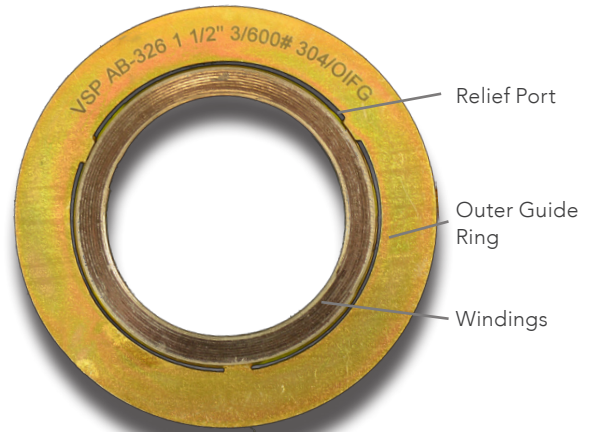




AB-326™ Anti-Buckling Low Stress Spiral Wound Gasket

Spiral wound gasket designs require higher seating stresses than most chemical processing pipe flanges allow.

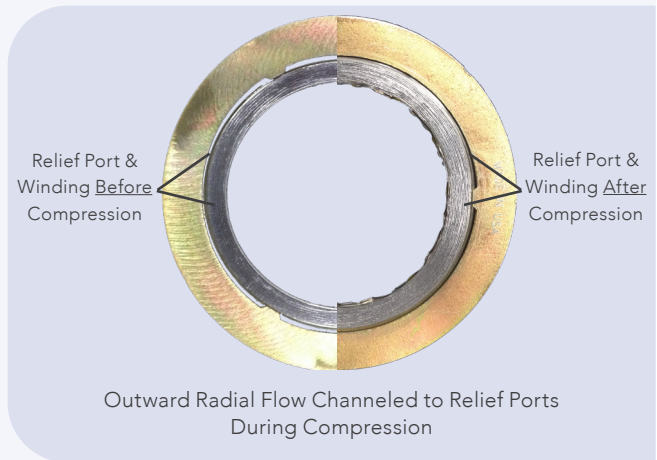
The AB-326 anti-buckling spiral wound gasket seats at 5,000 psi vs. conventional standard or inner ring spiral wound gaskets. VSP's innovative anti-buckling design prevents the radial flow of the sealing element.



Prevents radial buckling without the use of inner rings - for use on all ASME 16.5 flange types, sizes, and pressure classes.

- ▶ Channels outward radial flow to the relief ports, preventing radial buckling and unwinding.
- ▶ Eliminates any foreign material damage from downstream process equipment
- ▶ Out performs conventional spiral wound gaskets delivering high tightness low emission performance
- ▶ Suitable for all pipe sizes and pressure classes
- ▶ Seats lower psi for low assembly torque

Seats at 5,000 psi compared to conventional spiral wounds seating at 7,500 to >10,000 psi

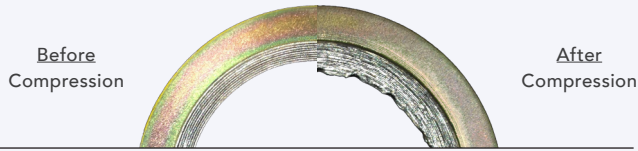


VSP Technologies deploys a team of Engineers and Fluid Sealing Specialists who provide engineered solutions for your unique sealing requirements.

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AB-326 COMPARISON

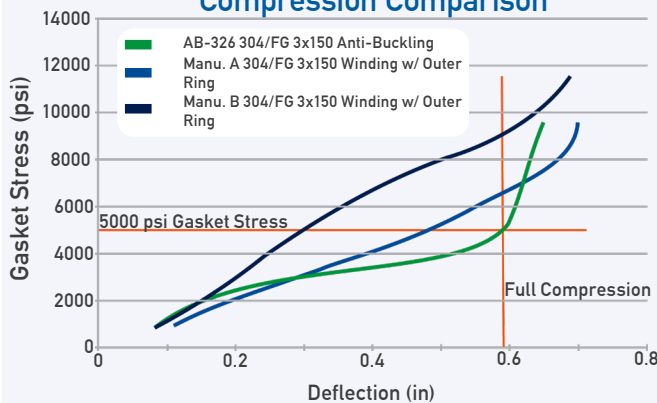
Standard Spiral Wound with Outer Ring



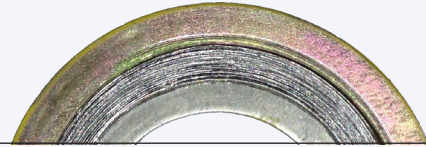
Standard spiral wound outer rings cause inward gasket flow when compressed. VSP AB-326 relief ports channel gasket flow away from the ID.

- ▶ Less inward radial flow
- ▶ Seating stress reduced by as much as 50%

Compression Comparison



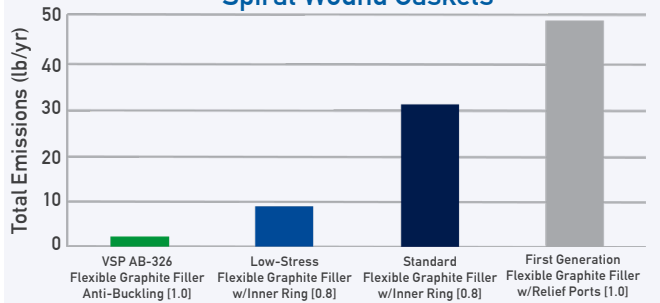
Standard Spiral Wound with Outer Ring and Inner Ring



Inner Rings are incorporated into standard spiral wound gaskets to prevent inward buckling & unwinding.

- ▶ Stiffens ID of the gasket but does not address the underlying cause of buckling
- ▶ Provides little or no sealing advantage
- ▶ Confines gasket flow resulting in high torque requirements

Fugitive Emissions Comparison for Leading Spiral Wound Gaskets



Spiral Wound Gasket Design & Filler [Stress Retention Coefficient]

Product Specifications

Temperature Range	ePTFE = 500°F ePTFE/FG Filler = 600°F OIFG Filler (Standard) = 1000°F TerMica XHR = 1500°F
Pressure Resistance	Full vacuum to maximum flange rating
Standard Construction	304/OIFG 316/ePTFE 316/OIFG 316/TerMica XHR 316/ePTFE/FG InpHerno
ASME Gasket Factors	m=3.0 y=5,000 psi
ROTT Gasket Factors	G _B =644 psi a=0.341 G _S =5.8 psi

*OIFG - Oxidation Inhibited Flexible Graphite

- ▶ Accommodates the inherent radial compression behavior of spiral winding and minimizes radial buckling forces
- ▶ Fit all slip-on, lap joint and, weld neck/socket weld type flanges
- ▶ Best available control technology for emissions performance

Available Dual-Flange Design

- ▶ Fit both 150 & 300 Class flanges
- ▶ Available for non-standard pressure vessel equipment flanges



Ensure complete mechanical and specification compliance with VSP's AB-326 Torq-Kit™



All flange rework components in one box with assembly instructions to ensure reliable performance

Contact VSP for Ordering Information