Flange Insulation Kits

For Water, Natural Gas, Petroleum and other Pipe Lines

**TYPE E Full Face Gasket**

½” Thru 96”

TYPICAL STANDARD KITS includes:

* 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 sets of phenolic & steel washers are required when two sides are insulated.

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

**OPTION #1:** 1/8” Phenolic manufactured from laminated phenolic sheet.
  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:** 1/8” Neoprene-faced phenolic.
  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:** 1/8” Fiberglass epoxy.
  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.

**SLEEVE MATERIAL:**

**Option #1:** 1/32” wall high density polyethylene.
  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. 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. Same specs as gasket material.

**Option #6:** High temperature Nomex and other special sleeve material available on request.

**INSULATING WASHERS:**

- **Option #1:** 1/8” phenolic, specs same as gasket material.
- **Option #2:** 1/8” dielectric asbestos, 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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