

# Flange Insulation Kits



(650) 588-2241

**FOR WATER, NATURAL GAS, PETROLEUM AND  
OTHER PIPE LINES.**



**TYPE E Full Face Gasket**

**STANDARD KITS include:**

- \* Type E (full face) gasket 1/8" thick
- or-
- \* Type F (ring) gasket 1/8" thick
- \* High-density polyethylene sleeves 1/32"
- \* Laminated phenolic washers 1/8"
- \* Steel backup washers 1/8"

Two phenolic washers, two steel washers, and two polyethylene sleeves are standard per bolt.



**TYPE F Ring Gasket**

**AVAILABLE AS FOLLOWS:**

- \* A.S.A Series 15 -  
150# Class through 2,500#
- \* A.S.A Standard Gasket B16.21(4)
- \* Special I.D.'s and Special O.D.'s

**NOTE:** When using plain phenolic flange kits, we recommend using a 1/16" back-up gasket on each side of the phenolic gasket for better sealing.

## Options & Specifications For Calpico Flange Insulation Kits:

**GASKET MATERIAL: (FF or Ring)**

**OPTION #1:**

Laminated phenolic  
Thickness: 1/8"  
Temperature: up to 225° F  
Dielectric strength: 500 volts per mil  
Compression strength: 24,000 psi  
Water absorbance: 1.6% ASTM D-229

**OPTION #2:**

Neoprene faced phenolic  
Thickness: 1/8"  
Temperature: up to 175° F  
Dielectric strength: same as phenolic above  
Compression strength: same as phenolic above  
Water absorbance: same as phenolic above

**OPTION #3:**

Fiberglass epoxy  
Thickness: 1/8"  
Temperature: up to 280° F  
Dielectric strength: 550 volts per mil  
Compression strength: 50,000 psi  
Water absorbance: 0.10%  
Tensile strength: 45,000 psi  
Meets MIL-P-18177 & NEMA Grade G-10

**OPTION #4:**

Non-Asbestos Klinger #C4401  
Temperature: up to 400° F constant  
Tensile strength: 2,000 psi ASTM F152

**OPTION #5:**

Non-Asbestos Garlock #3000  
Temperature: up to 400° F constant  
Max pressure: 1000 psi

**OPTION #6:**

G-10 with O-ring (Buna-N or Viton)  
See Option #3 for specifications

**OPTION #7:** Phenolic with O-ring  
(Buna-N or Viton)

See Option #1 for specifications

**OPTION #8:** Garlock #3505 NSF 61

Temperature: up to 500° F  
Max pressure: 800 psi

\*\* Higher operating pressure will lower maximum temperature rating.

PLEASE CONSULT FACTORY FOR APPLICATIONS INVOLVING

# Options cont.

## SLEEVE MATERIAL:

### **Option #1:**

1/32" wall high density polyethylene  
Thickness: 1/32"  
Temperature: up to 175° F.  
Compression: 80,000 psi  
Tensile strength: 150,000 psi  
Water absorbance: 0.01%

### **Option #2:**

1/32" wall spiral-wound Mylar.  
Temperature: up to 300°F.  
Dielectric strength: 4,000 volts per mil.  
Water absorption: 0.8%.

### **Option #3:**

1/32" wall phenolic tubing  
Thickness: 1/32"  
Specs same as gasket material

### **Option #4:**

One-piece sleeve and washer combination.  
1/32" sleeve wall and 5/32" thickness  
washer portion

### **Option #5:**

1/32" wall Fiberglass epoxy tubing  
Specs same as gasket material

### **Option #6:**

High temperature Nomex and other special  
sleeve material available on request

## INSULATING WASHERS:

### **Option #1:**

1/8" phenolic  
Thickness: 1/8"  
Specs same as gasket material

### **Option #2:**

Garlock #3000  
Specs same as gasket material

### **Option #3:**

Fiberglass epoxy  
Specs same as gasket material

### **Option #4:**

High temperature and special material  
available on request

## STEEL WASHERS:

### **Option #1:**

1/8" thick steel made to fit within bolt facing  
on ASA standard flanges

**Option #2:** Stainless steel available on  
request



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