

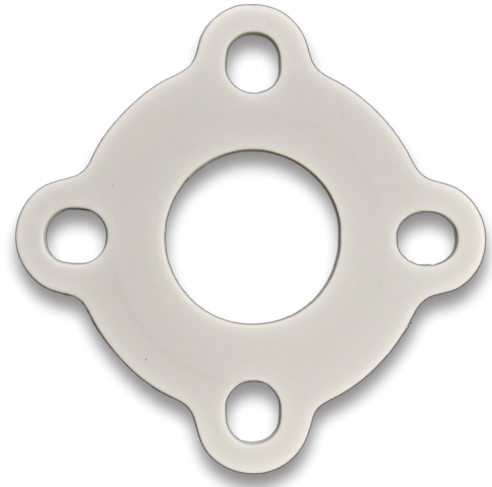


VSP PITA® DNA™ for Tank Containers

Gaskets designed to fit both DIN and ASME standard flanges

PITA DNA

VSP combined DIN/ASME Gasket Standards (DNA™) with Patented PITA technology to create a solution specifically designed for the tank container industry. This “energized” gasket technology with wide chemical compatibility provides a higher tightness seal on both DIN and ASME flanges requiring only one gasket and thus reducing inventory.



PITA DNA combines all the advantages of the PITA gasket with VSP's proprietary OPRA reduced area technology

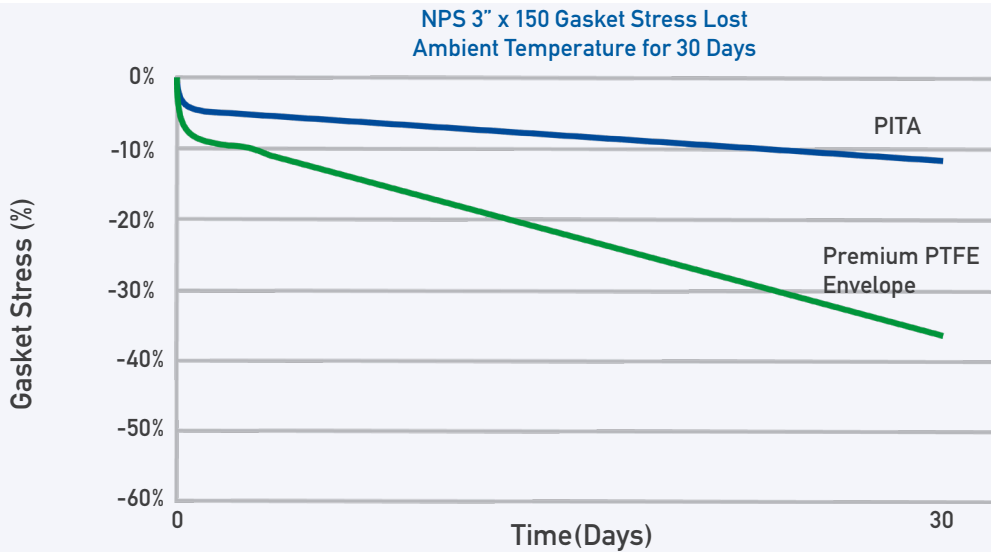
- ▶ Encapsulated, corrugated stainless steel insert “energizes” gasket performance
- ▶ 100% expanded PTFE provides widest range of chemical compatibility
- ▶ Superior sealing, thermal cycling, and pressure resistance
- ▶ Seals against corroded and pitted flange surfaces
- ▶ Low life cycle costs
- ▶ Ideal for cryogenic service
- ▶ Reduced area allows a low minimum sealing stress
- ▶ Minimal torque loss after thermal and pressure cycling
- ▶ Multiple bolt configurations will fit many different valve and flange styles



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

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**COMPARISON OF GASKET STRESS RETENTION:
PITA® AND PREMIUM PTFE ENVELOPE**



Product Specifications

Temperature Range	Max= 600°F Min= -330°F
Pressure Resistance	Full vacuum to maximum flange rating
Chemical Resistance	All chemical services (pH 0-14) except molten alkali metals, elemental fluorine and aggressive tri-fluoride compounds
ASME Gasket Factors	m=2.5 y=1,200 psi
PVRC Gasket Factors (PVRC ROTT)	$G_B=263$ psi a=0.299 $G_S=2.93E-10$ psi
Tightness & Sealability (PVRC ROTT)	$T_{p(max)}=33,749$ $T_{p(min)}=13,454$
Stress Required to Achieve Helium Leak Rate of 1.02E-04 (mg/sec) @ 150 psig (NPS 4x150 Ring Gasket)	2,078 psi
Safe Reserve Operating Temperature (HOBT2 with Cycles)	500°F ASME Class 150 Service 450°F ASME Class 300 Service
Standard Thickness	1/8" nominal

Capabilities & Performance

VSP's PITA DNA provides the highest level of performance, chemical compatibility and long-term reliability for tank containers

The reduced area, encapsulated insert-spring technology develops high compressive stress, at low to moderate bolt loads, resulting in long term seal reliability even in cyclic conditions

Sealability

- ▶ Low minimum seating stress
- ▶ Increased blow-out resistance
- ▶ Best sealing performance with low strength A2-70 SS fasteners used on tank container equipment

Ensure complete mechanical and specification and compliance with VSP's PITA DNA Torq-Kit



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

Contact VSP for ordering information