FLANGE RESCUE GASKET

Service

The Flexitallic Flange Rescue Gasket has been primarily, but not exclusively, developed for use in the oil and gas exploration industry.
The product has been designed for use in bolted connections that have, or may be subject to corrosion at the flange gasket surface, negating the requirement for costly and time consuming flange replacement or machining.

Construction

The standard FRG (Flange Rescue Gasket) comprises of a high integrity metal ring faced sealing material (Sigma(R) 500. The primary sealing element is dimensioned to seat on the outer section on the flange sealing face.
A thicker highly conformable secondary seal, made from re-structured microcellular PTFE with corrosion inhibitor is located within the internal diameter of the primary seal. This secondary seal is carefully dimensioned to fill any voids or crevices formed between the pipe-bore and the internal diameter of conventional gaskets on flange closure.

The highly conformable nature and optimized thickness of the inner secondar seal ensures that it is capable of adapting to extensively damaged flange sealing. Full closure of this corrosion/erosion sensitive area prevents fluid ingress reducing the potential for further flange damage

Styles

FRG (Flange Rescue Gasket)
– Standard design suitable for most applications.
FRG-FS (Fire Safe)
– Meets the requirements of API 6FB for fire safety. Primary seal uses Thermiculite® .
FRG-RJ (Ring Joint)
– Modified R-Oval or R-Octag with inner section matched to the bore.
FRG-HF (Hydrofluoric Acid)
– Specially designed to suit the requirements of HF alkylation applications.
FRG-CS (Cryogenic Service)
– Specially designed to suit the requirements of low temperature

LNG application

Maximum recommended temperature: 260^{0}C (500^{0}F)
Pressure: Up to ASME B16.5 class 2500

Physical Construction

Primary Seal
Core: 316 Stainless Steel* – Standard; Monel - FRG-HF
Facing: G – Sigma® (microsphere filled biaxially structured PTFE); FRG- FS (Thermiculite®); FRG-HF (Graphite)
Secondary Seal
Sigma® 606 (Ultra high compression biaxially structured PTFE) with corrosion inhibitor.

Availability

To suit ASME B16.5 Class 150 thru 2500 flat and raised face flanges.**
* Alternative metallurgy and all sizes available on request.
** Gaskets to suit other flange standards or bespoke applications may be available on request

Waranty exclusion
In view of the variety of different installation and operation conditions as well as application and process engineering options, the information given in this datasheet can only provide approximate guidance and cannot be used as basis for warranty claims.