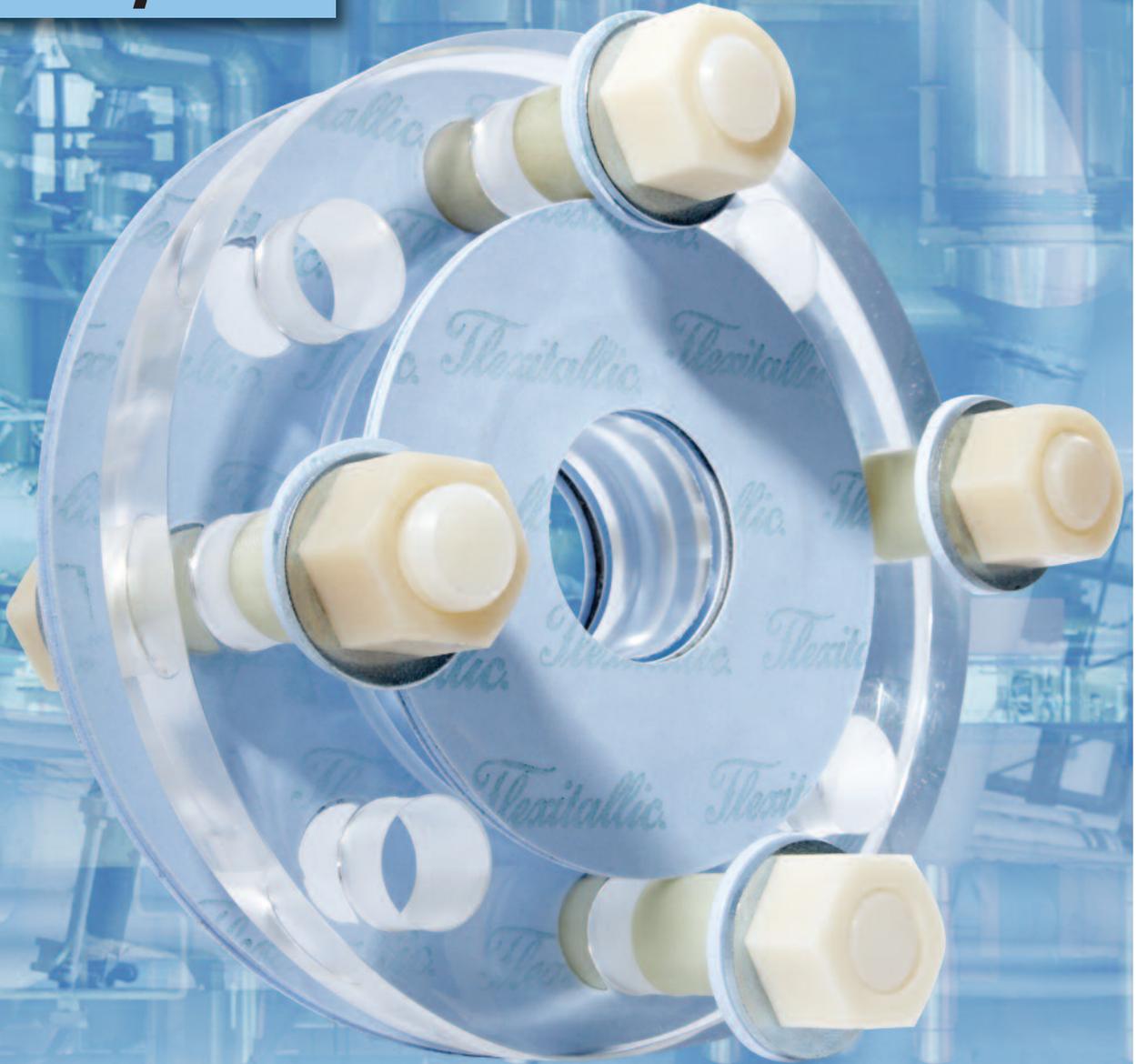


I-Flex

Isolation System



Flexitallic®
Global leader in Sealing Technology

www.i-flexgasket.com

I-Flex Isolation System



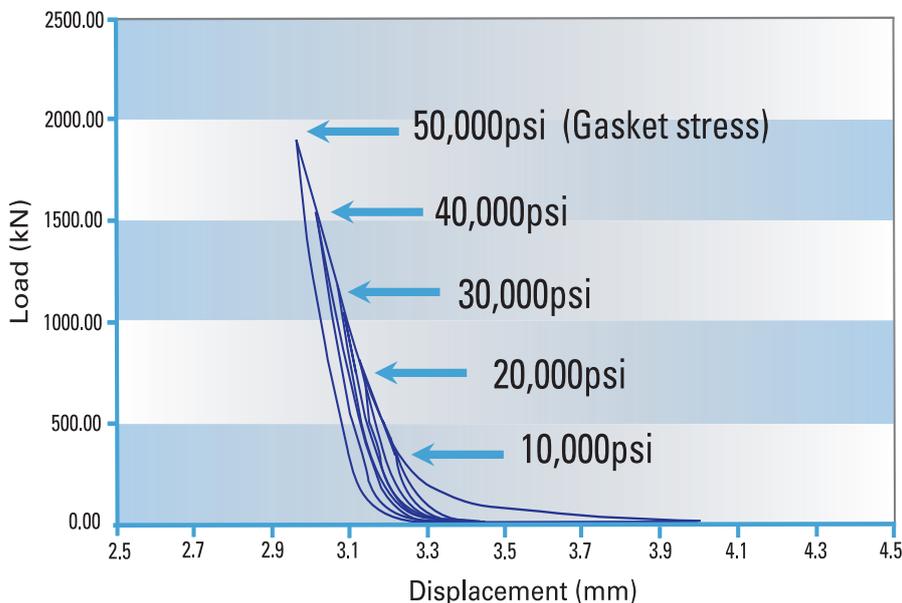
I-Flex electrical isolation systems are comprised of a main isolation gasket in combination with bolt isolation washers and sleeves. The main gasket is constructed from solid metallic core machined on upper and lower contact surfaces with Flexitallic's specially designed serration profile. The core surfaces are faced with structurally modified PTFE based on Flexitallic's proprietary Sigma® technology.

Bolt isolation is achieved by using a smaller version of the main isolation gasket located between the flange and a steel backing washer/nut at both ends of the stud bolt; thus preventing electrical continuity via the studs. Bolt sleeves can be supplied in a number of materials; the main consideration being application temperature.

The specially engineered materials used in I-Flex are able to extend the current operating temperatures seen with traditional isolation technology. This allows designers and operators greater choice in service conditions, no longer restricted by traditional sealing technology.

I-Flex load displacement characteristics

I-Flex gaskets exhibit excellent compression and recovery characteristics over a wide range of gasket stresses. The I-Flex gasket is capable of withstanding very high compressive loads while maintaining electrical isolation.



Service Parameters

Service Temperature Range

-260°C to 260°C

Service Pressure Range

up to and including Asme B16.5 2500lb

Chemical compatibility

pH range 0-14
Strong oxidising and reducing agents



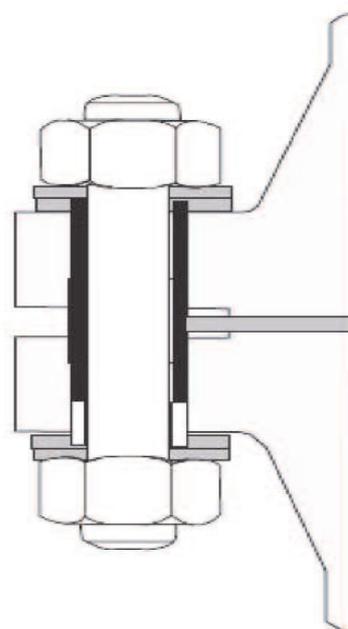
Product Benefits

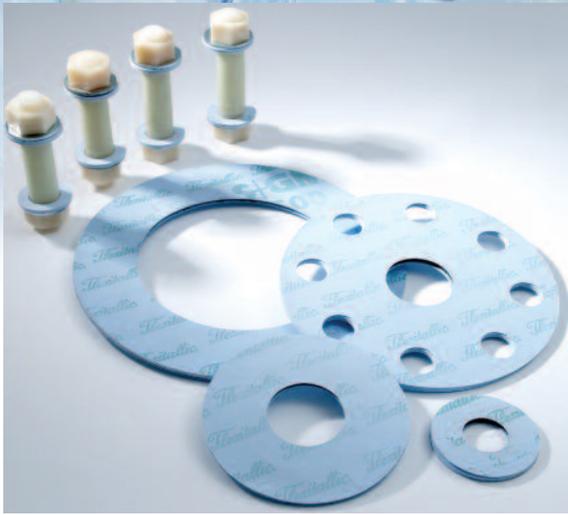
- Flange Isolation—Ideal as part of a cathodic protection system.
- Eliminates galvanic corrosion when using dissimilar metallurgy.
- Can operate in conditions up to 260°C.
- Improved sealing capability on damaged or corroded sealing surfaces.
- Flexitallic's Sigma® technology increases the scope of application temperatures, pressures and chemical compatibility.



Typical Applications

- Cathodic corrosion mitigation—asset management
- Galvanic corrosion mitigation—dissimilar metals
- Exploration and subsea—sour and acid service
- Refineries—High temperature service
- Liquefied natural gas—liquefaction, gasification, loading and unloading facilities on cryogenic service
- Gas distribution systems
- Aggressive chemical media acids and alkalis
- Damaged flanges—corrosion, deformed ring joint grooves





THE FLEXITALLIC GROUP

The Flexitallic Group is the international market leader in the manufacture and supply of high quality, high value industrial static sealing solutions.

Developer of the spiral wound gasket in 1912 in the US, Flexitallic® continues its legacy of innovation with sealing materials such as Thermiculite® and Sigma®.

In 1998 Flexitallic set a new standard for sealing technology with the introduction of Thermiculite® gasket material. Thermiculite® is now available as tanged sheet, filler material for spiral wound gaskets and as a facing on kammprofile gaskets. This material solves numerous end user problems, particularly those with high temperature processes where traditional sealing materials fail. Thermiculite Critical Service materials are rated for temperatures up to 1000°C and pass the API 607 fire test.

Flexitallic's global customer service network of owned manufacturing facilities, licensees and global distribution network ensure local demand is met quickly, with a combination of the highest product quality and customer service.

With a varied product offering that includes spiral wound gaskets, semi-metallic gaskets, RTJ gaskets, Flexpro™, sheet gaskets, and dynamic and static packings, The Flexitallic Group draws upon its past and present day mixture of leadership, quality, service and technology to develop sealing.

The I-Flex Isolation System consists of:

- Isolation Gasket 1 piece
- One full length isolating sleeve 1 piece per flange bolt
- Isolating washers 2 piece's per flange bolt
- Metallic backing washers 2 piece's per flange bolt

For further information
please refer to
www.i-flexgasket.com

Allied Distributor



Flexitallic

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I-Flex Isolation System