



SiL-Sleeve™

PRODUCT INFORMATION



Introduction

Shaft Repair Sleeves are highly engineered components that press-fit on to a shaft, which may deter damage to shafts and spindles. These are designed for ambient temperature interference fit and are available in various sizes and finishes. They provide a protective seal running surface and reduce the need for complex and expensive shaft machining, repair or replacement.



Application

SIL-Sleeve can be used where there is a radial shaft seal arrangement such as in Gearboxes, Pumps, motors, earth moving and construction equipment, Automotive and agricultural application. Some of the wide application includes:

INDUSTRIAL

- Industrial gearbox and motor shafts
- Crushers, conveyors, fans, pumps and reducers
- Heavy construction and agricultural equipments

AUTOMOTIVE

- Engine crankshaft front and rear
- Transmission front and rear
- Transfer case input and output shaft
- Pinion differential / yokes
- Harmonic Balance / camshaft timing cover
- Wheel/Steering / Shift Shaft

Key Benefits

Cost effective alternative to replacing or repairing damaged shaft

Quick and easy to install

Reduce equipment downtime

Extremely durable, corrosion free sealing surface

Very thin walled design allows the same size of seal to be used

Premium grade surface hardness ensures abrasion resistance

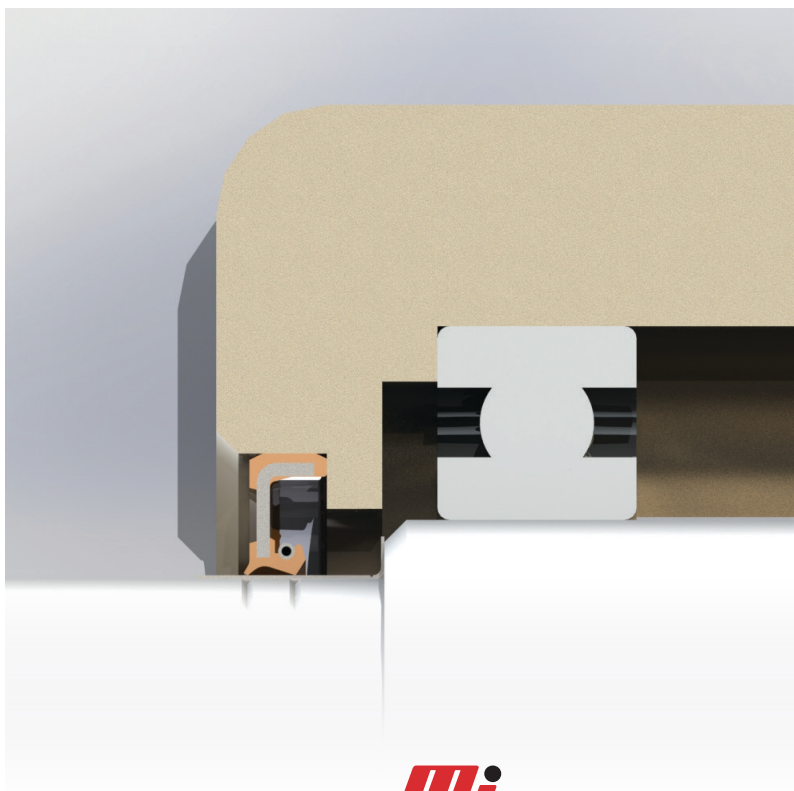
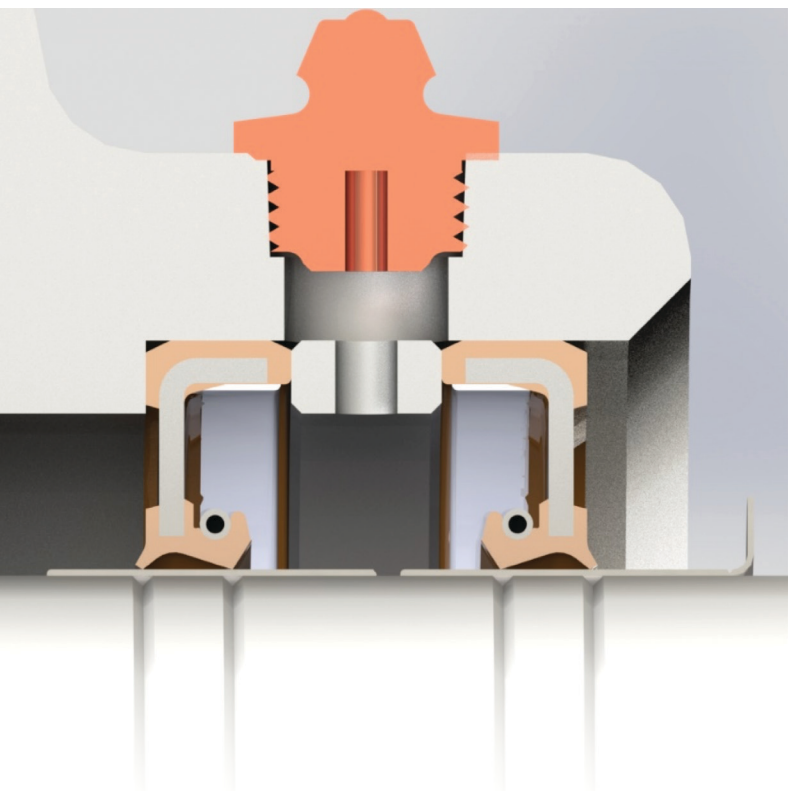
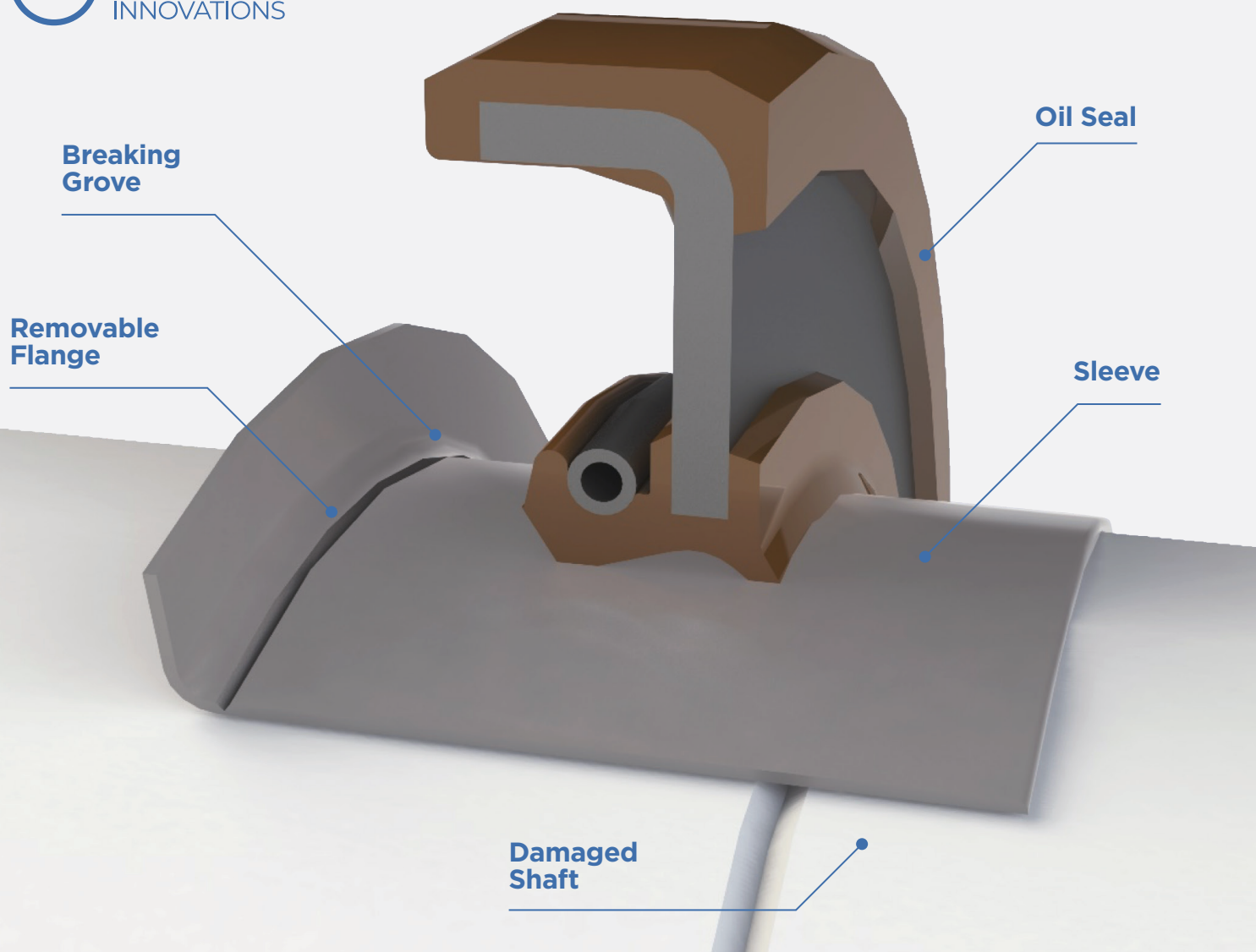
Extends seals life

Product Specification

SIL-SLEEVE STANDARD

Material	Stainless Steel SAE / AISI 304
Properties	Good chemical and corrosion resistance
Hardness	Over 220HV (95 HRB)
Wall Thickness	0.28mm 0/-0.05
Surface Roughness	Ra 0.20~0.50 um
Lead Specification	Zero +/- 0.05 degree





Installation

Please wear appropriate Personal protective gear (PPE) before starting the installation procedure.

1. Shaft Surface should be cleaned, removing any burrs or rough areas with a file.
2. With calipers, measure the shaft diameter where the sleeve will be positioned. Measure in at least three different places to get an average diameter. Check the average diameter against sleeve size range to determine the correct part number. (Fig. A)
3. If the shaft is severely scored, fill the groove with a powdered metal type epoxy filler. The sleeve will have to be installed before the filler hardens.
4. Once the shaft surface is prepared, apply a light layer of non-hardening sealant to the inside surface of the sleeve.
5. Measure the point at which the sleeve will have to be installed to cover the worn area of the shaft. The sleeve must cover the worn area – do not just leave it flush with the end of shaft.
6. Place the installation tool provided over the sleeve. The flange side of the sleeve must be placed over the shaft first. (Fig. B)
7. Tap the centre of the tool gently, until the sleeve covers the worn surface of the shaft. (Fig. C)
NOTE: A length of pipe with a burr free end may be used if the installation tool is too short.

FOR SIL-SLEEVE ONLY

8. If necessary, remove the flange with side cutters by prying away from the shaft surface. The flange will break away from the SIL-Sleeve on a pre-cut line. (Fig. D)
NOTE: Harmonic balance sleeves do not have a removable flange.
9. Once sleeve installation is completed, examine the shaft once more, checking for any rough areas that could damage the seal. The shaft is now prepared for seal and bearing installation.



FIG. A



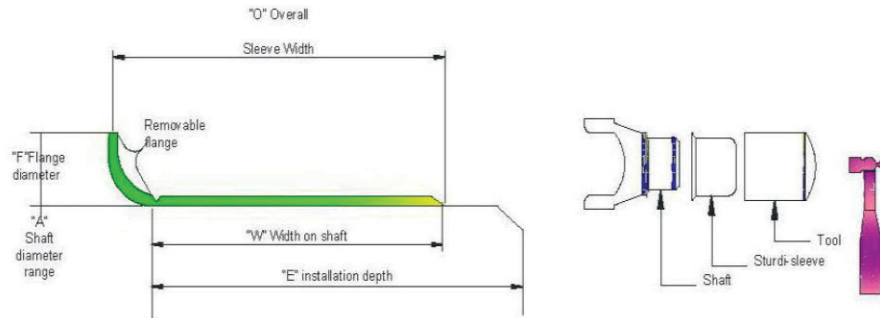
FIG. B



FIG. C



FIG. D



Reference Number	Dimensions in Inches						
	Nominal Shaft Diameter	"A" Shaft Diameter Minimum	"A" Shaft Diameter Maximum	"W" Width on Shaft ± 0.031 "	"O" Overall Width ± 0.031 "	"F" Flange Diameter ± 0.063 "	"E" Installation Depth
99049SIL	0.472	0.469	0.475	0.236	0.331	0.610	1.874
99050SIL	0.500	0.498	0.502	0.248	0.343	0.610	2.000
99055SIL	0.551	0.547	0.551	0.248	0.390	0.752	1.831
99056SIL	0.563	0.560	0.566	0.248	0.390	0.752	1.862
99059SIL	0.591	0.589	0.593	0.197	0.354	0.752	1.862
99062SIL	0.625	0.623	0.627	0.315	0.406	0.752	2.000
99058SIL	0.630	0.626	0.630	0.315	0.437	0.717	2.000
99068SIL	0.669	0.667	0.671	0.315	0.433	0.874	2.000
99060SIL	0.684	0.682	0.686	0.315	0.437	0.894	2.000
99082SIL	0.706	0.704	0.709	0.315	0.433	0.961	1.811
99076SIL	0.750	0.748	0.752	0.315	0.437	0.945	2.000
99081SIL	0.760	0.759	0.761	0.315	0.437	0.937	2.000
99080SIL	0.781	0.780	0.784	0.315	0.437	0.937	2.000
99078SIL	0.787	0.785	0.789	0.315	0.433	0.929	2.000
99083SIL	0.813	0.812	0.815	0.375	0.563	1.188	3.000
99086SIL	0.859	0.857	0.861	0.248	0.374	1.154	2.000
99084SIL	0.866	0.861	0.866	0.260	0.358	1.189	1.854
99085SIL	0.866	0.861	0.866	0.315	0.472	1.189	1.811
99087SIL	0.875	0.873	0.877	0.315	0.437	1.095	2.000
99091SIL	0.910	0.908	0.912	0.315	0.437	1.217	1.847
99092SIL	0.945	0.940	0.945	0.315	0.437	1.130	2.000
99094SIL	0.969	0.966	0.970	0.315	0.437	1.130	2.000
99096SIL	0.969	0.966	0.970	0.626	0.721	1.130	2.000
99098SIL	0.984	0.982	0.986	0.315	0.433	1.299	2.000
99101SIL	1.000	0.995	1.002	0.312	0.437	1.221	2.032
99100SIL	1.000	0.998	1.002	0.315	0.437	1.221	2.000
99103SIL	1.024	1.019	1.024	0.315	0.472	1.315	1.811
99106SIL	1.063	1.060	1.064	0.315	0.437	1.319	1.843
99108SIL	1.089	1.087	1.091	0.315	0.437	1.406	0.626
99111SIL	1.102	1.100	1.104	0.374	0.500	1.374	1.843
99112SIL	1.125	1.123	1.127	0.315	0.437	1.500	0.689
99116SIL	1.125	1.123	1.127	0.374	0.500	1.500	0.689

Reference Number	Dimensions in Inches						
	Nominal Shaft Diameter	“A” Shaft Diameter Minimum	“A” Shaft Diameter Maximum	“W” Width on Shaft ± 0.031 ”	“O” Overall Width ± 0.031 ”	“F” Flange Diameter ± 0.063 ”	“E” Installation Depth
99120SIL	1.156	1.154	1.158	0.374	0.500	1.350	0.689
99122SIL	1.175	1.173	1.178	0.315	0.437	1.402	0.689
99114SIL	1.181	1.179	1.184	0.315	0.433	1.402	0.689
99118SIL	1.188	1.185	1.190	0.315	0.437	1.402	0.689
99123SIL	1.219	1.216	1.222	0.315	0.433	1.563	0.626
99141SIL	1.240	1.237	1.243	0.315	0.437	1.539	0.689
99125SIL	1.252	1.247	1.253	0.315	0.437	1.500	0.689
99128SIL	1.260	1.257	1.263	0.315	0.437	1.500	0.689
99121SIL	1.299	1.297	1.301	0.591	0.709	1.594	0.813
99129SIL	1.313	1.308	1.314	0.248	0.374	1.598	0.815
99131SIL	1.313	1.310	1.316	0.500	0.626	1.595	0.815
99134SIL	1.339	1.333	1.339	0.500	0.626	1.626	0.815
99133SIL	1.375	1.371	1.377	0.315	0.437	1.638	0.815
99138SIL	1.375	1.371	1.377	0.626	0.500	1.638	0.815
99139SIL	1.375	1.375	1.381	0.512	0.630	1.638	0.815
99146SIL	1.417	1.411	1.417	0.512	0.669	1.780	0.984
99143SIL	1.438	1.432	1.438	0.563	0.689	1.780	1.016
99144SIL	1.438	1.432	1.438	0.563	0.689	1.780	1.016
99147SIL	1.496	1.490	1.496	0.512	0.669	1.780	0.984
99150SIL	1.500	1.497	1.503	0.374	0.500	1.780	1.016
99149SIL	1.500	1.497	1.503	0.563	0.689	1.780	1.016
99152SIL	1.523	1.520	1.526	0.437	0.563	1.858	1.016
99155SIL	1.552	1.549	1.555	0.437	0.563	1.858	1.016
99156SIL	1.563	1.559	1.565	0.563	0.689	1.858	1.016
99159SIL	1.569	1.566	1.572	0.626	0.752	1.858	1.016
99153SIL	1.575	1.569	1.575	0.390	0.508	1.847	1.000
99157SIL	1.578	1.572	1.578	0.512	0.630	1.850	1.024
99160SIL	1.605	1.602	1.608	0.500	0.642	1.937	1.000
99163SIL	1.605	1.602	1.608	0.500	0.642	1.937	1.000
99161SIL	1.625	1.622	1.628	0.315	0.437	1.874	1.016
99162SIL	1.625	1.622	1.628	0.563	0.689	1.874	0.815
99166SIL	1.650	1.647	1.654	0.445	0.571	2.087	0.843
99169SIL	1.650	1.647	1.654	0.563	0.689	2.087	0.827
99165SIL	1.656	1.653	1.659	0.551	0.689	2.087	0.827
99168SIL	1.688	1.684	1.690	0.563	0.689	1.906	0.874
99167SIL	1.688	1.685	1.691	0.315	0.437	1.906	0.874
99182SIL	1.693	1.687	1.693	0.500	0.626	1.906	0.839
99171SIL	1.719	1.715	1.721	0.563	0.689	2.032	0.815
99170SIL	1.739	1.736	1.742	0.374	0.500	2.063	0.815
99173SIL	1.750	1.745	1.753	0.874	1.000	2.063	1.031
99172SIL	1.750	1.747	1.753	0.374	0.500	2.055	0.815
99180SIL	1.750	1.747	1.753	0.532	0.626	2.063	0.878

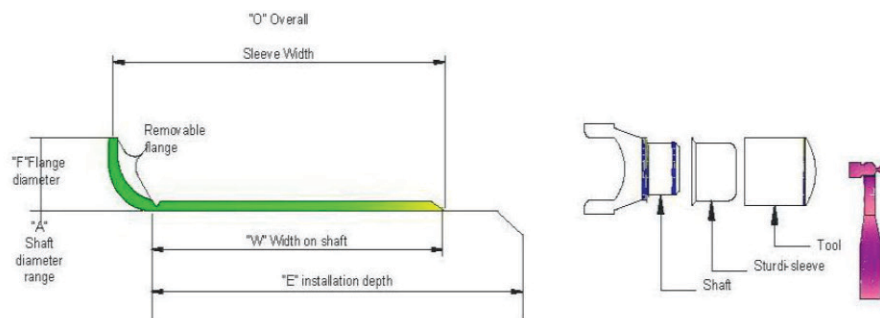
Reference Number	Dimensions in Inches						
	Nominal Shaft Diameter	“A” Shaft Diameter Minimum	“A” Shaft Diameter Maximum	“W” Width on Shaft ± 0.031 ”	“O” Overall Width ± 0.031 ”	“F” Flange Diameter ± 0.063 ”	“E” Installation Depth
99174SIL	1.750	1.747	1.753	0.563	0.689	2.063	0.815
99175SIL	1.750	1.747	1.753	0.752	0.874	2.063	0.815
99176SIL	1.766	1.761	1.767	0.563	0.689	2.063	0.815
99177SIL	1.772	1.769	1.775	0.551	0.669	2.087	0.811
99179SIL	1.781	1.778	1.784	0.665	0.799	2.126	1.063
99181SIL	1.813	1.809	1.815	0.563	0.689	2.091	1.000
99185SIL	1.859	1.857	1.863	0.563	0.689	2.158	1.000
99186SIL	1.868	1.866	1.872	0.890	1.024	2.189	1.000
99190SIL	1.875	1.872	1.878	0.177	0.295	2.205	0.740
99188SIL	1.875	1.872	1.878	0.295	0.413	2.205	0.740
99184SIL	1.875	1.872	1.878	0.374	0.516	2.205	1.047
99187SIL	1.875	1.872	1.878	0.563	0.689	2.205	1.000
99189SIL	1.891	1.887	1.893	0.551	0.669	2.205	0.984
99192SIL	1.912	1.909	1.915	0.374	0.500	2.221	1.000
99193SIL	1.938	1.934	1.940	0.563	0.689	2.221	1.000
99196SIL	1.969	1.965	1.971	0.551	0.669	2.244	0.984
99198SIL	1.980	1.977	1.983	0.563	0.705	2.315	1.047
99199SIL	2.000	1.997	2.003	0.563	0.689	2.406	1.000
99200SIL	2.000	1.997	2.003	0.874	1.000	2.406	1.000
99204SIL	2.047	2.040	2.047	0.500	0.626	2.469	1.358
99205SIL	2.063	2.057	2.063	0.780	0.937	2.469	1.374
99210SIL	2.125	2.123	2.128	0.500	0.752	2.421	1.280
99212SIL	2.125	2.124	2.130	0.780	0.937	2.421	1.374
99215SIL	2.165	2.162	2.168	0.787	0.906	2.441	1.252
99218SIL	2.188	2.186	2.192	0.780	0.937	2.500	1.315
99220SIL	2.205	2.198	2.205	0.500	0.626	2.532	1.315
99224SIL	2.205	2.197	2.205	0.779	0.936	2.531	3.150
99229SIL	2.230	2.227	2.233	0.500	0.626	2.532	1.315
99230SIL	2.230	2.227	2.233	0.780	0.906	2.532	1.252
99226SIL	2.240	2.237	2.243	0.764	0.902	2.563	1.252
99227SIL	2.250	2.249	2.255	0.315	0.437	2.532	1.315
99225SIL	2.250	2.249	2.255	0.780	0.937	2.532	1.3
99219SIL	2.284	2.280	2.286	0.781	0.938	2.598	1.375
99231SIL	2.313	2.309	2.315	0.780	0.937	2.689	1.374
99233SIL	2.328	2.327	2.333	0.752	0.874	2.748	1.500
99241SIL	2.362	2.359	2.365	0.370	0.449	2.784	1.374
99235SIL	2.362	2.359	2.365	0.787	0.906	2.784	1.469
99236SIL	2.375	2.369	2.375	0.780	0.937	2.748	1.374
99238SIL	2.375	2.372	2.378	0.595	0.752	2.748	1.374
99240SIL	2.375	2.374	2.380	0.528	0.685	2.748	1.374
99237SIL	2.375	2.374	2.380	0.780	0.937	2.748	1.374
99243SIL	2.438	2.434	2.440	0.780	0.937	2.827	1.394

Reference Number	Dimensions in Inches						
	Nominal Shaft Diameter	“A” Shaft Diameter Minimum	“A” Shaft Diameter Maximum	“W” Width on Shaft ± 0.031 ”	“O” Overall Width ± 0.031 ”	“F” Flange Diameter ± 0.063 ”	“E” Installation Depth
99242SIL	2.438	2.435	2.441	0.500	0.626	2.827	1.421
99244SIL	2.441	2.434	2.441	0.500	0.626	2.827	1.421
99249SIL	2.492	2.489	2.495	0.780	0.937	2.874	1.394
99253SIL	2.500	2.497	2.503	0.555	0.650	2.819	0.890
99248SIL	2.500	2.500	2.506	0.500	0.658	2.827	1.394
99250SIL	2.500	2.500	2.506	0.780	0.937	2.819	1.374
99251SIL	2.516	2.510	2.516	0.780	0.906	2.827	1.437
99254SIL	2.559	2.556	2.562	0.787	0.906	2.850	1.374
99256SIL	2.563	2.560	2.566	0.780	0.937	2.890	1.374
99259SIL	2.598	2.595	2.601	0.780	0.937	2.992	1.252
99261SIL	2.621	2.618	2.624	0.780	0.937	3.047	1.374
99264SIL	2.625	2.621	2.627	0.780	0.906	3.047	1.374
99260SIL	2.625	2.622	2.628	0.500	0.626	3.047	1.374
99262SIL	2.625	2.625	2.631	0.780	0.937	3.047	1.374
99266SIL	2.677	2.670	2.677	0.752	0.874	3.126	1.689
99268SIL	2.730	2.727	2.733	0.780	0.906	3.126	1.315
99273SIL	2.743	2.740	2.746	0.780	0.937	3.063	1.252
99274SIL	2.750	2.745	2.751	0.780	0.937	3.126	1.252
99267SIL	2.750	2.747	2.753	1.437	1.626	3.075	1.626
99270SIL	2.750	2.747	2.753	0.780	0.937	3.126	1.252
99272SIL	2.750	2.750	2.756	0.406	0.563	3.126	1.252
99275SIL	2.750	2.750	2.756	0.780	0.937	3.126	1.252
99269SIL	2.750	2.750	2.756	1.126	1.252	3.126	1.311
99276SIL	2.756	2.753	2.759	0.787	0.945	3.126	1.252
99281SIL	2.813	2.809	2.815	0.595	0.689	3.189	1.252
99284SIL	2.835	2.828	2.835	0.752	0.874	3.224	1.343
99282SIL	2.838	2.838	2.844	0.500	0.658	3.224	1.252
99286SIL	2.869	2.866	2.872	0.780	0.937	3.189	1.252
99287SIL	2.875	2.873	2.879	0.780	0.937	3.221	1.252
99290SIL	2.938	2.937	2.943	0.500	0.642	3.343	1.331
99293SIL	2.938	2.937	2.943	0.780	0.937	3.343	1.315
99289SIL	2.953	2.950	2.956	0.866	1.024	3.307	1.315
99294SIL	2.953	2.950	2.956	0.866	1.024	3.307	1.315
99292SIL	2.974	2.972	2.976	0.811	1.000	3.236	1.252
99291SIL	2.993	2.990	2.996	0.484	0.626	3.358	1.331
99298SIL	2.993	2.990	2.996	0.563	0.689	3.358	1.374
99299SIL	2.993	2.990	2.996	0.811	1.000	3.350	1.280
99296SIL	3.000	2.997	3.003	0.811	0.937	3.240	1.374
99303SIL	3.000	3.000	3.006	0.626	0.811	3.347	1.280
99300SIL	3.000	3.000	3.006	0.811	1.000	3.236	1.280
99301SIL	3.011	3.008	3.014	0.500	0.626	3.354	2.000
99306SIL	3.071	3.064	3.071	0.752	0.874	3.465	2.055

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	Nominal Shaft Diameter	“A” Shaft Diameter Minimum	“A” Shaft Diameter Maximum	“W” Width on Shaft ± 0.031 ”	“O” Overall Width ± 0.031 ”	“F” Flange Diameter ± 0.063 ”	“E” Installation Depth
99311SIL	3.125	3.120	3.126	0.689	0.811	3.532	2.000
99312SIL	3.125	3.120	3.126	0.811	1.000	3.532	2.000
99307SIL	3.125	3.124	3.132	0.551	0.709	3.524	2.032
99313SIL	3.146	3.142	3.150	0.752	0.886	3.539	1.374
99317SIL	3.150	3.146	3.153	0.433	0.591	3.543	1.374
99315SIL	3.150	3.146	3.153	0.827	0.945	3.543	1.374
99328SIL	3.228	3.225	3.231	0.661	0.847	3.587	1.752
99322SIL	3.250	3.247	3.253	0.811	1.000	3.595	1.374
99324SIL	3.250	3.250	3.256	0.595	0.721	3.575	1.374
99326SIL	3.250	3.250	3.256	0.689	0.874	3.587	1.252
99325SIL	3.250	3.250	3.256	0.811	1.000	3.587	1.374
99331SIL	3.310	3.307	3.313	0.811	1.000	3.689	1.374
99332SIL	3.342	3.337	3.347	0.669	0.827	3.701	1.378
99333SIL	3.342	3.337	3.347	0.827	0.984	3.701	1.378
99334SIL	3.347	3.338	3.347	0.398	0.500	3.579	1.429
99338SIL	3.375	3.373	3.379	0.374	0.500	3.689	1.409
99337SIL	3.375	3.373	3.379	0.811	1.000	3.693	1.374
99339SIL	3.438	3.435	3.441	0.780	0.906	3.843	1.406
99340SIL	3.480	3.477	3.483	0.780	0.906	3.835	1.406
99346SIL	3.500	3.497	3.503	0.626	0.811	3.843	1.347
99348SIL	3.500	3.498	3.506	0.311	0.500	3.843	1.346
99347SIL	3.500	3.500	3.506	0.315	0.500	3.827	1.347
99350SIL	3.500	3.500	3.506	0.811	1.000	3.843	1.347
99349SIL	3.504	3.501	3.507	0.626	0.811	3.843	1.347
99352SIL	3.543	3.540	3.546	0.437	0.539	4.000	1.811
99353SIL	3.543	3.540	3.546	0.528	0.665	4.000	1.752
99351SIL	3.543	3.540	3.546	0.709	0.906	4.000	1.811
99354SIL	3.543	3.540	3.546	0.906	1.102	4.000	1.752
99356SIL	3.563	3.560	3.566	0.811	1.000	3.902	1.752
99360SIL	3.621	3.618	3.624	0.811	1.000	4.032	1.752
99362SIL	3.625	3.623	3.629	0.811	1.000	4.032	1.752
99363SIL	3.626	3.623	3.629	0.500	0.625	4.025	1.750
99368SIL	3.688	3.684	3.690	0.315	0.437	4.032	0.874
99365SIL	3.688	3.685	3.691	0.811	0.937	4.024	1.799
99359SIL	3.730	3.727	3.733	0.469	0.595	4.032	1.799
99366SIL	3.730	3.727	3.733	0.780	0.906	4.024	1.799
99369SIL	3.740	3.737	3.743	0.827	0.945	4.024	1.799
99374SIL	3.740	3.740	3.746	0.343	0.500	4.032	1.799
99364SIL	3.740	3.740	3.746	0.469	0.595	4.035	1.799
99376SIL	3.750	3.746	3.752	0.563	0.689	4.024	1.799
99367SIL	3.750	3.750	3.756	0.343	0.500	4.024	1.799
99372SIL	3.750	3.750	3.756	0.689	0.874	4.020	1.799

Reference Number	Dimensions in Inches						
	Nominal Shaft Diameter	"A" Shaft Diameter Minimum	"A" Shaft Diameter Maximum	"W" Width on Shaft ± 0.031 "	"O" Overall Width ± 0.031 "	"F" Flange Diameter ± 0.063 "	"E" Installation Depth
99386SIL	3.871	3.868	3.874	0.813	1.000	4.185	1.875
99387SIL	3.875	3.873	3.875	0.811	1.000	4.221	1.874
99393SIL	3.937	3.935	3.941	0.811	1.000	4.311	2.047
99401SIL	4.000	3.998	4.006	0.500	0.626	4.374	2.067
99395SIL	4.000	3.998	4.006	0.598	0.724	4.374	2.047
99400SIL	4.000	3.998	4.006	0.650	0.776	4.374	1.374
99399SIL	4.000	3.998	4.006	0.811	1.000	4.374	2.047
99409SIL	4.095	4.090	4.098	0.787	0.945	4.437	1.417
99412SIL	4.125	4.122	4.130	0.811	1.000	4.469	1.374
99413SIL	4.134	4.130	4.138	0.787	0.913	4.469	1.378
99418SIL	4.188	4.183	4.191	0.811	1.000	4.500	1.374
99423SIL	4.234	4.226	4.234	0.780	0.906	4.610	1.437
99424SIL	4.250	4.248	4.256	0.811	1.000	4.610	1.437
99435SIL	4.328	4.327	4.335	0.508	0.650	4.921	1.260
99434SIL	4.331	4.322	4.331	0.449	0.591	4.921	1.295
99437SIL	4.375	4.370	4.378	0.811	1.000	4.752	1.654
99438SIL	4.406	4.402	4.409	0.752	0.886	4.752	1.299
99439SIL	4.438	4.434	4.442	1.000	1.142	4.811	1.315
99450SIL	4.500	4.496	4.504	0.811	1.000	4.902	1.260
99452SIL	4.528	4.523	4.531	0.811	0.937	5.000	1.260
99465SIL	4.626	4.621	4.629	0.437	0.626	5.000	1.374
99463SIL	4.626	4.621	4.629	1.000	1.252	5.063	1.374
99468SIL	4.688	4.685	4.693	0.811	1.000	5.063	1.374
99471SIL	4.724	4.720	4.728	0.315	0.433	5.110	1.323
99473SIL	4.724	4.720	4.728	0.787	0.984	5.110	1.260
99475SIL	4.750	4.746	4.754	0.500	0.752	5.000	1.500
99472SIL	4.803	4.799	4.807	0.787	0.945	5.177	1.260
99484SIL	4.843	4.839	4.847	0.787	0.984	5.228	1.244
99487SIL	4.875	4.871	4.879	0.626	0.752	5.248	1.43
99490SIL	4.921	4.917	4.925	0.394	0.551	5.402	1.437
99492SIL	4.921	4.917	4.925	1.024	1.260	5.402	1.437
99438SIL	4.406	4.402	4.409	0.752	0.886	4.752	1.299
99501SIL	5.000	4.998	5.006	0.539	0.681	5.402	1.437
99498SIL	5.000	4.998	5.006	0.689	0.874	5.402	1.437
99499SIL	5.000	4.998	5.006	0.811	1.000	5.390	1.437
99494SIL	5.114	5.110	5.118	0.752	0.937	5.492	1.181
99491SIL	5.125	5.117	5.125	0.866	0.996	5.492	1.280
99513SIL	5.125	5.120	5.128	0.811	1.000	5.500	1.252
99525SIL	5.250	5.246	5.254	0.811	1.000	5.559	1.252
99533SIL	5.313	5.307	5.315	0.807	1.000	5.736	1.252
99537SIL	5.375	5.371	5.379	0.811	1.000	5.874	1.252
99548SIL	5.438	5.434	5.442	1.500	1.965	5.752	1.874

Reference Number	Dimensions in Inches						
	Nominal Shaft Diameter	"A" Shaft Diameter Minimum	"A" Shaft Diameter Maximum	"W" Width on Shaft ± 0.031 "	"O" Overall Width ± 0.031 "	"F" Flange Diameter ± 0.063 "	"E" Installation Depth
99547SIL	5.476	5.472	5.480	0.563	0.752	5.902	1.232
99550SIL	5.500	5.498	5.506	0.520	0.705	5.937	1.252
99549SIL	5.500	5.498	5.506	0.811	1.000	5.937	1.252
99552SIL	5.512	5.508	5.516	0.807	1.000	5.945	1.252
99560SIL	5.625	5.621	5.629	0.875	1.000	6.188	1.812
99571SIL	5.709	5.699	5.709	0.752	0.874	6.098	1.811
99562SIL	5.734	5.726	5.734	0.563	0.752	6.098	1.937
99575SIL	5.750	5.746	5.754	0.811	1.000	6.181	1.752
99587SIL	5.875	5.871	5.879	1.000	1.252	6.189	1.315
99595SIL	5.906	5.896	5.906	1.024	1.181	6.260	1.280
99596SIL	5.938	5.934	5.942	1.000	1.126	6.374	1.874
99601SIL	6.000	5.995	6.003	0.500	0.752	6.358	1.752
99599SIL	6.000	5.995	6.003	1.000	1.252	6.374	1.752
99605SIL	6.063	6.058	6.068	1.024	1.181	6.374	1.299
99606SIL	6.097	6.093	6.102	1.024	1.181	6.575	1.299
99620SIL	6.203	6.198	6.208	0.811	1.063	6.626	1.752
99625SIL	6.250	6.245	6.255	1.032	1.252	6.626	1.752
99630SIL	6.299	6.289	6.299	1.000	1.252	6.748	1.378
99650SIL	6.500	6.495	6.505	1.000	1.252	7.000	1.378
99640SIL	6.688	6.683	6.693	1.252	1.496	7.189	1.752
99675SIL	6.750	6.745	6.755	0.811	1.063	7.126	1.752
99687SIL	6.890	6.880	6.890	1.102	1.260	7.362	1.378
99700SIL	7.000	6.995	7.005	1.000	1.252	7.476	1.685
99721SIL	7.087	7.077	7.087	1.299	1.496	7.500	1.752
99725SIL	7.250	7.244	7.254	1.252	1.500	7.760	2.173
99726SIL	7.278	7.273	7.284	1.260	1.496	7.760	2.173
99745SIL	7.453	7.444	7.454	0.811	1.000	7.858	1.252
99750SIL	7.500	7.495	7.505	0.811	1.000	7.874	1.252
99775SIL	7.750	7.745	7.755	1.000	1.315	8.272	1.874
99787SIL	7.875	7.869	7.879	1.358	1.500	8.374	1.752
99799SIL	7.938	7.933	7.943	1.000	1.252	8.374	1.752
99800SIL	8.000	7.995	8.005	1.000	1.252	8.374	1.752



Reference Number	Dimensions in Inches						
	Nominal Shaft Diameter	"A" Shaft Diameter Minimum	"A" Shaft Diameter Maximum	"W" Width on Shaft ±0.8mm	"O" Overall Width ±0.8mm	"F" Flange Diameter ±1.6mm	"E" Installation Depth
99049SIL	12.00	11.91	12.07	5.99	8.41	15.49	47.63
99050SIL	12.70	12.65	12.75	6.35	8.74	15.49	50.80
99055SIL	14.00	13.89	14.00	6.35	9.93	19.05	46.51
99056SIL	14.30	14.22	14.38	6.35	9.93	19.05	46.51
99059SIL	15.01	14.96	15.06	5.00	8.99	19.05	47.29
99062SIL	15.88	15.82	15.93	7.95	10.31	19.05	50.80
99810SIL*	15.88	15.82	15.93	7.95	10.31	19.05	50.80
99058SIL	16.00	15.90	16.00	7.95	11.13	18.24	50.80
99068SIL	17.00	16.94	17.04	8.00	11.00	22.22	50.80
99060SIL	17.37	17.32	17.42	7.95	11.13	22.86	50.80
99082SIL	18.01	17.88	18.01	8.00	11.00	24.43	46.00
99076SIL	19.05	19.00	19.10	7.95	11.13	24.00	50.80
99811SIL*	19.05	19.00	19.10	7.95	11.13	24.00	50.80
99081SIL	19.30	19.28	19.33	7.95	11.13	23.83	50.80
99080SIL	19.84	19.81	19.91	7.95	11.13	23.75	50.80
99078SIL	20.00	19.94	20.04	8.00	11.00	23.62	50.80
99086SIL	21.82	21.77	21.87	6.35	9.52	29.34	50.80
99084SIL	22.00	21.87	22.00	6.58	9.12	30.18	47.14
99085SIL	22.00	21.87	22.00	8.00	11.99	30.18	46.02
99087SIL	22.22	22.17	22.28	7.95	11.13	27.79	50.80
99812SIL*	22.22	22.17	22.28	7.95	11.13	27.79	50.80
99091SIL	23.11	23.06	23.16	7.95	11.13	30.94	46.91
99860SIL*	23.11	23.06	23.16	7.95	11.13	30.94	46.91
99092SIL	24.00	23.88	24.00	7.95	11.13	28.70	50.80
99094SIL	24.61	24.54	24.64	7.95	11.13	28.70	50.80
99096SIL	24.61	24.54	24.64	15.88	18.26	28.70	50.80
99098SIL	25.00	24.94	25.04	7.95	11.00	33.02	50.80
99813SIL*	25.00	24.94	25.04	7.95	11.00	33.02	50.80
99100SIL	25.40	25.35	25.45	7.95	11.13	30.96	50.80
99814SIL*	25.40	25.35	25.45	7.95	11.13	30.96	50.80
99103SIL	26.01	25.88	26.01	8.00	11.99	33.35	46.05
99106SIL	27.00	26.92	27.03	7.95	11.13	33.53	46.81

Reference Number	Dimensions in Inches						
	Nominal Shaft Diameter	“A” Shaft Diameter Minimum	“A” Shaft Diameter Maximum	“W” Width on Shaft ±0.8mm	“O” Overall Width ±0.8mm	“F” Flange Diameter ±1.6mm	“E” Installation Depth
99815SIL*	27.00	26.92	27.03	7.95	11.13	33.53	46.81
99108SIL	27.66	27.61	27.71	7.95	11.13	35.71	15.88
99111SIL	28.00	27.94	28.04	9.52	12.70	34.92	46.81
99866SIL*	28.00	27.94	28.04	9.52	12.70	34.92	46.81
99112SIL	28.57	28.52	28.63	7.95	11.13	38.10	17.48
99116SIL	28.57	28.52	28.63	9.52	12.70	38.10	17.48
99816SIL*	28.57	28.52	28.63	7.95	11.13	38.10	17.48
99120SIL	29.36	29.31	29.41	9.52	12.70	34.29	17.48
99122SIL	29.84	29.79	29.92	7.95	11.13	35.56	17.48
99114SIL	30.00	29.95	30.07	8.00	11.00	35.56	17.48
99118SIL	30.18	30.10	30.23	7.95	11.13	35.56	17.48
99123SIL	30.96	30.89	31.04	7.95	11.00	39.70	15.88
99141SIL	31.50	31.42	31.57	8.00	11.13	39.12	17.48
99125SIL	31.75	31.67	31.83	7.95	11.13	38.10	17.48
99817SIL*	31.75	31.67	31.83	7.95	11.13	38.10	17.48
99128SIL	32.00	31.93	32.08	8.00	11.13	38.10	17.48
99121SIL	33.00	32.94	33.05	15.01	18.01	40.49	25.40
99129SIL	33.35	33.22	33.38	6.35	9.52	40.64	20.65
99131SIL	33.35	33.27	33.43	12.70	15.88	40.49	20.65
99818SIL*	33.35	33.27	33.43	12.70	15.88	40.49	20.65
99134SIL	34.01	33.86	34.01	12.70	15.88	41.27	20.65
99133SIL	34.92	34.82	34.98	7.95	11.13	41.61	20.65
99138SIL	34.92	34.82	34.98	12.70	15.88	41.61	20.65
99819SIL*	34.92	34.82	34.98	12.70	15.88	41.61	20.65
99139SIL	34.92	34.92	35.08	13.00	16.00	41.61	20.65
99820SIL*	34.92	34.92	35.08	13.00	16.00	41.61	20.65
99146SIL	36.00	35.84	35.99	13.00	16.99	45.24	24.99
99143SIL	36.53	36.37	36.53	14.30	17.48	45.24	25.81
99821SIL*	36.53	36.37	36.53	14.30	17.48	45.24	25.81
99144SIL	36.53	36.45	36.60	9.52	12.70	45.24	25.81
99147SIL	38.00	37.85	38.00	13.00	16.99	45.24	24.99
99149SIL	38.10	38.02	38.18	14.30	17.48	45.24	25.81
99150SIL	38.10	38.02	38.18	9.52	12.70	45.24	25.81
99822SIL*	38.10	38.02	38.18	14.30	17.48	45.24	25.81
99823SIL*	38.10	38.02	38.18	9.52	12.70	45.24	25.81
99152SIL	38.68	38.61	38.76	11.13	14.30	47.22	25.81
99155SIL	39.42	39.34	39.50	11.13	14.30	47.22	25.81
99156SIL	39.70	39.60	39.75	14.30	17.48	47.22	25.81
99824SIL*	39.70	39.60	39.75	14.30	17.48	47.22	25.81
99159SIL	39.85	39.78	39.93	15.88	19.05	47.22	25.81
99153SIL	40.00	39.85	40.00	9.91	12.93	46.99	25.40
99157SIL	40.08	39.93	40.08	13.00	16.00	46.99	25.98

Reference Number	Dimensions in Inches						
	Nominal Shaft Diameter	“A” Shaft Diameter Minimum	“A” Shaft Diameter Maximum	“W” Width on Shaft ±0.8mm	“O” Overall Width ±0.8mm	“F” Flange Diameter ±1.6mm	“E” Installation Depth
99825SIL*	40.08	39.93	40.08	13.00	16.00	46.99	25.98
99160SIL	40.77	40.69	40.84	12.70	16.28	49.23	25.40
99163SIL	41.00	40.84	41.00	12.70	15.88	49.23	25.81
99161SIL	41.27	41.20	41.35	7.95	11.13	47.63	25.81
99162SIL	41.27	41.20	41.35	14.30	17.48	47.63	20.65
99826SIL*	41.27	41.20	41.35	14.30	17.48	47.63	20.65
99166SIL	41.91	41.83	42.01	11.30	14.50	53.01	21.49
99169SIL	41.91	41.83	42.01	14.30	17.50	53.01	21.01
99165SIL	42.06	41.99	42.14	13.97	17.50	53.01	21.01
99168SIL	42.88	42.77	42.93	14.30	17.48	48.41	22.22
99167SIL	42.88	42.80	42.95	7.95	11.13	48.41	22.22
99182SIL	43.00	42.85	43.00	12.70	15.88	48.41	21.44
99171SIL	43.66	43.56	43.71	14.30	17.48	51.59	20.65
99170SIL	44.17	44.09	44.25	9.52	12.70	52.40	20.65
99172SIL	44.45	44.37	44.53	9.52	12.70	52.20	20.65
99174SIL	44.45	44.37	44.53	14.30	17.48	52.40	20.65
99175SIL	44.45	44.37	44.53	19.05	22.22	52.40	20.65
99180SIL	44.45	44.37	44.53	13.49	15.88	52.40	22.30
99827SIL*	44.45	44.37	44.53	14.30	17.48	52.40	20.65
99828SIL*	44.45	44.37	44.53	19.05	22.22	52.40	20.65
99176SIL	44.86	44.73	44.88	14.30	17.48	52.40	20.65
99829SIL*	44.86	44.73	44.88	14.30	17.48	52.40	20.65
99177SIL	45.01	44.93	45.08	14.00	16.99	53.01	20.62
99830SIL*	45.01	44.93	45.08	14.00	16.99	53.01	20.62
99179SIL	45.24	45.16	45.31	16.94	20.32	53.97	26.97
99181SIL	46.05	45.95	46.10	14.30	17.48	53.09	25.40
99831SIL*	46.05	45.95	46.10	14.30	17.48	53.09	25.40
99185SIL	47.22	47.17	47.32	14.30	17.48	54.76	25.40
99186SIL	47.45	47.40	47.55	22.58	26.03	55.58	25.40
99184SIL	47.63	47.55	47.70	9.52	13.11	55.96	26.67
99187SIL	47.63	47.55	47.70	14.30	17.48	55.96	25.40
99188SIL	47.63	47.55	47.70	7.49	10.54	55.96	18.90
99190SIL	47.63	47.55	47.70	4.44	7.49	55.96	18.90
99832SIL*	47.63	47.55	47.70	14.30	17.48	55.96	25.40
99189SIL	48.03	47.93	48.08	14.00	16.97	56.01	24.99
99192SIL	48.56	48.49	48.64	9.52	12.70	56.36	25.40
99193SIL	49.23	49.12	49.28	14.30	17.48	56.36	25.40
99833SIL*	49.23	49.12	49.28	14.30	17.48	56.36	25.40
99196SIL	50.01	49.91	50.06	14.00	16.97	57.00	24.99
99198SIL	50.29	50.22	50.37	14.30	17.88	58.75	26.67
99199SIL	50.80	50.72	50.88	14.30	17.48	61.11	25.40
99200SIL	50.80	50.72	50.88	22.22	25.40	61.11	25.40

Reference Number	Dimensions in Inches						
	Nominal Shaft Diameter	“A” Shaft Diameter Minimum	“A” Shaft Diameter Maximum	“W” Width on Shaft ±0.8mm	“O” Overall Width ±0.8mm	“F” Flange Diameter ±1.6mm	“E” Installation Depth
99834SIL*	50.80	50.72	50.88	14.30	17.48	61.11	25.55
99835SIL*	50.80	50.72	50.88	22.22	25.40	61.11	25.40
99204SIL	52.00	51.82	51.99	12.70	15.88	62.71	34.52
99205SIL	52.40	52.25	52.40	19.84	23.83	62.71	34.92
99210SIL	53.97	53.92	54.05	12.70	19.05	61.52	32.54
99212SIL	53.97	53.95	54.10	19.84	23.83	61.52	34.92
99836SIL*	53.97	53.95	54.10	19.84	23.83	61.52	34.92
99863SIL*	54.99	54.91	55.09	19.99	22.99	62.00	31.75
99215SIL	55.00	54.91	55.07	19.99	22.99	62.00	31.75
99218SIL	55.58	55.52	55.68	19.84	23.83	63.50	33.35
99224SIL	56.01	55.83	56.01	19.79	23.77	64.29	80.01
99220SIL	56.01	55.83	56.01	12.70	15.88	64.29	33.35
99229SIL	56.64	56.57	56.72	12.70	15.88	64.29	33.35
99230SIL	56.64	56.57	56.72	19.84	23.01	64.29	31.75
99226SIL	56.90	56.82	56.97	19.41	22.86	65.10	31.75
99225SIL	57.15	57.12	57.28	19.84	23.83	64.29	33.35
99227SIL	57.15	57.12	57.28	7.95	11.13	64.29	33.35
99837SIL*	57.15	57.12	57.28	19.84	23.83	64.29	33.35
99838SIL*	57.15	57.12	57.28	7.95	11.13	64.29	33.35
99219SIL	58.00	57.91	58.06	19.99	23.83	65.99	34.92
99231SIL	58.75	58.65	58.80	19.84	23.83	68.28	34.92
99233SIL	59.13	59.11	59.26	19.05	22.22	69.85	38.10
99235SIL	60.00	59.92	60.07	19.99	22.99	70.74	34.92
99241SIL	60.00	59.92	60.07	9.40	11.43	70.74	37.36
99238SIL	60.32	60.25	60.40	15.09	19.05	69.85	34.92
99237SIL	60.32	60.30	60.45	19.84	23.83	69.85	34.92
99240SIL	60.32	60.30	60.45	13.36	17.35	69.85	34.92
99839SIL*	60.32	60.30	60.45	19.84	23.83	69.85	34.92
99243SIL	61.93	61.82	61.98	19.84	23.83	71.83	35.38
99242SIL	61.93	61.85	62.00	12.70	15.88	71.83	36.20
99244SIL	62.00	61.82	62.00	12.70	15.88	71.83	36.20
99249SIL	63.30	63.22	63.37	19.84	23.83	73.02	35.38
99253SIL	63.50	63.42	63.58	14.10	16.51	71.63	22.61
99248SIL	63.50	63.50	63.65	12.70	16.66	71.83	35.38
99250SIL	63.50	63.50	63.65	19.84	23.83	71.63	34.92
99840SIL*	63.50	63.50	63.65	19.84	23.83	71.63	34.92
99251SIL	63.91	63.75	63.91	19.84	23.01	71.83	36.53
99254SIL	65.00	64.92	65.07	19.99	22.99	72.39	34.92
99841SIL*	65.00	64.92	65.07	19.99	22.99	72.39	34.92
99256SIL	65.10	65.02	65.18	19.84	23.83	73.43	34.92
99259SIL	66.00	65.91	66.07	19.84	23.83	75.95	31.75
99261SIL	66.57	66.50	66.65	19.84	23.83	77.39	34.92

Reference Number	Dimensions in Inches						
	Nominal Shaft Diameter	“A” Shaft Diameter Minimum	“A” Shaft Diameter Maximum	“W” Width on Shaft ±0.8mm	“O” Overall Width ±0.8mm	“F” Flange Diameter ±1.6mm	“E” Installation Depth
99264SIL	66.67	66.57	66.73	19.84	23.01	77.39	34.92
99260SIL	66.67	66.60	66.75	12.70	15.88	77.39	34.92
99262SIL	66.67	66.67	66.83	19.84	23.83	77.39	34.92
99842SIL*	66.67	66.67	66.83	19.84	23.83	77.39	34.92
99266SIL	68.00	67.82	68.00	19.05	22.22	79.38	42.88
99268SIL	69.34	69.27	69.42	19.84	23.01	79.38	33.35
99273SIL	69.67	69.60	69.75	19.84	23.83	77.85	31.75
99274SIL	69.85	69.72	69.88	19.84	23.83	79.38	31.75
99843SIL*	69.85	69.72	69.88	19.84	23.83	79.38	31.75
99267SIL	69.85	69.77	69.93	36.53	41.27	78.11	41.27
99269SIL	69.85	69.85	70.00	28.57	31.75	79.38	33.32
99272SIL	69.85	69.85	70.00	10.31	14.30	79.38	31.75
99275SIL	69.85	69.85	70.00	19.84	23.83	79.38	31.75
99844SIL*	69.85	69.85	70.00	19.84	23.83	79.38	31.75
99276SIL	70.00	69.93	70.08	19.99	24.00	79.38	31.75
99281SIL	71.45	71.35	71.50	15.09	17.48	80.98	31.75
99284SIL	72.01	71.83	72.01	19.05	22.22	81.91	34.11
99282SIL	72.09	72.09	72.24	12.70	16.66	81.91	31.75
99845SIL*	72.09	72.09	72.24	12.70	16.66	81.91	31.75
99286SIL	72.87	72.80	72.95	19.84	23.83	80.98	31.75
99287SIL	73.02	72.97	73.13	19.84	23.83	81.76	31.75
99846SIL*	73.02	72.97	73.13	19.84	23.83	81.76	31.75
99290SIL	74.63	74.60	74.75	12.70	16.28	84.94	33.81
99293SIL	74.63	74.60	74.75	19.84	23.83	84.94	33.35
99847SIL*	74.63	74.60	74.75	19.84	23.83	84.94	33.35
99289SIL	75.01	74.93	75.08	15.09	17.53	83.13	27.51
99294SIL	75.01	74.93	75.08	22.00	26.01	83.95	33.35
99292SIL	75.54	75.49	75.59	20.65	25.40	82.17	31.75
99291SIL	76.02	75.95	76.10	12.29	15.88	85.32	33.81
99298SIL	76.02	75.95	76.10	14.30	17.48	85.32	34.92
99299SIL	76.02	75.95	76.10	20.65	25.40	85.09	32.54
99296SIL	76.20	76.12	76.28	20.65	23.83	82.30	34.92
99300SIL	76.20	76.20	76.35	20.65	25.40	82.17	32.54
99303SIL	76.20	76.20	76.35	15.88	20.65	84.96	32.51
99848SIL*	76.20	76.20	76.35	20.65	25.40	82.17	32.54
99301SIL	76.48	76.40	76.56	12.70	15.88	85.22	50.80
99306SIL	78.00	77.83	78.00	19.05	22.22	88.09	52.22
99311SIL	79.38	79.25	79.40	17.48	20.65	89.69	50.80
99312SIL	79.38	79.25	79.40	20.65	25.40	89.69	50.80
99849SIL*	79.38	79.25	79.40	20.65	25.40	89.69	50.80
99307SIL	79.38	79.35	79.55	14.00	18.01	89.53	51.59
99313SIL	80.01	79.81	80.01	19.05	22.50	89.92	34.92

Reference Number	Dimensions in Inches						
	Nominal Shaft Diameter	“A” Shaft Diameter Minimum	“A” Shaft Diameter Maximum	“W” Width on Shaft ±0.8mm	“O” Overall Width ±0.8mm	“F” Flange Diameter ±1.6mm	“E” Installation Depth
99315SIL	80.01	79.91	80.09	21.01	24.00	89.99	34.92
99317SIL	80.01	79.91	80.09	11.00	15.01	89.99	34.92
99328SIL	81.99	81.91	82.07	16.76	21.54	91.06	44.45
99322SIL	82.55	82.47	82.63	20.65	25.40	91.29	34.92
99324SIL	82.55	82.55	82.70	15.11	18.26	90.80	34.92
99325SIL	82.55	82.55	82.70	20.65	25.40	91.06	34.92
99326SIL	82.55	82.55	82.70	17.48	22.22	91.06	31.75
99850SIL*	82.55	82.55	82.70	15.11	18.26	90.80	34.92
99851SIL*	82.55	82.55	82.70	20.65	25.40	91.06	34.92
99331SIL	84.07	84.00	84.15	20.65	25.40	93.68	34.92
99332SIL	84.89	84.76	85.01	16.99	21.01	93.98	35.00
99333SIL	84.89	84.76	85.01	21.01	24.99	93.98	35.00
99334SIL	85.00	84.79	84.99	10.13	12.67	90.93	36.35
99337SIL	85.72	85.67	85.83	20.65	25.40	93.85	34.92
99338SIL	85.72	85.67	85.83	9.52	12.70	93.68	35.81
99339SIL	87.33	87.25	87.40	19.84	23.01	97.64	35.71
99340SIL	88.39	88.32	88.47	19.84	23.01	97.41	35.71
99346SIL	88.90	88.82	88.98	15.88	20.65	97.64	34.21
99347SIL	88.90	88.90	89.05	7.95	12.70	97.16	34.21
99350SIL	88.90	88.90	89.05	20.65	25.40	97.64	34.21
99852SIL*	88.90	88.90	89.05	20.65	25.40	97.64	34.21
99349SIL	89.00	88.93	89.08	15.88	20.65	97.64	34.24
99351SIL	90.00	89.92	90.07	18.03	23.01	101.60	46.05
99352SIL	90.00	89.92	90.07	11.13	13.67	101.60	46.05
99353SIL	90.00	89.92	90.07	13.36	16.94	101.60	44.45
99354SIL	90.00	89.92	90.07	23.01	27.99	101.60	44.45
99356SIL	90.50	90.42	90.58	20.65	25.40	99.06	44.45
99360SIL	91.97	91.90	92.05	20.65	25.40	102.39	44.45
99362SIL	92.07	92.02	92.18	20.65	25.40	102.39	44.45
99363SIL	92.07	92.02	92.18	12.70	15.88	102.24	44.45
99368SIL	93.68	93.57	93.73	7.95	11.13	102.39	22.22
99365SIL	93.68	93.60	93.75	20.65	23.83	102.24	45.72
99359SIL	94.74	94.67	94.82	11.91	15.09	102.01	45.72
99366SIL	94.74	94.67	94.82	19.84	23.01	102.24	45.72
99369SIL	95.00	94.92	95.07	21.01	24.00	102.24	45.72
99364SIL	95.07	95.00	95.15	11.91	15.09	102.49	45.72
99374SIL	95.07	95.00	95.15	8.74	12.70	102.39	45.72
99376SIL	95.22	95.15	95.30	14.30	17.48	102.24	45.72
99853SIL*	95.25	95.25	95.40	17.48	22.22	102.11	45.72
99367SIL	95.33	95.25	95.40	8.74	12.70	102.24	45.72
99372SIL	95.33	95.25	95.40	17.48	22.22	102.11	45.72
99386SIL	98.32	98.25	98.40	20.65	25.40	106.30	47.63

Reference Number	Dimensions in Inches						
	Nominal Shaft Diameter	“A” Shaft Diameter Minimum	“A” Shaft Diameter Maximum	“W” Width on Shaft ±0.8mm	“O” Overall Width ±0.8mm	“F” Flange Diameter ±1.6mm	“E” Installation Depth
99387SIL	98.42	98.37	98.53	20.65	25.40	107.16	47.63
99393SIL	100.03	99.95	100.10	20.65	25.40	109.55	52.07
99854SIL*	100.03	99.95	100.10	20.65	25.40	109.55	52.07
99395SIL	101.60	101.55	101.75	15.24	18.41	111.13	52.07
99399SIL	101.60	101.55	101.75	20.65	25.40	111.13	52.07
99400SIL	101.60	101.55	101.75	16.51	19.68	111.13	34.92
99401SIL	101.60	101.55	101.75	12.70	15.88	111.13	52.48
99855SIL*	101.60	101.55	101.75	20.65	25.40	111.13	52.07
99409SIL	104.00	103.89	104.09	19.99	24.00	112.73	35.99
99412SIL	104.77	104.70	104.90	20.65	25.40	113.54	34.92
99413SIL	105.00	104.90	105.11	19.99	23.19	113.54	35.00
99418SIL	106.38	106.25	106.45	20.65	25.40	114.30	34.92
99423SIL	107.54	107.34	107.54	19.84	23.01	117.09	36.53
99424SIL	107.95	107.90	108.10	20.65	25.40	117.09	36.53
99435SIL	109.93	109.91	110.11	12.93	16.51	124.99	31.75
99434SIL	110.01	109.78	110.01	11.38	14.96	124.99	32.94
99437SIL	111.13	111.00	111.20	20.65	25.40	120.65	41.91
99438SIL	112.00	111.79	111.99	19.05	22.50	120.65	33.02
99439SIL	112.73	112.62	112.83	25.40	29.01	122.25	33.35
99450SIL	114.30	114.20	114.40	20.65	25.40	123.19	31.75
99856SIL*	114.30	114.20	114.40	20.65	25.40	124.46	31.75
99452SIL	115.01	114.88	115.09	20.65	23.83	127.00	31.75
99463SIL	117.47	117.37	117.58	25.40	31.75	128.60	34.92
99465SIL	117.47	117.37	117.58	11.13	15.88	127.00	34.92
99468SIL	119.08	119.00	119.20	20.65	25.40	128.60	34.92
99471SIL	120.00	119.89	120.09	8.00	11.00	129.79	33.60
99473SIL	120.00	119.89	120.09	19.99	24.99	129.79	32.00
99475SIL	120.65	120.55	120.75	12.70	19.05	127.00	38.10
99472SIL	122.00	121.89	122.10	19.99	24.00	131.50	32.00
99484SIL	123.01	122.91	123.11	19.99	24.99	132.82	31.60
99487SIL	123.82	123.72	123.93	15.88	19.05	133.35	36.53
99490SIL	125.00	124.89	125.09	10.01	14.00	137.16	36.53
99492SIL	125.00	124.89	125.09	26.01	32.00	137.16	36.53
99498SIL	127.00	126.95	127.15	17.48	22.22	137.16	36.53
99499SIL	127.00	126.95	127.15	20.65	25.40	136.91	36.53
99501SIL	127.00	126.95	127.15	13.72	17.30	137.16	36.53
99857SIL*	127.00	126.95	127.15	17.48	22.22	137.16	36.53
99858SIL*	127.00	126.95	127.15	20.65	25.40	136.91	36.53
99494SIL	129.90	129.79	130.00	19.05	23.83	139.52	30.00
99491SIL	130.17	129.97	130.17	22.00	25.30	139.52	32.51
99513SIL	130.17	130.05	130.25	20.65	25.40	139.70	31.75
99525SIL	133.35	133.25	133.45	20.65	25.40	141.22	31.75

Reference Number	Dimensions in Inches						
	Nominal Shaft Diameter	“A” Shaft Diameter Minimum	“A” Shaft Diameter Maximum	“W” Width on Shaft ±0.8mm	“O” Overall Width ±0.8mm	“F” Flange Diameter ±1.6mm	“E” Installation Depth
99533SIL	134.90	134.80	135.00	20.50	25.40	145.67	31.75
99537SIL	136.53	136.42	136.63	20.65	25.40	149.22	31.75
99548SIL	138.13	138.02	138.23	38.10	42.88	146.05	47.63
99547SIL	139.09	138.99	139.19	14.30	19.05	149.86	31.34
99549SIL	139.70	139.65	139.85	20.65	25.40	150.83	31.75
99550SIL	139.70	139.65	139.85	13.16	17.91	150.83	31.75
99859SIL*	139.70	139.65	139.85	20.65	25.40	150.83	31.75
99552SIL	140.00	139.90	140.11	20.50	25.40	151.00	31.75
99560SIL	142.88	142.77	142.98	22.22	25.40	157.18	46.02
99571SIL	145.01	144.75	145.01	19.05	22.22	154.94	46.02
99562SIL	145.64	145.44	145.64	14.30	19.05	154.94	49.23
99575SIL	146.05	145.95	146.15	20.65	25.40	156.97	44.45
99587SIL	149.22	149.12	149.33	25.40	31.75	157.18	33.35
99862SIL*	149.22	149.12	149.33	25.40	31.75	157.18	33.35
99595SIL	149.99	149.76	150.01	26.01	30.00	159.00	32.51
99596SIL	150.83	150.72	150.93	25.40	28.57	161.92	47.63
99599SIL	152.40	152.27	152.48	25.40	31.75	161.92	44.45
99601SIL	152.40	152.27	152.48	12.70	19.05	161.54	44.45
99605SIL	154.00	153.87	154.13	26.01	30.00	161.92	32.99
99606SIL	154.86	154.74	154.99	26.01	30.00	167.01	32.99
99620SIL	157.56	157.43	157.68	20.65	27.00	168.27	44.45
99625SIL	158.75	158.62	158.88	26.19	31.75	168.27	44.45
99630SIL	160.00	159.74	159.99	25.40	31.75	171.45	34.92
99650SIL	165.10	164.97	165.23	25.40	31.75	177.80	34.92
99640SIL	169.88	169.75	170.00	31.75	38.00	182.58	44.45
99675SIL	171.45	171.32	171.58	20.65	27.00	180.97	44.45
99687SIL	175.01	174.75	175.01	27.99	32.00	186.99	35.00
99700SIL	177.80	177.67	177.93	25.40	31.75	189.86	42.88
99721SIL	180.01	179.76	180.01	32.99	38.00	190.50	44.50
99725SIL	184.15	184.00	184.25	31.75	38.10	197.10	55.24
99726SIL	184.86	184.73	184.99	32.00	38.00	197.10	54.99
99745SIL	189.31	189.08	189.33	20.65	25.40	199.64	31.75
99750SIL	190.50	190.37	190.63	20.65	25.40	200.02	31.75
99775SIL	196.85	196.72	196.98	25.40	33.35	210.06	47.63
99787SIL	200.02	199.87	200.13	34.52	38.10	212.72	44.45
99799SIL	201.63	201.50	201.75	25.40	31.75	212.72	44.45
99800SIL	203.20	203.07	203.33	25.40	31.75	212.72	44.45