

**PRODUCT
REFERENCE:**

FLEXITALLIC Flange Rescue Gasket Fire Hydrofluoric (FRG HF)

DESCRIPTION:

The Flexitallic Flange Rescue Gasket Hydrofluoric is a specially designed sealing product engineered to offer a high integrity seal in bolted connections with damaged sealing faces, negating the requirement for costly and time consuming flange replacement or machining.

CONSTRUCTION:

The Flexitallic FRG HF is comprised of a high integrity serrated metal ring faced with Flexitallic's high quality graphite material . This primary semi-metallic sealing element is dimensioned to seal on the outer section on the flange sealing face. A thicker highly conformable secondary seal, made from re-structured microcellular PTFE is mechanically located, within the internal diameter of the primary semi-metallic 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 secondary seal ensures that it is capable of adapting to extensively damaged flange sealing surfaces. Full closure of this corrosion / erosion sensitive area prevents fluid ingress mitigating the potential for further flange damage. The presence of integrated locating tags ensures optimum gasket location eradicating operator error in gasket installation.

MATERIALS:

Primary Seal;

Core; Alloy 400 / Low carbon steel*

Facing; Graphite

Location Ring/Tag; Alloy 400 / Low carbon Steel*

Secondary Seal;

Sigma 606 (Ultra high compression biaxially structured PTFE formulated specifically to reduce corrosion rates)

SERVICE:

The Flexitallic Flange Rescue Gasket Hydrofluoric has been primarily, but not exclusively, developed for use in the refinery industry, typically suited for Alkyltion units where hydrofluoric acid is present . It is particularly suited for use on older assets where tight control of operating costs and asset efficiency are of prime concern.

Maximum recommended temperature: 260°C (500°F)

Pressure class: ASME B16.5 150lb thru 2500lb

Do NOT use gasket pastes

DESIGN PARAMETERS:

ASME Code factor 'Y'; 17MPa (2500 psi)

ASME Code factor 'm'; 2.0

PVRC Gasket factor 'Gb'; 387psi

PVRC Gasket factor 'Gs'; 14 psi

PVRC Gasket factor 'a'; 0.334

AVAILABILITY:

To suit ASME B16.5 Class 150lb thru 2500lb flat and raised face flanges**

*Alternative metallurgy may be available on request.

**Gaskets to suit other flange standards or bespoke applications may be available on request.

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