

# FLANGE ISOLATION KITS

STEPKO-3" 600#

**STEP-KO** PRODUCTS

Oil & Gas • Pipeline • Water/Wastewater • Industrial

SEALING  
& ISOLATION  
SOLUTIONS  
FOR FLANGED CONNECTIONS

Eliminating Metal To Metal Contact And Providing Electrical Isolation  
For Cathodic Protection

# INTRODUCTION

The Step-Ko Products 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



### 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.



### WARRIOR

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	
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	
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	
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.					



# FLANGE ISOLATION KITS

## ***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.

## ***OTHER PRODUCTS*** by Step-Ko

- Heat Shrink Sleeves
- Pipe Wrap Tapes
- Flange Protectors and Nut Caps
- Insulated Buildings and Enclosures
- Specialty Pipeline Coatings
- Anodes
- Pipeline Markers and Test Stations

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Oil & Gas • Pipeline • Water/Wastewater • Industrial

Distributor/Representative:

P.O. Box 81396  
Lafayette, LA 70598  
337.837.4141  
Fax 337.837.4095  
[www.stepko.com](http://www.stepko.com)