

FLEXITALLIC I-FLEX HP FLANGE INSULATION SET



The Flexitallic I-Flex High Pressure (HP) Flange Isolation Set is comprised of an Isolation Gasket, Isolation Sleeves, Isolation Washers and Metal Washers.

The Insulating Gasket has a grooved metal core with unique profile and Sigma® 500 spacer ring and Sigma® 500 facings.
The facing material is not limited to SIGMA® 500.

Colour: Blue

Service

The Flexitallic I-Flex gasket is capable of effecting a seal over a wide range of applied stress making the product suitable for use in an extensive range of standard and non-standard bolted connections.

Soft compressive facing materials and a relatively wide sealing face make the product more robust with regard to use on a wide range of flange sealing face conditions when compared with 'O' Ring and/or spring energised based gasket insulation technology.

Maximum Flange pressure class: 2500 Class ASME 16.5, ASME 16.47 and 5000 Class API 6A

The SIGMA® 500 material is suitable for sealing all chemicals across the whole pH range (0-14) with the exception of molten alkali metals, fluorine gas or hydrogen fluoride.

The metallic core of the Insulating Gasket is selected to suit the application. If required, NACE compliance metals can be supplied.

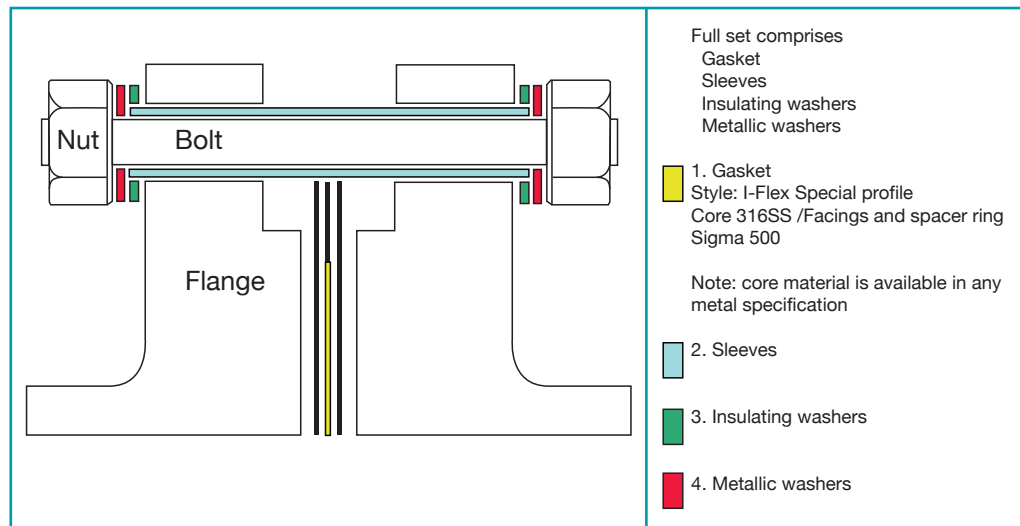
The insulating gasket and washers have been designed and developed for use in pipelines that require cathodic protection. This special design exceeds the requirements of 'Saudi Aramco Std. 02-SAMSS-010'.

Sealing performance for high pressure flanged connections ie. ASME B16.5 class 2500 pressure systems, has been independently verified for ambient and maximum temperature/pressure combinations. Additional information is available on request.

Insulating Gasket Properties:

Core Thickness	2.5mm to 4mm
Facing Thickness	0.75mm (x2)
Gasket Factor (m)	2.00
Min Design Seating Stress (y)	2,500 psi
Minimum Temperature	-200°C

Maximum Temperature	260°C
Dielectric Strength	9.8 kV/mm



Insulating Sleeves / Tubes – Thermal / Dielectric Properties

G10	– Temperature Range	150°C
G10	– Dielectric Strength	19.7 kV/mm
Mylar	– Maximum Temperature	149°C
Mylar	– Dielectric Strength	15.8 kV/mm
Phenolic	– Temperature Range	100°C
Phenolic	– Dielectric Strength	19 kV/mm
Nomex	– Maximum Temperature	232°C
Nomex	– Dielectric Strength	19.7 kV/mm

Insulating Washers - Thermal / Dielectric Properties

G10	– Temperature Range	150°C
G10	– Dielectric Strength	19.5 kV/mm

Phenolic	– Temperature Range	100°C
Phenolic	– Dielectric Strength	19 kV/mm

(Note: We would offer G10 as standard if not specified by the customer)

Metallic Backing Washers

Stainless Steel 316 (as standard) 3mm thk.

(Note: Other metals can be provided to suit the application)

The Standard I-Flex Set comprises of the following components

I-Flex Insulating Gasket	1 pc – up to 2500 class ASME 16.5
	– 5000 class API 6A
G10 Insulating Sleeves	1 pc per flange bolt
G10 Insulating Washers	2 pc's per flange bolt
Backing Washers 316SS	2 pc's per flange bolt

Maximum temperature: 150°C

Please contact the Seaco Applications Engineering Team when specific operating parameters requires confirmation of appropriate materials.

Waranty exclusion

In view of the variety of different installation and operation conditions as well as application and process engineering options, the information given in this datasheet can only provide approximate guidance and cannot be used as basis for warranty claims.