

Topog-E® Series 5000 Gaskets

MATERIAL COMPOSITION AND APPLICATION

The **Topog-E® Series 5000** Drum Manway Gasket offers Heat Recovery Steam Generators (HRSGs) the advantages of lower gasket seating load, the ability to be used in a wide range of surface finishes and operating pressures, and a gasket which is designed to stay in place during closing. Eliminate problems with leakage, gasket surface damage, gasket blow out, damage to other equipment and/or personnel. The most important feature of the gasket is the high unit load generated by the narrow sealing area provides a considerably higher flange clamping pressure and a better seal at a lower clamping force. The standard gasket material is 304 SS, with two (2) or four (4) tracks of Flexible Graphite sealing elements on each side of the gasket. Specialty gasket material and/or sealing elements are available as options.

Topog-E® Series 5000 gasket advantages:

Ability to cope against severe thermal cycling and vibration	Lower seating load
Inherent live loading capability	Cannot be overcompressed
Fire, blow out, and leak proof	No need to re-torque
Superior pressure handling	Eliminates fugitive emissions
Ease of installation	ANSI, DIN, and JIS sizes available

MATERIAL DESCRIPTION

Metal carrier options: MONEL®, INCONEL®, HASTELLOY®, Nickel, Titanium, Stainless steel - 304, 316, 321, and 347

Torque values: 50%-65% of bolt yield flange

Surface finish: 10-400 μ in RMS (microinches)

Standards available: ANSI 16.5, DIN 2600, and JIS B2220

SIZES

Topog-E® Series 5000 gaskets are available in 12 x 16, 14 x 18, 16 x 18, and 18 x 24 at 1/16" thickness (1.6mm).

Sealing elements width: 1/8" ea. side
Min. sealing element web width: 3/8"

Sealing elements options: Flexible graphite, PTFE, Fiberfrax, and Mica

SERVICE SUMMARY

Temperature range:

-328°F (200°C) cryogenic air
932°F (500°C) in regular atmosphere
1200°F (650°C) in steam
1800°F (1000°C) reducing or inert media

Leak rate: 0.005 in mg/m \cdot s
(DIN 28090/1.2) < 10ppm @He

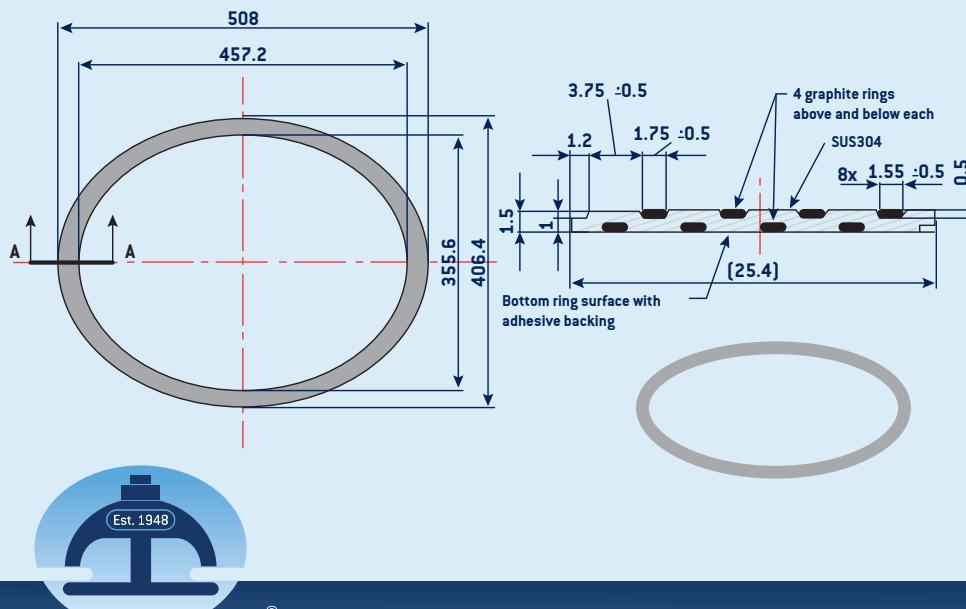
Pressure range: full vacuum to +5,000psi

M and Y values: M= 2.85, Y= 2,900 psi

Min seating stress: 2,900 psi (20 MPa)

Max seating stress: 23,200 psi (160 MPa)
(testing equipment limit)

Recommended seating stress: 5,800 - 8,700 psi (40 - 60 MPa)



TOPOG-E®

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All information in this data sheet is based on data believed to be reliable; however, we make no guarantee or warranty of the performance of Topog-E® Series 5000 gaskets. Due to numerous application-specific factors that can influence service life, it is always advisable to first test Topog-E® Series 5000 gaskets in a particular application to determine their ultimate suitability.