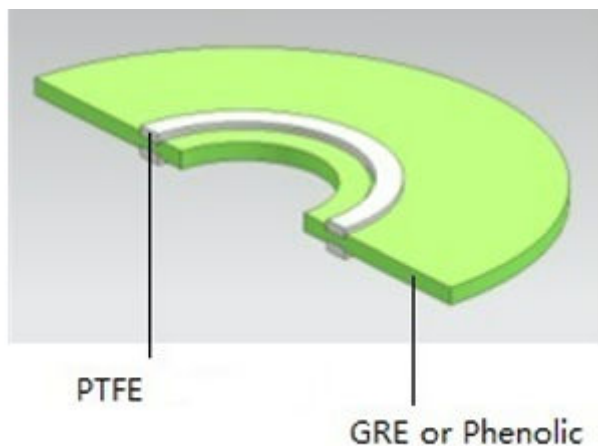


Lseal Insulating Gasket

Model WP-120



Lseal Insulation Gasket Specifications

Lseal sealing gaskets use a rectangular sealing element enclosed into a unique groove to seal and isolate all types of flanges. This kind gasket can provide theoretical near zero “m” and “y” factors resulting in effecting a positive seal without excessive bolt loads required with flat gaskets. Materials such as Teflon and Viton also can be Used as the sealing element, which increases the choice of material.

Lseal sealing gaskets are widely used for low and medium pressure, but in order to get much better sealing performance, for the pressure equal to or higher than ANSI 600#, please consider MCG sealing gaskets first.

Lseal Gasket Characteristics and Advantages:

1. Seals and insulates at pressures up to ANSI 600#.
2. Outstanding insulation properties for cathodic protection.
3. Gasket is sized to the flange bore to protect flange faces from media-induced corrosion and flow-induced erosion. Prevents turbulent flow at flanged connections.
4. Mitigates galvanic corrosion in dissimilar metal flanges.
5. Available to match any flange specification (ANSI, API, BS, DIN, AS, others).
6. Can seal mismatched RTJ Flange with Raised Face Flanges.

Lseal Gasket Types

Type “E” (Full Face) Gaskets have same outside diameter of the flange and precise located bolt holes, this feature will help to automatically center the gasket, and offer maximum protection against foreign material “shorting-out” the flange.

Type “F” (Ring Type) Gaskets are made to fit



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within the bolt hole circle of the flange. The O.D. of the gasket extends out to the I.D. of the bolt hole circle for good protection against foreign material “shorting-out” the flange.

Lseal Insulating Gasket Material

Gasket Thickness: 3.2mm

Material: GRE G10 or G11 or Phenolic

Gasket Material Properties

Properties	NEMA Grade G10	NEMA Grade G11	Phenolic
Dielectric Strength (Volts/mil)	650	670	500
Water Absorption (%)	0.1	0.1	1.6
Tensile Strength (psi)	50,000	55,000	20,000
Compressive Strength (psi)	51,000	60,000	25,000
Operating Temperature (°C)	-120 to +150	-110 to +200	-54 to +104

Sealing Element Material

Normal sealing element is PTFE, but Viton, EPDM, and NBR also could be provided.

Sealing Element Material Property

Properties	PTFE	Viton	EPDM	NBR
Operating Temperature (°C)	+230	+180	+120	+121

Insulating Sleeve

The insulating sleeve is suitable for standard flange bolt hole and standard bolt.

The normal wall thickness is 0.8mm.

The insulating sleeve is full length, which will cross two insulating washers and reach one steel washer.



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Insulating Sleeve Material Properties

Properties	NEMA Grade G10	NEMA Grade G11
Dielectric Strength (Volts/mil)	550	550
Water Absorption (%)	0.1	0.1
Operating Temperature (°C)	-120 to +150	-110 to +200

Insulating Washer

The insulating washer is suitable for standard flange bolt hole and standard bolt and is cut to SAE washer dimensions.

The normal thickness is 3.2mm.

The insulating washer material could be G10, G11, or Phenolic.

Insulating Washer Material Properties

Properties	NEMA Grade G10	NEMA Grade G11	Phenolic
Dielectric Strength (Volts/mil)	650	670	500
Water Absorption (%)	0.1	0.1	1.6
Operating Temperature (°C)	-120 to +150	-110 to +200	-54 to +104

Steel Washer

The steel washer is suitable for standard flange bolt hole and standard bolt and is cut to SAE washer dimensions.

The normal thickness is 3.2mm.

The steel washer material could be Zinc Plated CS, Zn-Ni Coated CS, PTFE Coated CS, SS316, HCS, and so on.

