

Flange insulation gasket kits

Why do we use flange insulation gasket kits?

Flange insulation gaskets play a crucial role in ensuring the reliability, safety, and efficiency of piping systems, especially in industries like oil and gas, chemical processing, and power generation.

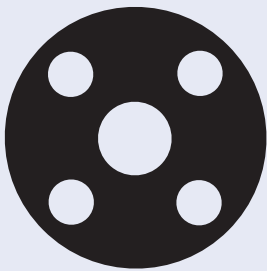
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Flange Insulation Kits are the most widely used form of controlling losses due to corrosion. They can be used to control stray electric currents in piping at oil, gas, water, refinery, and chemical plants, to increase the effectiveness of cathodic protection systems and confine or eliminate

electrolytic corrosion. Each flange insulation gasket kit is packaged individually in durable corrugated boxes. Each set is clearly tagged with the flange size, pressure rating, type of insulating sleeve and whether it is a single washer or double washer set.

TYPE OF GASKETS

Type E



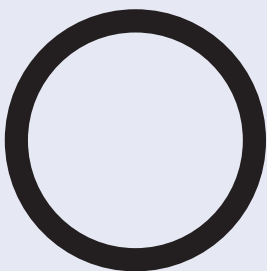
Type E is a full-faced gasket with the same outside diameter as the flange and precision cut bolt holes. This design facilitates proper alignment of the gasket during installation. Type E gaskets are available in plain face or Neoprene face phenolic, as well as a variety of high temperature materials.

Type F



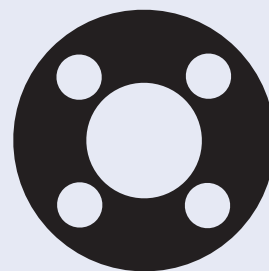
Type F gaskets are made to fit the raised face portion of the flange only. As there are no bolt holes in the F gasket, the outside diameter of the gasket falls within the inside diameter of the bolt hole circle. Available in the same materials as the type E gasket.

Type D



Type D gaskets are specifically designed to fit into the ring groove of ring type joint flanges. They are manufactured of a medium weave, fabric reinforced phenolic material and are sized to ANSI specifications available in basic oval as well as octagonal shape. Also available are BX gaskets with pressure ratings to 15,000 psi.

Type G



Type G is available in both full-faced (FF) and inside bolt circle versions (R F) and incorporates an elastomeric sealing ring in the gasket faces. Appropriate selection of insulating and sealing materials provides a versatile set with higher chemical and temperature resistance.

ORDERING DATA

GASKETS

Phenolic, Neoprene-faced Phenolic, SONFLON PTFE, G7, G10, G11, G11 with steel core reinforced.

SLEEVES

Mylar, Nomex, G7, G10, G11

WASHERS

Phenolic, G7, G10, G11

SEALS

VITON, NBR, EPDM, PTFE with Spring Energized, Graphite. Other high temperature materials are available upon request.

ORDERING SPECIFICATIONS

Gasket Type D, E, F or G

Single Washer or Double Washer

Standard Nomex, Phenolic, or Mylar Sleeve

Type of Sleeve

Flange Size and Pressure Rating

Material of Seals (Type G)

INSULATING GASKET SPECIFICATIONS

	Plain Phenolic	Neoprene Faced Phenolic	SONFLON PTFE	G7	G10	G11/G11 With Steel Core
Dielectric strength Volts/Mil	500	500	350	350	550	550
Compressive strength psi	25000	25000	23000	40000	50000	50000
Water absorption %	.6	1.60	.01	0.07	0.1	0.1
Tensile strength psi	20000	20000	1450	25000	45000	43000
Operating temp °C	-54 to +104	-54 to +79	-196 to +260	-196 to +232	-196 to +138	-196 to +176

SLEEVE MATERIAL PHYSICAL PROPERTIES

	Mylar	NOMEX	G7	G10	G11
Dielectric strength Volts/Mil	4000	400	350	400	400
Water absorption %	0.8	N/A	0.1	0.1	0.1
Operating temp °C	-59 to +149	-54 to +232	-196 to +232	-196 to +138	-196 to +176

1/8" WASHER MATERIAL PHYSICAL PROPERTIES

	Phenolic	G7	G10	G11
Dielectric strength Volts/Mil	500	350	550	550
Compressive strength psi	25000	40000	50000	50000
Water absorption %	1.6	0.07	0.1	0.1
Operating temp °C	-54 to +104	-196 to +232	-196 to +138	-196 to +176

SEALS MATERIAL PHYSICAL PROPERTIES

	VITON N	BR	EPDM	PTFE/PTFE with Spring Energized	Graphite
Operating temp °C	-29 to 177	-54 to 121	-54 to 149	-196 to 260	-240 to 450

* The seals material is designed for type G



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