

The Ultimate Sealing Gasket



ADVANCE PRODUCTS & SYSTEMS

Integra SSA[®]

Cathodic Isolation Gaskets

Patent Pending

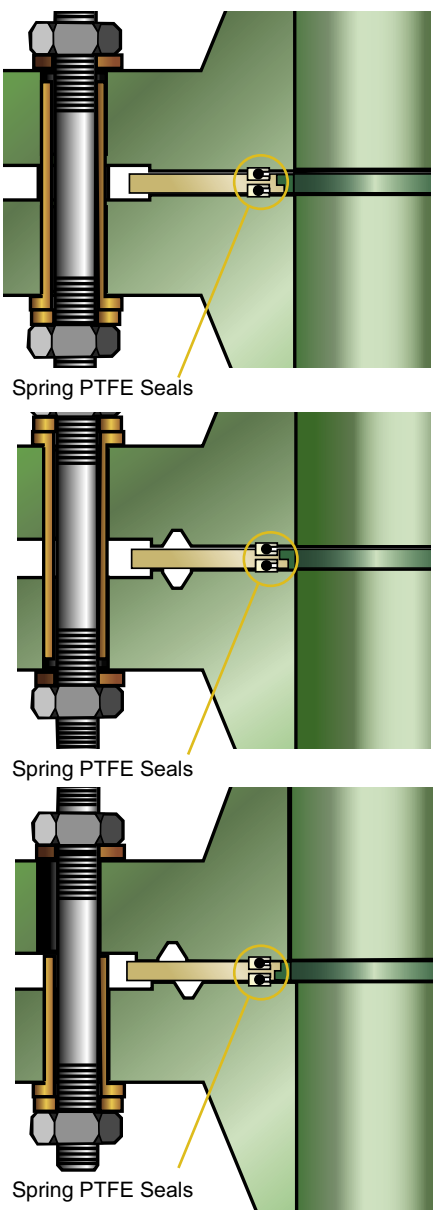
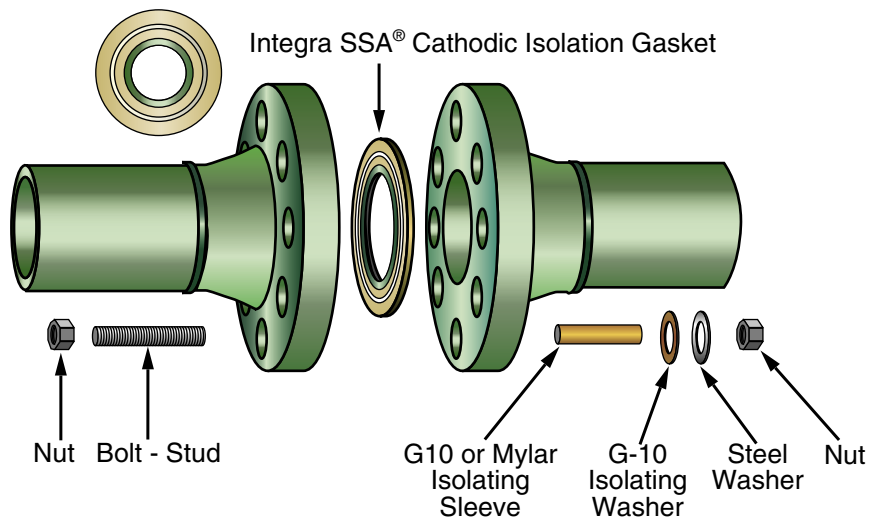


INTEGRA SSA® CATHODIC ISOLATION GASKETS

The Integra SSA® Cathodic Isolation Gasket is manufactured from proprietary G-FORCE 2000®, a special glass epoxy material with an impressively high compression strength; these materials are proprietary materials produced only for Advance Products & Systems. The Integra SSA® Cathodic Isolation Gasket is composed by bonding two materials in a step-joint of each material. The G-Force 2000® flat laminate is the composition of the outer gasket, and the spiral wound epoxy tube is the composition of the center core. This APS exclusive design contributes to the excellent mechanical strength as well as to the dynamic electrical isolating properties of the Integra SSA® Cathodic Isolation Gasket allowing it to perform efficiently and effectively in severe service applications under extreme pressures and elevated temperatures. Integra SSA® gaskets provide an outstanding sealing capability while installed in extremely high pressure applications; it can be installed in flanges from ANSI 150# to ANSI 2500# up to an API 10,000# flange. Integra SSA® gaskets have excellent electrical properties while at elevated temperatures. During mechanical operations, Integra SSA® gaskets can operate at 374°F.

Inserted in the gasket is a glass-reinforced, spring energized PTFE seal to assist in maintaining a high pressure, chemically resistant seal within the flange. Incorporated within the PTFE seal, a 316 stainless steel coil spring provides additional compression with minimal cold flow. These characteristics allow constant pressure to be applied, with low cold flow characteristics ultimately providing an outstanding seal and cathodically isolating the flange for superior reliability.

Integra SSA® gaskets are manufactured to accommodate RTJ, full and raised face flanges. All kit components include either G-10 or Mylar sleeves and G-10 isolating washers when Integra SSA® gaskets are installed. The standard thickness of the gasket is as follows: 1/4" up to ANSI 900# ; 3/8" up to ANSI 1,500# and API 10,000# and anything above.



SEVERE SERVICE CATHODIC ISOLATION

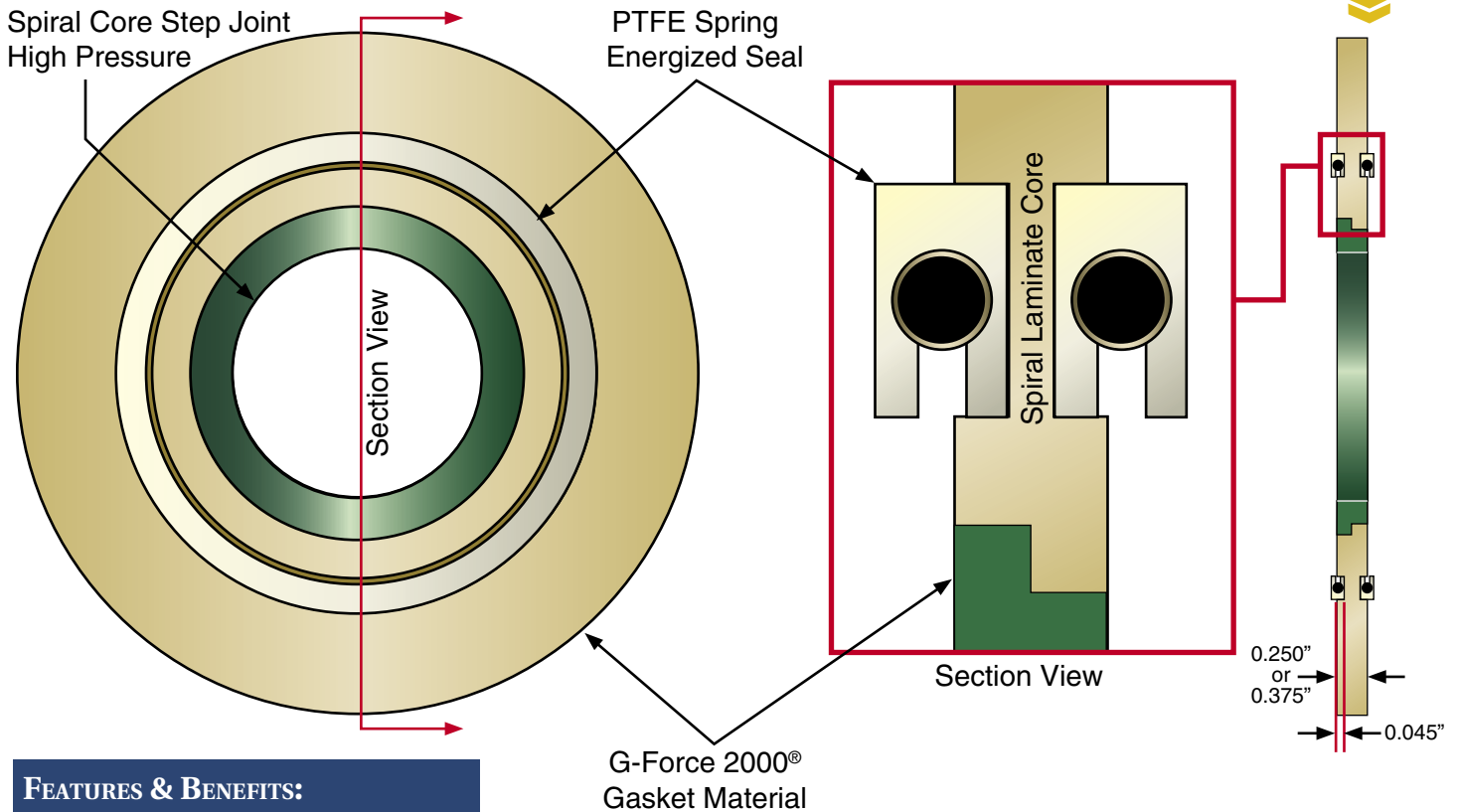
When used with isolating sleeves and washers, the Integra SSA® is effective in eliminating electrical conductivity and also in preventing corrosion that results from contact between two dissimilar metals.

SPRING ENERGIZED PTFE SEALING CHARACTERISTICS

The strength and reliability of the Integra SSA® makes it a perfect replacement for a missing or faulty RTJ gasket.

VERSATILITY

Mismatched and misaligned flanges are easily sealed with the Integra SSA®.



FEATURES & BENEFITS:

- Electrically isolates effectively for all pipeline and piping applications.
- Ensures a stringent seal in volatile applications.
- ANSI 150# up to API 10,000# ratings.
- The gasket is designed for severe pressure and temperature applications
- Composition is of proprietary G-Force 2000® material with a compressive strength of 91,000 PSI.
- Stainless Steel Spring-fortified PTFE seal uses a glass reinforced PTFE with low cold flow characteristics. Also available in Viton.
- These gaskets are constructed from an extremely high compressive strength material formulated for high temperatures. Integra SSA® gaskets are manufactured in 1/4 inch to 3/8 inch thick material depending on application.
- APS Integra SSA® gaskets have no metal core substrate material as part of its sealing and mechanical application.*

G-Force 2000® material is a flat epoxy laminate woven glass material. The high pressure inner coil is made from spiral wound epoxy tube. The continuous operating temperature is 374° F, 190° C in mechanical applications. This material meets NEMA Fiberglass and MIL-1-24768/3, Type GEB. Material Tested: 0.250 & 0.375 thickness.

TYPICAL PROPERTIES

GENERAL PHYSICAL PROPERTIES	UNITS	VALUE
Rockwell Hardness (.125)	M Scale	111
Moisture Absorption (.125)	%	0.12
Flexural Strength	psi	80,000
Tensile Strength LW	psi	61,000
Compressive Strength flatwise (.500")	psi	91,000
Maximum Operating Temperature	°C	190 ^{1,2}

*Note: A metal core gasket requires a very thin bond to attach the composite material to the metal, which is prone to cracking under the high stress gaskets can endure in grooved flange faces. When delamination is encountered, not only is the bond compromised, but so is the electrical isolation. This ultimately results in internal corrosion and electrical isolation failures.

TO ORDER PLEASE SPECIFY THE FOLLOWING

1. Flange Specification
(ANSI/ASME, API, MSS SP44, BSI or Din Standard)
2. Nominal Pipe Size, Pressure Rating and Bore Size
3. Operating Pressure, Temperature and Media
4. Isolating Sleeve Material
5. Isolating Washer Material
6. Metal Washer Material (SS/Zinc Steel)

OTHER PRODUCTS AVAILABLE

- Kleerband® Flange Protectors
- Radolid® Nut Protection Caps
- Casing Insulators and End Seals
- Innerlynx® - Modular Mechanical Seals
- Monolithic Isolators
- Foreman Night Caps - temporary pipe plugs
- Standard Isolating Gasket Kits
- U-Bolt Cote® - Coated U-bolts



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APS Warranty

All products are warranted against failure caused by manufacturing defects for a period of one year. Any product found to be so defective and returned within one year of shipment date will be replaced without charge.

The above warranty is made in lieu of, and APS disclaims any and all other warranties expressed or implied, including the warranties of merchantability and fitness for a particular purpose and buyer agrees to accept the products without any such warranties.

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