



Flange & Bolt Insulation - Bolt Insulators - Washers

Phenolic Washers



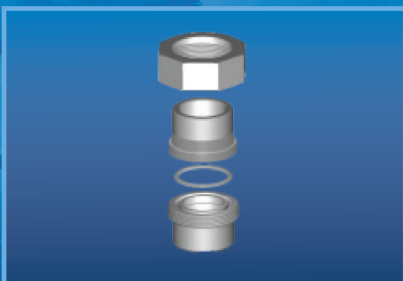
Standard insulating washers are made of high strength phenolic and provide positive insulation at temperatures to 120oC. They are made to fit over the insulating sleeves. Standard thickness is 3.2mm. Other thicknesses available on request. Phenolic washers are not recommended where high bolt torque is required as they tend to crack. Phenolic has a dielectric strength of 400-500VM with a water absorption rate of 1.1%.

Glass Epoxy Washers



G10 / G11 Glass Epoxy washers are tough and recommended where high bolt torque is required. Glass Epoxy maintains good dielectric and physical strength where some other materials weaken. Standard thickness is 3.2mm. Other thicknesses available on request. G10/11 has a dielectric strength of 530 VM, Water Absorption of 0.09% and maximum continuous operating temperature of 140°C.

Ground Joint ("O" Union)



Ground Joint connections provide a long reliable life with a seal that is widely used in the oil and gas industry. " O " Ring Unions provide a leak proof static seal. They can be used and removed in the field without replacement or damage to the insulator. Their dielectric strength goes beyond the toughest requirements. Ranging up to 3000psi and sizes 1/4 " u p to 3 " .