

FLANGE ISOLATION KITS



**FOR SEALING AND ISOLATION OF
FLANGES**

ELIMINATES METAL TO METAL CONTACT TO
PROVIDE ELECTRICAL ISOLATION AND
CATHODIC PROTECTION

INTRODUCTION

- Drake Specialties' Flange Isolation Gasket Kits are designed to maintain the integrity and reliability of the pipeline and piping system through safety and corrosion protection. Flange Isolation Gasket Kits provide both an effective seal and reliable electrical isolation of flanges. By eliminating metal to metal contact, static current is halted to prevent corrosion and aid in the Cathodic Protection of the piping system.
- 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, ranging from 1/2" to 144", in all Ansi and API classes. Custom and special sizes are also available upon request.

GASKET KIT TYPES

Type E

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 phenolic, neoprene-faced Phenolic, and high temperature materials-see page 3.



Type F

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.

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 F gaskets are available in same material as Type E.



Type D

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 grade CE phenolic.



Type O

This gasket has a sealing element on each side and is available in both Type E and Type F styles. The sealing element materials are nitrile, viton, or Teflon. Gasket materials available are phenolic and G-10.



SPECIFICATIONS

Gaskets

Material	Dielectric Strength	Water Absorption	Compressive Strength	Maximum Temperature	
				°F	°C
Plain Faced Phenolic	500 vpm	1.5 %	25,000 psi	225°F	107°C
Neoprene Faced Phenolic	500 vpm	1.5 %	25,000 psi	175°F	79°C
G-10	550 vpm	.10 %	50,000 psi	285°F	141°C
Special & High Temperature: Available upon request.					



Sleeves



Material	Dielectric Strength	Water Absorption	Maximum Temperature	
			°F	°C
Mylar	4000 vpm	.8 %	300°F	149°C
Integral Minlon	1200 vpm	.22 %	200°F	93°C
Polyethylene	400 vpm	.01 %	105°F	41°C
Phenolic	400 vpm	2 %	225°F	107°C
G-10	550 vpm	.10 %	285°F	141°C
Nomex	400 vpm	n/a	450°F	232°C

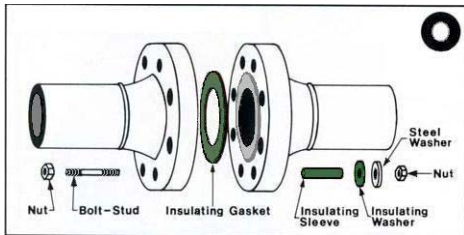
Washers

Material	Dielectric Strength	Water Absorption	Compressive Strength	Maximum Temperature	
				°F	°C
Phenolic	400 vpm	1.1 %	25,000 psi	225°F	107°C
G-10	550 vpm	.10 %	50,000 psi	285°F	141°C
Special & High Temperature: Available upon request.					

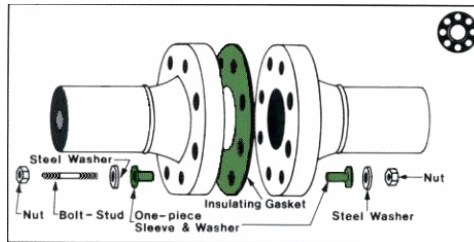


HOW TO ORDER

1. Specify flange size and pressure rating.
2. Specify gasket type: D, E, or F.
3. Specify single washer or double washer set.
4. Specify sleeve material.
5. Consult factory for specials.



Type F Gasket, Single Washer Set



Type E Gasket, Double Washer Set

PACKAGING

Each Flange Isolation Gasket Kit from Drake Specialties is individually packaged in a durable pizza style box. The isolating sleeves and washers are packaged separately in the box to protect them during shipping. Each box is labeled with flange size and pressure rating, type of isolating sleeves, and if double or single washer set.



Other Products:

- Safety Spray Shields
- Custom Covers & Blankets
- Flange Protectors
- Nut & Bolt Protectors
- Penetration Seals
- Sealing Solutions
- Pipe Wrap & Tape



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