



NATAL GASKETS (Pty) LTD

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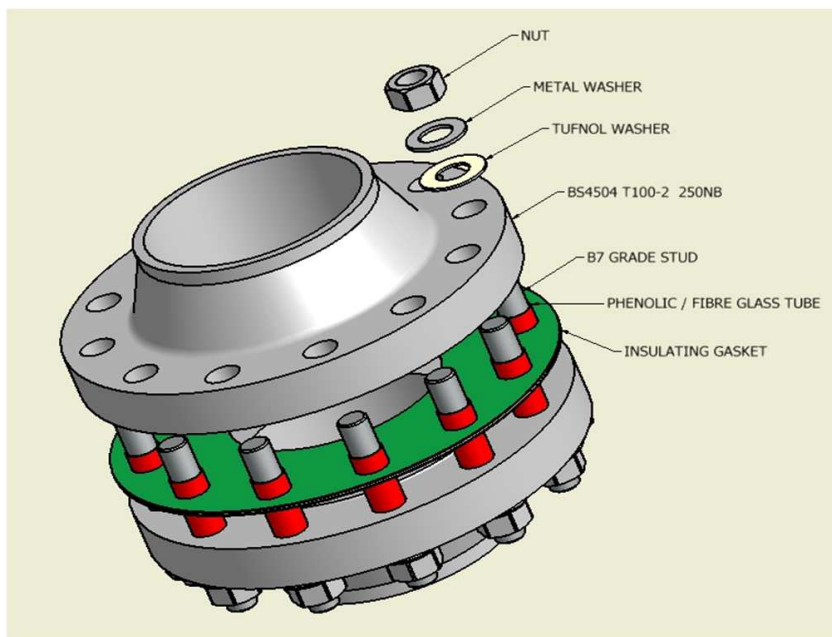
Technical Data Sheet

ELECTRIC / CATHODIC FLANGE INSULATION SET

Basis:

Flange Insulation Kits are the most widely used form of controlling losses due to corrosion. They are also used to control stray electric currents in piping at oil, gas, water, refinery, and chemical plants. The kits increase the effectiveness of cathodic protection systems and confine or eliminate electrolytic corrosion.

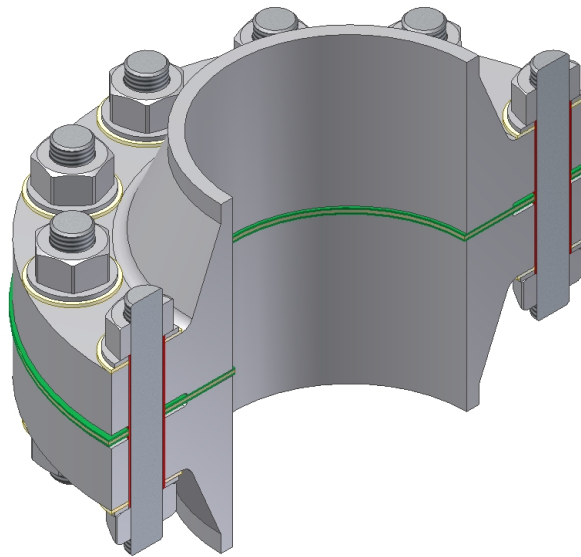
Natal Gaskets manufactures the insulation kits according to the flange specification and size required with a few deviations. The first is the bolt is upgraded to B7 studs and nuts but reduced to suite sleeve ID, the OD of the insulating gasket is increased to avoid breaching the flange sides and the ID is reduced to the NB size. The insulating gasket is a combination of phenolic resin and compressed fibre sheeting, the phenolic resin giving good electrical insulation whilst the compressed fibre maintains good sealing properties.



ELECTRIC / CATHODIC FLANGE INSULATION SET CONTINUED

Recommended Installation Procedure

1	Verify that the insulation kits contain the material specified and the contents are not damaged.
2	Clean and inspect pipe flange faces and apply lubricant to all threads.
3	Install the gasket and align the flanges and gaskets so the bolts will be centered.
4	Use alignment pins in two diametrically opposite bolt holes whenever possible to assure proper alignment of flanges and gaskets.
5	Insert insulating sleeves into the bolt holes taking care not to use force which could damage the sleeve material.
6	Insert the stud in both insulating washers against the flanges followed by the steel washers and nuts.
7	Tighten two diametrically opposite bolts to 30% to total torque.
8	Replace the two alignment pins and tighten the remaining bolts to 30% of the total torque value.
9	Tighten all bolts to 50% and then to 100% of final torque value.



The Information represents typical values which can vary according to the application. These values do not constitute a performance guarantee. Users should determine, prior to use, the suitability of this material for their particular application