



DRAKE SPECIALTIES

PROTECTING PERSONNEL, EQUIPMENT,
AND THE ENVIRONMENT....
WORLDWIDE



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.
- To further enhance reliability and reduce risk, we recommend utilizing Drake Specialties' Flange Band Protectors, to seal the flange and prevent foreign matter from collecting and creating a bridge, thus shorting out the isolation.

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, nitrile-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, providing ease of alignment. Type F gaskets are available in same material as Type E. It is highly recommended to incorporate Flange Band Protectors in conjunction with Type F kits.



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, G-10, and high temperature G-3 materials.

Style O

This engineered gasket has a sealing element mounted in a groove on each side and is available in both Type E and Type F gaskets. The sealing element materials are nitrile, viton, or PTFE. Gasket materials available are phenolic, G-10 & high temperature G-3.



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
Nitrile Faced Phenolic	500 vpm	1.5 %	25,000 psi	175°F	79°C
G-10	550 vpm	.10 %	60,000 psi	285°F	141°C
G-3	600 vpm	.15 %	60,000 psi	450°F	232°C
Klingersil C-4401	300 vpm	---	---	750°F	398°C
Special, Fire Safe, & SS Core/Energized Seal: Available upon request.					



Sealing Element

Material	Maximum Temperature	
	°F	°C
Nitrile	250°F	121°C
Viton	392°F	200°C
PTFE	500°F	260°C

Sleeves



Material	Dielectric Strength	Water Absorption	Maximum Temperature	
			°F	°C
Mylar	4000 vpm	.8 %	300°F	149°C
Integral Minlon	450 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	600 vpm	---	450°F	232°C

Washers

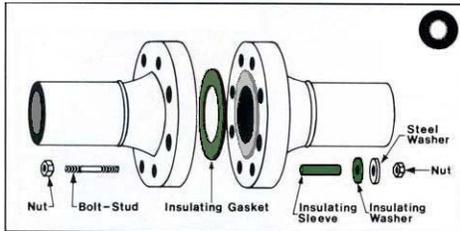
Material	Dielectric Strength	Water Absorption	Compressive Strength	Maximum Temperature	
				°F	°C
Phenolic	500 vpm	1.5 %	25,000 psi	225°F	107°C
G-10	550 vpm	.10 %	60,000 psi	285°F	141°C
G-3	600 vpm	.15 %	60,000 psi	450°F	232°C
Special & Fire Safe: Available upon request.					



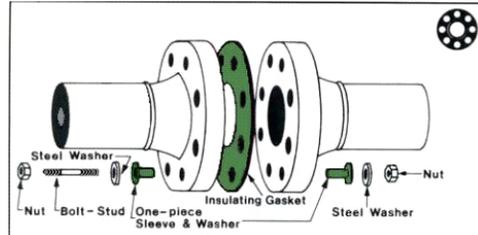
HOW TO ORDER

Specify the following:

1. Flange size and pressure rating.
2. Gasket type: D, E, or F.
3. Gasket material.
4. Sealing element material (if required).
5. Single washer or double washer set
6. Backup washer material.
7. Sleeve Material
8. Consult factory for special applications.



Type F Gasket, Single Washer Set



Type E Gasket, Double Washer Set

PACKAGING

Each Flange Isolation Gasket Kit from Drake Specialties is carefully packaged. The isolating sleeves and washers are heat sealed and packaged separately to protect all items during shipping. Each package is labeled with flange size and pressure rating, type of materials, and if double or single washer set. Individually packaged Kits in pizza style boxes are available upon request only.



Other Quality Products:

Safety Spray Shields
Insulated Blankets
Specialty Shields & Covers
Solus Anti Spray Tape

Marine Roll Spray Shields
Flange Band Protectors
Nut/Bolt Protectors
Corrosion Inhibitor Grease

ISO9001:2015 Certified

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