



Product data

- Carrier/Retainer: 316L Stainless Steel with Fully Encapsulating GPT Proprietary Coating
- Primary Sealing Element: Silica Filled PTFE ID-Seal
- Secondary Fire-Safe Sealing Element: NACE MR0175/ISO 15156 Inconel 718 C-ring with GPT Proprietary Coating
- Color: Dark Brown Retainer
- Fluid Service: Oil & Gas
- Maximum Operating Temperature (°F/°C): 500°F/260°C*
- Minimum Operating Temperature: (minus): -300°F/-184°C
- Size: ½ - 48 inch NPS**
- Full Face (Type E) & Type F Available
- Pressure Class: ASME B16.5 150# - 2500#, API 6A 2K- 10K***

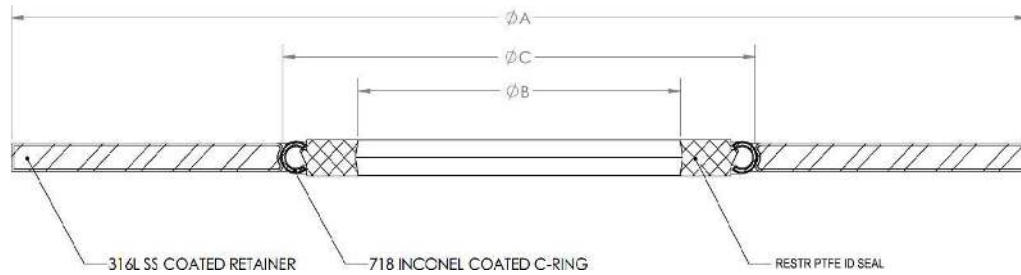
**Note: Temperature rating when using Mica sleeves/washers*

*** Note: API, DN available upon request*

**** Note: ASME B16.47, API 6A, EN 1092, and DIN 2501 flange specification and pressure classes available upon request*

Product Description

Flange isolation gasket composed of a fully encapsulating high dielectric strength thin-film coated stainless steel grade 316L gasket retainer, NACE MR0175/ISO 15156 Inconel 718 C-ring with high dielectric strength thin-film coating, and Silica Filled PTFE ID-Seal where applicable. Lasered with unique identifying markings (e.g. size, pressure class, part number). Standard compressed gasket thickness (T) is 0.125" (~3.2mm).



Production Location

GPT Industries

4990 Iris Street

Wheat Ridge, CO 80033

USA

Phone Number: +1-303-988-1242

Performance/Functional Testing

<u>Type of Test</u>	<u>Testing Facility</u>	<u>Completion Date</u>	<u>Test Value</u> (if applicable)	<u>Acceptance Criteria Met</u>
API PR2 (AMB-260C) 2in 2500# Evolution with Gylon ID-Seal	GPT Industries	10.07.2019	Leakage within 5% allowable at all pressure/temperature cycle steps	Passed
API PR2 (AMB-260C) 2in 2500# Evolution with C-ring Only	GPT Industries	10.07.2019	Leakage within 5% allowable at all pressure/temperature cycle steps	Passed

Hydro-Test 6in 1500# Evolution with Gylon ID-Seal	GPT Industries	10.01.2019	No visible leakage 100% RF-IT Flange to Flange (pre and post-test) 45 GΩ @ 1,000 Vdc Flange to Flange (pre-test)	Passed
Hydro-Test 12in 900# Evolution with Gylon ID-Seal	GPT Industries	8.8.2019	No visible leakage 100% RF-IT Flange to Flange (pre and post-test) 15 GΩ @ 1,000 Vdc Flange to Flange (pre-test)	Passed
Isolation Bolt-Up Test 20in 900#	Ideal Completion Yard	09.23.2019	100% RF-IT Flanges to Core 7.0 GΩ @ 1,000 Vdc Flanges to Core	Passed
Isolation Bolt-Up Test 20in 600#	Ideal Completion Yard	09.23.2019	100% RF-IT Flanges to Core 20 GΩ @ 1,000 Vdc Flanges to Core	Passed
Hydro-Test 6in 1500# Evolution without ID- Seal	GPT Industries	9.04.2019	No visible leakage 100% RF-IT Flange to Flange (pre and post-test) 70 GΩ @ 1,000 Vdc Flange to Flange (pre-test)	Passed
API 6FB Fire Test 6in 300# Evolution with Gylon ID-Seal	Yarmouth Research & Technology	5.29.2019	No leakage	Passed
API 6FB Fire Test 2in 2500# Evolution with Gylon ID-Seal	Yarmouth Research & Technology	12.10.2019	No leakage	Passed

ASTM Salt Fog Test 2in 150# Evolution with Gylon ID-Seal and handle	GPT Industries	10.30.2019	No Red Rust	<5% Red Rust after 1000hrs
ISO 15848-1 Shell Leakage Test – Room Temp 25°C - Helium	Amtec North America, Inc.	12.13.2019	1.78E-08 Pa*m ³ /s/mm	Pass for Class AH
ISO 15848-1 Shell Leakage Test - 260°C - Helium	Amtec North America, Inc.	12.13.2019	1.78E-07 Pa*m ³ /s/mm Class BH	Pass for Class BH
DIN EN 13555 Max Allowable Gasket Stress - Q _{smax} at 25°C	Amtec North America, Inc.	12.13.2019	260 MPa (Q _{smax})	Exceeded Test Unit Limits
DIN EN 13555 Max Allowable Gasket Stress - Q _{smax} at 260°C	Amtec North America, Inc.	12.13.2019	260 MPa (Q _{smax})	Exceeded Test Unit Limits
DIN EN 13555 Modulus of Elasticity - E _G at 25°C	Amtec North America, Inc.	12.13.2019	180,000 Mpa (E _G)	Exceeded Test Unit Limits
DIN EN 13555 Modulus of Elasticity - E _G at 260°C	Amtec North America, Inc.	12.13.2019	180,000 Mpa (E _G)	Exceeded Test Unit Limits
DIN EN 13555 Creep Relaxation Factor – P _{QR} at 25°C (Q = 260 MPa, k = 500 kN/mm)	Amtec North America, Inc.	12.13.2019	1.00 (P _{QR})	No Creep

DIN EN 13555 Creep Relaxation Factor – P_{QR} at 260°C ($Q = 260$ MPa, $k = 500$ kN/mm)	Amtec North America, Inc.	12.13.2019	1.00 (P_{QR})	No Creep
DIN EN 13555 Min Required Gasket Stress in Assembly - $Q_{min(L)}$ ($L=mg/m/s$) – ($p = 40$ bar, 25°C)	Amtec North America, Inc.	12.13.2019	18 MPa ($L_{0.01}$) 61 MPa ($L_{0.00001}$) 144 MPa ($L_{0.000001}$)	N/A
DIN EN 13555 Min Required Gasket Stress in Service - $Q_{smin(L)}$ ($L=mg/m/s$) – ($p = 40$ bar, 25°C)	Amtec North America, Inc.	12.13.2019	10 MPa ($L_{0.01}$) 18 MPa ($L_{0.00001}$) 105 MPa ($L_{0.000001}$)	N/A
High Operational Temperature Test (HOTT) – 260°C, 154.9 MPa, 41.5 bar Helium	Amtec North America, Inc.	12.13.2019	0	No Leakage
Hot Blow-Out Test (HOBT-1) – $T_g=260^\circ\text{C}$, $S_g=59.9$ MPa, 62 bar Test Pressure	Amtec North America, Inc.	12.13.2019	N/A	No Blow-Out
ASTM F37-06 Part B – Nitrogen Sealability Test	Amtec North America, Inc.	12.13.2019	0.00 ml/h	No Leakage
Room Operational Tightness Test (ROTT) – Load Stress Intercept	Garlock Sealing Technologies	9.27.2019	30.56 (G_b)	N/A

Room Operational Tightness Test (ROTT) – Slope of Line	Garlock Sealing Technologies	9.27.2019	0.622 (a)	N/A
Room Operational Tightness Test (ROTT) – Unload-Reload Constant	Garlock Sealing Technologies	9.27.2019	62.25 (G _s)	N/A
Room Operational Tightness Test (ROTT) – Tightness Parameters	Garlock Sealing Technologies	9.27.2019	Min 5.68E+2 (T_p) Max 1.75E+5 (T_p)	N/A
Steam Resistance – 2000 Hour – 350 psig, 430°F	Garlock Sealing Technologies	2000 Hour Still in Process	>1000 hrs no leakage to date 12.20.2019	No Leakage