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.

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**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 the 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

<table>
<thead>
<tr>
<th>Material</th>
<th>Dielectric Strength</th>
<th>Water Absorption</th>
<th>Compressive Strength</th>
<th>Maximum Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plain Faced Phenolic</td>
<td>500 vpm</td>
<td>1.5 %</td>
<td>25,000 psi</td>
<td>225°F 107°C</td>
</tr>
<tr>
<td>Neoprene Faced Phenolic</td>
<td>500 vpm</td>
<td>1.5 %</td>
<td>25,000 psi</td>
<td>175°F 79°C</td>
</tr>
<tr>
<td>G-10</td>
<td>550 vpm</td>
<td>.10 %</td>
<td>50,000 psi</td>
<td>285°F 141°C</td>
</tr>
</tbody>
</table>

Special & High Temperature: Available upon request.

### Sleeves

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

### Washers

<table>
<thead>
<tr>
<th>Material</th>
<th>Dielectric Strength</th>
<th>Water Absorption</th>
<th>Compressive Strength</th>
<th>Maximum Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenolic</td>
<td>400 vpm</td>
<td>1.1 %</td>
<td>25,000 psi</td>
<td>225°F 107°C</td>
</tr>
<tr>
<td>G-10</td>
<td>550 vpm</td>
<td>.10 %</td>
<td>50,000 psi</td>
<td>285°F 141°C</td>
</tr>
</tbody>
</table>

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.

**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

**Available At:**
Bay Port Valve & Fitting, Inc.
P.O. Box 315 Phone: (863) 425-0023
2295 S.R. 37 South (800) 369-0194
Mulberry, FL 33860 Fax: (863) 425-5091
www.bayportvalve.com