
RSM13517012LV	135	170	12	104	LOW		VITON
RSM13517013LN	135	170	13	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM13517015LN	135	170	15	104	LOW		NBR
RSM13517015LV	135	170	15	104	LOW		VITON
RSM13518015LN	135	180	15	104	LOW		NBR
RSM13518513LN	135	185	13	104	LOW		NBR
RSM13520012LN	135	200	12	104	LOW		NBR
RSM13520015LN	135	200	15	104	LOW		NBR
RSM13521515LN	135	215	15	104	LOW		NBR
RSM14015708LV	140	157	8	104	LOW		VITON
RSM14015810LN	140	158	10	104	LOW		NBR
RSM14016008LN	140	160	8	103	LOW		NBR
RSM14016010HN	140	160	10	122	HIGH		NBR
RSM14016012LV	140	160	12	104	LOW		VITON
RSM14016012LN	140	160	12	104	LOW		NBR
RSM14016013LV	140	160	13	104	LOW		VITON
RSM14016013LN	140	160	13	104	LOW		NBR
RSM14016013HN	140	160	13	128	HIGH		NBR
RSM14016014LN	140	160	14	104	LOW		NBR
RSM14016015LN	140	160	15	104	LOW		NBR
RSM14016015LV	140	160	15	104	LOW		VITON
RSM140165115LN	140	165	11.5	104	LOW		NBR
RSM14016512LN	140	165	12	104	LOW		NBR
RSM14016512LV	140	165	12	104	LOW		VITON
RSM14016513LN	140	165	13	104	LOW		NBR
RSM14016513LV	140	165	13	104	LOW		VITON
RSM14016515LN	140	165	15	104	LOW		NBR
RSM14016515LV	140	165	15	104	LOW		VITON
RSM14016813LN	140	168	13	104	LOW		NBR
RSM14017008LN	140	170	8	104	LOW		NBR
RSM14017010LV	140	170	10	104	LOW		VITON
RSM14017010LN	140	170	10	104	LOW		NBR
RSM14017012LN	140	170	12	104	LOW		NBR
RSM14017012LV	140	170	12	104	LOW		VITON
RSM14017013LN	140	170	13	104	LOW		NBR
RSM14017013LV	140	170	13	128	MEDIUM		VITON
RSM14017014HV	140	170	14	374	HIGH		VITON
RSM14017014LN	140	170	14	104	LOW		NBR
RSM14017014LV	140	170	14	104	LOW		VITON
RSM14017015HN	140	170	15	122	HIGH		NBR
RSM14017015LN	140	170	15	104	LOW		NBR
RSM14017015LV	140	170	15	104	LOW		VITON
RSM14017512LN	140	175	12	104	LOW		NBR
RSM14017515LV	140	175	15	104	LOW		VITON
RSM14017515LN	140	175	15	104	LOW		NBR

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM14018012LN	140	180	12	104	LOW		NBR
RSM14018012LV	140	180	12	104	LOW		VITON
RSM14018013LN	140	180	13	104	LOW		NBR
RSM14018014LN	140	180	14	104	LOW		NBR
RSM14018015HN	140	180	15	128	HIGH		NBR
RSM14018015HV	140	180	15	128	HIGH		VITON
RSM14018015LN	140	180	15	104	LOW		NBR
RSM14018015LV	140	180	15	104	LOW		VITON
RSM14020015LN	140	200	15	104	LOW		NBR
RSM14021013LN	140	210	13	104	LOW		NBR
RSM14021015LV	140	210	15	104	LOW		VITON
RSM14021015LN	140	210	15	104	LOW		NBR
RSM14023015LN	140	230	15	104	LOW		NBR
RSM14216814LN	142	168	14	104	LOW		NBR
RSM14316510LN	143	165	10	304	LOW		NBR
RSM14416012LN	144	160	12	104	LOW		NBR
RSM14416215LV	144	162	15	104	LOW		VITON
RSM14516513LN	145	165	13	104	LOW		NBR
RSM14516513LV	145	165	13	104	LOW		VITON
RSM14516514LN	145	165	14	104	LOW		NBR
RSM14516713LN	145	167	13	104	LOW		NBR
RSM14517012LN	145	170	12	104	LOW		NBR
RSM14517013LN	145	170	13	104	LOW		NBR
RSM14517013LV	145	170	13	104	LOW		VITON
RSM14517014LN	145	170	14	104	LOW		NBR
RSM14517015LV	145	170	15	104	LOW		VITON
RSM14517015LN	145	170	15	302	LOW		NBR
RSM14517015LN	145	170	15	104	LOW		NBR
RSM14517020LN	145	170	20	104	LOW		NBR
RSM14517213LN	145	172	13	104	LOW		NBR
RSM14517512LN	145	175	12	104	LOW		NBR
RSM14517513LN	145	175	13	104	LOW		NBR
RSM14517514LN	145	175	14	104	LOW		NBR
RSM14517514LV	145	175	14	104	LOW		VITON
RSM14517515LN	145	175	15	104	LOW		NBR
RSM14517515LV	145	175	15	104	LOW		VITON
RSM14518012LV	145	180	12	104	LOW		VITON
RSM14518013LV	145	180	13	104	LOW		VITON
RSM14518013LN	145	180	13	104	LOW		NBR
RSM14518014LN	145	180	14	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM14518014LV	145	180	14	104	LOW		VITON
RSM14518015LN	145	180	15	104	LOW		NBR
RSM14518015LV	145	180	15	104	LOW		VITON
RSM14518415LV	145	184	15	104	LOW		VITON
RSM14519016LN	145	190	16	104	LOW		NBR
RSM14817013LN	148	170	13	104	LOW		NBR
RSM14817014LN	148	170	14	104	LOW		NBR
RSM14817015LN	148	170	15	104	LOW		NBR
RSM14817015LV	148	170	15	104	LOW		VITON
RSM14820018LN	148	200	18	104	LOW		NBR
RSM14917616LN	149	176	16	104	LOW		NBR
RSM15016812LV	150	168	12	104	LOW		VITON
RSM15016813LN	150	168	13	104	LOW		NBR
RSM15016815LN	150	168	15	104	LOW		NBR
RSM15017012LN	150	170	12	104	LOW		NBR
RSM15017012LV	150	170	12	104	LOW		VITON
RSM15017013LN	150	170	13	104	LOW		NBR
RSM15017015LN	150	170	15	104	LOW		NBR
RSM15017015LV	150	170	15	104	LOW		VITON
RSM15017217LN	150	172	17	104	LOW		NBR
RSM15017513LN	150	175	13	104	LOW		NBR
RSM15018008HN	150	180	8	122	HIGH		NBR
RSM150180085LN	150	180	8.5	104	LOW		NBR
RSM15018012LN	150	180	12	104	LOW		NBR
RSM15018012LV	150	180	12	104	LOW		VITON
RSM15018013LN	150	180	13	104	LOW		NBR
RSM15018013LV	150	180	13	104	LOW		VITON
RSM15018014LN	150	180	14	104	LOW		NBR
RSM15018014LV	150	180	14	104	LOW		VITON
RSM15018014HV	150	180	14	374	HIGH		VITON
RSM15018015HN	150	180	15	128	HIGH		NBR
RSM15018015HV	150	180	15	127	HIGH		VITON
RSM15018015LN	150	180	15	104	LOW		NBR
RSM15018015LV	150	180	15	104	LOW		VITON
RSM15018015MN	150	180	15	128	MEDIUM		NBR
RSM15018017LN	150	180	17	104	LOW		NBR
RSM15018515LN	150	185	15	104	LOW		NBR
RSM15019015LN	150	190	15	104	LOW		NBR
RSM15020015LN	150	200	15	104	LOW		NBR
RSM15021015LN	150	210	15	104	LOW		NBR
RSM15021015LV	150	210	15	104	LOW		VITON

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM15022512LN	150	225	12	104	LOW		NBR
RSM15022515LN	150	225	15	104	LOW		NBR
RSM15417513LN	154	175	13	210	LOW		NBR
RSM15418017LN	154	180	17	104	LOW		NBR
RSM15517412LN	155	174	12	104	LOW		NBR
RSM155174135LN	155	174	13.5	104	LOW		NBR
RSM155175085LV	155	175	8.5	104	LOW		VITON
RSM15517513LN	155	175	13	104	LOW		NBR
RSM15518012LN	155	180	12	104	LOW		NBR
RSM15518012LV	155	180	12	104	LOW		VITON
RSM15518015LN	155	180	15	104	LOW		NBR
RSM15518015LV	155	180	15	104	LOW		VITON
RSM15518514LN	155	185	14	104	LOW		NBR
RSM15518515LN	155	185	15	104	LOW		NBR
RSM15518515LV	155	185	15	104	LOW		VITON
RSM15519013LN	155	190	13	104	LOW		NBR
RSM15519013LV	155	190	13	104	LOW		VITON
RSM15519015LN	155	190	15	104	LOW		NBR
RSM15519015LV	155	190	15	104	LOW		VITON
RSM15520015LN	155	200	15	104	LOW		NBR
RSM15520015LV	155	200	15	104	LOW		VITON
RSM16018010LN	160	180	10	104	LOW		NBR
RSM16018010LV	160	180	10	104	LOW		VITON
RSM16018012LN	160	180	12	104	LOW		NBR
RSM16018013LN	160	180	13	104	LOW		NBR
RSM16018013LV	160	180	13	104	LOW		VITON
RSM16018015LV	160	180	15	104	LOW		VITON
RSM16018015LN	160	180	15	104	LOW		NBR
RSM160185085H	160	185	8.5	122	HIGH		NBR
RSM16018510LN	160	185	10	104	LOW		NBR
RSM16018510LV	160	185	10	104	LOW		VITON
RSM16018512LN	160	185	12	104	LOW		NBR
RSM16018513LN	160	185	13	104	LOW		NBR
RSM16018513LV	160	185	13	104	LOW		VITON
RSM16018515LN	160	185	15	104	LOW		NBR
RSM160187810LN	160	187.8	10	104	LOW		NBR
RSM16018812LN	160	188	12	104	LOW		NBR
RSM16019008HV	160	190	8	122	HIGH		VITON
RSM16019012LV	160	190	12	104	LOW		VITON
RSM16019012LN	160	190	12	104	LOW		NBR
RSM16019013LN	160	190	13	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM16019013LV	160	190	13	104	LOW		VITON
RSM16019014LV	160	190	14	104	LOW		VITON
RSM16019015LN	160	190	15	104	LOW		NBR
RSM16019015LN	160	190	15	135	LOW		NBR
RSM16019015LV	160	190	15	104	LOW		VITON
RSM16019016LN	160	190	16	104	LOW		NBR
RSM16019016LV	160	190	16	104	LOW		VITON
RSM160190165LN	160	190	16.5	135	LOW		NBR
RSM16019515LN	160	195	15	104	LOW		NBR
RSM16019521LN	160	195	21	244	LOW		NBR
RSM16020012LN	160	200	12	104	LOW		NBR
RSM16020012LV	160	200	12	104	LOW		VITON
RSM16020014LN	160	200	14	104	LOW		NBR
RSM16020015LV	160	200	15	104	LOW		VITON
RSM16020015LN	160	200	15	104	LOW		NBR
RSM16020016LN	160	200	16	104	LOW		NBR
RSM16021515LN	160	215	15	104	LOW		NBR
RSM16518013LN	165	180	13	104	LOW		NBR
RSM16518408LN	165	184	8	104	LOW		NBR
RSM165190085LN	165	190	8.5	104	LOW		NBR
RSM16519012LN	165	190	12	104	LOW		NBR
RSM16519013LN	165	190	13	104	LOW		NBR
RSM16519013LV	165	190	13	104	LOW		VITON
RSM16519015LN	165	190	15	104	LOW		NBR
RSM16519015LV	165	190	15	104	LOW		VITON
RSM16519017LN	165	190	17	104	LOW		NBR
RSM16519515LN	165	195	15	104	LOW		NBR
RSM16519515LV	165	195	15	104	LOW		VITON
RSM16519516LN	165	195	16	104	LOW		NBR
RSM16520015LN	165	200	15	104	LOW		NBR
RSM16520015LV	165	200	15	104	LOW		VITON
RSM170190085LN	170	190	8.5	104	LOW		NBR
RSM17019010LN	170	190	10	104	LOW		NBR
RSM17019013LN	170	190	13	104	LOW		NBR
RSM17019015LN	170	190	15	104	LOW		NBR
RSM17019015LV	170	190	15	104	LOW		VITON
RSM170200085H	170	200	8.5	122	HIGH		NBR
RSM17020012LV	170	200	12	104	LOW		VITON
RSM17020012HN	170	200	12	128	HIGH		NBR
RSM17020012LN	170	200	12	104	LOW		NBR
RSM17020015LV	170	200	15	104	LOW		VITON
RSM17020015LN	170	200	15	104	LOW		NBR
RSM17020015HN	170	200	15	128	HIGH		NBR
RSM17020016LN	170	200	16	104	LOW		NBR
RSM17020016LV	170	200	16	104	LOW		VITON
RSM17020018LN	170	200	18	104	LOW		NBR
RSM17020018LV	170	200	18	135	LOW		VITON
RSM17020515LN	170	205	15	104	LOW		NBR
RSM17020515LV	170	205	15	104	LOW		VITON
RSM17021012LN	170	210	12	104	LOW		NBR
RSM17021015LN	170	210	15	104	LOW		NBR
RSM17021015LV	170	210	15	104	LOW		VITON
RSM17021016LN	170	210	16	104	LOW		NBR
RSM17021516LN	170	215	16	104	LOW		NBR
RSM17022015LN	170	220	15	104	LOW		NBR
RSM17024013LN	170	240	13	104	LOW		NBR
RSM17419109LV	174	191	9	104	LOW		VITON
RSM17520012LV	175	200	12	104	LOW		VITON
RSM17520013LN	175	200	13	104	LOW		NBR
RSM17520015HV	175	200	15	128	HIGH		VITON
RSM17520015LN	175	200	15	104	LOW		NBR
RSM17520015LV	175	200	15	104	LOW		VITON
RSM17520515LN	175	205	15	104	LOW		NBR
RSM17520515LV	175	205	15	304	LOW		VITON
RSM17520515LV	175	205	15	104	LOW		VITON
RSM17521015LN	175	210	15	104	LOW		NBR
RSM17521015LV	175	210	15	104	LOW		VITON
RSM17521515LN	175	215	15	104	LOW		NBR
RSM17820015LN	178	200	15	104	LOW		NBR
RSM18020012LN	180	200	12	104	LOW		NBR
RSM18020013LN	180	200	13	104	LOW		NBR
RSM18020013LV	180	200	13	104	LOW		VITON
RSM18020014LN	180	200	14	104	LOW		NBR
RSM18020015LN	180	200	15	104	LOW		NBR
RSM18020015LN	180	200	15	135	LOW		NBR
RSM18020015LV	180	200	15	104	LOW		VITON
RSM18020016LN	180	200	16	104	LOW		NBR
RSM18020016LV	180	200	16	104	LOW		VITON
RSM180210085H	180	210	8.5	122	HIGH		NBR
RSM18021008HV	180	210	8.5	122	HIGH		VITON
RSM18021013LN	180	210	13	104	LOW		NBR
RSM18021013LV	180	210	13	104	LOW		VITON

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM18021014LN	180	210	14	104	LOW		NBR
RSM18021015LN	180	210	15	104	LOW		NBR
RSM18021015LV	180	210	15	104	LOW		VITON
RSM18021016LN	180	210	16	104	LOW		NBR
RSM18021016LV	180	210	16	104	LOW		VITON
RSM18021515LN	180	215	15	104	LOW		NBR
RSM18021515LV	180	215	15	104	LOW		VITON
RSM18021516LN	180	215	16	104	LOW		NBR
RSM18021516LV	180	215	16	104	LOW		VITON
RSM18022012LN	180	220	12	104	LOW		NBR
RSM18022013LN	180	220	13	104	LOW		NBR
RSM18022013LV	180	220	13	104	LOW		VITON
RSM18022015LN	180	220	15	104	LOW		NBR
RSM18022015LV	180	220	15	104	LOW		VITON
RSM18022016LN	180	220	16	104	LOW		NBR
RSM18022016LV	180	220	16	104	LOW		VITON
RSM18023017LN	180	230	17	104	LOW		NBR
RSM18520510LN	185	205	10	104	LOW		NBR
RSM18520510LV	185	205	10	104	LOW		VITON
RSM18521010HV	185	210	10	122	HIGH		VITON
RSM18521013LN	185	210	13	104	LOW		NBR
RSM18521013LV	185	210	13	104	LOW		VITON
RSM18521014LN	185	210	14	131	HIGH		NBR
RSM18521015LN	185	210	15	104	LOW		NBR
RSM18521513LN	185	215	13	104	LOW		NBR
RSM18521515LN	185	215	15	104	LOW		NBR
RSM18521515LV	185	215	15	104	LOW		VITON
RSM18522518LN	185	225	18	104	LOW		NBR
RSM19021010LN	190	210	10	104	LOW		NBR
RSM19021515LN	190	215	15	104	LOW		NBR
RSM19021516LN	190	215	16	104	LOW		NBR
RSM19021516LV	190	215	16	104	LOW		VITON
RSM19022012LN	190	220	12	104	LOW		NBR
RSM19022012LV	190	220	12	104	LOW		VITON
RSM19022015HN	190	220	15	125	HIGH		NBR
RSM19022015LN	190	220	15	104	LOW		NBR
RSM19022015LV	190	220	15	104	LOW		VITON
RSM19022015MV	190	220	15	128	MEDIUM		VITON
RSM19022016LN	190	220	16	104	LOW		NBR
RSM19022020LN	190	220	20	104	LOW		NBR
RSM19022512LN	190	225	12	104	LOW		NBR
RSM19022513LN	190	225	13	104	LOW		NBR
RSM19022515LN	190	225	15	104	LOW		NBR
RSM19022516HN	190	225	16	374	HIGH		NBR
RSM19022516HV	190	225	16	374	HIGH		VITON
RSM19022516LN	190	225	16	104	LOW		NBR
RSM19022516LV	190	225	16	104	LOW		VITON
RSM19023015LN	190	230	15	104	LOW		NBR
RSM19023015LV	190	230	15	104	LOW		VITON
RSM19023016LN	190	230	16	104	LOW		NBR
RSM19023016LV	190	230	16	104	LOW		VITON
RSM19023017LN	190	230	17	104	LOW		NBR
RSM19024015LN	190	240	15	104	LOW		NBR
RSM19024018LN	190	240	18	104	LOW		NBR
RSM19024018LV	190	240	18	104	LOW		VITON
RSM19025016LN	190	250	16	104	LOW		NBR
RSM19521515LN	195	215	15	104	LOW		NBR
RSM19522012LN	195	220	12	104	LOW		NBR
RSM19522016LN	195	220	16	104	LOW		NBR
RSM19522210LN	195	222	10	104	LOW		NBR
RSM19522515LN	195	225	15	104	LOW		NBR
RSM19522516LN	195	225	16	104	LOW		NBR
RSM19523015LN	195	230	15	104	LOW		NBR
RSM19523016LN	195	230	16	104	LOW		NBR
RSM19523016LV	195	230	16	104	LOW		VITON
RSM19523515LN	195	235	15	104	LOW		NBR
RSM19523516LN	195	235	16	104	LOW		NBR
RSM19823015LN	198	230	15	104	LOW		NBR
RSM20021515LN	200	215	15	104	LOW		NBR
RSM20022015LN	200	220	15	104	LOW		NBR
RSM20022109LV	200	221	9	104	LOW		VITON
RSM20022515LN	200	225	15	104	LOW		NBR
RSM20023013HN	200	230	13	122	HIGH		NBR
RSM20023013HV	200	230	13	122	HIGH		VITON
RSM20023013LN	200	230	13	104	LOW		NBR
RSM20023013LV	200	230	13	122	LOW		VIT
RSM20023015LN	200	230	15	104	LOW		NBR
RSM20023015LV	200	230	15	104	LOW		VITON
RSM20023016LN	200	230	16	104	LOW		NBR
RSM20023515LN	200	235	15	104	LOW		NBR
RSM20023518LN	200	235	18	104	LOW		NBR
RSM20024015LN	200	240	15	104	LOW		NBR
RSM20024015LV	200	240	15	104	LOW		VITON

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE ROTATION	MATERIAL
RSM20024018LN	200	240	18	104	LOW	NBR
RSM20024020LN	200	240	20	104	LOW	NBR
RSM20024020LV	200	240	20	104	LOW	VITON
RSM20025015HN	200	250	15	128	HIGH	NBR
RSM20025015LN	200	250	15	104	LOW	NBR
RSM20025015LV	200	250	15	104	LOW	VITON
RSM20523015LN	205	230	15	104	LOW	NBR
RSM20523516LN	205	235	16	104	LOW	NBR
RSM20524015LN	205	240	15	104	LOW	NBR
RSM20723014LN	207	230	14	104	LOW	NBR
RSM21022512LN	210	225	12	104	LOW	NBR
RSM21024015LN	210	240	15	104	LOW	NBR
RSM21024015LV	210	240	15	104	LOW	VITON
RSM21024518LN	210	245	18	104	LOW	NBR
RSM21025015LN	210	250	15	104	LOW	NBR
RSM21025015LV	210	250	15	104	LOW	VITON
RSM21025016LN	210	250	16	104	LOW	NBR
RSM21524012LN	215	240	12	104	LOW	NBR
RSM21524012LV	215	240	12	104	LOW	VITON
RSM21524512LN	215	245	12	104	LOW	NBR
RSM21525016LN	215	250	16	104	LOW	NBR
RSM21525016LV	215	250	16	104	LOW	VITON
RSM21825016LN	218	250	16	104	LOW	NBR
RSM22025012LN	220	250	12	104	LOW	NBR
RSM22025012LV	220	250	12	104	LOW	VITON
RSM22025015LN	220	250	15	104	LOW	NBR
RSM22025015LV	220	250	15	104	LOW	VITON
RSM22025015SL	220	250	15	304	LOW	NBR
RSM22025016LN	220	250	16	104	LOW	NBR
RSM22025016LN	220	250	16	135	LOW	NBR
RSM22025016LV	220	250	16	104	LOW	VITON
RSM22025516HN	220	255	16	374	HIGH	NBR
RSM22025516LN	220	255	16	104	LOW	NBR
RSM22025518LN	220	255	18	104	LOW	NBR
RSM22026014LN	220	260	14	104	LOW	NBR
RSM22026015LN	220	260	15	104	LOW	NBR
RSM22026015LV	220	260	15	104	LOW	VITON
RSM22026016LN	220	260	16	104	LOW	NBR
RSM22026016LV	220	260	16	104	LOW	VITON
RSM22026018LN	220	260	18	104	LOW	NBR
RSM22026022LV	220	260	22	104	LOW	VITON
RSM22026022LN	220	260	22	104	LOW	NBR
RSM22027015LN	220	270	15	104	LOW	NBR
RSM22027015LV	220	270	15	104	LOW	VITON
RSM22027523LN	220	275	23	104	LOW	NBR
RSM22527015LN	225	270	15	104	LOW	NBR
RSM23025015LN	230	250	15	104	LOW	NBR
RSM23025110LV	230	251	10	104	LOW	VITON
RSM23025510LN	230	255	10	104	LOW	NBR
RSM23025515LN	230	255	15	104	LOW	NBR
RSM23025515LV	230	255	15	104	LOW	VITON
RSM23026015LV	230	260	15	104	LOW	VITON
RSM23026015LN	230	260	15	104	LOW	NBR
RSM23026016LN	230	260	16	104	LOW	NBR
RSM23026020LN	230	260	20	104	LOW	NBR
RSM23027015LN	230	270	15	104	LOW	NBR
RSM23027015LV	230	270	15	104	LOW	VITON
RSM23027016LN	230	270	16	104	LOW	NBR
RSM23027020LN	230	270	20	104	LOW	NBR
RSM23027022LN	230	270	22	104	LOW	NBR
RSM23028015LN	230	280	15	104	LOW	NBR
RSM23028523LN	230	285	23	104	LOW	NBR
RSM24027008HN	240	270	8	122	HIGH	NBR
RSM24027015LN	240	270	15	104	LOW	NBR
RSM24027015LV	240	270	15	104	LOW	VITON
RSM24027515LN	240	275	15	104	LOW	NBR
RSM24027516LN	240	275	16	104	LOW	NBR
RSM24027516LV	240	275	16	104	LOW	VITON
RSM24027518LN	240	275	18	104	LOW	NBR
RSM24028008HN	240	280	8	122	HIGH	NBR
RSM24028015LV	240	280	15	104	LOW	VITON
RSM24028016LN	240	280	16	104	LOW	NBR
RSM24028016LV	240	280	16	104	LOW	VITON
RSM24028020LN	240	280	20	104	LOW	NBR
RSM24030020LN	240	300	20	104	LOW	NBR
RSM24527015LN	245	270	15	104	LOW	NBR
RSM24528015LN	245	280	15	104	LOW	NBR
RSM24828010LN	248	280	10	104	LOW	NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM25028015LN	250	280	15	104	LOW		NBR
RSM25028015LV	250	280	15	104	LOW		VITON
RSM25028016LN	250	280	16	104	LOW		NBR
RSM25028518LN	250	285	18	104	LOW		NBR
RSM25029015LN	250	290	15	104	LOW		NBR
RSM25029016LN	250	290	16	104	LOW		NBR
RSM25029016LV	250	290	16	104	LOW		VITON
RSM25030020LN	250	300	20	104	LOW		NBR
RSM25032018LN	250	320	18	104	LOW		NBR
RSM25528516LN	255	285	16	104	LOW		NBR
RSM25530018LN	255	300	18	104	LOW		NBR
RSM26028015LN	260	280	15	104	LOW		NBR
RSM26028016LN	260	280	16	104	LOW		NBR
RSM26028111LN	260	281	11	104	LOW		NBR
RSM26029015LN	260	290	15	104	LOW		NBR
RSM26029015LV	260	290	15	104	LOW		VITON
RSM26029016LN	260	290	16	104	LOW		NBR
RSM26029016LV	260	290	16	104	LOW		VITON
RSM26030016LV	260	300	16	104	LOW		VITON
RSM26030018LN	260	300	18	104	LOW		NBR
RSM26030018LV	260	300	18	104	LOW		VITON
RSM26030020LN	260	300	20	103	LOW		NBR
RSM26030020LV	260	300	20	104	LOW		VITON
RSM26030518LN	260	305	18	104	LOW		NBR
RSM26032020LN	260	320	20	104	LOW		NBR
RSM26032020LV	260	320	20	104	LOW		VITON
RSM26032025LN	260	320	25	104	LOW		NBR
RSM26032025LV	260	320	25	104	LOW		VITON
RSM26529016LV	265	290	16	104	LOW		VITON
RSM26529016LN	265	290	16	104	LOW		NBR
RSM27030015LN	270	300	15	104	LOW		NBR
RSM27030015LV	270	300	15	304	LOW		VITON
RSM27031016LN	270	310	16	104	LOW		NBR
RSM27031016LV	270	310	16	104	LOW		VITON
RSM27032020LN	270	320	20	104	LOW		NBR
RSM27032020LV	270	320	20	104	LOW		VITON
RSM27531016LN	275	310	16	104	LOW		NBR
RSM27531016LV	275	310	16	104	LOW		VITON
RSM27531520LN	275	315	20	104	LOW		NBR
RSM27832020LN	278	320	20	104	LOW		NBR
RSM27832020LV	278	320	20	104	LOW		VITON
RSM28031015LN	280	310	15	104	LOW		NBR
RSM28031015LV	280	310	15	104	LOW		VITON
RSM28031016LN	280	310	16	104	LOW		NBR
RSM28031016LV	280	310	16	104	LOW		VITON
RSM28031018LN	280	310	18	104	LOW		NBR
RSM28031018LV	280	310	18	104	LOW		VITON
RSM28032015LN	280	320	15	104	LOW		NBR
RSM28032015LV	280	320	15	104	LOW		VITON
RSM28032016LN	280	320	16	104	LOW		NBR
RSM28032016LV	280	320	16	104	LOW		VITON
RSM28032018LN	280	320	18	104	LOW		NBR
RSM28032018LV	280	320	18	104	LOW		VITON
RSM28032020LN	280	320	20	104	LOW		NBR
RSM28032020LV	280	320	20	104	LOW		VITON
RSM28032420LN	280	324	20	104	LOW		NBR
RSM28034017LV	280	340	17	104	LOW		VITON
RSM28034017LN	280	340	17	104	LOW		NBR
RSM28531016LN	285	310	16	104	LOW		NBR
RSM28532516LN	285	325	16	104	LOW		NBR
RSM28733018LN	287	330	18	104	LOW		NBR
RSM29030608LN	290	306	8	104	LOW		NBR
RSM29032015LN	290	320	15	104	LOW		NBR
RSM29033018LN	290	330	18	104	LOW		NBR
RSM29033018LV	290	330	18	104	LOW		VITON
RSM29035025LN	290	350	25	104	LOW		NBR
RSM29532516LN	295	325	16	104	LOW		NBR
RSM30033216LN	300	332	16	104	LOW		NBR
RSM30033216LV	300	332	16	104	LOW		VITON
RSM30034015LN	300	340	15	104	LOW		NBR
RSM30034016LV	300	340	16	104	LOW		VITON
RSM30034016LN	300	340	16	104	LOW		NBR
RSM30034018LV	300	340	18	104	LOW		VITON
RSM30034020LN	300	340	20	104	LOW		NBR
RSM30034020LV	300	340	20	104	LOW		VITON
RSM30034518LN	300	345	18	104	LOW		NBR
RSM31034015LN	310	340	15	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM31034015LV	310	340	15	104	LOW		VITON
RSM31035018LN	310	350	18	104	LOW		NBR
RSM31035018LV	310	350	18	104	LOW		VITON
RSM31035020LN	310	350	20	104	LOW		NBR
RSM31535520LN	315	355	20	104	LOW		NBR
RSM31535520LV	315	355	20	104	LOW		VITON
RSM32035016LN	320	350	16	104	LOW		NBR
RSM32035018LN	320	350	18	104	LOW		NBR
RSM32035020LN	320	350	20	104	LOW		NBR
RSM32036015LN	320	360	15	104	LOW		NBR
RSM032036018LN	320	360	18	104	LOW		NBR
RSM32036018LV	320	360	18	104	LOW		VITON
RSM32036020LN	320	360	20	104	LOW		NBR
RSM32036020LV	320	360	20	104	LOW		VITON
RSM32036420LN	320	364	20	104	LOW		NBR
RSM32048020LN	320	480	20	104	LOW		NBR
RSM32536516LN	325	365	16	104	LOW		NBR
RSM33037018LN	330	370	18	104	LOW		NBR
RSM33037018LV	330	370	18	104	LOW		VITON
RSM33038010LN	330	380	10	104	LOW		NBR
RSM33537518LN	335	375	18	104	LOW		NBR
RSM34037216LV	340	372	16	104	LOW		VITON
RSM34037216LN	340	372	16	104	LOW		NBR
RSM34038018LV	340	380	18	104	LOW		VITON
RSM34038018LN	340	380	18	104	LOW		NBR
RSM34038020LN	340	380	20	104	LOW		NBR
RSM34038020LV	340	380	20	104	LOW		VITON
RSM35038015LN	350	380	15	104	LOW		NBR
RSM35038015LV	350	380	15	104	LOW		VITON
RSM35038016LN	350	380	16	104	LOW		NBR
RSM35039018LN	350	390	18	104	LOW		NBR
RSM35039018LV	350	390	18	104	LOW		VITON
RSM35039312LN	350	393	12	104	LOW		NBR
RSM35040520LN	350	405	20	104	LOW		NBR
RSM35040520LV	350	405	20	104	LOW		VITON
RSM35041028LN	350	410	28	104	LOW		NBR
RSM36039015LN	360	390	15	104	LOW		NBR
RSM36039015LV	360	390	15	104	LOW		VITON
RSM36039016LV	360	390	16	104	LOW		VITON
RSM36039016LN	360	390	16	104	LOW		NBR
RSM36040016LN	360	400	16	104	LOW		NBR
RSM36040018LN	360	400	18	104	LOW		NBR
RSM36040020LN	360	400	20	104	LOW		NBR
RSM36040020LV	360	400	20	104	LOW		VITON
RSM36040420LN	360	404	20	104	LOW		NBR
RSM36540514LN	365	405	14	104	LOW		NBR
RSM36540515LN	365	405	15	104	LOW		NBR
RSM36540515LV	365	405	15	104	LOW		VITON
RSM36740618LN	367	406	18	104	LOW		NBR
RSM37041015LN	370	410	15	104	LOW		NBR
RSM37042025LV	370	420	25	104	LOW		VITON
RSM38041012LN	380	410	12	104	LOW		NBR
RSM38041013LN	380	410	13	104	LOW		NBR
RSM38042015LN	380	420	15	104	LOW		NBR
RSM38042020LN	380	420	20	104	LOW		NBR
RSM38042020LV	380	420	20	104	LOW		VITON
RSM38042025LN	380	420	25	104	LOW		NBR
RSM38042025LV	380	420	25	104	LOW		VITON
RSM38043019LN	380	430	19	104	LOW		NBR
RSM38043019LV	380	430	19	104	LOW		VITON
RSM39042015LN	390	420	15	104	LOW		NBR
RSM39042518LV	390	425	18	104	LOW		VITON
RSM39043018LN	390	430	18	104	LOW		NBR
RSM39043020LN	390	430	20	104	LOW		NBR
RSM39442016LN	394	420	16	104	LOW		NBR
RSM40044018LN	400	440	18	104	LOW		NBR
RSM40044020LN	400	440	20	104	LOW		NBR
RSM40044020LV	400	440	20	104	LOW		VITON
RSM400451174LN	400	451	17.5	104	LOW		NBR
RSM40544418LN	405	444	18	104	LOW		NBR
RSM41044012LN	410	440	12	104	LOW		NBR
RSM41044015LN	410	440	15	104	LOW		NBR
RSM41047025LN	410	470	25	104	LOW		NBR

ROTARY OIL SEAL

METRIC

LOW PRESSURE -- < 0.7 BAR
HIGH PRESSURE -- < 10 BAR



PROFILE 104

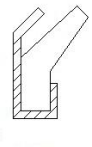
MAXIMUM PRESSURE IS RELATIVE TO SHAFT SPEED etc-- ENQUIRE WHEN DESIGNING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM42046020LN	420	460	20	104	LOW		NBR
RSM42046020LV	420	460	20	104	LOW		VITON
RSM42047020LN	420	470	20	104	LOW		NBR
RSM42047020LV	420	470	20	104	LOW		VITON
RSM42047022LN	420	470	22	104	LOW		NBR
RSM42047022LV	420	470	22	104	LOW		VITON
RSM43047018LN	430	470	18	104	LOW		NBR
RSM44048020LN	440	480	20	104	LOW		NBR
RSM44048020LV	440	480	20	104	LOW		VITON
RSM44548016LN	445	480	16	104	LOW		NBR
RSM44848018LN	448	480	18	104	LOW		NBR
RSM45050025SL	450	500	25	302	LOW		NBR
RSM45051025LN	450	510	25	104	LOW		NBR
RSM46050020LN	460	500	20	104	LOW		NBR
RSM46751020LN	467	510	20	104	LOW		NBR
RSM47052022LN	470	520	22	104	LOW		NBR
RSM47052022LV	470	520	22	104	LOW		VITON
RSM48052020LN	480	520	20	103	LOW		NBR
RSM48052020LN	480	520	20	104	LOW		NBR
RSM50053025LN	500	530	25	104	LOW		NBR
RSM50055025LN	500	550	25	104	LOW		NBR
RSM54058020LN	540	580	20	104	LOW		NBR
RSM54059020LN	540	590	20	104	LOW		NBR
RSM56060018LN	560	600	18	104	LOW		NBR
RSM56061020LN	560	610	20	210	LOW		NBR
RSM56061020LN	560	610	20	104	LOW		NBR
RSM56061020LV	560	610	20	104	LOW		VITON
RSM57062022LN	570	620	22	104	LOW		NBR
RSM60064020LN	600	640	20	210	LOW		NBR
RSM60064020LN	600	640	20	104	LOW		NBR
RSM60067030LN	600	670	30	104	LOW		NBR
RSM63068020LN	630	680	20	104	LOW		NBR

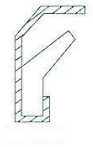
SEE BEGINNING OF SECTION FOR COMPLETE PROFILE LISTING

PART #	ID	OD	HT	PROFILE	PRESSURE	ROTATION	MATERIAL
RSM71076020LY	710	760	20		LOW		

GAMMA SEAL METRIC



291 (RB)



292 (9RB)

INTERFERENCE FIT ON ROTATING SHAFT TO RETAIN GREESE / OR EXCLUDE DUST AND DIRT



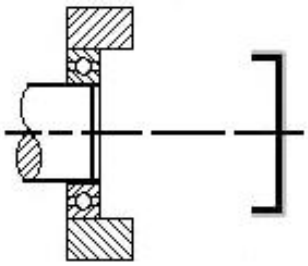
METAL HOUSING RUBBER SEALING LIP

PART #	ID	OD	HT	PROFILE	MATERIAL
GS01002403.5	10	24	3.5	291	NBR
GS01403004	14	30	4	291	NBR
GS01503004	15	30	4	291	NBR
GS01503204	15	32	4	292	NBR
GS01603204	16	32	4	291	NBR
GS01703204	17	32	4	291	NBR
GS01703404	17	34	4	292	NBR
GS01803304	18	33	4	291	NBR
GS02003504	20	35	4	291	NBR
GS02003704/6	20	37	4	292	NBR
GS02204004.7	22	40	4.7	291	NBR
GS02404004	24	40	4	291	NBR
GS02504004	25	40	4	291	NBR
GS02504204	25	42	4	292	NBR
GS02604004	26	40	4	291	NBR
GS02804304	28	43	4	291	NBR
GS028.5604806.5	28.56	48	6.5	292	NBR
GS03004704.5	30	47	4.5	291	NBR
GS03004804.5	30	48	4.5	292	NBR
GS03204904.5	32	49	4.5	291	NBR
GS035051.504.5	35	51.5	4.5	292	NBR
GS03505204.5	35	52	4.5	291	NBR
GS03805504.5	38	55	4.5	291	NBR
GS04005704.5	40	57	4.5	291	NBR
GS04005804.5	40	58	4.5	292	NBR
GS04007410	40	70	10	292	NBR
GS04506204.5	45	62	4.5	291	NBR
GS04506304.5	45	63	4.5	292	NBR
GS05007205.5	50	72	5.5	292	NBR
GS05008007.5	50	80	7.5	292	NBR
GS05207205.5	52	72	5.5	291	NBR
GS05507505.5	55	75	5.5	291	NBR
GS05507705.5	55	77	5.5	292	NBR
GS05807805.5	58	78	5.5	291	NBR
GS06008805	60	80	5	292	NBR
GS06008005.5	60	80	5.5	291	NBR
GS06008205.5	60	82	7.5	292	NBR
GS06208205.5	62	82	5.5	291	NBR
GS06508505.5	65	85	5.5	291	NBR
GS06508705.5	65	87	7.5	292	NBR
GS07009005.5	70	90	5.5	291	NBR
GS07209205.5	72	92	5.5	291	NBR
GS07509505.5	75	95	5.5	291	NBR
GS07509505.5V	75	95	5.5	291	VITON
GS07509705.5	75	97	7.5	292	NBR
GS07809805.5	78	98	5.5	291	NBR
GS08010005.5	80	100	5.5	291	NBR
GS08010205.5	80	102	5.5	292	NBR
GS08510505.5	85	105	5.5	291	NBR
GS08510705.5	85	107	7.5	292	NBR
GS09011005.5	90	110	5.5	291	NBR
GS09011205.5	90	112	5.5	292	NBR
GS09011205.5SSE	90	112	5.5		
GS09511505.5	95	115	5.5	291	NBR
GS10012005.5	100	120	5.5	291	NBR
GS10012205.5	100	122	5.5	291	NBR
GS10512505.5	105	125	5.5	291	NBR
GS14017807.5	140	178	7.5	292	NBR

END CAP / COVER

PLUGS UNUSED PORTS

SEALS BEARINGS WHERE SHAFT DOES NOT PASS THROUGH THE HOUSING WALL





COLD ROLLED STEEL

NITRILE / VITON COVERED

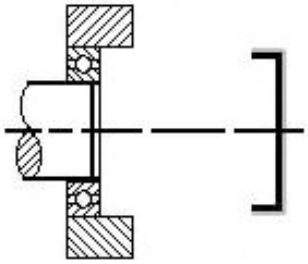
PART #	OD	LENGTH	MATERIAL
EC00805N	8	5	NITRILE COVERED STEEL
EC01504N	15	4	NITRILE COVERED STEEL
EC01604N	16	4	NITRILE COVERED STEEL
EC01804N	18	4	NITRILE COVERED STEEL
EC01906N	19	6	NITRILE COVERED STEEL
EC01907N	19	7	NITRILE COVERED STEEL
EC02004N	20	4	NITRILE COVERED STEEL
EC02005N	20	5	NITRILE COVERED STEEL
EC02104N	21	4	NITRILE COVERED STEEL
EC02405N	24	5	NITRILE COVERED STEEL
EC02504N	25	4	NITRILE COVERED STEEL
EC02507N	25	7	NITRILE COVERED STEEL
EC02606.5N	26	6.5	NITRILE COVERED STEEL
EC02805N	28	5	NITRILE COVERED STEEL
EC02807N	28	7	NITRILE COVERED STEEL
EC03004N	30	4	NITRILE COVERED STEEL
EC03006N	30	6	NITRILE COVERED STEEL
EC03007N	30	7	NITRILE COVERED STEEL
ECI125312N	31.8	7.9	NITRILE COVERED STEEL
EC03205N	32	5	NITRILE COVERED STEEL
EC03207N	32	7	NITRILE COVERED STEEL
EC03208N	32	8	NITRILE COVERED STEEL
EC03209.5N	32	9.5	NITRILE COVERED STEEL
EC03505N	35	5	NITRILE COVERED STEEL
EC03507N	35	7	NITRILE COVERED STEEL
EC03508N	35	8	NITRILE COVERED STEEL
EC03707N	37	7	NITRILE COVERED STEEL
EC03807N	38	7	NITRILE COVERED STEEL

PART #	OD	LENGTH	MATERIAL
EC04004.5N	40	4.5	NITRILE COVERED STEEL
EC04006N	40	6	NITRILE COVERED STEEL
EC04007N	40	7	NITRILE COVERED STEEL
ECI162312N	41.3	7.9	NITRILE COVERED STEEL
EC04206N	42	6	NITRILE COVERED STEEL
EC04207N	42	7	NITRILE COVERED STEEL
EC04207V	42	7	VITON COVERED STEEL
EC04607N	46	7	NITRILE COVERED STEEL
EC04704N	47	4	NITRILE COVERED STEEL
EC04706.5N	47	6.5	NITRILE COVERED STEEL
EC04707N	47	7	NITRILE COVERED STEEL
EC04708N	47	8	NITRILE COVERED STEEL
EC04710N	47	10	NITRILE COVERED STEEL
EC04807N	48	7	NITRILE COVERED STEEL
EC05005N	50	5	NITRILE COVERED STEEL
EC05007N	50	7	NITRILE COVERED STEEL
EC05206.5N	52	6.5	NITRILE COVERED STEEL
EC05207N	52	7	NITRILE COVERED STEEL
EC05210N	52	8	NITRILE COVERED STEEL
EC05508N	55	8	NITRILE COVERED STEEL
EC05607N	56	7	NITRILE COVERED STEEL
EC06007N	60	7	NITRILE COVERED STEEL
EC06008N	60	8	NITRILE COVERED STEEL
EC06010N	60	10	NITRILE COVERED STEEL
EC06207N	62	7	NITRILE COVERED STEEL
EC06208N	62	8	NITRILE COVERED STEEL
EC06209N	62	9	NITRILE COVERED STEEL
EC06808N	68	8	NITRILE COVERED STEEL
EC07207N	72	7	NITRILE COVERED STEEL
EC07208N	72	8	NITRILE COVERED STEEL
EC07210N	72	10	NITRILE COVERED STEEL

END CAP / COVER

PLUGS UNUSED PORTS

SEALS BEARINGS WHERE SHAFT DOES NOT PASS THROUGH THE HOUSING WALL





COLD ROLLED STEEL

NITRILE / VITON COVERED

PART #	OD	LENGTH	MATERIAL
EC07507N	75	7	NITRILE COVERED STEEL
EC07509N	75	9	NITRILE COVERED STEEL
EC07510N	75	10	NITRILE COVERED STEEL
EC08007N	80	7	NITRILE COVERED STEEL
EC08008N	80	8	NITRILE COVERED STEEL
EC08008V	80	8	VITON COVERED STEEL
EC08010N	80	10	NITRILE COVERED STEEL
EC08012N	80	12	NITRILE COVERED STEEL
EC08508N	85	8	NITRILE COVERED STEEL
EC08510N	85	10	NITRILE COVERED STEEL
EC08512N	85	12	NITRILE COVERED STEEL
EC09007N	90	7	NITRILE COVERED STEEL
EC09008N	90	8	NITRILE COVERED STEEL
EC09010N	90	10	NITRILE COVERED STEEL
EC09012N	90	12	NITRILE COVERED STEEL
EC09210N	92	10	NITRILE COVERED STEEL
EC09510N	95	10	NITRILE COVERED STEEL
EC09512N	95	12	NITRILE COVERED STEEL
EC10010N	100	10	NITRILE COVERED STEEL
EC10010V	100	10	VITON COVERED STEEL
EC10012N	100	12	NITRILE COVERED STEEL
EC10015N	100	15	NITRILE COVERED STEEL
EC11010N	110	10	NITRILE COVERED STEEL
EC11012N	110	12	NITRILE COVERED STEEL
EC11512N	115	12	NITRILE COVERED STEEL
EC12008N	120	8	NITRILE COVERED STEEL
EC12016N	120	16	NITRILE COVERED STEEL
EC12512N	125	12	NITRILE COVERED STEEL
EC128.612N	128.6	12	NITRILE COVERED STEEL
EC13008N	130	8	NITRILE COVERED STEEL
EC13012N	130	12	NITRILE COVERED STEEL
EC14013N	140	13	NITRILE COVERED STEEL

PART #	OD	LENGTH	MATERIAL
EC14015N	140	15	NITRILE COVERED STEEL
EC15015N	150	15	NITRILE COVERED STEEL
EC16015N	160	15	NITRILE COVERED STEEL
EC16815N	168	15	NITRILE COVERED STEEL
EC17013N	170	13	NITRILE COVERED STEEL
EC17015N	170	15	NITRILE COVERED STEEL
EC18012N	180	12	NITRILE COVERED STEEL
EC20013N	200	13	NITRILE COVERED STEEL
EC21015N	210	15	NITRILE COVERED STEEL
EC23014N	230	14	NITRILE COVERED STEEL
EC25015N	250	15	NITRILE COVERED STEEL
EC26015N	260	15	NITRILE COVERED STEEL
EC29018N	290	18	NITRILE COVERED STEEL

Vee Rings



VA VS VL VE

Zero pressure axial seal for shafts to protect bearings from splash, dust, water oil etc

Zero pressure axial seal for shafts

STRETCH FIT ON SHAFT

ONE SIZE MAY FIT MANY SHAFT SIZE S

PART #	TO SUIT SHAFT FROM	TO	HEIGHT	MATERIAL
V0003A-V60	2.7	3.5	3	VITON
V0003A-N60	2.7	3.5	3	NITRILE
V0004A-N60	3.5	4.5	3.7	NITRILE
V0004A-V60	3.5	4.5	3.7	VITON
V0005A-N60	4.5	5.5	3.7	NITRILE
V0005A-V60	4.5	5.5	3.7	VITON
V0005S-N60	4.5	5.5	5.2	NITRILE
V0005S-V60	4.5	5.5	5.2	VITON
V0006A-N60	5.5	6.5	3.7	NITRILE
V0006A-V60	5.5	6.5	3.7	NITRILE
V0006S-N60	5.5	6.5	5.2	NITRILE
V0006S-V60	5.5	6.5	5.2	VITON
V0007A-V60	6.5	8	3.7	VITON
V0007A-N60	6.5	8	3.7	NITRILE
V0007S-N60	6.5	8	5.2	NITRILE
V0007S-V60	6.5	8	5.2	VITON
V0008A-N60	8	9.5	3.7	NITRILE
V0008A-V60	8	9.5	3.7	VITON
V0008S-N60	8	9.5	5.2	NITRILE
V0008S-V60	8	9.5	5.2	VITON
V0010A-N60	9.5	11.5	5.5	NITRILE
V0010A-V60	9.5	11.5	5.5	VITON
V0010S-N60	9.5	11.5	7.7	NITRILE
V0010S-V60	9.5	11.5	7.7	VITON
V0012A-N60	11.5	13.5	5.5	NITRILE
V0012A-V60	11.5	13.5	5.5	VITON

PART #	TO SUIT SHAFT FROM	TO	HEIGHT	MATERIAL
V0012S-V60	11.5	13.5	7.7	VITON
V0012S-N60	11.5	13.5	7.7	NITRILE
V0014A-V60	13.5	15.5	5.5	VITON
V0014A-N60	13.5	15.5	5.5	NITRILE
V0014S-N60	13.5	15.5	7.7	NITRILE
V0014S-V60	13.5	15.5	7.7	VITON
V0016A-N60	15.5	17.5	5.5	NITRILE
V0016A-V60	15.5	17.5	5.5	VITON
V0016S-N60	15.5	17.5	7.7	NITRILE
V0016S-V60	15.5	17.5	7.7	VITON FDA
V0016S-V60	15.5	17.5	7.7	VITON
V0018A-N60	17.5	19	5.5	NITRILE
V0018A-V60	17.5	19	5.5	VITON
V0018S-N60	17.5	19	7.7	NITRILE
V0018S-V60	17.5	19	7.7	VITON
V0020A-N60	19	21	7.5	NITRILE
V0020A-V60	19	21	7.5	VITON
V0020S-V60	19	21	10.5	VITON
V0020S-N60	19	21	10.5	NITRILE
V0022A-N60	21	24	7.5	NITRILE
V0022A-V60	21	24	7.5	VITON
V0022S-N60	21	24	10.5	NITRILE
V0022S-V60	21	24	10.5	VITON
V0025A-N60	24	27	7.5	NITRILE
V0025A-S60	24	27	7.5	SILICONE
V0025A-V60	24	27	7.5	VITON

PART #	TO SUIT SHAFT FROM	TO	HEIGHT	MATERIAL
V0025S-N60	24	27	10.5	NITRILE
V0025S-V60	24	27	10.5	VITON
V0025S-V60	24	27	10.5	VITON FDA
V0028A-N60	27	29	7.5	NITRILE
V0028A-V60	27	29	7.5	VITON
V0028S-N60	27	29	10.5	NITRILE
V0028S-V60	27	29	10.5	VITON
V0030A-N60	29	31	7.5	NITRILE
V0030A-V60	29	31	7.5	VITON
V0030S-N60	29	31	10.5	NITRILE
V0030S-V60	29	31	10.5	VITON
V0030S-V60	29	31	10.5	VITON FDA
V0032A-N60	31	33	7.5	NITRILE
V0032A-V60	31	33	7.5	VITON
V0032S-N60	31	33	10.5	NITRILE
V0032S-V60	31	33	10.5	VITON
V0035A-V60	33	36	7.5	VITON
V0035A-N60	33	36	7.5	NITRILE
V0035S-N60	33	36	10.5	NITRILE
V0035S-V60	33	36	10.5	VITON
V0038A-N60	36	38	7.5	NITRILE
V0038A-V60	36	38	7.5	VITON
V0038S-N60	36	38	10.5	NITRILE
V0038S-V60	36	38	10.5	VITON
V0038S-V60	36	38	10.5	VITON FDA
V0040A-N60	38	43	9	NITRILE
V0040A-V60	38	43	9	VITON
V0040A-V60	38	43	9	VITON FDA
V0040S-N60	38	43	13	NITRILE
V0040S-V60	38	43	13	VITON
V0040S-V60	38	43	13	VITON FDA
V0045A-N60	43	48	9	NITRILE
V0045A-V60	43	48	9	VITON FDA
V0045A-V60	43	48	9	VITON
V0045S-N60	43	48	13	NITRILE
V0045S-V60	43	48	13	VITON
V0050A-N60	48	53	9	NITRILE
V0050A-V60	48	53	9	VITON
V0050A-V60	48	53	9	VITON FDA
V0050S-N60	48	53	13	NITRILE
V0050S-V60	48	53	13	VITON
V0050S-V60	48	53	13	VITON FDA
V0055A-N60	53	58	9	NITRILE
V0055A-V60	53	58	9	VITON
V0055S-V60	53	58	13	VITON
V0055S-V60	53	58	13	VITON FDA
V0055S-N60	53	58	13	NITRILE
V0060A-V60	58	63	9	VITON FDA

PART #	TO SUIT SHAFT FROM	TO	HEIGHT	MATERIAL
V0060A-V60	58	63	9	VITON
V0060S-N60	58	63	13	NITRILE
V0060S-V60	58	63	13	VITON
V0065A-N60	63	68	9	NITRILE
V0065A-V60	63	68	9	VITON
V0065A-V60	63	68	9	VITON FDA
V0065S-N60	63	68	13	NITRILE
V0065S-V60	63	68	13	VITON
V0070A-N60	68	73	11	NITRILE
V0070A-V60	68	73	11	VITON
V0070A-V60	68	73	11	VITON FDA
V0070S-V60	68	73	15.5	VITON FDA
V0070S-N60	68	73	15.5	NITRILE
V0070S-V60	68	73	15.5	VITON
V0075A-N60	73	78	11	NITRILE
V0075A-V60	73	78	11	VITON
V0075A-V60	73	78	11	VITON FDA
V0075S-N60	73	78	15.5	NITRILE
V0075S-V60	73	78	15.5	VITON
V0080A-N60	78	83	11	NITRILE
V0080A-V60	78	83	11	VITON
V0080A-V60	78	83	11	VITON FDA
V0080S-N60	78	83	15.5	NITRILE
V0080S-V60	78	83	15.5	VITON
V0085A-N60	83	88	11	NITRILE
V0085A-V60	83	88	11	VITON
V0085S-N60	83	88	15.5	NITRILE
V0085S-V60	83	88	15.5	VITON
V0090A-V60	88	93	11	VITON
V0090A-N60	88	93	11	NITRILE
V0090S-N60	88	93	15.5	NITRILE
V0090S-V60	88	93	15.5	VITON
V0095A-N60	93	98	11	NITRILE
V0095A-V60	93	98	11	VITON
V0095S-N60	93	98	15.5	NITRILE
V0095S-V60	93	98	15.5	VITON
V0100A-N60	98	105	11	NITRILE
V0100A-V60	98	105	11	VITON
V0100A-V60	98	105	11	VITON FDA
V0100S-V60	98	105	15.5	VITON
V0100S-N60	98	105	15.5	NITRILE
V0110A-V60	105	115	12.8	VITON
V0110A-N60	105	115	12.8	NITRILE
V0110S-N60	105	115	18	NITRILE
V0110S-V60	105	115	18	VITON
V0120L-N60	115	125	10.5	NITRILE
V0120A-N60	115	125	12.8	NITRILE
V0120A-V60	115	125	12.8	VITON

PART #	TO SUIT SHAFT FROM	TO	HEIGHT	MATERIAL
V0120S-N60	115	125	18	NITRILE
V0120S-V60	115	125	18	VITON
V0130A-N60	125	135	12.8	NITRILE
V0130A-V60	125	135	12.8	VITON
V0130S-N60	125	135	18	NITRILE
V0130S-V60	125	135	18	VITON
V0140L-N60	135	145	10.5	NITRILE
V0140A-N60	135	145	12.8	NITRILE
V0140A-V60	135	145	12.8	VITON
V0140S-N60	135	145	18	NITRILE
V0140S-V60	135	145	18	VITON
V0150L-N60	145	155	10.5	NITRILE
V0150A-N60	145	155	12.8	NITRILE
V0150A-V60	145	155	12.8	VITON
V0150S-N60	145	155	18	NITRILE
V0150S-V60	145	155	18	VITON
V0160L-N60	155	165	10.5	NITRILE
V0160A-N60	155	165	14.5	NITRILE
V0160A-V60	155	165	14.5	VITON
V0160S-N60	155	165	20.5	NITRILE
V0160S-V60	155	165	20.5	VITON
V0170L-N60	165	175	10.5	NITRILE
V0170A-V60	165	175	14.5	VITON
V0170A-N60	165	175	14.5	NITRILE
V0170S-N60	165	175	20.5	NITRILE
V0170S-V60	165	175	20.5	VITON
V0180L-N60	175	185	10.5	NITRILE
V0180L-V60	175	185	10.5	
V0180A-N60	175	185	14.5	NITRILE
V0180A-V60	175	185	14.5	VITON
V0180S-N60	175	185	20.5	NITRILE
V0180S-V60	175	185	20.5	VITON
V0190L-N60	185	195	10.5	NITRILE
V0190A-N60	185	195	14.5	NITRILE
V0190A-V60	185	195	14.5	VITON
V0190S-N60	185	195	20.5	NITRILE
V0190S-V60	185	195	20.5	VITON
V0200A-N60	190	210	25	NITRILE
V0200A-V60	190	210	25	VITON
V0200L-N60	195	210	10.5	NITRILE
V0199A-N60	195	210	14.5	NITRILE
V0199A-V60	195	210	14.5	VITON
V0199S-N60	195	210	20.5	NITRILE
V0199S-V60	195	210	20.5	VITON
V0220L-N60	210	233	10.5	NITRILE
V0220A-N60	210	235	25	NITRILE
V0220A-V60	210	235	25	VITON

PART #	TO SUIT SHAFT FROM	TO	HEIGHT	MATERIAL
V0250L-N60	233	260	10.5	NITRILE
V0250L-V60	233	260	10.5	VITON
V0250A-N60	235	265	25	NITRILE
V0250A-V60	235	265	25	VITON
V0275L-N60	260	285	10.5	NITRILE
V0275A-N60	265	290	25	NITRILE
V0275A-V60	265	290	25	NITRILE
V0300L-N60	285	310	10.5	NITRILE
V0300A-N60	290	310	25	NITRILE
V0300A-V60	290	310	25	VITON
V0325L-N60	310	335	10.5	NITRILE
V0325A-N60	310	335	25	NITRILE
V0350L-N60	325	365	10.5	NITRILE
V0350A-N60	335	365	25	NITRILE
V0375L-N60	365	385	10.5	NITRILE
V0375A-N60	365	390	25	NITRILE
V0400L-N60	385	410	10.5	NITRILE
V0400A-N60	390	430	25	NITRILE
V0400A-V60	390	430	25	VITON
V0425L-N60	410	440	10.5	NITRILE
V0450A-N60	430	480	25	NITRILE
V0450L-N60	440	480	10.5	NITRILE
V0500L-N60	480	530	10.5	NITRILE
V0500A-N60	480	530	25	NITRILE
V0550L-N60	530	580	10.5	NITRILE
V0550A-N60	530	580	25	NITRILE
V0600L-N60	580	630	10.5	NITRILE
V0600A-N60	580	630	25	NITRILE
V0650A-N60	630	665	25	NITRILE
V0750A-N60	745	785	25	NITRILE
V1280E-N60	1270	1295	65	NITRILE
V1575E-N60	1570	1600	65	NITRILE

ROLL PIN -- SPRING PIN

ASSORTMENT BOXES AVAILABLE

MECHANICALLY ZINC PLATED



PART #	DESCRIPTION	
SPB009100AZE	SPRING PIN IMP	3/32 X 1 PLATED
SPB012037AZE	SPRING PIN IMP	1/8 X 3/8 PLATED
SPB012087AZE	SPRING PIN IMP	1/8 X 7/8 PLATED
SPB012100AZE	SPRING PIN IMP	1/8 X 1 PLATED
SPB015050AZE	SPRING PIN IMP	5/32 X 1/2 PLATED
SPB015100AZE	SPRING PIN IMP	5/32 X 1 PLATED
SPB018075AZE	SPRING PIN IMP	3/16 X 3/4 PLATED
SPB018100AZE	SPRING PIN IMP	3/16 X 1 PLATED
SPB018100DSF	SPRING PIN IMP	3/16 x 1 STAINLESS
SPB018150AZE	SPRING PIN IMP	3/16 X 1-1/2 PLATED
SPB021125AZE	SPRING PIN IMP	7/32 X 1-1/4 PLATED
SPB025100AZE	SPRING PIN IMP	1/4 X 1 PLATED
SPM030008AZE	SPRING PIN 3 X 8	PLATED
SPM030016AZE	SPRING PIN	3 X 16 PLATED
SPM030018AZE	SPRING PIN	3 X 18 PLATED
SPM030026	SPRING PIN MET	3 x 26 PLATED
SPM040010AZE	SPRING PIN	4 X 10 PLATED
SPM040020AZE	SPRING PIN ISO	4 X 20 PLATED
SPM040024AZE	SPRING PIN MET	4 X 24 PLATED
SPM040026	SPRING PIN MET	4 x 26 PLATED
SPM040030AZE	SPRING PIN MET	4 X 30 PLATED
SPM050016AZE	SPRING PIN MET	5 X 16 PLATED
SPM050020	SPRING PIN MET	5 x 20 PLATED
SPM050026AZE	SPRING PIN MET	5 X 26 PLATED
SPM050036AZE	SPRING PIN MET	5 X 36 PLATED
SPM060032AZE	SPRING PIN MET	6 X 32 PLATED
SPM080026AZE	SPRING PIN MET	8 X 26 PLATED
SPM080045AZE	SPRING PIN MET	8 X 45 PLATED
SPM100045AZE	SPRING PIN MET	10 X 45 PLATED
SPM120050AZE	SPRING PIN MET	12 X 50 PLATED

E - CLIP / PUSH ON FASTENERS

SHAFT FASTENERS



E-CLIP



PUSH ON

PART #	DESCRIPTION	
D1500-0040APP	E CLIP DIN6799	4 X 0.7MM
D1500-0050APP	E CLIP DIN6799	5 X 0.7MM
D1500-0060APP	E CLIP DIN6799	6 X 0.7MM
D1500-0070APP	E CLIP DIN6799	7 X 0.9MM
D1500-0080APP	E CLIP DIN6799	8 X 1MM
D1500-0090APP	E CLIP DIN6799	9 X 1.1MM
D1500-0100AP	E CLIP DIN6799	10 X 1.2MM
D1500-0100DSF	E CLIP	STAINLESS
D1500-0120APP	E CLIP DIN6799	12 X 1.3MM
N1465-0025APP	EXT PUSH ON	0.25 X 0.015
N1465-0031APP	EXT PUSH ON	0.31 X 0.015
N14650037APP	EXT PUSH ON	0.37 X 0.015
N1465-0050APP	EXT PUSH ON	0.50 X 0.015
N1500-0015APP	E CLIP IMP	0.15 X .025
N1500-0018APP	E CLIP IMP	0.18 X .025
N1500-0025APP	E CLIP IMP	0.25 X .025
N1500-0031APP	E CLIP IMP	0.31 X .025
N1500-0037APP	E CLIP IMP	0.37 X .025
N1500-0043APP	E CLIP IMP	0.43 X .035
N1500-0050APP	E CLIP IMP	0.50 X .042
N1500-0062APP	E CLIP IMP	0.62 X .042

EXTERNAL CIRCLIP

N1465



EXTERNAL PUSH ON

APP -- STANDARD MATERIAL

CARBON SPRING STEEL PHOSPH ATE OIL FINISH

PART#	SHAFT	THICKNESS	ACTUAL ID
D1400-0060APP	6MM	0.7	5.6
D1400-0080APP	8MM	0.8	7.4
D1400-0090APP	9MM	1	8.4
D1400-0100APP	10MM	1	9.3
D1400-0100DSF	10MM	1	9.3
D1400-0110APP	11MM	1	10.2
D1400-0120APP	12MM	1	11
D1400-0120DSF	12MM	1	11
D1400-0130APP	13MM	1	11.9
D1400-0130DSF	13MM	1	11.9
D1400-0140APP	14MM	1	12.9
D1400-0150APP	15MM	1	13.8
D1400-0150DSF	15MM	1	13.8
D1400-0160APP	16MM	1	14.7
D1400-0160DSF	16MM	1	14.7
D1400-0170APP	17MM	1	15.7
D1400-0170DSF	17MM	1	15.7
D1400-0180APP	18MM	1.2	16.5
D1400-0180DSF	18MM	1.2	16.5
D1400-0190APP	19MM	1.2	17.5
D1400-0190DSF	19MM	1.2	17.5
D1400-0200APP	20MM	1.2	18.5
D1400-0200DSF	20MM	1.2	18.5
D1400-0210APP	21MM	1.2	19.5
D1400-0220APP	22M	1.2	20.5
D1400-0220DSF	22MM	1.2	20.5
D1400-0230APP	23MM	1.2	21.5
D1400-0240APP	24MM	1.2	22.2
D1400-0250APP	25MM	1.2	23.2
D1400-0250DSF	25MM	1.2	23.2
D1400-0270AZE	27MM	1.2	24.9
D1400-0280APP	28MM	1.5	25.9
D1400-0280DSF	28MM	1.5	25.9
D1400-0300APP	30MM	1.5	27.9
D1400-0300DSF	30MM	1.5	27.9
D1400-0320APP	32MM	1.5	29.6
D1400-0320DSF	32MM	1.5	29.6
D1400-0350APP	35MM	1.5	32.2
D1400-0350DSF	35MM	1.5	32.2
D1400-0380APP	38MM	1.75	35.2

D1400



EXTERNAL CIRCLIP

DSF -- MATERIAL

STAINLESS STEEL

PART#	SHAFT	THICKNESS	ACTUAL ID
D1400-0380DSF	38MM	1.75	35.2
D1400-0400APP	40MM	1.75	36.5
D1400-0400DSF	40MM	1.75	36.5
D1400-0420APP	42MM	1.75	38.5
D1400-0450APP	45MM	1.75	41.5
D1400-0450DSF	45MM	1.75	41.5
D1400-0470APP			
D1400-0500APP	50MM	2	45.8
D1400-0500DSF	50MM	2	45.8
D1400-0520APP	52MM	2	47.8
D1400-1000APP			
N1400-0025APP	0.25"	0.025	0.225
N1400-0031APP	0.31"	0.025	0.281
N1400-0037APP	0.37"	0.025	0.338
N1400-0043APP	0.43"	0.025	0.395
N1400-0050APP	0.50"	0.035	0.461
N1400-0056APP	0.56"	0.035	0.521
N1400-0062APP	0.62"	0.035	0.579
N1400-0068APP	0.68"	0.042	0.635
N1400-0075APP	0.75"	0.042	0.693
N1400-0081APP	0.81"	0.042	0.751
N1400-0087APP	0.87"	0.042	0.81
N1400-0093APP	0.93	0.042	0.867
N1400-0100APP	1.00"	0.042	0.925
N1400-0112APP	1.12"	0.05	1.041
N1400-0125APP	1.25"	0.05	1.156
N1400-0131APP	1.31"	0.05	1.214
N1400-0137APP	1.37"	0.05	1.272
N1400-0196APP	1.96"	0.062	1.819

INTERNAL CIRCLIP

APP -- STANDARD MATERIAL

CARBON SPRING STEEL PHOSPH ATE OIL FINISH

DSF -- MATERIAL

STAINLESS STEEL

D1300

INTERNAL CIRCLIP

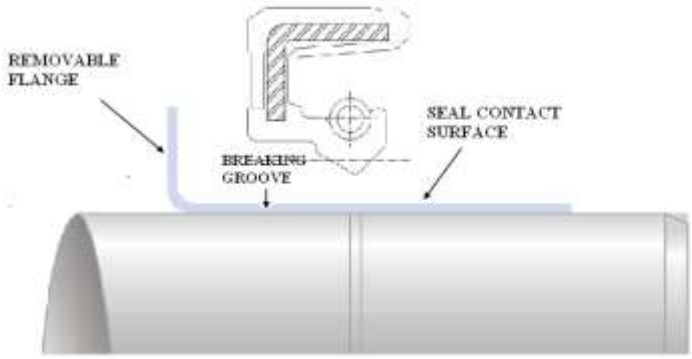


PART#	BORE	THICKNESS	ACTUAL OD
D1300-0080APP	8MM	0.8	8.7
D1300-0090APP	9MM	1	9.8
D1300-0100APP	10MM	1	10.8
D1300-0110APP	11MM	1	11.8
D1300-0120APP	12MM	1	13
D1300-0130APP	13MM	1	14.1
D1300-0130DSF	13MM	1	14.1
D1300-0140APP	14MM	1	15.1
D1300-0150APP	15MM	1	16.2
D1300-0150DSF	15MM	1	16.2
D1300-0160APP	16MM	1	17.3
D1300-0160DSF	16MM	1	17.3
D1300-0170APP	17MM	1	18.3
D1300-0180APP	18MM	1	19.5
D1300-0180DSF	18MM	1	19.5
D1300-0190APP	19MM	1	20.5
D1300-0190DSF	19MM	1	20.5
D1300-0200APP	20MM	1	21.5
D1300-0200DSF	20MM	1	21.5
D1300-0210APP	21MM	1	22.5
D1300-0220APP	22MM	1	23.5
D1300-0220DSF	22MM	1	23.5
D1300-0230APP	23MM	1.2	24.6
D1300-0240APP	24MM	1.2	25.9
D1300-0240DSF	24MM	1.2	25.9
D1300-0250APP	25MM	1.2	26.9
D1300-0250DSF	25MM	1.2	26.9
D1300-0260APP	26MM	1.2	27.9
D1300-0260DSF	26MM	1.2	27.9
D1300-0270APP	27MM	1.2	29.1
D1300-0270DSF			
D1300-0280APP	28MM	1.2	30.1
D1300-0280DSF	28MM	1.2	30.1
D1300-0300APP	30MM	1.2	32.1
D1300-0300DSF	30MM	1.2	32.1
D1300-0320APP	32MM	1.2	34.4
D1300-0320DSF	32MM	1.2	34.4
D1300-0350APP	35MM	1.5	37.8
D1300-0350DSF			
D1300-0360DSF	36MM	1.5	38.8

PART#	BORE	THICKNESS	ACTUAL OD
D1300-0370APP	37MM	1.5	39.8
D1300-0400APP	40MM	1.75	43.5
D1300-0400DSF	40MM	1.75	43.5
D1300-0420APP	40MM	1.75	43.5
D1300-0470APP	47MM	1.75	50.5
D1300-0470DSF	47MM	1.75	50.5
D1300-0500APP			
D1300-0520APP	52MM	2	56.2
D1300-0520DSF	52MM	2	56.2
D1300-0550APP			
D1300-0620APP			
D1300-0620DSF			
D1300-0680APP			
D1300-0750APP			
D1300-1200APP			
D1300-1300APP			
N13000025APP	0.25"	0.015	0.28
N1300-0031APP	0.31"	0.015	0.346
N1300-0037APP	0.37"	0.025	0.415
N1300-0043APP	0.43"	0.025	0.482
N1300-0050APP	0.50"	0.025	0.548
N1300-0056APP	0.56"	0.035	0.62
N1300-0062APP	0.62"	0.035	0.694
N1300-0068APP	0.68"	0.035	0.763
N1300-0075APP	0.75"	0.035	0.831
N1300-0081APP	0.81"	0.042	0.901
N1300-0087APP	0.87"	0.042	0.971
N1300-0093APP	0.93"	0.042	1.041
N1300-0100APP	1.00"	0.042	1.111
N1300-0106APP	1.06"	0.05	1.18
N1300-0112APP	1.12"	0.05	1.249
N1300-0125APP	1.25"	0.05	1.388
N1300-0131APP	1.31"	0.05	1.456
N1300-0137APP	1.37"	0.05	1.526

WEAR PRO

SHAFT REPAIR SLEEVE





WEAR PRO -- SHAFT REPAIR KIT

PART#	SHAFT	MIN SHAFT	MAX SHAFT	LENGTH
99049NAK	12MM	11.91	12.07	6.00
99050NAK	0.500 INCH	12.65	12.75	6.3
99055NAK	14MM	13.89	14	6.40
99056NAK	0.563 INCH	14.22	14.38	6.3
99058NAK	16MM	15.9	16	8.00
99059NAK	15MM	14.96	15.06	5.00
99060NAK	0.684 INCH	17.32	17.42	8.0
99062NAK	0.625 INCH	15.83	15.93	8.0
99068NAK	17MM	16.94	17.04	8.00
99076NAK	0.750 INCH	19	19.1	8.0
99078NAK	20MM	19.94	20.04	8.00
99080NAK	0.781 INCH	19.81	19.91	8.0
99081NAK	0.760 INCH	19.28	19.33	8.0
99082NAK	18MM	17.88	17.98	8.00
99083NAK	0.813 INCH	20.62	20.7	9.53
99084NAK	22MM	21.87	22	6.60
99085NAK	22MM	21.87	21.97	8.00
99086NAK	0.859 INCH	21.77	21.87	6.3
99087NAK	0.875 INCH	22.18	22.28	8.0
99091NAK	0.910 INCH	23.06	23.16	8.0
99092NAK	24MM	23.88	23.98	8.00
99094NAK	0.969 INCH	24.54	24.64	8.0
99096NAK	0.969 INCH	24.54	24.64	15.9
99098NAK	25MM	24.87	25.04	8.00
99100NAK	1.000 INCH	25.35	25.45	8.0

WEAR PRO -- SHAFT REPAIR KIT

PART#	SHAFT	MIN SHAFT	MAX SHAFT	LENGTH
99103NAK	26MM	25.88	26.01	8.00
99106NAK	27MM	26.92	27.02	7.90
99108NAK	1.089 INCH	27.61	27.71	8.0
99111NAK	28MM	27.94	28.07	9.50
99112NAK	1.125 INCH	28.53	28.63	8.0
99114NAK	30MM	29.95	30.08	8.00
99116NAK	1.125 INCH	28.53	28.63	9.5
99118NAK	1.188 INCH	30.1	30.23	8.0
99120NAK	1.156 INCH	29.31	29.41	9.5
99121NAK	33MM	32.94	33.05	8.00
99122NAK	1.175 INCH	29.82	29.92	8.0
99123NAK	31MM	30.89	31.01	8.00
99125NAK	1.250 INCH	31.67	31.83	8.0
99128NAK	32MM	31.92	32.08	19.80
99129NAK	1.313 INCH	33.22	33.38	6.3
99131NAK	1.313 INCH	33.27	33.43	12.7
99133NAK	1.375 INCH	34.82	34.98	8.0
99134NAK	34MM	33.86	34.01	12.70
99138NAK	1.375 INCH	34.82	34.98	12.7
99139NAK	35MM	34.92	35.08	13.00
99141NAK	1.240 INCH	31.42	31.58	8.0
99143NAK	1.435 INCH	36.37	36.53	14.3
99144NAK	1.438 INCH	36.45	36.6	9.5
99146NAK	36MM	35.85	36	13.00
99147NAK	38MM	37.85	38	13.00
99149NAK	1.500 INCH	38.02	38.18	14.3
99150NAK	1.500 INCH	38.02	38.18	9.5
99152NAK	1.523 INCH	38.61	38.76	11.1
99153NAK	40MM	39.84	40	9.90
99155NAK	1.552 INCH	39.34	39.5	11.1
99156NAK	1.563 INCH	39.6	39.75	14.3
99157NAK	40MM	39.93	40.09	13.00
99159NAK	1.569 INCH	39.78	39.93	15.9
99160NAK	1.605 INCH	40.69	40.84	12.7
99161NAK	1.625 INCH	41.2	41.35	8.0

WEAR PRO -- SHAFT REPAIR KIT

PART#	SHAFT	MIN SHAFT	MAX SHAFT	LENGTH
99162NAK	1.625 INCH	41.2	41.35	14.3
99163NAK	41MM	40.84	41	12.70
99165NAK	1.656 INCH	41.99	42.14	14
99166NAK	42MM	41.84	42	11.30
99167NAK	1.688 INCH	42.8	42.95	8.0
99168NAK	1.688 INCH	42.77	42.93	14.3
99169NAK	42MM	41.84	42	14.30
99170NAK	1.739 INCH	44.09	44.25	9.5
99171NAK	1.718 INCH	43.56	43.71	14.3
99172NAK	1.750 INCH	44.37	44.53	9.5
99174NAK	1.750 INCH	44.37	44.53	14.3
99175NAK	1.750 INCH	44.37	44.53	19.1
99176NAK	1.766 INCH	44.73	44.88	14.3
99177NAK	45MM	44.93	45.09	14.00
99179NAK	1.781 INCH	45.16	45.31	16.9
99180NAK	1.750 INCH	44.37	44.53	13.5
99181NAK	1.813 INCH	45.95	46.1	14.3
99182NAK	43MM	42.85	43	12.70
99184NAK	1.875 INCH	47.55	47.7	9.5
99185NAK	1.860 INCH	47.17	47.32	14.3
99186NAK	1.869 INCH	47.4	47.55	22.6
99187NAK	1.875 INCH	47.55	47.7	14.3
99188NAK	1.875 INCH	47.55	47.7	7.5
99189NAK	48MM	47.93	48.09	14.00
99190NAK	1.875 INCH	47.55	47.7	4.5
99192NAK	1.912 INCH	48.49	48.64	9.5
99193NAK	1.938 INCH	49.12	49.28	14.3
99196NAK	50MM	49.91	50.07	14.00
99198NAK	1.980 INCH	50.22	50.37	14.3
99199NAK	2.000 INCH	50.72	50.88	14.3
99200NAK	2.000 INCH	50.72	50.88	22.2
99204NAK	52MM	51.81	52	12.70
99205NAK	2.063 INCH	52.25	52.4	19.8
99210NAK	2.125 INCH	53.92	54.05	12.7
99212NAK	2.125 INCH	53.95	54.1	19.8

WEAR PRO -- SHAFT REPAIR KIT

PART#	SHAFT	MIN SHAFT	MAX SHAFT	LENGTH
99215NAK	55MM	54.91	55.07	20.00
99218NAK	2.188 INCH	55.52	55.68	19.8
99219NAK	2.289 INCH	57.91	58.06	19.84
99220NAK	56MM	55.83	55.98	12.70
99224NAK	56MM	55.83	56.01	19.80
99225NAK	2.250 INCH	57.12	57.28	19.8
99226NAK	2.240 INCH	56.82	56.97	19.4
99227NAK	2.250 INCH	57.12	57.28	8.0
99229NAK	2.230 INCH	56.57	56.72	12.7
99230NAK	2.230 INCH	56.57	56.72	19.8
99231NAK	2.313 INCH	58.65	58.8	19.8
99233NAK	2.330 INCH	59.1	59.26	19.1
99235NAK	60MM	59.91	60.07	20.00
99236NAK	2.375 Inch	60.17	60.33	19.8
99237NAK	2.375 INCH	60.3	60.45	19.8
99238NAK	2.375 INCH	60.25	60.4	15.1
99240NAK	2.375 INCH	60.3	60.45	13.4
99241NAK	60MM	59.92	60.07	9.40
99242NAK	2.438 INCH	61.85	62	12.7
99243NAK	2.438 INCH	61.82	61.98	19.8
99244NAK	62MM	61.81	62	12.70
99248NAK	2.500 INCH	63.5	63.65	12.7
99249NAK	2.492 INCH	63.22	63.37	19.8
99250NAK	2.500 INCH	63.5	63.65	19.8
99251NAK	2.513 INCH	63.75	63.91	19.8
99253NAK	2.500 INCH	63.42	63.58	14.1
99254NAK	65MM	64.92	65.08	20.00
99256NAK	2.563 INCH	65.02	65.18	19.8
99259NAK	66MM	65.91	66.09	19.80
99260NAK	2.625 INCH	66.6	66.75	12.7
99261NAK	2.621 INCH	66.49	66.65	19.8
99262NAK	2.625 INCH	66.68	66.83	19.8
99264NAK	2.625 INCH	66.57	66.73	19.8
99266NAK	68MM	67.81	68	19.10
99267NAK	2.750 INCH	69.77	69.93	36.5

WEAR PRO -- SHAFT REPAIR KIT

PART#	SHAFT	MIN SHAFT	MAX SHAFT	LENGTH
99268NAK	2.730 INCH	69.27	69.42	19.8
99269NAK	70MM	69.77	69.95	28.60
99270NAK	2.75 INCH	69.77	69.93	19.8
99272NAK	2.750 INCH	69.85	70	10.3
99273NAK	2.743 INCH	69.6	69.75	19.8
99274NAK	2.748 INCH	69.72	69.88	19.8
99275NAK	2.750 INCH	69.85	70	19.8
99276NAK	70MM	69.92	70.08	20.00
99281NAK	2.813 INCH	71.35	71.5	15.1
99282NAK	2.841 INCH	72.09	72.24	12.7
99284NAK	72MM	71.83	72.01	19.10
99286NAK	2.869 INCH	72.8	72.95	19.8
99287NAK	2.875 INCH	72.97	73.13	19.8
99289NAK	75MM	74.93	75.09	15.10
99290NAK	2.938 INCH	74.6	74.75	12.7
99291NAK	2.993 INCH	75.95	76.1	12.3
99292NAK	2.974 INCH	75.49	75.59	20.6
99293NAK	2.938 INCH	74.6	74.75	19.8
99294NAK	75MM	74.93	75.09	22.00
99296NAK	3.000 INCH	76.12	76.28	20.6
99298NAK	2.993 INCH	75.95	76.1	14.3
99299NAK	2.993 INCH	75.95	76.1	20.6
99300NAK	3.000 INCH	76.2	76.35	20.6
99301NAK	3.011 INCH	76.4	76.56	12.7
99303NAK	3 INCH	76.2	76.35	15.9
99306NAK	78MM	77.83	78	19.10
99307NAK	3.125 INCH	79.35	79.55	14
99311NAK	3.125 INCH	79.25	79.4	17.5
99312NAK	3.125 INCH	79.25	79.4	20.6
99313NAK	80MM	79.81	79.98	19.10
99315NAK	80MM	79.9	80.08	21.00
99317NAK	80MM	79.9	80.08	11.00
99322NAK	3.250 INCH	82.47	82.63	20.6
99324NAK	3.250 INCH	82.55	82.7	15.1
99325NAK	3.250 INCH	82.55	82.7	20.6

WEAR PRO -- SHAFT REPAIR KIT

PART#	SHAFT	MIN SHAFT	MAX SHAFT	LENGTH
99326NAK	3.250 INCH	82.55	82.7	17.5
99328NAK	82MM	81.92	82.09	16.80
99331NAK	3.310 INCH	84	84.15	20.6
99332NAK	3.342 INCH	84.76	85.01	17
99333NAK	85MM	84.76	85.02	21.00
99334NAK	85MM	84.78	85	10.10
99337NAK	3.375 INCH	85.67	85.83	20.6
99338NAK	3.375 INCH	85.67	85.83	0.375
99339NAK	3.438 INCH	87.25	87.41	19.8
99340NAK	3.480 INCH	88.31	88.47	19.8
99346NAK	3.500 INCH	88.82	88.98	15.9
99347NAK	3.503 INCH	88.9	89.06	8
99349NAK	3.504 INCH	88.92	89.08	15.9
99350NAK	3.500 INCH	88.9	89.06	20.6
99351NAK	90MM	89.9	90.07	18.00
99352NAK	90MM	89.92	90.09	13.70
99353NAK	90MM	89.9	90.07	13.40
99354NAK	90MM	89.9	90.07	23.00
99356NAK	3.563 INCH	90.42	90.58	20.6
99359NAK	3.730 INCH	94.66	94.82	11.9
99360NAK	92MM	91.9	92.08	20.70
99362NAK	3.625 INCH	92.02	92.18	20.6
99363NAK	3.625 INCH	92.02	92.18	12.7
99364NAK	3.743 INCH	95	95.15	11.9
99365NAK	3.688 INCH	93.6	93.76	20.6
99366NAK	3.730 INCH	94.66	94.82	19.8
99367NAK	3.750 INCH	95.25	95.41	8.7
99368NAK	3.688 INCH	93.57	93.73	8
99369NAK	95MM	94.92	95.08	12.00
99372NAK	3.753 INCH	95.25	95.41	17.5
99374NAK	95MM	95	95.17	8.70
99376NAK	3.750 INCH	95.15	95.3	14.3
99386NAK	3.875 INCH	98.24	98.4	20.65
99387NAK	3.875 INCH	98.37	98.43	20.6
99393NAK	3.938 INCH	99.95	100.11	20.6

WEAR PRO -- SHAFT REPAIR KIT

PART#	SHAFT	MIN SHAFT	MAX SHAFT	LENGTH
99395NAK	4.000 INCH	101.55	101.75	15.2
99399NAK	4.000 INCH	101.55	101.75	20.6
99400NAK	4.000 INCH	101.55	101.75	16.5
99401NAK	4.000 INCH	101.55	101.75	12.7
99409NAK	104MM	103.89	104.09	20.00
99412NAK	4.125 INCH	104.7	104.9	20.6
99413NAK	105MM	104.9	105.11	20.00
99418NAK	4.187 INCH	106.25	106.45	20.6
99423NAK	4.230 INCH	107.34	107.54	19.8
99424NAK	4.250 INCH	107.9	108.1	20.6
99434NAK	110MM	109.78	109.98	11.40
99435NAK	110MM	109.91	110.11	12.90
99437NAK	4.375 INCH	111	111.2	20.6
99438NAK	112MM	111.79	111.99	19.10
99439NAK	4.438 INCH	112.63	112.83	25.4
99450NAK	4.500 INCH	114.2	114.4	20.6
99452NAK	115MM	114.88	115.09	20.70
99463NAK	4.625 INCH	117.38	117.58	25.4
99465NAK	4.625 INCH	117.38	117.58	11.1
99468NAK	4.688 INCH	119	119.2	20.6
99471NAK	120MM	119.89	120.09	8.00
99472NAK	122MM	121.89	122.1	20.00
99473NAK	120MM	119.89	120.09	20.00
99475NAK	4.750 INCH	120.55	120.75	12.7
99484NAK	4.843 inch	122.91	123.11	20
99487NAK	4.875 inch	123.73	123.93	15.9
99490NAK	125MM	124.89	125.1	10.00
99491NAK	5.125 INCH	129.97	130.18	22
99492NAK	125MM	124.89	125.1	26.00
99494NAK	130MM	129.79	130.02	19.10
99498NAK	5.000 INCH	126.95	127.15	17.5
99499NAK	5.000 INCH	126.95	127.15	20.6
99501NAK	5.000 INCH	126.95	127.15	13.7
99513NAK	5.125 INCH	130.05	130.25	20.6
99525NAK	5.250 INCH	133.25	133.45	20.6

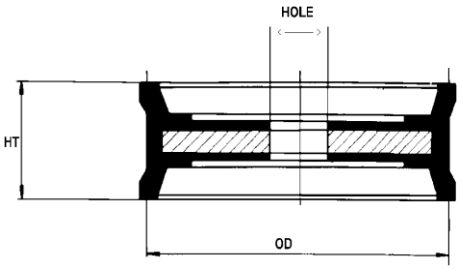
WEAR PRO -- SHAFT REPAIR KIT

PART#	SHAFT	MIN SHAFT	MAX SHAFT	LENGTH
99533NAK	135MM	134.8	135.03	20.50
99537NAK	5.375 INCH	136.43	136.63	20.6
99547NAK	5.476 INCH	138.99	139.19	14.3
99548NAK	5.438 INCH	138.03	138.23	38.1
99549NAK	5.500 INCH	139.65	139.85	20.6
99550NAK	5.500 INCH	139.65	139.85	13.2
99552NAK	140MM	139.9	140.13	20.50
99560NAK	5.625 INCH	142.77	142.98	22.23
99562NAK	5.730 INCH	145.44	145.64	14.3
99571NAK	145MM	144.75	144.98	19.10
99575NAK	5.750 INCH	145.95	146.15	20.6
99587NAK	5.875 INCH	149.13	149.33	25.4
99595NAK	150MM	149.76	149.99	26.00
99596NAK	5.938 INCH	150.73	150.93	25.4
99599NAK	6.000 INCH	152.27	152.47	25.4
99601NAK	6 INCH	152.27	152.47	12.7
99605NAK	154MM	153.87	154.13	26.00
99606NAK	155MM	154.74	154.99	26.00
99620NAK	6.203 INCH	157.43	157.69	20.6
99625NAK	6.250 INCH	158.62	158.88	26.2
99630NAK	160MM	159.74	159.99	25.40
99640NAK	170MM	169.75	170	31.80
99650NAK	6.500 INCH	164.97	165.23	25.4
99675NAK	6.750 INCH	171.32	171.58	20.6
99687NAK	175MM	174.75	175.01	28.00
99700NAK	7.000 INCH	177.67	177.93	25.4
99721NAK	180MM	179.76	180.04	33.00
99725NAK	7.250 INCH	183.99	184.25	31.8
99726NAK	185MM	184.73	185.01	32.00
99745NAK	7.449 INCH	189.08	189.33	20.6
99750NAK	7.500 INCH	190.37	190.63	20.6
99775NAK	7.750 INCH	196.72	196.98	25.4
99787NAK	7.875 INCH	199.87	200.13	34.5
99799NAK	7.938 INCH	201.5	201.75	25.4
99800NAK	8.000 INCH	203.07	203.33	25.4

PNEUMATIC SECTION ----- GOLD PAGES

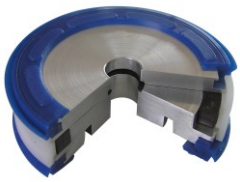
PRODUCT	GOLD PAGE#
Cushion Seal --- PB	37
Cushion Seal --- PC	38
Piston --- Complete	2 - 3
Piston / Rod --- U Seal --- Imperial	30-36
Piston / Rod --- U Seal --- Metric	15-29
Piston Cups --- Nitrile Rubber	4 - 5
Piston seal --- DZ	7
Piston Seal --- DZG	8
Piston Seal --- DZL	9
Piston Seal --- PZ / PSD	6
Rod Seal / Wiper --- Hat seal	13
Rod Seal / Wiper --- KP/KPT/KPS	10 - 11
Rod Seal / Wiper --- NS	14
Rod Seal / Wiper --- PDU	12
Seal Kits --- CKD (Aftermarket)	39
Seal Kits --- FESTO (Aftermarket)	39
Seal Kits --- NORGREN (Aftermarket)	40
Seal Kits --- PARKER (Aftermarket)	41
Seal Kits --- SMC (Aftermarket)	41

DAP - DAPS









RUBBER COVERED STEEL PISTON

(BUILT IN BEARING SUPPORT)

DAPS

0.5 M/S

60 BAR

SPRING REINFORCED LIPS

DAP

1.0 M/S

10 BAR

DAPM

1.0 M/S

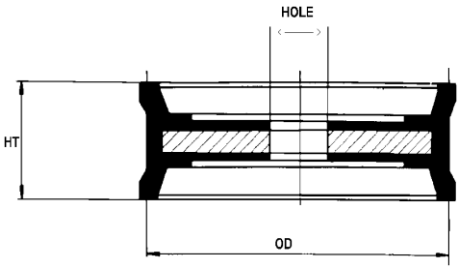
10 BAR

ENCLOSED MAGNET

PART #	OD	HOLE	HT	
DAP010	10	3	5	NITRILE
DAP012	12	4.5	6	NITRILE
DAP016	16	4.5	6.5	NITRILE
DAP020	20	5.2	8	NITRILE
DAPSA020	20	6	5.5	NITRILE
DAP020/1	20	6	7.5	NITRILE
DAP025/1	25	7	8.8	NITRILE
DAP025	25	8	12	NITRILE
DAPS025	25	8	22	NITRILE
DAPS026	26	8	22	NITRILE
DAPS030	30	8	22	NITRILE
DAP032/1	32	8	11	NITRILE
DAP032V	32	8	15	VITON
DAP032	32	8	15	NITRILE
DAPS032	32	8	25	NITRILE
DAPM032V	32	8.1	14	VITON
DAPM032	32	8.1	14.5	URETHANE
DAP035	35	8	15	NITRILE
DAPS035	35	8	18	NITRILE
DAPS035/1	35	8	26	NITRILE
DAP036	36	8	15	NITRILE
DAPS038	38	8	25	NITRILE
DAP040	40	10	18	NITRILE
DAPS040	40	10	25	NITRILE
DAPS040/1	40	14	23	NITRILE
DAP040/1	40	8	11.8	NITRILE
DAPM040	40	8.1	15.4	URETHANE
DAPS045	45	10	25	NITRILE
DAPS046	46	10	25	NITRILE
DAP050/2	50	10	14	NITRILE

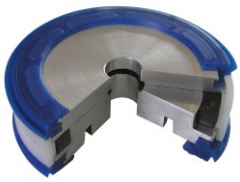
PART #	OD	HOLE	HT	
DAP050	50	10	18	NITRILE
DAP050V	50	10	18	VITON
DAPS050	50	10	25	NITRILE
DAPM050	50	10.1	16	URETHANE
DAPM050/1	50	15.5	12	NITRILE
DAP050/1	50	16	20.5	NITRILE
DAPS050/1	50	16	23	NITRILE
DAPS055	55	10	25	NITRILE
DAP060	60	12	22	NITRILE
DAPS060	60	12	26	NITRILE
DAPS060/2	60	18	26	NITRILE
DAPS060/1	60	21	26	NITRILE
DAP062	62	15	22	NITRILE
DAPS062	62	41	30	NITRILE
DAPM063	63	10.1	19.3	URETHANE
DAP063/1	63	12	14	NITRILE
DAP063	63	12	22	NITRILE
DAPS063	63	12	25	NITRILE
DAP063/3	63	6	22	NITRILE
DAPS065	65	12	25	NITRILE
DAP070	70	12	22	NITRILE
DAPS070	70	12	30	NITRILE
DAP075	75	12	22.5	NITRILE
DAPS075	75	12	30	NITRILE
DAP075/1	75	15	22	NITRILE
DAPS080	80	12	30	NITRILE
DAPM080	80	12.1	22	URETHANE
DAPSA080	80	15	20	NITRILE
DAP080/2	80	16	16	NITRILE
DAP080/1	80	16	22.5	NITRILE
DAP080	80	16	25	NITRILE
DAP080V	80	16	25	VITON

DAP - DAPS









RUBBER COVERED STEEL PISTON
(BUILT IN BEARING SUPPORT)

DAPS

0.5 M/S
60 BAR

SPRING REINFORCED LIPS

DAP

1.0 M/S
10 BAR

DAPM

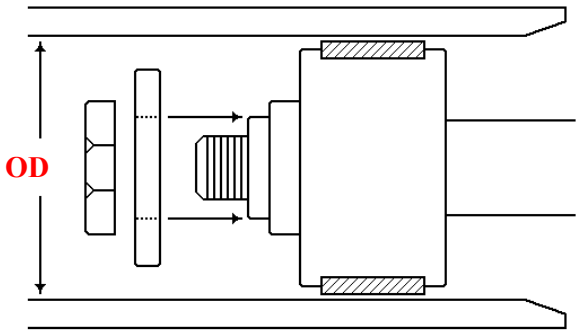
1.0 M/S
10 BAR
ENCLOSED MAGNET

PART #	OD	HOLE	HT	
DAPS082	82	12.2	30	NITRILE
DAPS085	85	12	35	NITRILE
DAPS090	90	12	35	NITRILE
DAP090	90	16	25	NITRILE
DAP095	95.3	22.2	12.7	NITRILE
DAPS100	100	12	35	NITRILE
DAP100V	100	16	25	VITON
DAP100	100	16	25	NITRILE
DAPM100	100	17.1	26	URETHANE
DAP100/1	100	20	18	NITRILE
DAP102	102	16	25	NITRILE
DAPS110	110	12	40	NITRILE
DAP110	110	18	25	NITRILE
DAPS120	120	20	40	NITRILE
DAP125/1	125	20	26	NITRILE
DAP125	125	20	30	NITRILE
DAPS125	125	20	40	NITRILE
DAPS125/1	125	30	40	NITRILE
DAPS125/2	125	30	50	NITRILE
DAPS130	130	20	40	NITRILE
DAP140	140	20	30	NITRILE
DAPS140	140	20	40	NITRILE
DAPS140-V	140	40	20	VITON
DAPS145	145	20	45	NITRILE
DAPS145/1	145	41	45	NITRILE
DAP150	150	20	30	NITRILE
DAPS150	150	20	40	NITRILE
DAPS160	160	20	40	NITRILE
DAP160	160	27	31	NITRILE
DAP160/3	160	30	20	NUTRILE

PART #	OD	HOLE	HT	
DAPS175	175	20	40	NITRILE
DAPS180	180	20	40	NITRILE
DAP180	180	27	31	NITRILE
DAP190	190	20	30	NITRILE
DAP200/2	200	20	35	NITRILE
DAPS200	200	20	40	NITRILE
DAP200	200	27	35	NITRILE
DAP250	250	30	35	NITRILE
DAPS250	250	30	40	NITRILE
DAP253	253	44.5	41.3	NITRILE
DAPS300	300	40	60	NITRILE
DAP320	320	36	40	NITRILE
DAP400	400	40	50	NITRILE

NITRILE RUBBER CUP

PISTON SEAL





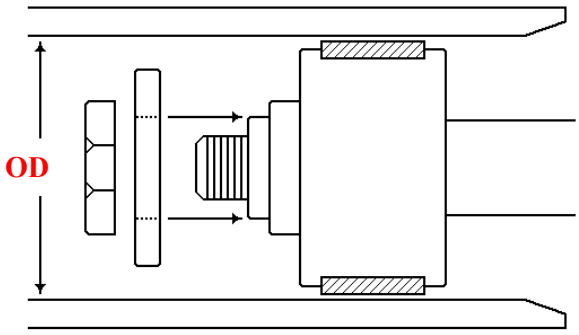
AIR / LOW PRESSURE HYDRAULIC

PART #	OD	HOLE	SEAL LENGTH
NC025	0.25	0.62	0.125
NC031	0.312	0.125	0.125
NC037	0.375	0.187	0.125
NC043	0.437	0.156	0.25
NC050	0.5	0.25	0.187
NC056	0.562	0.187	0.187
NC062	0.625		0.375
NC068	0.687	0.25	0.25
NC075	0.75		0.312
NC081	0.812	0.312	0.25
NC087/1	0.875	0.375	0.25
NC087	0.875		0.375
NC093	0.937	0.437	0.25
NC100/1	1	0.437	0.25
NC100	1		0.156
NC106	1.062	0.25	0.25
NC112	1.125		0.25
NC118	1.187	0.437	0.312
NC125	1.25		0.437
NC125/2	1.25	0.375	0.375
NC131	1.312	0.625	0.25
NC137	1.375		0.437
NC137/1	1.375		
NC143	1.437	0.375	0.375
NC150	1.5		0.5
NC150/1	1.5	0.625	0.375
NC156	1.562	0.75	0.25

PART #	OD	HOLE	SEAL LENGTH
NC162	1.625		0.5
NC162/1	1.625	0.5	0.375
NC168	1.687	0.625	0.375
NC175	1.75		0.5
NC181	1.812	0.875	0.401
NC187	1.875		0.5
NC193	1.937	0.75	0.312
NC200	2		0.437
NC200/1	2	0.875	0.375
NC200V	2	1.062	0.375
NC212	2.125	0.875	0.375
NC225	2.25		0.5
NC237/1	2.375		0.5
NC237	2.375	0.75	0.375
NC250	2.5		0.5
NC262	2.625		0.5
NC262/1	2.625	0.875	0.375
NC275	2.75		0.5
NC275/1	2.75	0.5	0.5
NC287	2.875	1	0.5
NC287/2	2.875		
NC300	3		0.5
NC300/1	3	0.625	0.156
NC312	3.125		0.625
NC325	3.25		0.625
NC337	3.375		0.625
NC350	3.5		0.625
NC350/1	3.5	2.187	0.5

NITRILE RUBBER CUP

PISTON SEAL





AIR / LOW PRESSURE HYDRAULIC

PART #	OD	HOLE	SEAL LENGTH
NC362	3.625		0.625
NC375	3.75		0.625
NC387	3.875		0.625
NC400	4		0.75
NC400/1	4	0.75	0.5
NC400/2	4		0.625
NC418	4.187		0.625
NC425	4.25	1.187	0.625
NC437	4.375		0.625
NC450	4.5		0.625
NC462	4.625		0.75
NC475	4.75	2.375	0.625
NC500	5		0.75
NC512	5.125		0.75
NC525	5.25	3.75	0.5
NC537	5.375		0.75
NC550	5.5		0.75
NC562	5.625		0.625
NC575	5.75	4.25	0.625
NC600/3	6		
NC600	6		0.75
NC600/1	6	4.5	0.375
NC625	6.25	0.875	0.625
NC650	6.5		0.75
NC675	6.75	5	0.625
NC700	7		0.75
NC725	7.25	5.25	0.625

PART #	OD	HOLE	SEAL LENGTH
NC750	7.5	5.5	0.625
NC775	7.75	6	0.625
NC800	8		1
NC800/1	8	5	0.5
NC800/3	8	1	0.187
NC825	8.25		1
NC850	8.5		0.75
NC875	8.75	4.5	0.25
NC900	9		1
NC950	9.5		1
NCC10000	10		1
NCC10250	10.25		1
NCC11500	11.5		1
NCC12000	12		1
NCC12500	12.5	10	0.625
NCC13000	13	10	0.625
NCC14500	14.5	11.5	0.75
NCC15000	15	12	0.75
NCC17750	17.75		0.75
NCC18000	18		0.75
NCM100	100	51	11.5

PZ / PSD

PNEUMATIC PISTON SEAL





DOUBLE ACTING

NITRILE RUBBER

12 BAR

STRETCH FIT OVER PISTON

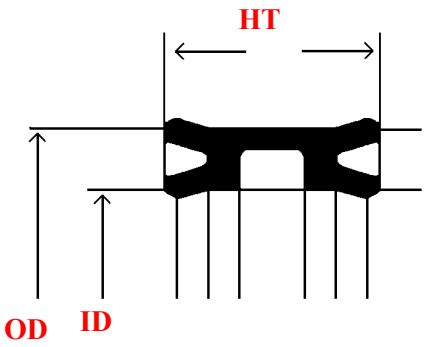
PART#	OD	ID	SEAL WIDTH	GROOVE WIDTH	
PZ010/1	10	5.4	1.7	1.8	
PZ012	12	7	2	2.5	
PZ012/1	12	7.4	1.7	1.8	
PZ014	14	8	2.1	2.5	
PZ015	15	10.4	1.5	1.8	
PZ016	16	9	2.1	2.5	
PZ016/1	16	11.4	1.7	1.8	
PZ018	18	13.4	1.7	1.8	
PZ020	20	13	2.1	2.5	
PZ020/1	20	14	2.2	2.4	
PZ025/1	25	17	3	3.2	
PZ025	25	18	2.1	2.5	
PZ025.4	25.4	13	2.35		
PZ027	27	19	3	3.2	
PZ028	28	19	2.5	3	
PZ030/2	30	17.9	2.1		
PZ030	30	21	2.5	3	
PZ030/1	30	22	3	3.2	
PZ032H	32	22	2.3		
PZ032	32	23	2.5	3	
PZ032/1	32	24	3	3.2	SMC
PZ035	32	26	2.5	3	
PZ036	36	28	3	3.2	
PZ040/2	40	13	5.5		
PZ040	40	31	2.5	3	
PZ040/1	40	32	3	3.2	SMC
PZ045	45	36	2.5	3	
PZ050/1-EPR	50	40	3.8		
PZ050/1	50	40	3.8	4	SMC
PZ050	50	41	2.5	3	

TYPICAL PROFILES

PART#	OD	ID	SEAL WIDTH	GROOVE WIDTH	
PZ056	56	46	3.8		
PZ060/1	60	44	3.4	4	
PZ060	60	50	3.8	4	
PZ063	63	51	3.4	4	
PZ063/1	63	53	3.8	4	SMC
PZ070	70	55	5.6	6	
PZ070/1	70	58	3.4	4	
PZ080/1	80	65	5.6	6	SMC
PZ080	80	68	3.4	4	
PZ090	90	75	5.6	6	
PZ095	95	80	5.6	6	
PZ100/1	100	85	5.7	6	SMC
PZ100	100	88	3.4	4	
PZ120	120	105	5.6	6	
PZ125	125	110	4.4	5	
PZ125/1	125	110	5.7	6	SMC
PZ130	130	115	5.6	6	
PZ135	135	120	5.6	6	
PZ140	140	125	5.6	6	
PZ150	150	135	5.7	6	
PZ160	160	140	7.6	8	
PZ160/1	160	145	5.7		
PZ180	180	160	7.6	8	
PZ200	200	180	7.6	8	
PZ250	250	230	7.6	8	

DZ

PNEUMATIC PISTON SEAL





TYPICAL PICTURE

NITRILE RUBBER

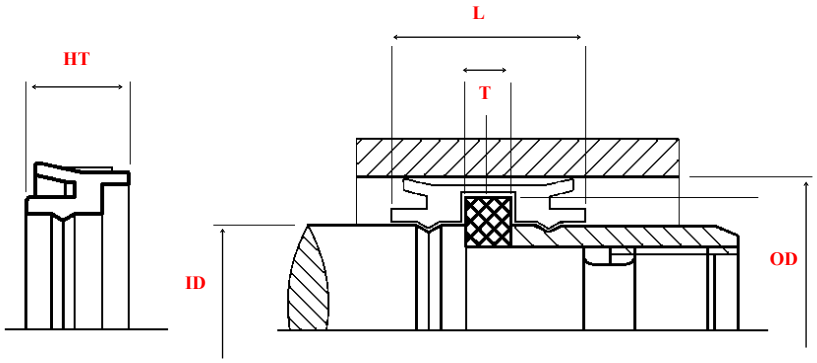
STRETCH FIT OVER PISTON

16 BAR -30 to +80 C 1m/s

PART #	OD	ID	HT
DZ020			
DZ025	25	18	12
DZ028	28	22	10.5
DZ032	32	25	12
DZ035	35	28	12
DZ040	40	33	12
DZ045	45	38	12
DZ050	50	43	12
DZ054	54	46	13
DZ063/1	63	53	17
DZ063	63	56	12
DZ070	70	62	13
DZ080	80	70	18
DZ100	100	88	21
DZ125	125	113	21

DZG

PNEUMATIC PISTON SEAL





SINGLE / DOUBLE ACTING
POLYURETHANE SEAL

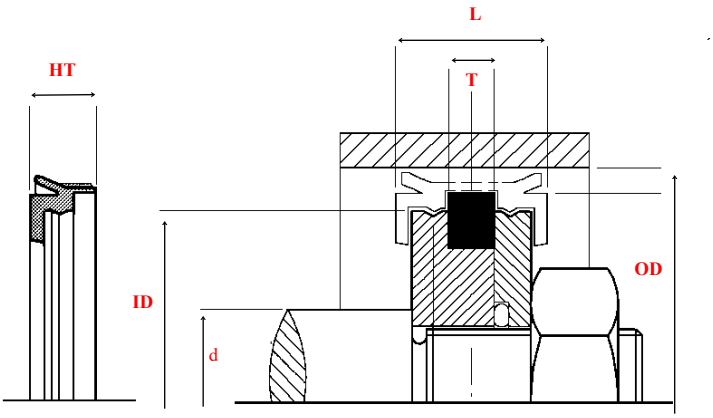
140 PSI
< 1 m/s

INTEGRAL BEARING ELEMENT
MAGNET GROOVE BETWEEN TWO OPPOSED SEALS

PART #	OD	ID	HT	T	L
DZG008	8	4	6	4	12
DZG010	10	4	6	3	12
DZG012	12	6	6	3	12
DZG016	16	8	6	3	12
DZG020	20	10	6	3	12
DZG025	25	10	6	3	12

DZL

PNEUMATIC PISTON SEAL





SINGLE / DOUBLE ACTING
POLYURETHANE SEAL

140 PSI
< 1 m/s

INTEGRAL BEARING ELEMENT
MAGNET GROOVE BETWEEN
TWO OPPOSED SEALS

PART #	OD	ID	HT	T	L
DZL032	32	26	7	5	14
DZL040	40	34	7.3	5	14.5
DZL050	50	43	7.3	5	14.5
DZL063	63	55	10	5	20
DZL080	80	72	11	5	22
DZL100	100	90	13	5	26

KP / KPT / KPS

PNEUMATIC

COMBINED ROD SEAL / WIPER



KP

URETHANE



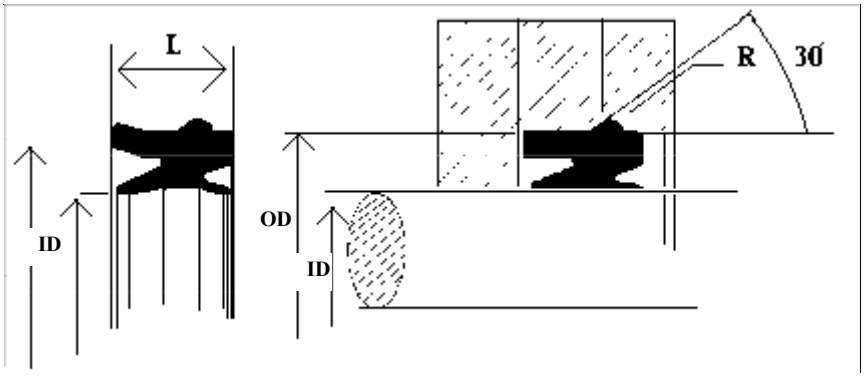
KPT

NITRILE / ACETAL



KPS

NITRILE ENCASED METAL



KPS --IS RETAINED WITH A METAL RING

PART #	ID	OD	L	
KPS010	10	17	7	
KPS012/1V	12	20	6	
KP012/1K	12	20	10.4	
KP012/1E	12	20	10.7	
KP012/1	12	20	10.7	
KPS012	12	22	7	
KPS012V	12	22	7	
KPT012	12	22	10.4	
KPT012/1	12	22	10.4	
KP012K	12	22	10.4	
KP012/2	12	22	10.7	NOR/FES
KP012/2HPU	12	22	10.7	
KP012/2E	12	22	10.7	
KPS014	14	24	7	
KPT014	14	24	10.4	
KPT014/1	14	24	10.4	
KPS016V	16	26	7	
KPS016	16	26	7	
KP016K	16	26	10.4	
KPT016/1	16	26	10.4	
KPT016	16	26	10.4	
KP016V	16	26	10.7	
KPS018	18	26	6	
KP018	18	26	10.7	
KP018/1	18	28	10.7	
KPT018/1	18	28	11	
KPT018	18	28	11	
KPS020	20	30	7	
KPS020V	20	30	7	

PART #	ID	OD	L	
KPT020V	20	30	10.4	
KPT020/1	20	30	10.4	
KP020K	20	30	10.4	
KPT020	20	30	10.4	
KP020/1	20	30	10.7	NOR/FES
KPS022	22	32	7	
KPT022	22	32	11	
KP022	22	32	11.2	
KPS025V	25	35	7	
KPS025	25	35	7	
KP025K	25	35	10.4	
KPT025/1	25	35	11	
KP025/1	25	35	11.2	NOR/FES
KPT025PTFE	25	35	11.4	
KPT025	25	35	11.4	
KPT025/1PTFE	25	35	11.5	
KPS030V	30	40	7	
KPS030	30	40	7	
KP030K	30	40	11.2	
KP030/1	30	40	11.2	
KPT030	30	40	11.4	
KPS032V	32	42	7	
KPS032	32	42	7	NOR
KP032V	32	42	10.4	
KP032K	32	42	10.4	
KPT032/1	32	42	10.5	
KP032/1	32	42	11.2	
KPT032	32	42	11.4	FES
KPT032PTFE	32	42	11.4	
KP03244	32	44		

KP / KPT / KPS

PNEUMATIC

COMBINED ROD SEAL / WIPER



KP

URETHANE



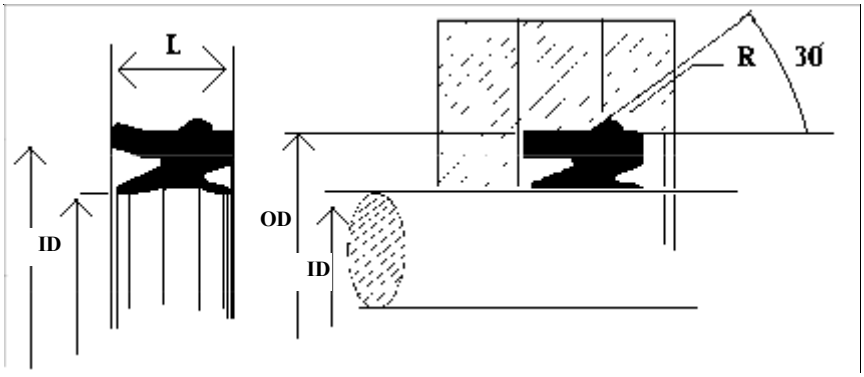
KPT

NITRILE / ACETAL



KPS

NITRILE ENCASED METAL



KPS --IS RETAINED WITH A METAL RING

PART #	ID	OD	L	
KPT035/2	35			
KPS035	35	45	7	
KPT035	35	45	11.5	
KPT035/1PTFE	35	45	11.5	
KPS040	40	50	7	NOR
KPS040V	40	50	7	
KPT040/1	40	50	10.4	
KPT040	40	50	10.4	FES
KP040K	40	50	10.4	
KP040/1	40	50	11.2	
KPS045	45	55	7.3	
KP045K	45	55	10.4	
KPT045	45	55	11.5	
KP045/1	45	55	12.2	
KPS050	50	60	7	
KP050K	50	60	10.4	
KPT050	50	60	11.5	
KPT050/1	50	60	11.5	
KP050/1	50	60	12.2	
KPT063	63	75	13	

PART #	ID	OD	L

PDU

COMBINED GLAND WIPER SEAL

SOLD AS REPLACMENT PART

PNEUMATIC /
LOW PRESSURE
HYDRAULIC

NITRILE RUBBER

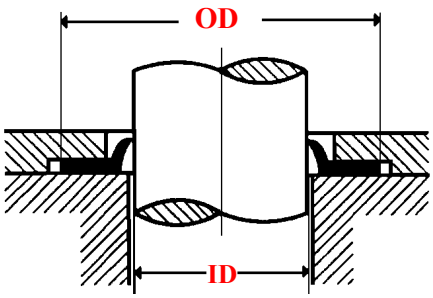
DESIGN DETAILS AVAILABLE ON REQUEST



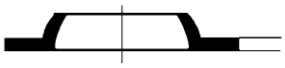
PART#	SHAFT	OD	NOMINAL SEAL HT	
FWM003PDU	3	8.8	4.5	
FWM004/2PD	4	7	2.7	
FWM004PDU	4	8.2	3	
FWM004/1PD	4	8.8	4.5	
FWM005PDU	5	8	2.7	
FWM006/1PD	6	9	2.7	
FWM006/3PD	6	9.2	3	
FWM006/2PD	6	10.8	4.5	
FWM006PDU	6	11.2	4	
FWM008/1PD	8	11.5	3	
FWM008/4PD	8	12	4	
FWM008/2PD	8	12.8	4.5	
FWM008PDU	8	14	4.5	
FWM008/3PD	8	14.2	4	
FWM010PDU	10	13.6	4	
FWM010/1PD	10	14	3.2	
FWM010/4PD	10	16.2	4.5	
FWM010/2PD	10	16.8	4.5	
FWM010/3PD	10	18	5	
FWM012/5PD	12	15.6	3.3	
FWM012PDU	12	15.6	4	
FWM012/6PD	12	16	4	SMC
FWM012/1PD	12	16.5	4	
FWM012VPDU	12	17	3.8	
FWM012/2PD	12	18	4	
FWM012/3PD	12	20	5	
FWM012/4PD	12	22	6	
FWM014/2PD	14	18	4	
FWM014PDU	14	18.5	3.7	
FWM014/1PD	14	24	6	
FWM015/1PD	15	21	5.5	
FWM015PDU	15	23.6	7.2	
FWM016/1PD	16	20.5	4	
FWM016/2PD	16	22	4	

PART#	SHAFT	OD	NOMINAL SEAL HT	
FWM016PDU	16	24	6	SMC
FWM016/3PD	16	26	6	
FWM018/1PD	18	28	6	
FWM020/1PD	20	25	4	
FWM020/2PD	20	26	4	
FWM020PDU	20	28	6	SMC
FWM020/3PD	20	30	7	
FWM022PDU	22	27	4	
FWM022/1PD	22	28	4	
FWM022/2PD	22	32	7	
FWM025/1PD	25	30	4	
FWM025/2PD	25	31	4	
FWM025PDU	25	33	6	SMC
FWM025/3PD	25	35	7	
FWM028PDU	28	38	7	
FWM030/1PD	30	35.5	4.5	
FWM030/2PD	30	40	7	SMC
FWM030/3PD	30	40	7	
FWM030PDU	30	40	7.5	
FWM032PDU	32	37.5	4.5	
FWM032/2PD	32	42	7	
FWM032/1PD	32	42	7	SMC
FWM035PDU	35	45	7	
FWM035/1PD	35	45	7	
FWM036PDU	36	46	7	
FWM040/1PD	40	50	7	
FWM040PDU	40	50	7	
FWM045PDU	45	55	7	
FWM050PDU	50	62	8.5	

HAT SEAL / WIPER







NITRILE RUBBER

OIL CONTROL RING -- DUST COVER

PNEUMATIC ROD SEAL

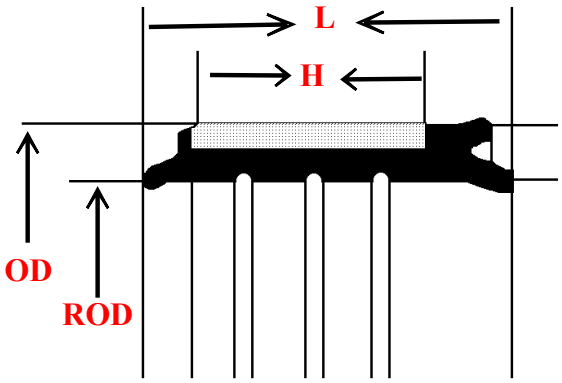
MAX 500 PSI

PART#	ID	OD	T	
FWI012HAT	0.312	0.125	0.031	
FWI018HAT	0.437	0.187	0.062	
FWI025HAT	0.625	0.25	0.094	
FWI031HAT	0.75	0.312	0.062	
FWI037HAT	0.875	0.375	0.062	
FWI043HAT	0.937	0.437	0.125	
FWI050HAT	1	0.5	0.125	
FWI062/1WO	1.025	0.625	0.065	NOR
FWI056HAT	1.093	0.562	0.125	
FWI075/1WO	1.118	0.75	0.114	NOR
FWI062HAT	1.375	0.625	0.125	
FWI081HAT	1.375	0.812	0.125	
FWI075HAT	1.5	0.75	0.125	
FWI068HAT	1.625	0.687	0.187	
FWI100/1WO	1.625	1	0.106	NOR
FWI087HAT	1.75	0.875	0.156	
FWI100HAT	1.75	1	0.125	
FWI093HAT	1.781	0.937	0.187	
FWI112HAT	2	1.125	0.125	
FWI150/1WO	2	1.5	0.2	NOR
FWI137HAT	2.187	1.375	0.125	
FWI162HAT	2.5	1.625	0.125	

PART#	ID	OD	T
FWI150HAT	2.75	1.5	0.125
FWI175HAT	2.75	1.75	0.187
FWI200HAT	2.75	2	0.125
FWI187HAT	2.875	1.875	0.125
FWI125HAT	2.935	1.25	0.2
FWI212HAT	3	2.125	0.125
FWI250HAT	3.125	2.5	0.125
FWI225HAT	3.25	2.25	0.125
FWI237HAT	3.562	2.375	0.125
FWI275HAT	3.75	2.75	0.125
FWI287HAT	3.875	2.875	0.125
FWI262HAT	4	2.625	0.093
FWI300HAT	4.5	3	0.187

PNEUMATIC

ROD SEAL / WIPER AND GUIDANCE SYSTEM







PRESS FIT ALUMINUM HOUSING

URETHANE SEAL / WIPER / BEARING

16 BAR **-35 to +80 c** **1 M / S**

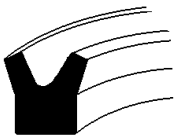
	PART #	ROD	OD	H	L
	NS008	8	15	17.5	15
	NS010	10	17	20.5	18
	NS011	11	19	20	17
	NS012	12	19	22.5	19.5
	NS014	14	21	23.5	20.5
	NS016	16	25	25.5	21.5
O	NS018	18	27	28.5	23.5
O	NS020	20	29	30.5	26.5
O	NS022	22	31	30.5	26.5
O	NS025	25	35	35.5	31.5
	NS030	30	41	41	37
	NS032	32	43	41	37
	NS040	40	51	43	39

O STOCK ITEM -- ALL OTHER CURRENTLY INDENT

PNEUMATIC / LOW PRESSURE HYDRAULIC

NITRILE RUBBER

METRIC



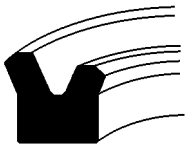
UM

PISTON OR ROD



DE

PISTON ONLY



DI

ROD ONLY

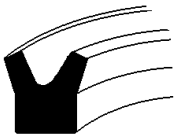
PART #	ID	OD	SEAL HEIGHT
UM002004.5017DI	2	4.5	1.7
UM002005.5026DI	2	5.5	2.6
UM00200703.5DI	2	7	3.5
UM002.5005017DI	2.5	5	1.7
UM00300602DE	3	6	2
UM00300602.2DI	3	6	2.2
UM00300602.5DI	3	6	2.5
UM003006.5022DI	3	6.5	2.2
UM003006.503DI	3	6.5	3
UM00300703DI	3	7	3
UM00300705	3	7	5
UM00300803.5	3	8	3.5
UM00300804.5	3	8	4.5
UM00301006	3	10	6
UM00400702	4	7	2
UM004007.503	4	7	3
UM004007.502DE	4	7.5	2
UM00400802.55DE	4	8	2.55
UM00400803DE	4	8	3
UM00400803.5DE	4	8	3.5
UM00400903.5DE	4	9	3.5
UM00400903.5DI	4	9	3.5
UM00401004	4	10	4
UM00401004.2DI	4	10	4.2
UM00401005	4	10	5
UM00401006	4	10	6
UM00401204	4	12	4
UM00401205.5	4	12	5.5
UM004.5012504DE	4.5	12.5	4
UM004.8008022DE	4.8	8	2.2
UM004.8008023DE	4.8	8	2.3
UM004.8008025DE	4.8	8	2.5
UM00500802	5	8	2
UM00500902.5DI	5	9	2.5

PART #	ID	OD	SEAL HEIGHT
UM00501004DI	5	10	4
UM00501004	5	10	4
UM00501005	5	10	5
UM00501105	5	11	5
UM00501107	5	11	7
UM00501204	5	12	4
UM00501204.5DI	5	12	4.5
UM00501205	5	12	5
UM00501304	5	13	4
UM00501404.5	5	14	4.5
UM00501505	5	15	5
UM00600902	6	9	2
UM00601002.55DE	6	10	2.55
UM00601003	6	10	3
UM00601003DI	6	10	3
UM00601204DE	6	12	4
UM00601204DI	6	12	4
UM00601204	6	12	4
UM00601204.2DI	6	12	4.2
UM00601205	6	12	5
UM00601206	6	12	6
UM00601207	6	12	7
UM00601305DI	6	13	5
UM00601305.5	6	13	5.5
UM00601404	6	14	4
UM00601405.8DI	6	14	5.8
UM00601406DE	6	14	6
UM00601408DE	6	14	8
UM00601505	6	15	5
UM00601605	6	16	5
UM00601605DI	6	16	5
UM00601606	6	16	6
UM00601610DE	6	16	10
UM00601706	6	17	6
UM00601808	6	18	8
UM00602008	6	20	8
UM006.1011.22.8	6.1	11.2	2.8

PNEUMATIC / LOW PRESSURE HYDRAULIC

NITRILE RUBBER

METRIC



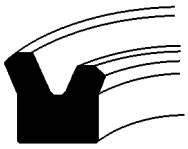
UM

PISTON OR ROD



DE

PISTON ONLY



DI

ROD ONLY

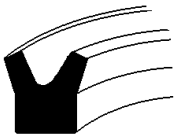
PART #	ID	OD	SEAL HEIGHT
UM00701002	7	10	2
UM00701103.5	7	11	3.5
UM00701202.55DE	7	12	2.55
UM00701204	7	12	4
UM007012.503.5	7	12.5	3.5
UM00701407	7	14	7
UM00701504	7	15	4
UM00701505	7	15	5
UM00701507	7	15	7
UM007.94012.703	7.9	12.7	3.5
UM00801204	8	12	4
UM00801205	8	12	5
UM00801205DE	8	12	5
UM00801302.55DE	8	13	2.55
UM00801307	8	13	7
UM008013.2031DI	8	13.2	3.1
UM00801402.55DE	8	14	2.55
UM00801404DI	8	14	4
UM00801404	8	14	4
UM00801406	8	14	6
UM008014.203.5	8	14.2	3.5
UM00801502.5	8	15	2.5
UM00801505.2	8	15	5.2
UM00801506	8	15	6
UM00801508	8	15	8
UM00801603.5	8	16	3.5
UMS081604	8	16	4
UM00801604	8	16	4
UM00801605.5DE	8	16	5.5
UM00801605.5DI	8	16	5.5
UM00801806	8	16	6
UM00801606	8	16	6
UM00801608	8	16	8
UM00801706	8	17	6
UM00801805	8	18	5
UM00801808	8	18	8

PART #	ID	OD	SEAL HEIGHT
UM00802006	8	20	6
UM00802008	8	20	8
UM00802506	8	25	6
UM008.5014303DI	8.5	14.3	3
UM008.6013802DE	8.6	13.8	2
UM00901202	9	12	2
UM00901403.5DI	9	14	3.5
UM00901502.55DE	9	15	2.55
UM00901508DE	9	15	8
UM00901509DI	9	15	9
UM00901604	9	16	4
UM00901605.5DE	9	16	5.5
UM00901607	9	16	7
UM00901705.5	9	17	5.5
UM00901706	9	17	6
UM00901906	9	19	6
UM009.2014022DI	9.2	14	2.2
UM009.501402.5	9.5	14	2.5
UM01001302	10	13	2
UM010013.6023DI	10	13.6	2.3
UM01001402	10	14	2
UM01001402DI	10	14	2
UM01001402.7	10	14	2.7
UM01001403.5	10	14	3.5
UM01001404DI	10	14	4
UM01001503.5DI	10	15	3.5
UM01001504	10	15	4
UM01001602.55DE	10	16	2.55
UM01001602.55P	10	16	2.55
UM01001602.55DI	10	16	2.6
UM01001603DEPU	10	16	3
UM01001604	10	16	4
UM01001604DE	10	16	4
UM01001604.5DI	10	16	4.5
UM01001605	10	16	5

PNEUMATIC / LOW PRESSURE HYDRAULIC

NITRILE RUBBER

METRIC



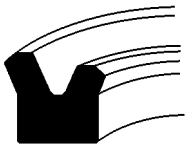
UM

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DE

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DI

ROD ONLY

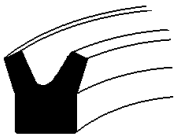
PART #	ID	OD	SEAL HEIGHT
UM01001605.5DE	10	16	5.5
UM01001606	10	16	6
UM01001606DI	10	16	6
UM01001608DE	10	16	8
UM01001804	10	18	4
UMS0101804	10	18	4
UM01001805K	10	18	5
UM01001805	10	18	5
UM01001805.5DI	10	18	5.5
UM01001806	10	18	6
UM01001808	10	18	8
UM01001903.5	10	19	3.5
UM01002003.5	10	20	3.5
UM01002004.5DI	10	20	4.5
UM01002005	10	20	5
UM01002007	10	20	7
UM01002008	10	20	8
UM01002206	10	22	6
UM01002208	10	22	8
UM01002209	10	22	9
UM01002304.5	10	23	4.5
UM01002508	10	25	8
UM01002510	10	25	10
UM01002608	10	26	8
UM01002609.5	10	26	9.5
UM01002810	10	28	10
UM01003010	10	30	10
UM01101502.7	11	15	2.7
UM01101702.55DE	11	17	2.55
UM01101804.5DI	11	18	4.5
UM01201602.7	12	16	2.7
UM01201603DI	12	16	3
UM01201703	12	17	3
UM01201703.7DI	12	17	3.7
UM01201802.55DE	12	18	2.55
UM01201802.55DI	12	18	2.6
UM01201803	12	18	3

PART #	ID	OD	SEAL HEIGHT
UM01201804	12	18	4
UM012018.5045DI	12	18	4.5
UM01201805	12	18	5
UM01201806	12	18	6
UM01201904.5DI	12	19	4.5
UM01202004	12	20	4
UM01202005	12	20	5
UM01202005.5	12	20	5.5
UM01202005.5DE	12	20	5.5
UM01202005.5DI	12	20	5.5
UM01202006.8	12	20	6.8
UM01202008	12	20	8
UM01202205	12	22	5
UM01202206	12	22	6
UM01202208	12	22	8
UM01202406	12	24	6
UM01202407	12	24	7
UM01202410	12	24	10
UM01202508	12	25	8
UM01202610	12	26	10
UM01202810	12	28	10
UM01203210	12	32	10
UM01203512	12	35	12
UM012.502003.5	12.5	20	3.5
UM012.502004.5	12.5	20	4.5
UM012.502303.5	12.5	23	3.5
UMS12.72204	12.7	22	4
UM013017.5028DI	13	17.5	2.8
UM01302207DE	13	22	7
UM01302308DI	13	23	8
UM01302508	13	25	8
UM01303010	13	30	10
UM01401802.7	14	18	2.7
UM01401903.5DI	14	19	3.5
UM01402002.55DE	14	20	2.55
UM01402002.7DE	14	20	2.7

PNEUMATIC / LOW PRESSURE HYDRAULIC

NITRILE RUBBER

METRIC



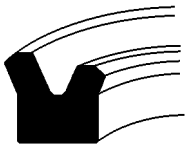
UM

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PISTON ONLY



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ROD ONLY

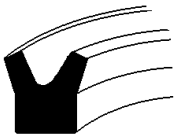
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UM01402004	14	20	4
UM01402004.8DI	14	20	4.8
UM01402005	14	20	5
UM01402005.5DE	14	20	5.5
UM01402006	14	20	6
UM01402204	14	22	4
UM01402205	14	22	5
UM01402205.5DI	14	22	5.5
UM01402208	14	22	8
UM01402212	14	22	12
UM01402405	14	24	5
UM01402406	14	24	6
UM01402408	14	24	8
UM01402503.5	14	25	3.5
UM01402807	14	28	7
UM01402810	14	28	10
UM01403208	14	32	8
UM01403210	14	32	14
UM01502003	15	20	3
UM01502103.5	15	21	3.5
UM01502204	15	22	4
UM01502205	15	22	5
UM01502205DI	15	22	5
UM01502205.5	15	22	5.5
UM01502208	15	22	8
UM01502305	15	23	5
UM01502306DI	15	23	6
UM01502505	15	25	5
UM01502506	15	25	6
UM01502508	15	25	8
UM01502510	15	25	10
UM01502706	15	27	6
UM01502808	15	28	8
UM01502810	15	28	10
UM01503006	15	30	6
UM01503007.5	15	30	7.5
UM01503008	15	30	8

PART #	ID	OD	SEAL HEIGHT
UM01503010	15	30	10
UM01503510	15	35	10
UM01602002.7	16	20	2.7
UM016020.505DI	16	20.5	5
UM016021.5032DI	16	21	3.2
UM01602202.55DE	16	22	2.55
UM01602202.55DI	16	22	2.6
UM01602203	16	22	3
UM01602203.2DI	16	22	3.2
UM01602204	16	22	4
UM01602204DI	16	22	4
UM01602205	16	22	5
UM01602205DI	16	22	5
UM01602205.5DE	16	22	5.5
UM01602206	16	22	6
UM01602210	16	22	10
UM016022.54.5DI	16	22.5	4.5
UM01602305.5DI	16	23	5.5
UM01602404	16	24	4
UM01602405	16	24	5
UM01602405.5DE	16	24	5.5
UM01602405.5DI	16	24	5.5
UM01602405.7DI	16	24	5.7
UM01602406	16	24	6
UM01602406.5DI	16	24	6.5
UM01602505	16	25	5
UM01602605	16	26	5
UM01602606	16	26	6
UM01602607DI	16	26	7
UM01602608	16	26	8
UM01602806	16	28	6
UM01602809DE	16	28	9
UM01602906	16	29	6
UM01603208	16	32	8
UM01603210	16	32	10
UM01603610	16	36	10
UM01702402.55DI	17	25	2.55

PNEUMATIC / LOW PRESSURE HYDRAULIC

NITRILE RUBBER

METRIC



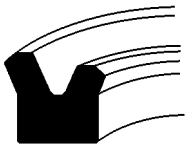
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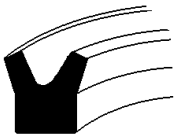
PART #	ID	OD	SEAL HEIGHT
UM01702504	17	25	4
UM01702505	17	25	5
UM01702505.5DE	17	25	5.5
UM01703210	17	32	10
UM01703810	17	38	10
UM01802203	18	22	3
UM01802203DI	18	22	3
UM01802402.55DE	18	24	2.7
UM01802404	18	24	4
UM01802404.5DI	18	24	4.5
UM01802405DI	18	24	5
UM01802408	18	24	8
UM018024.504.5	18	24.5	4.5
UM01802504	18	25	4
UM01802504.5DI	18	25	4.5
UM01802505	18	25	5
UM01802505.5DI	18	25	5.5
UM01802604	18	26	4
UM01802605	18	26	5
UM01802605.5DI	18	26	5.5
UM01802605.5DE	18	26	5.5
UM01802607DE	18	26	7
UM01802805	18	28	5
UM01802806	18	28	6
UM01802807DE	18	28	7
UM01802807DI	18	28	7
UM01802808	18	28	8
UM01803006	18	30	6
UM01803007.5	18	30	7.5
UM01803008.5	18	30	8.5
UM01803207	18	32	7
UM01803010	18	32	10
UM01803408	18	34	8
UM01803810	18	37	10
UM01804010	18	40	10
UM02002402.7	19	24	2.7
UM01902503DE	19	25	3

PART #	ID	OD	SEAL HEIGHT
UM01902503.25DE	19	25	3.25
UM01902503.35DE	19	25	3.35
UM01902504DEP	19	25	4
UM01902506	19	25	6
UM01902704	19	27	4
UM02002503	20	25	3
UM02002503.5	20	25	3.5
UM02002603.5DI	20	26	3.5
UM02002604.8DI	20	26	4.8
UM02002705	20	27	5
UM02002706	20	27	6
UM02002804	20	28	4
UM02002805	20	28	5
UM02002805.5DI	20	28	5.5
UM02002805.7DI	20	28	5.7
UM02002806	20	28	6
UM02002808	20	28	8
UM02003004	20	30	4
UM02003005	20	30	5
UM02203005.5DI	20	30	5.5
UM02003006	20	30	6
UM02003007DE	20	30	7
UM02003007DI	20	30	7
UM02003007.5DI	20	30	7.5
UM02003008	20	30	8
UM02003008DI	20	30	8
UM02003010DI	20	30	10
UM02003010	20	30	10
UM02003205	20	32	5
UM02003206	20	32	6
UM02003207.5DI	20	32	7.5
UM02003211	20	32	11
UM02003507.7	20	35	7.5
UM02003510	20	35	10
UM02003605	20	36	5
UM02003608	20	36	8
UM02003610	20	36	10

PNEUMATIC / LOW PRESSURE HYDRAULIC

NITRILE RUBBER

METRIC



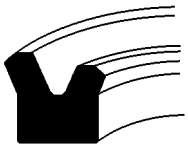
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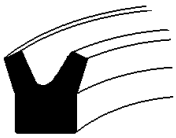
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UM02004010	20	40	10	
UM02004012	20	40	12	
UM02004312	20	43	12	
UM02102502.7	21	25	2.7	
UM02202603.2	22	26	2.7	
UM02202803.25DE	22	28	3.25	
UM02202805	22	28	5	
UM02203003.25DE	22	30	3.25	
UM02203004	22	30	4	
UM02203005	22	30	4	
UM02203006	22	30	6	
UM02203007DI	22	30	7	
UM02203008DI	22	30	8	
UM02203010	22	30	10	
UM02203205	22	32	5	
UM02203206	22	32	6	
UM02203207	22	32	7	
UM02203208	22	32	8	
UM02203406	22	34	6	
UM02203410	22	34	10	
UM02203507	22	35	7	
UM02203810	22	38	10	
UM02204010	22	40	10	
UM02204210	22	42	10	
UM02204612	22	46	12	
UM022.403005	22.4	30	5	
UM02303105.5DI	23	31	5.5	
UM02303506	23	35	6	
UM023.5031.505	23.5	31.5	5	
UM02403004	24	30	4	
UM02403005	24	30	5	
UM02403203.25DE	24	32	3.25	NOR/FES
UM0240320325DEV	24	32	3.25	
UM02403204	24	32	4	
UM02403205.5DE	24	32	5.5	

PART #	ID	OD	SEAL HEIGHT
UM02403205.5DI	24	32	5.5
UM02403405	24	34	4
UM02403606	24	36	6
UM02404008	24	40	8
UM025031.3042DI	25	31.3	4.2
UM02503204	25	32	4
UM02503205	25	32	5
UM02503205.5DI	25	32	5.5
UM02503207	25	32	7
UM02503304	25	33	4
UM02503305	25	33	5
UM02503305.5DI	25	33	5.5
UM02503305.7DI	25	33	5.7
UM02503307	25	33	7
UM02503505	25	35	5
UM02503506DI	25	35	6
UM02503507	25	35	7
UM02503507DI	25	35	7
UM02503508	25	35	8
UM02503510DI	25	35	10
UM02503606.9	25	36	6.9
UM02503706	25	37	6
UM02503706DI	25	37	6
UM02503707	25	37	7
UM02503708.5DI	25	37	8.5
UM02503807	25	38	7
UM02503809	25	38	9
UM02503809.5	25	38	9.5
UM02503810	25	38	10
UM02504006	25	40	6
UM02504007.5	25	40	7.5
UM02504010	25	40	10
UM02504208	25	42	8
UM02504510	25	45	10
UM02504707	25	47	7
UM02505012	25	50	12
UM02603404	26	34	4

PNEUMATIC / LOW PRESSURE HYDRAULIC

NITRILE RUBBER

METRIC



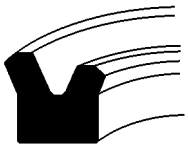
UM

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DI

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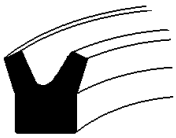
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UM02603605	26	36	5
UM02603607DI	26	36	7
UM02603806	26	38	6
UM02604208	26	42	8
UM02604610	26	46	10
UM02703503.25DE	27	35	3.25
UM02703504	27	35	4
UM02703510DE	27	35	10
UM02703606	27	36	6
UM02703806	27	38	6
UM028034.3047DI	28	34.3	4.7
UM02803506	28	35	6
UM02803507DI	28	35	7
UM028035.505	28	35.5	5
UM02803603.25DE	28	36	3.25
UM02803604	28	36	4
UM02803605	28	36	5
UM02803605.5DI	28	36	5.5
UM02803606	28	36	6
UM02803607DE	28	36	7
UM02803608DI	28	36	8
UM02803807DE	28	37	7
UM02803805	28	38	5
UM02803807DI	28	38	7
UM02803808DI	28	38	8
UM02803810	28	38	10
UM02803810DI	28	38	10
UM02804006	28	40	6
UM02804009DE	28	40	9
UM02804010	28	40	10
UM02804310	28	43	10
UM02804408	28	44	8
UM02804808.5	28	48	8.5
UM02804810	28	48	10
UM02804812	28	48	12
UM02805210	28	52	10

PART #	ID	OD	SEAL HEIGHT
UM02903704.3	29	37	4.3
UM03003603	30	36	3
UM03003706	30	37	6
UM03003807V	30	37	7
UM03003708	30	37	8
UM03003803	30	38	3
UM03003803.25DE	30	38	3.25
UM03003804	30	38	4
UM03003805.5	30	38	5.5
UM03003805.5DI	30	38	5.5
UM03003806.3DI	30	38	6.3
UM03003808DI	30	38	8
UM03003810	30	38	10
UM03004005	30	40	5
UM03004006	30	40	6
UM03004006.5DE	30	40	6.5
UM03004007	30	40	7
UM03004007DE	30	40	7
UM03004007DEV	30	40	7
UM03004008	30	40	8
UM03004008DI	30	40	8
UM03004009	30	40	9
UM03004010	30	40	10
UM03004206DE	30	42	6
UM03004210	30	42	10
UM03004210DE	30	42	10
UM03004507.5	30	45	7.5
UM03004510	30	45	10
UM03004710	30	47	10
UM03005010	30	50	10
UM03005012	30	50	12
UM03005512	30	55	12
UM03006015	30	60	15
UM031037.7041DI	31	37.7	4.1
UM031.5041.506	31.5	41.5	6
UM03203905DE	32	39	5

PNEUMATIC / LOW PRESSURE HYDRAULIC

NITRILE RUBBER

METRIC



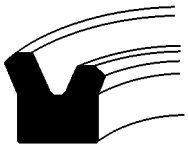
UM

PISTON OR ROD



DE

PISTON ONLY



DI

ROD ONLY

PART #	ID	OD	SEAL HEIGHT
UM03204003.25DE	32	40	3.25
UM03204004	32	40	4
UM03204005	32	40	5
UM03204005.5DE	32	40	5.5
UM03204005.5DI	32	40	5.5
UM03204005.7	32	40	5.7
UM03204007	32	40	7
UM03204008	32	40	8
UM03204205	32	42	5
UM03204206	32	42	6
UM03204207DI	32	42	7
UM03204208	32	42	8
UM03204406	32	44	6
UM03204510	32	45	10
UM03204710	32	47	10
UM03204808	32	48	8
UM03204808DI	32	48	8
UM03205012	32	50	12
UM03205210	32	52	10
UM03304005.5DI	33	40	5.5
UM03304207.3	33	42	7.3
UM03304306	33	43	6
UM03304506	33	45	6
UM03404203.25DE	34	42	3.25
UM03404406	34	44	6
UM03504306	35	43	6
UM03504308DI	35	43	8
UM03504309DE	35	43	9
UM03504505	35	45	5
UM03504506DI	35	45	6
UM03504506	35	45	6
UM03504507DI	35	45	7
UM03504508DI	35	45	8
UM03504510	35	45	10
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UM03505007.5	35	50	7.5

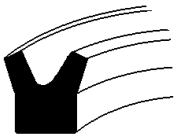
NOR

PART #	ID	OD	SEAL HEIGHT
UM03505010	35	50	10
UM03505212	35	52	12
UM03505510	35	55	10
UM03505512	35	55	12
UM03506012	35	60	12
UM035.504506	35.5	45	6
UM035.5045.506	35.5	45.5	6
UM03604605	36	46	5
UM03604607DI	36	46	7
UM03604608DI	36	46	8
UM03604610DI	36	46	10
UM03604806	36	48	6
UM03604810	36	48	10
UM03605007DE	36	50	7
UM03605008	36	50	8
UM03605107.1	36	51	7.1
UM03605110	36	51	10
UM03704503.25DE	37	45	3.25
UM03704505.5	37	45	5.5
UM03704507DE	37	45	7
UM03704706	37	47	6
UM03804506	38	45	6
UM03804506DE	38	45	6
UM03804805	38	48	5
UM03805006	38	50	6
UM03805010	38	50	10
UM03805310	38	53	10
UM03805510	38	55	10
UM03805810	38	58	10
UM04004805.4DI	40	48	5.4
UM04004808DI	40	48	8
UM04004808	40	48	8
UM04004811	40	48	11
UM04005005	40	50	5
UM04005005DE	40	50	5

PNEUMATIC / LOW PRESSURE HYDRAULIC

NITRILE RUBBER

METRIC



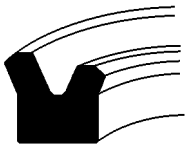
UM

PISTON OR ROD



DE

PISTON ONLY



DI

ROD ONLY

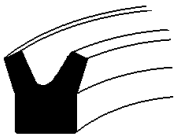
PART #	ID	OD	SEAL HEIGHT	
UM04005006	40	50	6	
UM04005007DI	40	50	7	
UM04005007DEP	40	50	7	
UM04005007	40	50	7	
UM04005007DE	40	50	7	FES
UM04005008DI	40	50	8	
UM04005009	40	50	9	
UM04005010	40	50	10	
UM04005206	40	52	6	
UM04005507.5	40	55	7.5	
UM04005510	40	55	10	
UM04005608	40	56	8	
UM04005610	40	56	10	
UM04006010	40	60	10	
UM04006012	40	60	12	
UM04006510	40	65	10	
UM04006512	40	65	12	
UM04006515	40	65	15	
UM04205003.25DE	42	50	3.25	NOR
UM04205005	42	50	5	
UM04205006	42	50	6	
UM04205008	42	50	8	
UM04205010DE	42	50	10	
UM04205111	42	51	11	
UM04205205	42	52	5	
UM04205210	42	52	10	
UM04205508	42	55	8	
UM04205708	42	57	8	
UM04205710	42	57	10	
UM04206212	42	62	12	
UM04305506	43	55	6	
UM04306310	43	63	10	
UM04306415	43	64	15	
UM04405709	44	57	9	
UM04406012DE	44	60	12	
UM04505307	45	53	7	

PART #	ID	OD	SEAL HEIGHT
UM04505308	45	53	8
UM04505505	45	55	5
UM04505506	45	55	6
UM04505507DE	45	55	7
UM04505507DI	45	55	7
UM04505510	45	55	10
UM04505607	45	56	7
UM04505706	45	57	6
UM04505810	45	58	10
UM04506007DI	45	60	7
UM04506007.5	45	60	7.5
UM04506010	45	60	10
UM04506112DI	45	61	12
UM04506310	45	63	10
UM04506312	45	63	12
UM04506510	45	65	10
UM04506512	45	65	12
UM04507012	45	70	12
UM04605605	46	56	5
UM04605607DE	46	56	7
UM04605806	46	58	6
UM04607012	46	70	12
UM046.3063.1DE	46.3	63.1	7.8
UM04706008	47	60	8
UM04706008DE	47	60	8
UM04706512	47	65	12
UM04805804.25DE	48	58	4.25
UM04805806.5	48	58	6.5
UM04806006	48	60	6
UM04806310	48	63	10
UM04806312	48	63	12
UM04806810	48	68	10
UM04806812	48	68	12
UM05005710	50	57	10
UM05006004	50	60	4

PNEUMATIC / LOW PRESSURE HYDRAULIC

NITRILE RUBBER

METRIC



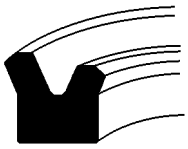
UM

PISTON OR ROD



DE

PISTON ONLY



DI

ROD ONLY

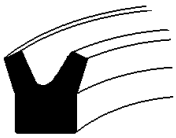
PART #	ID	OD	SEAL HEIGHT	
UM05006005	50	60	5	
UM05006006	50	60	6	
UM05006006DI	50	60	6	
UM05006007	50	60	7	
UM05006007DE	50	60	7	
UM05006007DI	50	60	7	
UM05006007.3DE	50	60	7.3	
UM05006008	50	60	8	
UM05006010	50	60	10	
UM05006012	50	60	12	
UM05006206	50	62	6	
UM05006209	50	62	9	
UM05006210DI	50	62	10	
UM05006306	50	63	6	
UM05006308	50	63	8	
UM05006309	50	63	9	
UM05006507.5	50	65	7.5	
UM05006510	50	65	10	
UM05006512	50	65	12	
UM05006812	50	68	12	
UM05007008	50	70	8	
UM05007010	50	70	10	
UM05007012	50	70	12	
UM05007014DE	50	70	14	
UM05007016DE	50	70	16	
UM05007512	50	75	12	
UM05008015	50	80	15	
UM05106306	51	63	6	
UM05206206	52	62	6	
UM05206207DE	52	62	7	
UM05206210DI	52	62	10	
UM05206212	52	62	12	
UM05206909DI	52	69	9	
UM05306304.25DE	53	63	4.25	NOR
UM05306305	53	63	5	
UM05306306	53	63	6	

PART #	ID	OD	SEAL HEIGHT	
UM05306307DE	53	63	7	FES
UM05306307.5	53	63	7.5	
UM05306310	53	63	10	
UM05306312	53	63	12	
UM05306405	53	64	5	
UM05306506	53	65	6	
UM05406407DI	54	64	7	
UM05407008	54	70	8	
UM05506407.3DI	55	64	7.3	
UM05506505	55	65	5	
UM05506506	55	65	6	
UM05506507DE	55	65	7	
UM05506507.3DI	55	65	7.3	
UM05506510DI	55	65	10	
UM05506512	55	65	12	
UM05507007.5	55	70	7.5	
UM05507010	55	70	10	
UM05507012	55	70	12	
UM05507510	55	75	10	
UM05507512	55	75	12	
UM05508012	55	80	12	
UM05508015	55	80	15	
UM05508515	55	85	15	
UM05606605	56	66	5	
UM05606606	56	66	6	
UM05606610	56	66	10	
UM05606807DI	56	68	7	
UM05606808.5DI	56	68	8.5	
UM05607012	56	70	12	
UM05607110	56	71	10	
UM05607612	56	76	12	
UM05608015	56	80	15	
UM05806804.7DE	58	68	4.7	
UM05806806	58	68	6	
UM05807006	58	70	6	
UM05807008.5DE	58	78	8.5	

PNEUMATIC / LOW PRESSURE HYDRAULIC

NITRILE RUBBER

METRIC



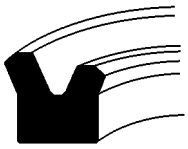
UM

PISTON OR ROD



DE

PISTON ONLY



DI

ROD ONLY

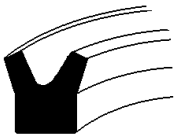
PART #	ID	OD	SEAL HEIGHT
UM05807812	58	78	12
UM05908014	59	80	14
UM06007005	60	70	5
UM06007006	60	70	6
UM06007007	60	70	7
UM06007007DE	60	70	7
UM06007008.5DI	60	70	8.5
UM06007010DE	60	70	10
UM06007010DI	60	70	10
UM06007012	60	70	12
UM06007013	60	70	12
UM06007107	60	71	7
UM06007408DI	60	74	8
UM06007507.5	60	75	7.5
UM06007208.5DI	60	75	8.5
UM06007512DI	60	75	12
UM06007512	60	75	12
UM06008010	60	80	10
UM06008012	60	80	12
UM06008012.5	60	80	12.5
UM06008016	60	80	16
UM06009015	60	90	15
UM06010020	60	100	20
UM06107106	61	71	6
UM06108012	61	80	12
UM06207008DE	62	70	8
UM06207206	62	72	6
UM06208612	62	86	12
UM06307206	63	72	6
UM06307305	63	73	5
UM06307306.5DI	63	73	6.5
UM06307508.5DE	63	75	8.5
UM06307508.5DI	63	75	8.5
UM06307808	63	78	8
UM06308312	63	83	12

PART #	ID	OD	SEAL HEIGHT	
UM06408008DE	64	80	8	
UM06408012	64	80	12	
UM06507505	65	75	5	
UM06507506	65	75	6	
UM06507507.3	65	75	7.3	
UM06507510	65	75	10	
UM06507512	65	75	12	
UM06507708.5DI	65	77	8.5	
UM06508007.5	65	80	7.5	
UM06508009.58DE	65	80	9.58	
UM06508010	65	80	10	
UM06508012	65	80	12	
UM06508510	65	85	10	
UM06508512	65	85	12	
UM06509008	65	90	8	
UM06509012	65	90	12	
UM06509013	65	90	13	
UM06509015	65	90	15	
UM06509512	65	95	12	
UM06607706	66	77	6	
UM06707706	67	77	6	
UM067.3080063DE	67.3	80	6.3	
UM06807806	68	78	6	
UM06808008.5DE	68	80	8.5	FES
UM06808008.5DI	68	80	8.5	
UM06808012	68	80	12	
UM068.8080806DE	68.8	80.8	6	
UM07008004.25DE	70	80	4.25	NOR
UM07008005	70	80	5	
UM07008006	70	80	6	
UM07008007	70	80	7	
UM07008007DE	70	80	7	
UM07008012	70	80	12	
UM07008208.5DI	70	82	8.5	
UM07008507.5	70	85	7.5	

PNEUMATIC / LOW PRESSURE HYDRAULIC

NITRILE RUBBER

METRIC



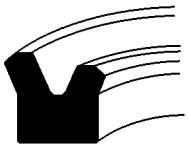
UM

PISTON OR ROD



DE

PISTON ONLY



DI

ROD ONLY

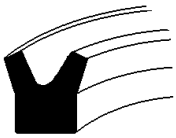
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UM07008508	70	85	8
UM07008510DI	70	85	10
UM07008512	70	85	12
UM07009010	70	90	10
UM07009012	70	90	12
UM07010015	70	100	15
UM07108006	71	80	6
UM071.9083075DE	71.9	83	7.5
UM07208010	72	80	10
UM07208012DE	72	80	12
UM07208205	72	82	5
UM07208406	72	84	6
UM07208408	72	84	8
UM07209010	72	90	11
UM07308306	73	83	6
UM07308508.5DE	73	85	8.5
UM07508312	75	83	12
UM07508506	75	85	6
UM07508512	75	85	12
UM07808805	75	88	5
UM07509007.5	75	90	7.5
UM07509012	75	90	12
UM07509510	75	95	10
UM07509512	75	95	12
UM07510012	75	100	12
UM07510015	75	100	15
UM07510515	75	105	15
UM07809008.5DE	78	90	8.5
UM08009005	80	90	5
UM08009006	80	90	6
UM08009006V	80	90	6
UM08009007	80	90	7
UM08009012DI	80	90	12
UM08009207.5DI	80	92	7.5
UM08009208.5DI	80	92	8.5

PART #	ID	OD	SEAL HEIGHT
UM08009209.5DI	80	92	9.5
UM08009507.5	80	95	7.5
UM08009508	80	95	8
UM08009509	80	95	9
UM08009512	80	95	12
UM08010010	80	100	10
UM08010012	80	100	12
UM08010012.5	80	100	12.5
UM08010015	80	100	15
UM08010512	80	105	12
UM08010515	80	105	15
UM08011015	80	110	15
UM08109308.5DE	81	93	8.5
UM08209106.4DI	82	91	6.4
UM08209206	82	92	6
UM08209210	82	92	10
UM08310314	82	103	14
UM08210812	82	108	12
UM08410008DE	84	100	8
UM08410314	84	103	14
UM08509406.7DE	85	94	6.7
UM08509505	85	95	5
UM08509507DI	85	95	7
UM08509509	85	95	9
UM08509512DI	85	95	12
UM08510007.5	85	100	7.5
UM08510009	85	100	9
UM08510009DE	85	100	9
UM08510010DE	85	100	10
UM08510012	85	100	15
UM08510510	85	105	10
UM08510512	85	105	12
UM08510515	85	105	15
UM08511012	85	110	12
UM08511515	85	115	15

PNEUMATIC / LOW PRESSURE HYDRAULIC

NITRILE RUBBER

METRIC



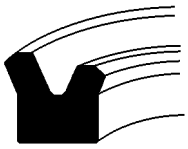
UM

PISTON OR ROD



DE

PISTON ONLY



DI

ROD ONLY

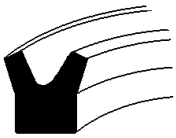
PART #	ID	OD	SEAL HEIGHT	
UM08610516	86	105	16	
UM08810008.5DE	88	100	8.5	FES
UM09010004	90	100	4	
UM09010004.25DE	90	100	4.25	NOR
UM09010005	90	100	5	
UM09010007.2DE	90	100	7.2	
UM09010008	90	100	8	
UM09010012DI	90	100	12	
UM09010208.5DI	90	102	8.5	
UM09010507.5	90	105	7.5	
UM09010509	90	105	9	
UM09011010	90	110	10	
UM09011012	90	110	12	
UM09011015	90	110	15	
UM09011212	90	112	12	
UM09011512	90	115	12	
UM09012015	90	120	15	
UM09310508.5DE	93	105	8.5	
UM09410508DE	94	105	8	
UM09510312	95	103	12	
UM09510512DI	95	105	12	
UM09511007.5	95	110	7.5	
UM09511009	95	110	9	
UM09511010DE	95	110	10	
UM09511510	95	115	10	
UM09511512	95	115	12	
UM09511515	95	115	15	
UM09512012	95	120	12	
UM09512515	95	125	15	
UM09811008.5DE	98	110	8.5	
UM09811208.5	98	112	8.5	
UM10011005	100	110	5	
UM10011014DI	100	110	14	
UM10011208.5DI	100	112	8.5	
UM10011509	100	115	9	

PART #	ID	OD	SEAL HEIGHT	
UM10011510DE	100	115	10	
UM10011510DI	100	115	10	
UM10012010	100	120	10	
UM10012012	100	120	12	
UM10012015	100	120	15	
UM10012512	100	125	12	
UM10012515	100	125	15	
UM10013015	100	130	15	
UM10312514	103	125	14	
UM10512007.5	105	120	7.5	
UM10512010DE	105	120	10	
UM10512012DI	105	120	12	
UM10512508.25DE	105	125	8.25	NOR
UM10512512DE	105	125	12	
UM10512516DE	105	125	16	
UM10513015	105	130	15	
UM10612008.5	106	120	8.5	
UM11012507.5	110	125	7.5	
UM11012510DE	110	125	10	FES
UM11012512	110	125	12	
UM11013012DE	110	130	12	
UM11013014DI	110	130	14	
UM11013512	110	135	12	
UM11014015	110	140	15	
UM11014018	110	140	18	
UM11212509	112	125	9	
UM11512312	115	123	12	
UM11512507.2DE	115	125	7.2	
UM11512512DI	115	125	12	
UM11513007.5	115	130	7.5	
UM11513010	115	130	10	
UM11513515	115	135	15	
UM11514512	115	145	12	
UM11813208.5	118	132	8.5	

PNEUMATIC / LOW PRESSURE HYDRAULIC

NITRILE RUBBER

METRIC



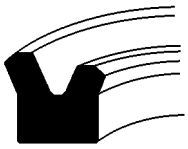
UM

PISTON OR ROD



DE

PISTON ONLY



DI

ROD ONLY

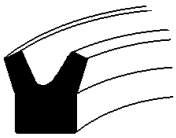
PART #	ID	OD	SEAL HEIGHT	
UM12013509.5DI	120	135	9.5	
UM12014008.25DE	120	140	8.25	
UM12014010	120	140	10	
UM12014014DE	120	140	14	
UM12014014	120	140	14	
UM12014016DE	120	140	16	
UM12015015	120	150	15	
UM12015018	120	150	18	
UM12514514DI	124	145	14	
UM12514007.5	125	140	7.5	
UM12514009	125	140	9	
UM12514010DE	125	140	10	
UM12515018	125	150	18	
UM12515420	125	154	20	
UM12515515	125	155	15	
UM13014510DE	130	145	10	
UM13015010	130	150	10	
UM13015015	130	150	15	
UM13016015	130	160	15	
UM13016018	130	160	18	
UM13214206DI	132	142	6	
UM13514312	135	143	12	
UM13514512DI	135	145	12	
UM13515008	135	150	8	
UM13515008DE	135	150	8	
UM13515010	135	150	10	
UM13515015	135	150	15	
UM13516018	135	160	18	
UM15516512DI	135	165	12	
UM13516515	135	165	15	
UM13615009	136	150	8	
UM14015410	140	154	10	
UM14015509	140	155	9	
UM14016008.25DE	140	160	8.25	NOR
UM14016014DE	140	160	14	

PART #	ID	OD	SEAL HEIGHT	
UM14016014DI	140	160	14	
UM14516008	145	160	8	
UM14516010DE	145	160	10	
UM14516014DE	145	160	14	
UM14516515	145	165	15	
UM14517518	145	175	18	
UM14615808.5DE	146	158	8.5	
UM14817015DE	148	170	15	
UM15016509	150	165	9	
UM15017010	150	170	10	
UM15018015	150	180	15	
UM15018018	150	180	18	
UM15516312	155	163	12	
UM15517009	155	170	9	
UM15517515	155	175	15	
UM16016812	160	168	12	
UM16016913.5	160	169	13.5	
UM16017012DI	160	170	12	
UM16017509	160	175	9	
UM16018009DE	160	180	9	
UM16018010	160	180	10	
UM16018012DE	160	180	12	
UM16018015	160	180	15	
UM16018415DI	160	184	15	
UM16019022	160	190	22	
UM16518009	165	180	9	
UM17018509	170	185	9	
UM17019014DE	170	190	14	
UM17020015	170	200	15	
UM17020022	170	200	22	
UM17519009	175	190	9	
UM17520016DE	175	200	16	
UM18020008.25DE	180	200	8.25	NOR

PNEUMATIC / LOW PRESSURE HYDRAULIC

NITRILE RUBBER

METRIC



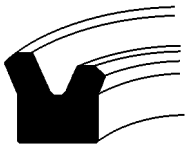
UM

PISTON OR ROD



DE

PISTON ONLY



DI

ROD ONLY

PART #	ID	OD	SEAL HEIGHT
UM18020012	180	200	12
UM18020014DE	180	200	14
UM18021022	180	210	22
UM18519512DI	185	195	12
UM18520009	185	200	9
UM18521520DI	185	215	20
UM19021012	190	210	12
UM19021520	190	215	20
UM19022025	190	220	25
UM19522016	195	220	16
UM20022012	200	220	12
UM20023015	200	230	15
UM20023022	200	230	22
UM20023521DI	200	235	21
UM20422412	204	224	12
UM21023012	210	230	12
UM21522512DI	215	225	12
UM21523007.5	215	230	7.5
UM22024012	220	240	12
UM22025020	220	250	20
UM22025020DI	220	250	20
UM22424412	224	244	12
UM22525018	225	250	18
UM23025012	230	250	12
UM23025014DE	230	250	14
UM23027020	230	270	20
UM24025012DI	240	250	12
UM24026015DI	240	260	15
UM24026016	240	260	16
UM24027018	240	270	18
UM24526512	245	265	12
UM24529025DI	245	290	25

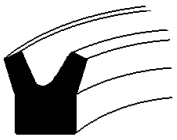
FES

PART #	ID	OD	SEAL HEIGHT
UM25027012	250	270	12
UM25027512	250	275	12
UM27029012	270	290	12
UM27030012DE	270	300	12
UM27030022	270	300	22
UM28030014	280	300	14
UM28031015	280	310	15
UM29030714	290	307	14
UM29033020	290	330	20
UM29531514	295	315	14
UM30032012	300	320	12
UM30032015	300	320	15
UM31033012DE	310	330	12
UM32034012	320	340	12
UM32035015	320	350	15
UM33036020DE	330	360	20
UM33535514	335	355	14
UM36042030	360	420	30
UM37539512	375	395	12
UM39040614	390	406	14
UM40042015	400	420	15
UM45048015	450	480	15

PNEUMATIC / LOW PRESSURE HYDRAULIC

NITRILE RUBBER

IMPERIAL



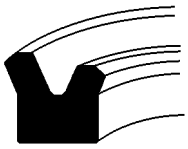
SU_____

PISTON OR ROD



SU_____DE

PISTON ONLY



SU_____DI

ROD ONLY

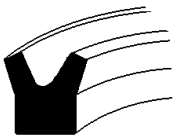
PART #	ID	OD	SEAL HEIGHT	
SU012025062	0.125	0.25	0.062	
SU012025093	0.125	0.25	0.093	
SU012031094	0.125	0.312	0.094	
SU012034156DI	0.125	0.343	0.156	
SU012037125	0.125	0.375	0.125	SU 41
SU012037156DE	0.125	0.375	0.156	
SU012050187	0.125	0.5	0.187	SU 1
SU018031062	0.187	0.312	0.062	
SU018037093	0.187	0.375	0.093	
SU018043125	0.187	0.437	0.125	SU 42
SU018043156DE	0.187	0.437	0.156	
SU018043156DI	0.187	0.437	0.156	
SU018056187	0.187	0.562	0.187	SU 2
SU025037062	0.25	0.375	0.062	
SU025043093	0.25	0.437	0.093	
SU025050125	0.25	0.5	0.125	SU 43
SU025050156DI	0.25	0.5	0.156	
SU025050187DE	0.25	0.5	0.187	
SU025062187	0.25	0.625	0.187	SU 3
SU025075250	0.25	0.75	0.25	SU 8
SU031043062	0.312	0.437	0.062	
SU031050093	0.312	0.5	0.093	
SU031050187	0.312	0.5	0.187	
SU031056125	0.312	0.562	0.125	SU 44
SU031056156DI	0.312	0.562	0.156	
SU031056187DE	0.312	0.562	0.187	
SU031056250	0.312	0.562	0.25	
SU031062156	0.312	0.625	0.156	
SU031062219DE	0.312	0.625	0.219	
SU031068187	0.312	0.687	0.187	SU 4
SU031081250	0.312	0.812	0.25	SU 9
SU037050062	0.375	0.5	0.062	
SU037056093	0.375	0.562	0.093	
SU037062125	0.375	0.625	0.125	SU 45
SU037062125DE	0.375	0.625	0.125	
SU037062156DI	0.375	0.625	0.156	
SU037065156DI	0.375	0.65	0.156	
SU037075187	0.375	0.75	0.187	SU 5

PART #	ID	OD	SEAL HEIGHTT	
SU037075250DE	0.375	0.75	0.25	
SU037087250	0.375	0.875	0.25	SU 10
SU037100312	0.375	1	0.312	
SU043062093	0.437	0.625	0.093	
SU043068125	0.437	0.687	0.125	SU 46
SU043068187	0.437	0.687	0.187	
SU043075156DI	0.437	0.75	0.156	
SU043075187	0.437	0.75	0.187	
SU043081187	0.437	0.812	0.187	SU 6
SU043081187V	0.437	0.812	0.187	SU 6
SU043081250DE	0.437	0.812	0.25	
SU043093250	0.437	0.937	0.25	SU 11
SU047068125DE	0.475	0.687	0.125	
SU050062062	0.5	0.625	0.062	
SU050068093	0.5	0.687	0.093	
SU050075125	0.5	0.75	0.125	SU 47
SU050075125DE	0.5	0.75	0.125	
SU050081156	0.5	0.812	0.156	
SU050081203DI	0.5	0.812	0.203	
SU050081218	0.5	0.812	0.218	
SU050082200DI	0.5	0.828	0.2	
SU050087250DE	0.5	0.87	0.25	
SU050087187	0.5	0.875	0.187	SU 7
SU050100250	0.5	1	0.25	SU 12
SU056075093	0.562	0.75	0.093	
SU056075156	0.562	0.75	0.156	
SU056081156	0.562	0.812	0.156	
SU056081187DI	0.562	0.812	0.187	
SU056081250DE	0.562	0.812	0.25	
SU056093187	0.562	0.937	0.187	
SU056093250DE	0.562	0.937	0.25	
SU056106250	0.562	1.062	0.25	SU 13
SU093162375	0.562	1.625	0.375	
SU131159187DI	0.593	1.312	0.187	
SU062075062	0.625	0.75	0.062	
SU062081093	0.625	0.812	0.093	
SU062087125	0.625	0.875	0.125	
SU062087125V	0.625	0.875	0.125	

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NITRILE RUBBER

IMPERIAL



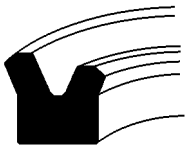
SU_____

PISTON OR ROD



SU_____DE

PISTON ONLY



SU_____DI

ROD ONLY

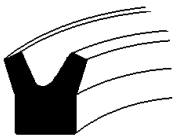
PART #	ID	OD	SEAL HEIGHT	
SU062087125FS	0.625	0.875	0.125	
SU062087125S	0.625	0.875	0.125	
SU062087187DI	0.625	0.875	0.187	
SU062100187	0.625	1	0.187	SU 48
SU062100250	0.625	1	0.25	
SU062100250DE	0.625	1	0.25	
SU062112250	0.625	1.125	0.25	SU 14
SU062112312DE	0.625	1.125	0.312	
SU065081125	0.656	0.812	0.125	
SU068093125	0.687	0.937	0.125	
SU068093187DI	0.687	0.937	0.187	
SU068106250DE	0.687	1.062	0.25	
SU068106281	0.687	1.062	0.281	
SU068112218	0.687	1.125	0.128	
SU068118250	0.687	1.187	0.25	SU 15
SU068118312DE	0.687	1.187	0.312	
SU075093093	0.75	0.937	0.093	
SU075093187	0.75	0.937	0.187	
SU075100125	0.75	1	0.125	
SU075100187	0.75	1	0.187	
SU075100187DI	0.75	1	0.187	
SU075100187-V	0.75	1	0.187	
SU075100250DE	0.75	1	0.25	
SU075106156	0.75	1.062	0.156	
SU075112187	0.75	1.125	0.187	SU 49
SU075112250DE	0.75	1.125	0.25	
SU075118250	0.75	1.187	0.25	
SU075125250	0.75	1.25	0.25	SU 16
SU075125250DE	0.75	1.25	0.25	
SU075125312DE	0.75	1.25	0.312	
SU075125312	0.75	1.25	0.312	
SU075131312	0.75	1.312	0.312	
SU075137312	0.75	1.375	0.312	
SU081106125	0.812	1.062	0.125	
SU081112187DI	0.812	1.125	0.187	
SU081118250DE	0.812	1.187	0.25	
SU081131250	0.812	1.312	0.25	SU 17
SU081131312DE	0.812	1.312	0.312	
SU081143375	0.812	1.437	0.375	

PART #	ID	OD	SEAL HEIGHTT	
SU083150196DI	0.83	1.5	0.196	
SU087100062	0.875	1	0.062	
SU087112125	0.875	1.125	0.125	
SU087125187DI	0.875	1.25	0.187	
SU087125187	0.875	1.25	0.187	SU 50
SU087125250DI	0.875	1.25	0.25	
SU087137250	0.875	1.375	0.25	SU 18
SU087137250DE	0.875	1.375	0.25	
SU087137312DE	0.875	1.375	0.312	
SU087150312	0.875	1.5	0.312	
SU093118125	0.937	1.187	0.125	
SU093125156	0.937	1.25	0.156	
SU093143250	0.937	1.437	0.25	SU 19
SU093143250DI	0.937	1.437	0.25	
SU093143312DE	0.937	1.437	0.312	
SU093156312	0.937	1.562	0.312	
SU100112062	1	1.125	0.062	
SU100118093	1	1.187	0.093	
SU100125125	1	1.25	0.125	
SU100131156	1	1.312	0.156	
SU100137187	1	1.375	0.187	SU 51
SU100143250DE	1	1.437	0.25	
SU100143312DE	1	1.437	0.312	
SU100150125	1	1.5	0.125	
SU100150250	1	1.5	0.25	SU 20
SU100150250DI	1	1.5	0.25	
SU100150312DE	1	1.5	0.312	
SU100162375DE	1	1.625	0.375	
SU100168375	1	1.687	0.375	
SU100175375	1	1.75	0.375	
SU106137156	1.062	1.375	0.156	
SU106143250DI	1.062	1.437	0.25	
SU106156250	1.062	1.562	0.25	SU 21
SU106156250DE	1.062	1.562	0.25	
SU106181375	1.062	1.812	0.375	
SU112137125	1.125	1.375	0.125	
SU112143156	1.125	1.437	0.156	
SU112150187	1.125	1.5	0.187	SU 52
SU112162250	1.125	1.625	0.25	SU 22

PNEUMATIC / LOW PRESSURE HYDRAULIC

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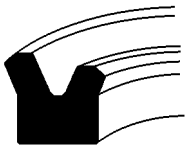
SU_____

PISTON OR ROD



SU_____DE

PISTON ONLY



SU_____DI

ROD ONLY

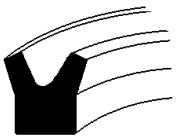
PART #	ID	OD	SEAL HEIGHT	
SU112162312DI	1.125	1.625	0.312	
SU112175375DE	1.125	1.75	0.375	
SU112187375	1.125	1.875	0.375	
SU118150156	1.187	1.5	0.156	
SU118150250DE	1.187	1.5	0.25	
SU118150250DI	1.187	1.5	0.25	
SU118150281DE	1.187	1.5	0.281	
SU118162250DE	1.187	1.625	0.25	
SU118168250	1.187	1.687	0.25	SU 23
SU118168375DE	1.187	1.687	0.375	
SU118193375	1.187	1.937	0.375	
SU125150125	1.25	1.5	0.125	
SU125156156	1.25	1.562	0.156	
SU125162187	1.25	1.625	0.187	SU 53
SU125175250	1.25	1.75	0.25	SU 24
SU125175250DI	1.25	1.75	0.25	
SU125175250V	1.25	1.75	0.25	
SU125187312DE	1.25	1.875	0.312	
SU125187312	1.25	1.875	0.312	SU 25
SU125187312S	1.25	1.875	0.312	
SU125187375DE	1.25	1.875	0.375	
SU125200375	1.25	2	0.375	
SU125200500	1.25	2	0.5	
SU131160180DI	1.312	1.6	0.18	
SU131162156	1.312	1.625	0.156	
SU131206375	1.312	2.062	0.375	
SU137162125	1.375	1.625	0.125	
SU137168156	1.375	1.687	0.156	
SU137168156EPR	1.375	1.687	0.156	
SU137175187	1.375	1.75	0.187	
SU137175274DE	1.375	1.75	0.27	
SU137187250	1.375	1.875	0.25	
SU137193375DE	1.375	1.937	0.375	
SU137200312DI	1.375	2	0.312	
SU137200312V	1.375	2	0.312	SU 26
SU137200312	1.375	2	0.312	SU 26
SU137200375DE	1.375	2	0.375	
SU137212375	1.375	2.125	0.375	
SU140193375DE	1.406	1.937	0.375	

PART #	ID	OD	SEAL HEIGHTT	
SU143175156	1.437	1.75	0.156	
SU143200312DI	1.437	2	0.312	
SU143225312	1.437	2.25	0.312	
SU150175125	1.5	1.75	0.125	
SU150181156	1.5	1.812	0.156	
SU150187187	1.5	1.875	0.187	
SU150200250	1.5	2	0.25	
SU150200375DI	1.5	2	0.375	
SU150212312	1.5	2.125	0.312	SU 27
SU150212375DE	1.5	2.125	0.375	
SU150218250	1.5	2.187	0.25	
SU154200375DE	1.54	2	0.375	
SU156220375DI	1.562	2.203	0.375	
SU156231375	1.562	2.312	0.375	
SU156243375	1.562	2.437	0.375	
SU159200281DE	1.59	2	0.281	
SU162187125	1.625	1.875	0.125	
SU162200187	1.625	2	0.187	
SU162200187DE	1.625	2	0.187	
SU162200219DI	1.625	2	0.219	
SU162200281DE	1.625	2	0.281	
SU162212250DE	1.625	2.125	0.25	
SU162212375DE	1.625	2.125	0.375	
SU162225312	1.625	2.25	0.312	SU 28
SU162225375DE	1.625	2.25	0.375	
SU162237375	1.625	2.375	0.375	
SU168212375DI	1.687	2.125	0.375	
SU168256375	1.687	2.562	0.375	
SU175200125	1.75	2	0.125	
SU175212187	1.75	2.125	0.187	
SU175212250DE	1.75	2.125	0.25	
SU175225250	1.75	2.25	0.25	
SU175225250DE	1.75	2.25	0.25	
SU175225312DE	1.75	2.25	0.312	
SU175225312DI	1.75	2.25	0.312	
SU175237312	1.75	2.375	0.312	SU 29

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NITRILE RUBBER

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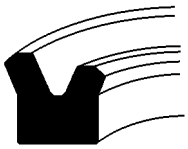
SU_____

PISTON OR ROD



SU_____DE

PISTON ONLY



SU_____DI

ROD ONLY

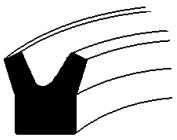
PART #	ID	OD	SEAL HEIGHT	
SU175237375DE	1.75	2.375	0.375	
SU175250437	1.75	2.5	0.437	
SU175262437	1.75	2.625	0.437	
SU180250350DE	1.8	2.5	0.35	
SU181237375DI	1.812	2.375	0.375	
SU181250344DE	1.812	2.5	0.344	
SU181268375	1.812	2.687	0.375	
SU187225187	1.875	2.25	0.187	
SU187237250DE	1.875	2.375	0.25	
SU187250312V	1.875	2.5	0.312	SU 30
SU187250312	1.875	2.5	0.312	SU 30
SU187250375DE	1.875	2.5	0.375	
SU187250375DI	1.875	2.5	0.375	
SU193237218	1.937	2.375	0.218	
SU193275375	1.937	2.75	0.375	
SU193262375DI	1.937	5.625	0.375	
SU196250312DE	1.969	2.5	0.312	
SU200237187	2	2.375	0.187	
SU200237187V	2	2.375	0.187	
SU200250250	2	2.5	0.25	
SU200250250DE	2	2.5	0.25	
SU200250375	2	2.5	0.375	
SU200262312	2	2.625	0.312	SU 31
SU200262344DE	2	2.625	0.344	
SU200262375DE	2	2.625	0.375	
SU200275500DE	2	2.75	0.5	
SU200287375	2	2.875	0.375	
SU200287437DI	2	2.875	0.437	
SU201250406DE	2.01	2.5	0.406	
SU206281375	2.062	2.812	0.375	
SU212250187	2.125	2.5	0.187	
SU212250250DE	2.125	2.5	0.25	
SU212275312	2.125	2.75	0.312	SU 32
SU212275312DE	2.125	2.75	0.312	
SU212275375DE	2.125	2.75	0.375	
SU212275375DI	2.125	2.75	0.375	

PART #	ID	OD	SEAL HEIGHTT	
SU212287500DE	2.125	2.875	0.5	
SU212293375	2.125	2.937	0.375	
SU218300375	2.187	3	0.375	
SU225262187	2.25	2.625	0.187	
SU225262312DE	2.25	2.625	0.312	
SU225275250	2.25	2.75	0.25	
SU225275312DI	2.25	2.75	0.312	
SU225287312	2.25	2.875	0.312	SU 33
SU225300375	2.25	3	0.375	
SU225300500DE	2.25	3	0.5	
SU228300344DE	2.28	3	0.344	
SU229300546DE	2.29	3	0.546	
SU237275187	2.375	2.75	0.187	
SU237300312	2.375	3	0.312	SU 34
SU237300312DI	2.375	3	0.312	
SU237312375	2.375	3.125	0.375	
SU237312500DE	2.375	3.125	0.5	
SU237337500	2.375	3.375	0.5	
SU250277156DI	2.5	2.776	0.156	
SU250287187	2.5	2.875	0.187	
SU250287219DE	2.5	2.875	0.219	
SU250293218	2.5	2.937	0.218	
SU250300218V	2.5	3	0.218	
SU250300250	2.5	3	0.25	
SU250300312DI	2.5	3	0.312	
SU250312312	2.5	3.125	0.312	SU 35
SU250325375	2.5	3.25	0.375	SU 36
SU250325500DE	2.5	3.25	0.5	
SU250350500	2.5	3.5	0.5	
SU256300218	2.562	3	0.218	
SU262300187	2.625	3	0.187	
SU262300312	2.625	3	0.312	
SU262312250DE	2.625	3.125	0.25	
SU262312375DI	2.625	3.125	0.375	
SU262325312	2.625	3.25	0.312	
SU262337375	2.625	3.375	0.375	SU 37

PNEUMATIC / LOW PRESSURE HYDRAULIC

NITRILE RUBBER

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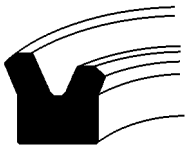
SU_____

PISTON OR ROD



SU_____DE

PISTON ONLY



SU_____DI

ROD ONLY

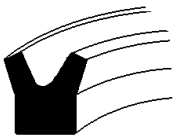
PART #	ID	OD	SEAL HEIGHT	
SU268312218	2.687	3.125	0.218	
SU275312187	2.75	3.125	0.187	
SU275318218	2.75	3.187	0.218	
SU275325250	2.75	3.25	0.25	
SU275350375	2.75	3.5	0.375	SU 38
SU275350500DE	2.75	3.5	0.5	
SU275354375DI	2.75	3.546	0.375	
SU275375375	2.75	3.75	0.375	
SU278325343DE	2.78	3.25	3.43	
SU281325218	2.812	3.25	0.218	
SU281325276DE	2.812	3.25	0.276	
SU281325250DE	2.813	3.25	0.25	
SU287325187	2.875	3.25	0.187	
SU287325375DI	2.875	3.25	0.375	
SU287337375DE	2.875	3.375	0.375	
SU287350312	2.875	3.5	0.312	
SU287362375	2.875	3.625	0.375	SU 39
SU300337187	3	3.375	0.187	
SU300343218	3	3.437	0.218	
SU300350250	3	3.5	0.25	
SU300350250DE	3	3.5	0.25	
SU300350375DI	3	3.5	0.375	
SU300362312	3	3.625	0.312	
SU300362375DE	3	3.625	0.375	
SU300375312DE	3	3.75	0.312	
SU300375375	3	3.75	0.375	SU 40
SU300375500DE	3	3.75	0.5	
SU300387375	3	3.875	0.375	
SU303375290DE	3.031	3.75	0.29	
SU306350218	3.062	3.5	0.218	
SU306400500	3.062	4	0.5	
SU312387375	3.125	3.875	0.375	
SU312387437DI	3.125	3.875	0.437	
SU325362187	3.25	3.625	0.187	
SU325375312DI	3.25	3.75	0.312	

PART #	ID	OD	SEAL HEIGHTT	
SU325375375	3.25	3.75	0.375	
SU325400375	3.25	4	0.375	SU 60
SU325400500DE	3.25	4	0.5	
SU329400500DE	3.29	4	0.5	
SU331412437	3.312	4.125	0.437	
SU337387250	3.375	3.875	0.25	
SU337387375DI	3.375	3.875	0.375	
SU337387375DE	3.375	3.875	0.375	
SU337412375	3.375	4.125	0.375	
SU375425250	3.375	4.25	0.25	
SU337437625DE	3.375	4.375	0.625	
SU340387375DE	3.406	3.875	0.375	
SU350400250DE	3.5	4	0.25	
SU350400250	3.5	4	0.25	
SU350400375DI	3.5	4	0.375	
SU350400375DE	3.5	4	0.375	
SU350412312DE	3.5	4.125	0.312	
SU350425500DE	3.5	4.25	0.5	
SU350425375	3.5	4.5	0.375	
SU350450500	3.5	4.5	0.5	
SU350450625DE	3.5	4.5	0.625	
SU356425312	3.562	4.25	0.312	
SU362418312DI	3.625	4.187	0.312	
SU362437375	3.625	4.375	0.375	
SU375437375DI	3.75	4.375	0.375	
SU375450375	3.75	4.5	0.375	SU 63
SU375475625DE	3.75	4.75	0.625	
SU387425375DI	3.875	4.25	0.375	
SU387462375	3.875	4.625	0.375	
SU400437219DI	4	4.375	0.219	
SU400475375	4	4.375	0.437	
SU400450250	4	4.5	0.25	
SU400450375	4	4.5	0.375	
SU400500500	4	5	0.5	
SU400500625DE	4	5	0.625	

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NITRILE RUBBER

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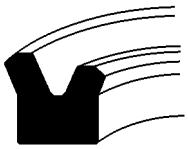
SU_____

PISTON OR ROD



SU_____DE

PISTON ONLY



SU_____DI

ROD ONLY

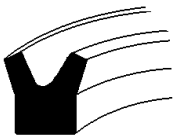
PART #	ID	OD	SEAL HEIGHT	
SU412462375DE	4.125	4.625	0.375	
SU412475375	4.125	4.75	0.375	
SU412500625	4.125	5	0.625	
SU421500671DE	4.219	5	0.672	
SU425475250	4.25	4.75	0.25	
SU425475375DE	4.25	4.75	0.375	
SU425487312	4.25	4.875	0.312	
SU425487375DE	4.25	4.875	0.375	
SU425500375	4.25	5	0.375	SU 65
SU425500375DE	4.25	5	0.375	
SU425500375DI	4.25	5	0.375	
SU425500406DE	4.25	5	0.406	
SU425500465DE	4.25	5	0.465	
SU425525625DE	4.25	5.25	0.625	
SU437487375DE	4.375	4.875	0.375	
SU437500312	4.375	5	0.312	
SU437512375	4.375	5.125	0.375	
SU475525250	4.375	5.25	0.25	
SU443500281	4.437	5	0.281	
SU450500250	4.5	5	0.25	
SU450525375	4.5	5.25	0.375	
SU450537375	4.5	5.375	0.375	
SU450550625DE	4.5	5.5	0.625	
SU450575500DI	4.5	5.75	0.5	
SU462512375DE	4.625	5.125	0.375	
SU462550375	4.625	5.5	0.375	
SU475525375DE	4.75	5.25	0.375	
SU475537281DI	4.75	5.375	0.281	
SU475550375	4.75	5.5	0.375	
SU475575625DE	4.75	5.75	0.625	
SU487562375	4.875	5.625	0.375	
SU500550375DE	5	5.5	0.375	
SU500556281	5	5.562	0.281	
SU500562312	5	5.625	0.312	
SU500575375	5	5.75	0.375	

PART #	ID	OD	SEAL HEIGHTT	
SU500575500DI	5	5.75	0.5	
SU500600500	5	6	0.5	
SU500600625DE	5	6	0.625	
SU512575312	5.125	5.75	0.312	
SU512587375	5.125	5.875	0.375	
SU512600420DE	5.125	6	0.42	
SU512600437	5.125	6	0.437	SU 70
SU525600375	5.25	6	0.375	
SU525600500	5.25	6	0.5	
SU525625500	5.25	6.25	0.5	
SU525625625DE	5.25	6.25	0.625	
SU531600750DE	5.312	6	0.75	
SU537587375DE	5.375	5.875	0.375	
SU537593375DE	5.375	5.937	0.375	
SU537600312	5.375	6	0.312	
SU537612375	5.375	6.125	0.375	
SU543600281	5.437	6	0.281	
SU550600250	5.5	6	0.25	
SU550600250DE	5.5	6	0.25	
SU550612312	5.5	6.125	0.312	
SU550650500	5.5	6.5	0.5	
SU550650625DE	5.5	6.5	0.625	
SU575650500DI	5.75	6.5	0.5	
SU575700500	5.75	7	0.5	
SU587637250	5.875	6.375	0.25	
SU593650281	5.937	6.5	0.281	
SU600662312	6	6.625	0.312	
SU600675375DI	6	6.75	0.375	
SU600675375	6	6.75	0.375	
SU600700500	6	7	0.5	
SU600700625DE	6	7	0.625	
SU600725500	6	7.25	0.5	
SU625700375	6.25	7	0.375	
SU625750625	6.25	7.5	0.625	

PNEUMATIC / LOW PRESSURE HYDRAULIC

NITRILE RUBBER

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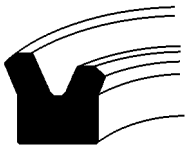
SU_____

PISTON OR ROD



SU_____DE

PISTON ONLY



SU_____DI

ROD ONLY

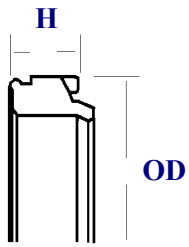
PART #	ID	OD	SEAL HEIGHT	
SU625750750DE	6.25	7.5	0.75	
SU637700312	6.375	7	0.312	
SU643700281	6.437	7	0.281	
SU650700281DE	6.5	7	0.281	
SU650725437DE	6.5	7.25	0.437	
SU650725500DI	6.5	7.25	0.5	
SU650800750	6.5	8	0.75	
SU675800750DE	6.75	8	0.75	
SU675825750	6.75	8.25	0.75	
SU675850750	6.75	8.5	0.75	
SU700775625	7	7.75	0.625	
SU700800750	7	8	0.75	
SU700800500	7	8	5	SU 80
SU718800870DE	7.187	8	0.875	
SU725850750DE	7.25	8.5	0.75	
SU725875750	7.25	8.75	0.75	
SU737800312	7.375	8	0.312	
SU743800281	7.437	8	0.281	
SU750800375	7.5	8	0.375	
SU750825500DI	7.5	8.25	0.5	
SU750900750	7.5	9	0.75	
SU775925750	7.75	9.25	0.75	
SU800975750	8	9.75	0.75	
SU825950500	8.25	9.5	0.5	
SU8501000750	8.5	10	0.75	
SU8751000750DE	8.75	10	0.75	
SU8751000826DE	8.75	10	0.826	
SU8811000103DE	8.81	10	1.03	
SU9001000500	9	10	0.5	SU 85
SU9001050875	9	10.5	0.875	

PART #	ID	OD	SEAL HEIGHTT
SU9251000375	9.25	10	0.375
SU9251000500DE	9.25	10	0.5
SU9501100875	9.5	11	0.875
SU10001100500	10	11	0.5
SU10001150875	10	11.5	0.875
SU10251100375	10.25	11	0.375
SU10501200875	10.5	12	0.875
SU10751200750DE	10.75	12	0.75
SU10751200881DE	10.75	12	0.881
SU11001200500	11	12	0.5
SU11251200312	11.25	12	0.312
SU11251200375	11.25	12	0.375
SU12001300500	12	13	0.5
SU12001300500DE	12	13	0.5
SU127514001030	12.75	14	1.03
SU13001400500	13	14	0.5
SU13251400375	13.25	14	0.375
SU15001600437	15	16	0.437
SU15001600625DE	15	16	0.625

PB

PNEUMATIC CUSHION / BUFFER SEAL

16 BAR





NITRILE RUBBER / URETHANE

PART#	ID	OD	H
PB006	6	10	3
PB008	8	11	2.7
PB009.5	9.5	15	3.6
PB010	10	18	6.2
PB012/2	12	18	4.1
PB012/1	12	18	5
PB012	12	20	6.2
PB014	14	22	6.3
PB016/2	16	20	3.1
PB016/1	16	22	4.5
PB016	16	24	6.2
PB016V	16	24	6.2
PB018/1	18	23	3.5
PB018	18	26	7
PB020/1	20	26	3.5
PB020	20	28	6.2
PB020V	20	28	6.2
PB022	22	30	6.3
PB024	24	32	6.2
PB025/2	25	32	4.4

PART#	ID	OD	H
PB025V	25	33	6.3
PB025	25	33	6.3
PB025/1	25	35	6.3
PB028	28	36	6.2
PB030/1	30	38	5.8
PB030	30	40	6.2
PB030V	30	40	6.2
PB032	32	42	7
PB035	35	44.4	6.1
PB036	36	46	6.2
PB040V	40	50	6.2
PB040	40	50	6.2
PB045	45	56	7.4
PB050/1	50	60	6
PB050/2	50	62.5	7.5
PB050	50	67	11
PB057	57	74	11
PB070	70	87	11
PB078	78	95	11

PC

PNEUMATIC CUSHION / BUFFER SEAL

16 BAR



NITRILE RUBBER / URETHANE

PART#	ID	OD	H
PCI037	0.375	0.689	0.157
PCI062	0.625	0.939	0.157
PCI075	0.75	1.064	0.157
PCI087	0.875	1.189	0.157
PCI118	1.187	1.581	0.157
PCI125	1.25	1.564	0.157
PCI162	1.625	1.939	0.197
PCI200	2	2.394	0.197
PCI225	2.25	2.564	0.157
PCM010	10	18	4
PCM012	12	20	4
PCM014	14	22	4
PCM016	16	24	4
PCM018	18	26	4
PCM020	20	28	4
PCM022	22	30	4
PCM025	25	33	4
PCM030	30	40	5

PART#	ID	OD	H
PCM032	32	42	5
PCM035	35	45	5
PCM036	36	46	5
PCM038	38	48	5
PCM040	40	50	5
PCM045	45	55	5.5
PCM050	50	60	5

CKD --- After Market Kits

	SHAFT	*BORE*
CKD/SCA2/100K		100
CKD/SCA2/125K		125
CKD/SCA2/125LN		125
CKD/SCA2/40K		40
CKD/SCA2/50K		50
CKD/SCA2/63K		63
CKD/SCA2/80K		80
CKD/SCS/140K		140
CKD/SCS/160K		160
CKD/SCS/250K		250
CKD/SCS/N/200K		200
CKD050		50

FESTO --- After Market Kits

	SHAFT	*BORE*
FES/ADVU/AEVU16		
FES/ADVU/AEVU25		
FES/ADVU/AEVU32		
FES/ADVU/AEVU40		
FES/ADVU/AEVU50		
FES/ADVU/AEVU63		
FES/ADVUAEVU100		
FES/CRDNG-80		
FES/DFM016		
FES/DFM032		
FES/DN040		
FES/DN100		
FES/DNC032		
FES/DNC040		
FES/DNC040ENDCP		
FES/DNC040V		
FES/DNC050		
FES/DNC063		
FES/DNC080		
FES/DNC100		
FES/DNC125		
FES/DNC200		
FES/DNG160		
FES/DNG200		
FES/DNN040		
FES/DNN080		
FES/DNU032		
FES/DNU063		
FES/STA50-30PA		

NORGREN --- After Market Kits

	SHAFT	*BORE*
NOR/1031COMPLET	1.25	3
NOR/1041COMPLET	1.5	4
NOR/1051COMPLET	1.75	5
NOR/1061COMPLET	2.25	6
NOR/1081COMPLET	2.25	8
NOR/1101	3	10
NOR/1121COMPLET	3	12
NOR/4540	1.25	4
NOR/547COMPLETE	0.625	1.5
NOR/548COMPLETE	0.437	1.75
NOR/549COMPLETE	0.437	1.25
NOR/55433A00		32
NOR/55441A00		40
NOR/55451A00		50
NOR/8020B	8	20
NOR/8025COMPLET	10	25
NOR/8032COMPLET	12	32
NOR/8040COMPLET	16	40
NOR/8050/J/PK	20	50
NOR/8050COMPLET	20	50
NOR/8063COMPLET	20	63
NOR/8080COMPLET	25	80
NOR/8100COMPLET	25	100
NOR/8125COMPLET	32	125
NOR/8160COMPLET	40	160
NOR/8200COMPLET	40	200
NOR/910COMPLETE	2.25	10
NOR/9120COMPLET	2.25	12
NOR/9175COMPLET	0.625	1.75
NOR/920COMPLETE	0.75	2
NOR/925COMPLETE	1	2.5
NOR/930COMPLETE	1	3
NOR/940COMPLETE	1.25	4
NOR/950COMPLETE	1.5	5
NOR/960COMPLETE	1.5	6
NOR/980COMPLETE	1.75	8
NOR/KQA8063COMP	20	63
NOR/KQM55032	12	32
NOR/KQM8016		
NOR/KQM8020/21		
NOR/KQM8025		
NOR/LKEG1		
NOR/PRA/182080	25	80
NOR/PRA/182084	16	40
NOR/PRA/182100	25	100
NOR/QM92050/00		50
NOR/QM92063/00		63
NOR/SPOOL-CAGE		
NOR/SPOOL-SEAL		

NOR/TQA8032		
NOR/TQA8063COMP	20	63
NOR/TQA8080COMP	25	80
NOR/TQA8100COMP	25	100

PARKER --- AfterMarket Kits

	SHAFT	*BORE*
PKH/50MM-CYL/PK	20	50
PKH/MCQV/100		100
PKH/P1E/6QRM		100
PKH/PK150A001PK		1.5
PKH/PK152HLL01P		1.5
PKH/PK202HLL01P		2
PKH/PK252HK005P		2.5
PKH/PK252HLL01P		2.5
PKH/PK252HLL05		2.5
PKH/PK322HK005P		3.25
PKH/PK322HLL01P		3.25
PKH/PK322HLL05		3.25
PKH/PK402HK005P		4
PKH/PK402HLL01P		4
PKH/PK5002A001P		5
PKH/PK502HLL01P		5
PKH/PK602HLL01P		6
PKH/PK702AHL01P		7
PKH/PK702HK005P		7
PKH/PK802HLL01P		8
PKH/PR152HLL01P		1.5
PKH/PR202H001PK		2
PKH/PR252HLL01P		2.5
PKH/PR322HLL01P		3.25
PKH/RG/10	1	
PKH/RG2AHL0131P	1.375	
PKH/RK2AHL0061P	0.625	
PKH/RK2AHL0101P	1	
PKH/RK2AHL0131P	1.375	
PKH/RK2AHL0135	1.375	
PKH/RK2AHL0171P	1.75	
PKH/RK2AHL0201P	2	
PKH/RK2AHL0301P	3	
PKH/RK2AHL0351P	3.5	

SMC --- After Market Kits

	SHAFT	*BORE*
SMC/23866/80/PK	25	80
SMC/C92160A	40	160
SMC/CA1N100	30	100
SMC/CA1N100XB5	36	100
SMC/CA1N125	36	125

SMC/CA1N160	40	160
SMC/CA1N40	16	40
SMC/CA1N50	20	50
SMC/CA1N50XB5	25	50
SMC/CA1N63	20	63
SMC/CA1N63XB5		63
SMC/CA1N80	25	80
SMC/CA1N80XB5	30	80
SMC/CA1WN50/XB6	20	50
SMC/CA2N100A	30	100
SMC/CA2N100XB5	36	100
SMC/CA2N50A	20	50
SMC/CA2N50A-XB5	25	50
SMC/CA2N63A	20	63
SMC/CA2N80A	25	80
SMC/CD955DB80		
SMC/CDNGTN40	16	40
SMC/CG1N/25/PS	10	25
SMC/CP96SDB5080	20	50
SMC/CQ2B/32/PS	16	32
SMC/CQ2B-1650	16	50
SMC/CQ2B200/PS	40	200
SMC/CQ2B40/PS	16	40
SMC/CQ2B50/PS	20	50
SMC/CQ2B63/PS	20	63
SMC/CS1A616040	40	160
SMC/CS1A616050	50	160
SMC/CS1A616060	60	160
SMC/CS1GN200-L	160	200
SMC/CS1N125	36	125
SMC/CS1N125XB5S	50	125
SMC/CS1N160A	40	160
SMC/CS1N180A	45	180
SMC/CS1N200A	50	200
SMC/CS1N200AXB5	70	200
SMC/CS1N250A	60	250
SMC/CS92125A	32	125
SMC/CS95/100	30	100
SMC/CS95/125	32	125
SMC/CS95/125SQ	32	125
SMC/CS95/32	12	32
SMC/CS95/40	16	40
SMC/CS95/50	20	50
SMC/CS95/63	20	63
SMC/CS95/80	25	80
SMC/KT-FHP2SQC		
SMC/PF-1	20	50
SMC/PF-2	25	80
SMC/XT316/80B		80