



# INTEGRA SERIES GASKET

## SEVERE SERVICE CATHODIC ISOLATING GASKETS

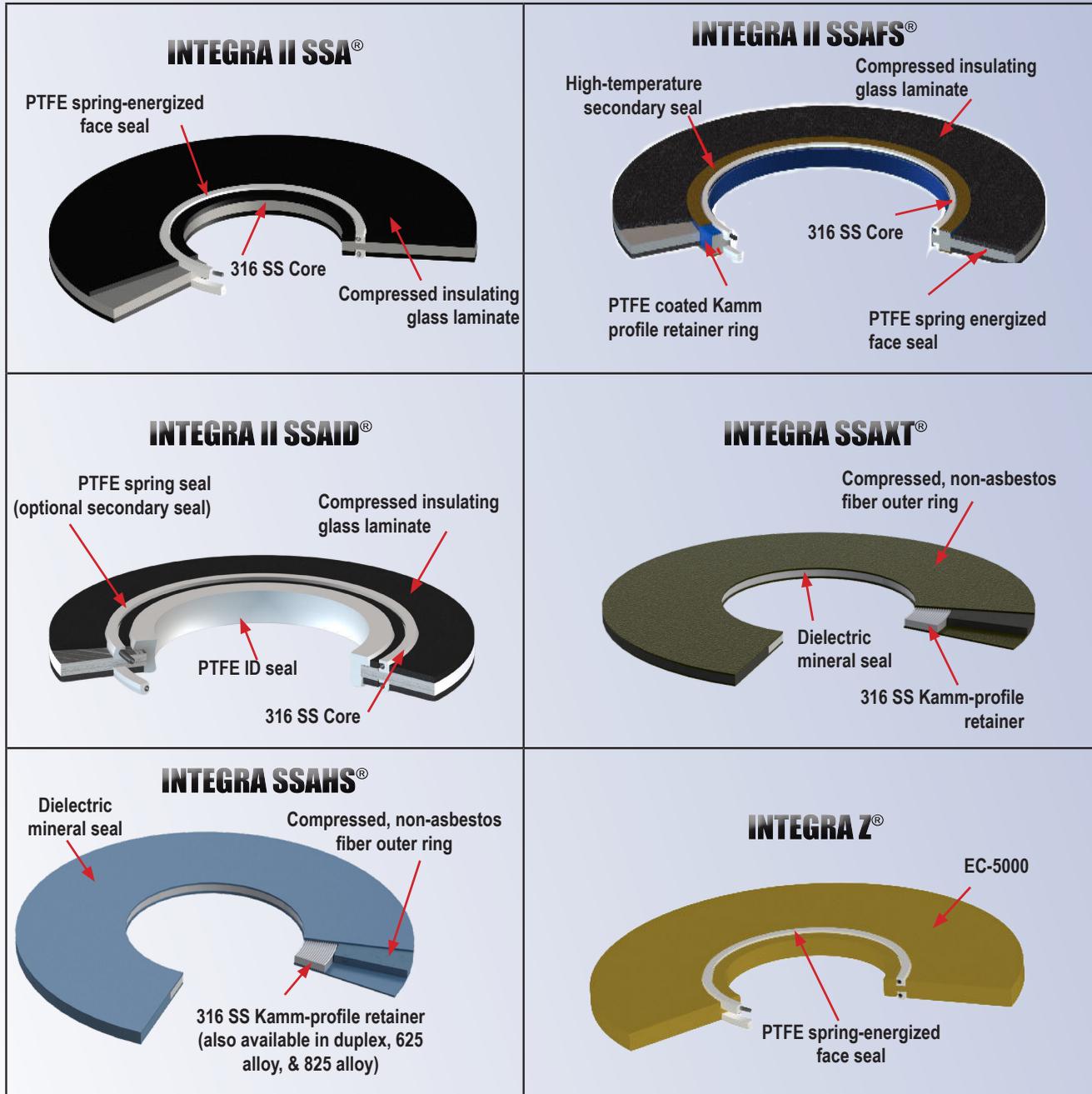
The Integra Series gaskets are exceptionally dependable for isolating and sealing purposes in severe service applications. These gaskets are applicable for:

- Isolating between flanges of dissimilar metals to prevent galvanic corrosion.
- Wellhead isolation from inter-connected flow lines.
- Mating mismatched dissimilar flanges.
- Eliminate turbulence and flow-induced erosion between ring-joint (RTJ) flanges.
- Protect against corrosion on uncoated or scarred flange faces.
- Seal between flanges subjected to vibration/cavitations.
- Eliminate corrosion from forming in the cavities between RTJ flanges where intense modes of hostile chemicals may be present.

GASKETS ONLY						
	INTEGRA II SSA®	INTEGRA II SSAFS®	INTEGRA II SSAID®	INTEGRA XT®	INTEGRA HS®	INTEGRA Z®
<b>Applications</b>	<p>- Severe service applications up to &amp; including ANSI 2500# and API 10,000# classes.</p> <p>-Designed for severe isolating service in harsh environmental applications, especially where hydrocarbons are a factor.</p> <p>-Various sleeve &amp; washer options available.</p>	<p>-Critical fire safe applications</p> <p>- Incorporates high temp sealing characteristics of Kamm profile with a highly dielectric mineral secondary seal.</p> <p>-Severe service applications up to &amp; including ANSI 2500# and API 10,000# classes, API 6FB</p> <p>-Proven zero-free leaks for high sulfur content crude oil or H2S gas fugitive emissions.</p> <p>-Available with hardened-coated steel washers &amp; various sleeve options.</p>	<p>-Suitable for high chloride content or other highly corrosive media.</p> <p>-Zero-free leaks for high sulfur content crude oil or H2S gas fugitive emissions, proven through multiple applications.</p> <p>-Provides reliable PTFE seal at flange bore, providing excellent chemical resistance which enables the gasket retainer material to be impervious to the most aggressive media within the pipe.</p> <p>-Various sleeves &amp; washer options available.</p>	<p>-Critical extreme temperature applications.</p> <p>-Suitable for steam applications.</p> <p>-Combines the reliability of a Kamm profile retainer with the temperature capabilities of a highly dielectric mineral seal.</p> <p>-Kits are available with extreme temperature sleeves &amp; washers.</p>	<p>-Suitable for aggressive chemicals (e.g.: hydrogen sulfide, dry and liquid chlorine).</p> <p>-Incorporates the reliability of a stainless steel Kamm profile ring with a non-asbestos compressed outer retainer ring and hydrogen sulfide-resistant PTFE-based seals on both sides of the gasket.</p> <p>-Effective at sealing across a wide range of chemicals, hydrocarbons, and gaseous mixtures.</p> <p>-Various sleeve &amp; washer options available.</p>	<p>-Cryogenic gasket</p> <p>-EC-5000 retainer material developed for and used by NASA for absolute zero operating temperatures.</p> <p>-Various sleeve &amp; washer options available.</p>
<b>Max Operating Temp</b>	G10: 302°F(150°C) G11: 400°F(205°C)	G10: 302°F(150°C) G11: 400°F(205°C)	G10: 302°F(150°C) G11: 400°F(205°C)	800°F(427°C)	Variable depending on washers/sleeves	Absolute zero operating temperature -273°C / -459°F
<b>Compressive Strength</b>	G10: 66,000 PSI G11: 58,000 PSI	G10: 66,000 PSI G11: 58,000 PSI	G10: 66,000 PSI G11: 58,000 PSI	316 SS: 85,000 PSI	316 SS: 85,000 PSI	65,000 PSI
<b>Dielectric Strength</b>	G10: 800 VPM G11: 550 VPM	G10: 800 VPM G11: 550 VPM	G10: 800 VPM G11: 550 VPM	635 V/mil (25 kV/mm)	406 V/mil (16 kV/mm)	670 VPM
<b>Water Absorption</b>	G10: 0.04% G11: 0.08%	G10: 0.04% G11: 0.08%	G10: 0.04% G11: 0.08%	Mica: 0.99%	Durlon 9000: .086%	0.10%
<b>Flexural Strength</b>	G10: 65,000 PSI G11: 58,000 PSI	G10: 65,000 PSI G11: 58,000 PSI	G10: 65,000 PSI G11: 58,000 PSI	316 SS: 30,000 PSI	316 SS: 30,000 PSI	75,000/65,000 PSI
<b>Tensile Strength</b>	G10: 51,000 PSI G11: 41,000 PSI	G10: 51,000 PSI G11: 41,000 PSI	G10: 51,000 PSI G11: 41,000 PSI	Mica: 20,300 PSI 316 SS: 44,000 PSI	316 SS: 44,000 PSI	45,000/38,000 PSI
<b>Bond Strength</b>	G10: 2,600 lb. G11: 2,200 lb.	G10: 2,600 lb. G11: 2,200 lb.	G10: 2,600 lb. G11: 2,200 lb.	N/A	N/A	2,300 lb.
<b>Shear Strength</b>	G10: 22,000 lb. G11: 21,200 lb.	G10: 22,000 lb. G11: 21,200 lb.	G10: 22,000 lb. G11: 21,200 lb.	316 SS: 71,800 PSI	316 SS: 71,800 PSI	22,000 lb.



The **Gasket Bolt Torque Calculator** is intended to be used as a guide only and based on ideal conditions, flanges without flaws, flange alignment and new well lubricated bolts/nuts, according to the National Boiler Code and installed in accordance with the APS Flange Sequence Procedure. The gasket seating surface should be free from scratches, pits, deposits or gouges greater than specified in ASME PCC-1 (surface finish should not exceed 250 AARH). Torque values are based on using weld neck flanges.



REV 021023

**FOR MORE INFORMATION  
PLEASE CONTACT US  
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