INSULATING FLANGE KITS

Insulation Flange Kits are an ideal solution where discrete electrical sections of pipeline are required for the control and regulation of Cathodic Protection and electrolytic current flow.

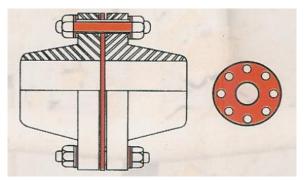
A standard Flange Insulation Kit will comprise as follows

Gasket Insulating Sleeves Insulating Washers (2 per bolt) Zinc Plated Steel Washers (2 per bolt)

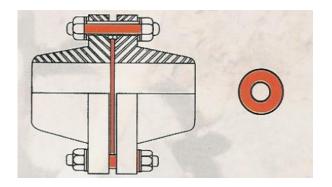
Stud bolts cab be added on request,

Gasket Types as follows are available;

TYPE 'E' For use on flat face & raised face flanges. Insulating gasket manufactured from either reinforced phenolic or high dielectric strength non-asbestos sheeting. Insulating sleeve manufactured from either phenolic, mylar or polyethylene. Insulating washers manufactured from reinforced phenolic.



TYPE 'F' The central gasket locates inside the bolts. Insulating gasket manufactured from either reinforced phenolic or high dielectric strength non-asbestos sheeting. Insulating sleeve manufactured from either phenolic, mylar or polyethylene. Insulating washers manufactured from reinforced phenolic.





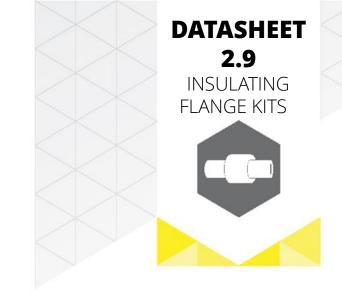


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INSULATING FLANGE KITS

MATERIAL INFORMATION



Central Gasket in Neoprene Faced Phenolic

Neoprene faced phenolic resin sheet. Rubber thickness of 0.4mm on each face of phenolic sheet thickness 2.4mm, to NEMA L1-1-1983, Type XPC, with the following properties.

Dielectric Strength in oil @ 23°C 500 Volt/mil

(20,000 Volts/mm)

Water absorption after 24 hours immersion in water @ 23°C 0.60%

Compressive strength @ 23°C 168 N/mm²

Maximum continuous operating

temperature 100°C
Insulation resistance 1.2 x 10 Megohms

Phenolic Washers

120 Mpa
10.0 kJm²
80 Mpa
3 MV/m
2.1.4.77
2 MV/m
12 kV
2 GΩ
110 V
115°C
125° C
85 mg
1.35 g/cm ³
741 cm³/kg
Brown

Mylar Sleeves

Dielectric Strength - ASTM D149	4000 Volts/mil
Compressive Strength - ASTM D695	N/A
Water Absorption - ASTM D229	0.80%
Operating Temp °F	-75 to +300
Operating Temp °C	-59 to +149

INSULATING FLANGE KITS

MATERIAL INFORMATION



Flexural Strength - ASTM D790 Cut Through Resistance 13000 psi 3500 ft-lbs

Phenolic Sleeves

Axial electric strngth in oil @ 90°C
Water Absorption
Cohesion between Layers
Insulation resistance after immersion in water
Axial Compressive Strength
Electric strength normal to axis in oil @ 90°C (1.6mm wall)
Relative Density
Thermal Classification

30 kV 3.5 mg/cm² 70 Mpa 50 Mohms 100 Mpa 7.8 MV/m 1.20 E

Steel Washers

Zinc Plated BS4320 (43A)



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