

Flange isolation kits

Flange Isolation Gasket Kits are designed to maintain the integrity and reliability of the pipeline and piping system through safety and corrosion protection. By eliminating metal to metal contact, static current is halted to prevent corrosion and aid in the Cathodic Protection of the piping system. Flange Isolation Gasket Kits provide both an effective seal and reliable electrical isolation of flanges.

Constructed of high quality materials that have a high dielectric constant and low water absorption, our Flange Isolation Gasket Kits are available in various configurations to meet every possible need. We offer Flange Isolation Gasket Kits in all sizes, in all DIN, ASME and API classes. Custom and special sizes are also available upon request.

Gasket kit types

Type F (Raised Face)

This gasket will fit only the raised face surface of the flanges. The outside diameter of the gasket is slightly less than the inside diameter of the bolt circle. This gasket can be used on both raised face and full face flanges. Type F gaskets are available in, neoprene-faced phenolic, and high temperature materials (see below).

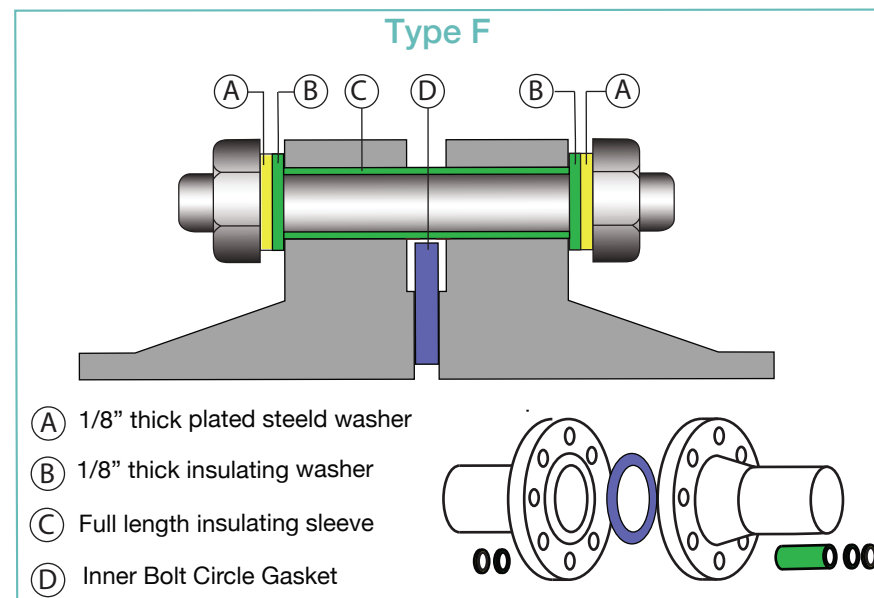
(It is recommended that the flanges are wrapped with Flange Band Protectors to prevent foreign material from collecting and creating a bridge, thus shorting out the isolation.)

Type E (Full Face)

This style kit contains a full face gasket that has the same outside diameter as the flanges. This style gasket will prevent foreign material from collecting and creating a bridge, thus shorting the cathodic isolation. Type E gaskets are available in, neoprene-faced phenolic, and high temperature materials (see below).

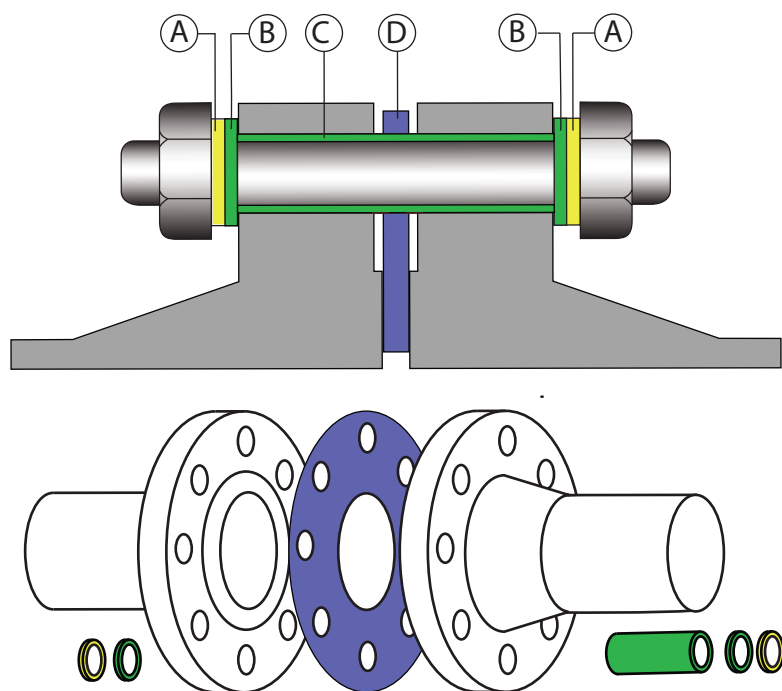
Type D (RTJ)

Type D gaskets are designed to fit into the ring groove of RTJ (ring type joint) flanges. We also offer BX gaskets. Both are available in phenolic.



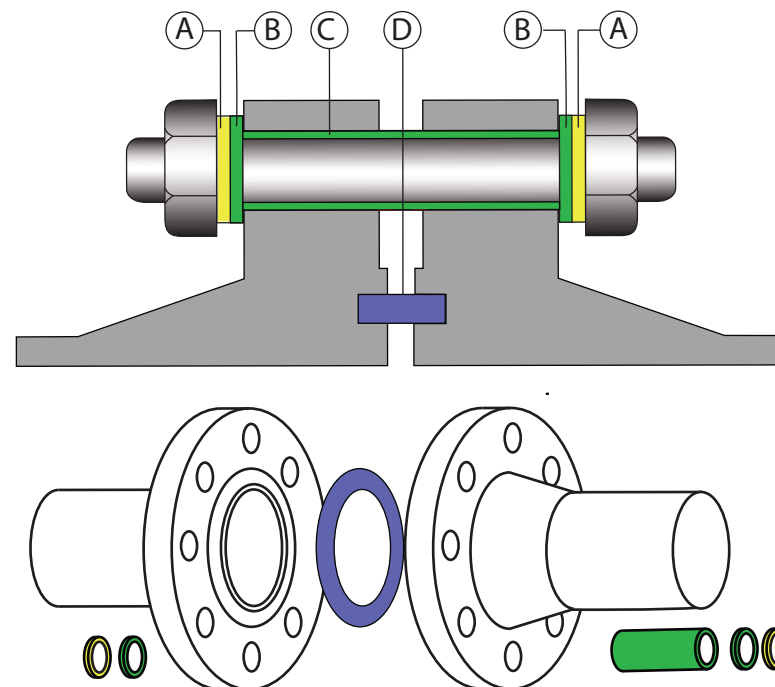
Type E

- (A) 1/8" thick plated steel washer
- (B) 1/8" thick insulating washer
- (C) Full length insulating sleeve
- (D) Full face Gasket



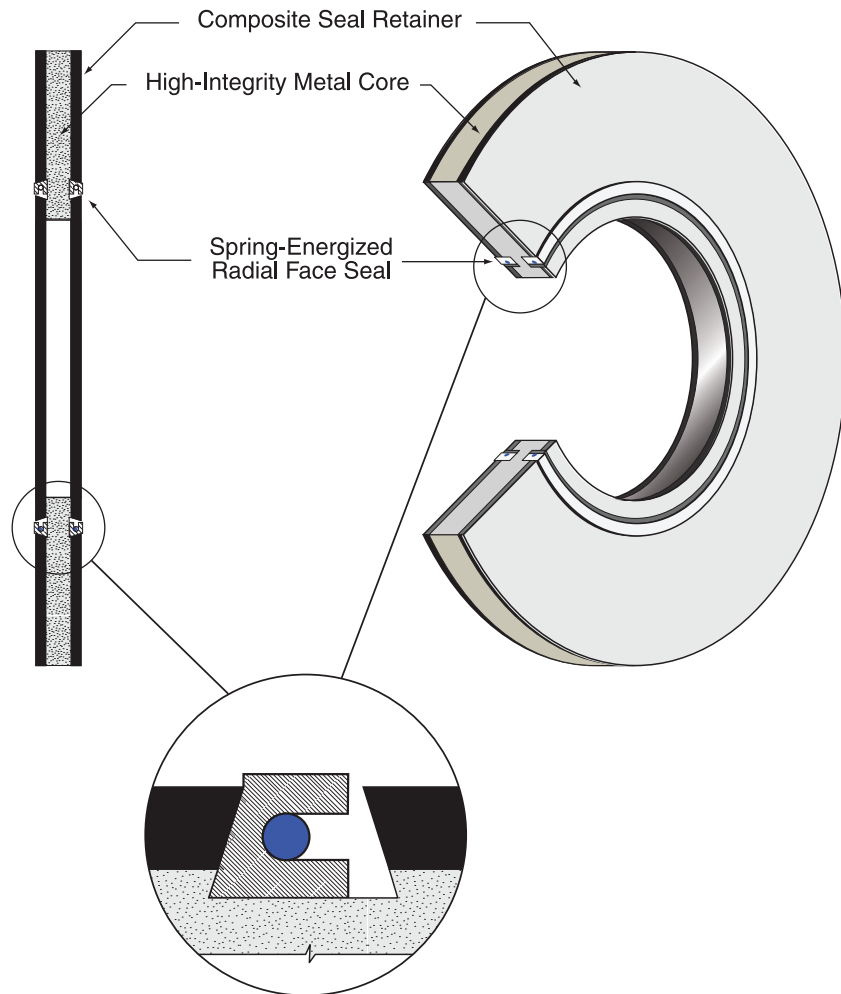
Type D

- (A) 1/8" thick plated steel washer
- (B) 1/8" thick insulating washer
- (C) Full length insulating sleeve
- (D) Insulating oval Ring type joint



Type TSG-V (Raised Face, Full Face & RTJ)

Type V consists of a gasket retainer made out of stainless steel core (Other metals, including Duplex and Inconel are available upon special order), laminated with a high strength GRE material. Each side of the retainer gasket houses a PTFE spring energized sealing element to ensure high integrity sealing across the full range of pressure classes and is available in both Type E and Type F styles.



Type TSG-O (Raised Face & Full Face)

This type consists of a gasket retainer with on each side as a sealing element (pressure activated Quad or O-ring) and is available in both Type E and Type F styles. The sealing element materials are nitrile, viton, or PTFE, but also Aflas or Kalrez. The gasket retainer materials available are phenolic, PTFE and G-10



Gaskets

Material	Dielectric strength	Water absorption	Compressive strength	Maximum temperature
Neoprene faced phenolic	500 vpm	1.5%	25,000 psi	79°C
G-10	550 vpm	0.1%	50,000 psi	141°C

Washers

Material	Dielectric strength	Water absorption	Compressive strength	Maximum temperature
Phenolic	400 vpm	1.1%	25,000 psi	107°C
G-10	550 vpm	0.1%	50,000 psi	141°C

Sleeves

Material	Dielectric strength	Water absorption	Maximum temperature
Phenolic	400 vpm	2%	107°C
G-10	550 vpm	0.1%	141°C
Mylar	4000 vpm	0.8%	149° C
Nomex	400 vpm	n/a	232° C

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.