

Each **FMC Measurement Solutions flange insulation gasket kit** is packaged individually in durable corrugated boxes. Each set is clearly tagged with the flange size, pressure rating, type of insulating sleeve and whether it is a single washer or double washer set. A recommended bolt tightening sequence sheet is provided with each kit.

High Temperature Products

- Gaskets: Durbla, JMRD-81, NEMA grade G3 phenolic
- Sleeves: Nomex, NEMA grade G7, JMRD-81
- Washers: NEMA grade G3 and G7, JMRD-81

Other high temperature materials are available upon request. It is recommended that the factory be contacted to discuss technical data on these special materials.

Flange Protector

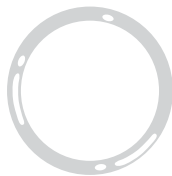
Smith Meter™ PECO flange protectors and corrosion inhibitor grease are recommended on all insulated flanges. By encapsulating the flange cavity with the flange protector and injecting our corrosion inhibitor grease, you can rely on your cathodic protection system to provide you with years of trouble-free service.

This system totally eliminates any possibility of foreign matter lodging between the faces of your flange or corrosion bridging across and creating a short circuit.

Ordering Specifications

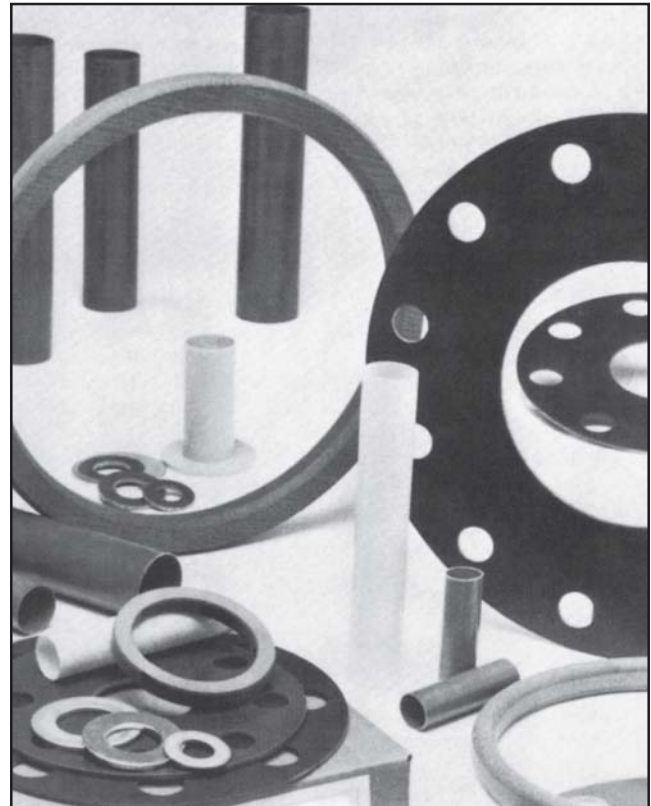
- Gasket Type D, E, or F
- Single Washer or Double Washer
- Standard Polyethylene, Phenolic, or Mylar Sleeve
- One Piece Integral Minlon Sleeve
- Flange Size and Pressure Rating

Gaskets



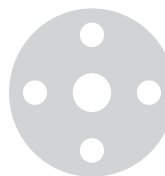
Type D

Type D gaskets are specifically designed to fit into the ring groove of ring-type-joint flanges. They are manufactured of a medium weave, fabric-reinforced phenolic material and are sized to ANSI specifications – available in basic oval as well as octagonal shape. Also available are BX gaskets with pressure ratings to 15,000 psi.



Flange Insulation Kits

Type E



Type E is a full-faced gasket with the same outside diameter as the flange and precision cut bolt holes. This design facilitates proper alignment of the gasket during installation. Type E gaskets are available in plain face or Neoprene face phenolic, as well as a variety of high temperature materials.

Type F



Type F gaskets are made to fit the raised face portion of the flange only. As there are no bolt holes in the F gasket, the outside diameter of the gasket falls within the inside diameter of the bolt hole circle. Available in the same materials as the Type E gasket.

Insulating Gasket Specifications

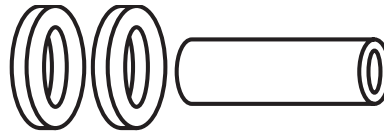
Description of Material	Water Absorption In Percent	Hardness Rockwell M	Ultimate Strength			Operating Temp.	NEMA Grade
			Tensile With Grain psi	Compression Flatwise psi	Dielectric Strength VPM		
Plain Face Phenolic	0.5%	105	16,000	36,000	600	250°F 121°C	AX
Neoprene Faced Phenolic	.45%	—	16,000	36,000	600	175°F 79.5°C	AXIV

Insulating Sleeves and Washers

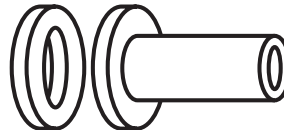
Insulating sleeves manufactured of high density polyethylene, NEMA grade LE phenolic, and mylar are available in a full range of sizes. Also available are one-piece integral sleeves and washers which are made of Minlon, providing superior compression strength. Integral sleeves are available in sizes through 1-1/2". A variety of high temperature sleeves are also stock items.

With each insulating washer a 1/8" thick S.A.E. electro-plated steel washer is provided to protect the insulating washer from damage by the nut. Smith Meter™ PECO flange insulation sets are available in single washer or double washer kits.

Single Washer Sets



Sleeve and Washer

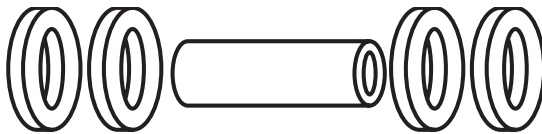


Integral Sleeve and Washer

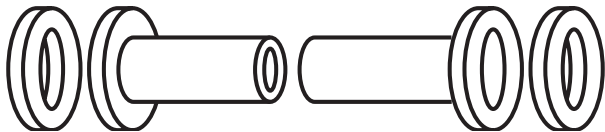
Insulating Sleeve Specifications

Material	Dielectric Strength	Water Absorption %	Max. Continuous Operating Temp.	
Polyethylene	450	.01	105°F	41°C
Phenolic	400-500	1.1	225°F	107°C
Mylar	4,000	.8	300°F	149°C
Minlon	1,200	.22	250°F	121°C
Nomex	400	—	450°F	232°C

Double Washer Sets



Sleeves and Washers



Integral Sleeves and Washers

The specifications contained herein are subject to change without notice and any user of said specifications should verify from the manufacturer that the specifications are currently in effect. Otherwise, the manufacturer assumes no responsibility for the use of specifications which may have been changed and are no longer in effect.

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