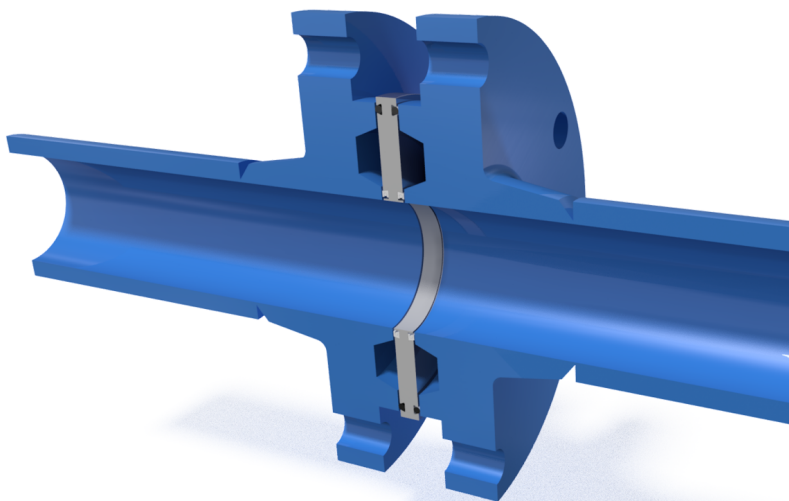


IsoShield SUBSEA™

Subsea Sealing System for cathodic Protection and
for Damaged Flanges

SEAL TIGHT. SEAL SAFE.

The IsoShield Subsea™ Gasket is 8mm thick, comprising of a steel core (commonly 316, Inconel 825 or 625) and a glass reinforced laminate facing and is designed with a tandem seal arrangement. The inner seals are spring energized Teflon which is pressure activated and works well up to 10,000 psi pressure, the secondary outer seals are Viton O Rings which deforms well into any imperfections on the flange face. The secondary seals are by-directional ensuring a leak free seal from both internal and external pressure. Unlike RTJ gaskets these products do not rely on deformation and therefore hardness levels are not relevant. The optional isolation kit includes G10 sleeves for each bolt, along with G10 washers and Zinc Plated Steel back-up washers.



FEATURES OF ISOSHIELD SUBSEA™

The IsoShield Subsea™ is a proven solution for Cathodic protection systems and for problematic subsea flange/gasket interfaces. Its high integrity metal core combined with Glass reinforced epoxy facings and tandem seals provides the strength and integrity of a metallic RTJ gasket but with ability to provide electrical isolation between flanges necessary for subsea cathodic protection systems. It also has the added benefit of sealing inboard of the RTJ groove allowing it to be used in instances where an RTJ is not suitable. The IsoShield Subsea™ design allows for the potential use in existing damaged or corroded flange grooves as an alternative to replacing flanges/spools subsea and has been used in subsea applications since 2008.

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APPLICATIONS

- Supplied in all size and pressure classes: ½ to 48" - ANSI 150lb-2500lbs
- API up to 10k pressure class
- All applications including high pressures (up to 700 bar) and medias (including H2s and Co2) ensures high level of mechanical integrity
- Tandem seal design to ensure the highest level of redundancy
- Bi-directional sealing to protect from seawater pressure at depth
- Diver friendly - much easier and safer to install than RTJ
- Doesn't rely on deformation to form a seal - no prospect of damaging the flange
- Sits across the whole flange face - minimises media contact with flange face - reduces corrosion
- Can be retrofitted into a corroded RTJ subsea flange
- Designed to match bore of pipe to close off fluid trap on standard RTJ flange - preventing corrosion

