



Gasket Catalog for Liquid & Gas Tank Containers

8140 Quality Drive, Prince George, VA 23875
800-334-6013 • vsptechnologies.com

Kingsport, TN | Houston, TX | Parkersburg, WV | Lake Charles, LA | Baton Rouge, LA | Minneapolis, MN

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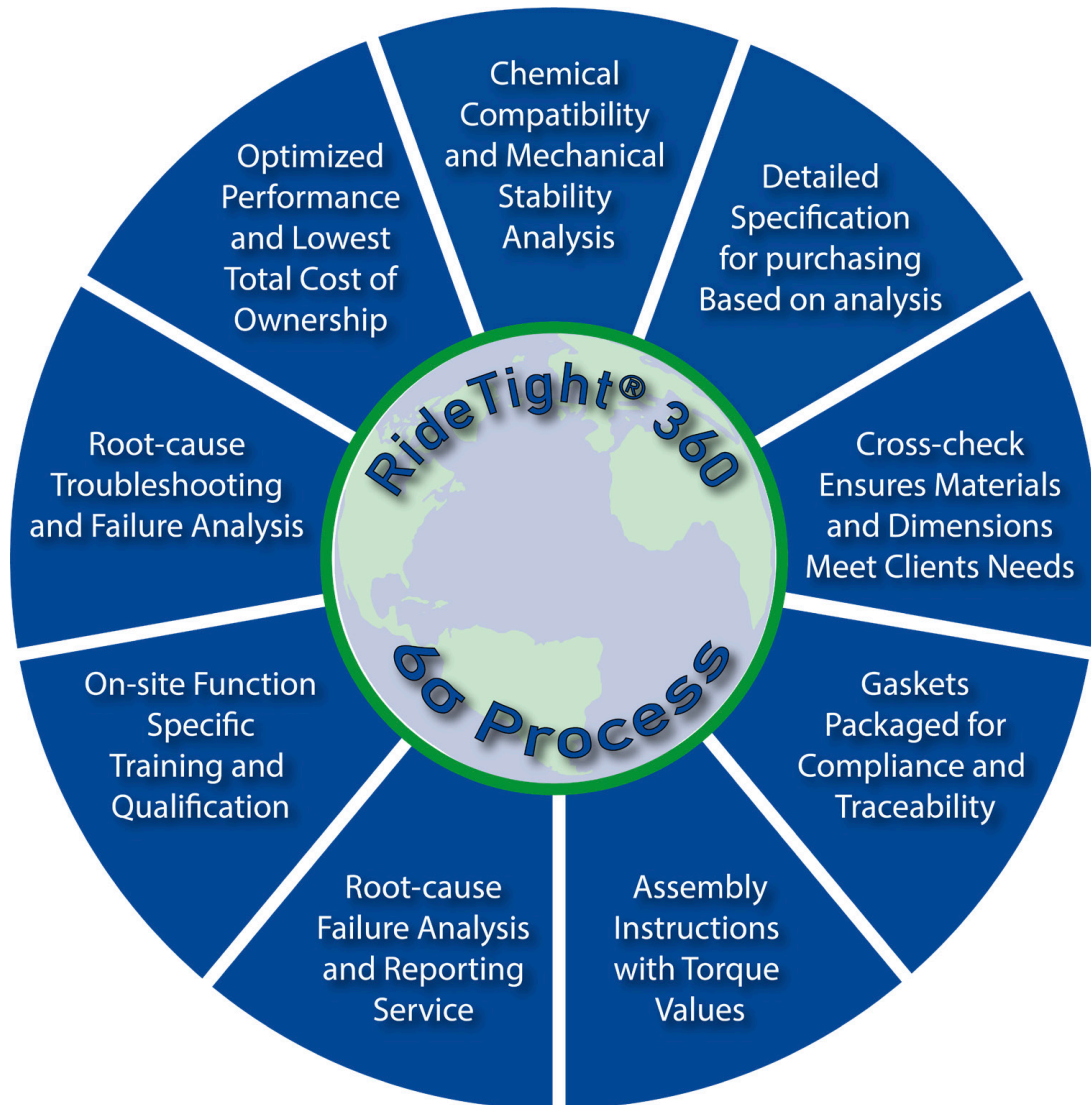
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RIDETIGHT® PROGRAM



Assembly Sheet



On-Site and Virtual Training for Shippers, Repair Shops, and Third-Party Loaders

Shop Location 

Tank #

Connection

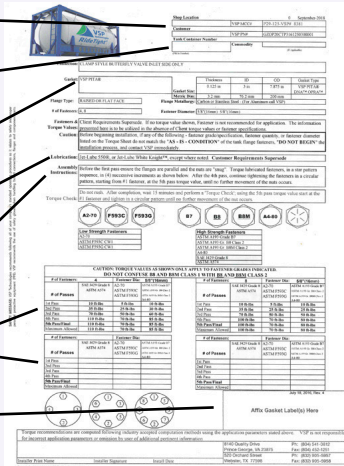
Lubrication Specification

Assembly Instructions

Torque Values & Sequence

Gasket Validation Label

Installation Sign-Off & Date

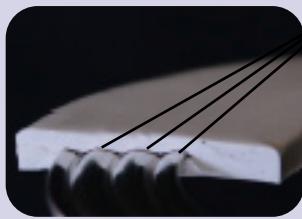


The form includes sections for: Shop Location, Tank #, Connection, Lubrication Specification, Assembly Instructions, Torque Values & Sequence, Gasket Validation Label, and Installation Sign-Off & Date. It also features a diagram of a tank with numbered ports and a table of torque values.

PITA® GASKETS

The product is made of 100% pure ePTFE, and it leaves no glue residue or foreign contaminants.

- ▶ Corrugated 316 stainless steel insert fully encapsulated in expanded PTFE
- ▶ Insert provides high thermal cycling/operating tightness
- ▶ 2X blowout resistance
- ▶ Lower relaxation and torque loss
- ▶ 100% expanded PTFE with no adhesive for broad chemical compatibility and zero process contamination
- ▶ Unlimited shelf life
- ▶ Leak-free service for 5-year hydrostatic testing with no gasket change out



Point Contact Loading

Corrugated Peaks: Defined contact points lead to increased stress on the seal compared to traditional virgin PTFE, filled PTFE, or ePTFE gaskets.

U.S. Patents 7,455,301 & 8,066,843



PITA® DNA™ GASKETS

Unleashing Superior Performance: Unmatched Chemical Compatibility and Long-Term Reliability for Tank Containers

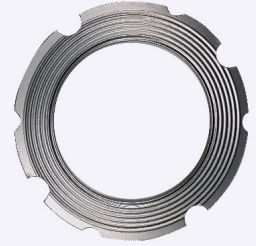
- ▶ DNA™ design: One gasket fits DIN and ASME flanges, reducing inventory
- ▶ Fits multiple valve/flange types
- ▶ Designed for tank containers



ECO316® GASKETS

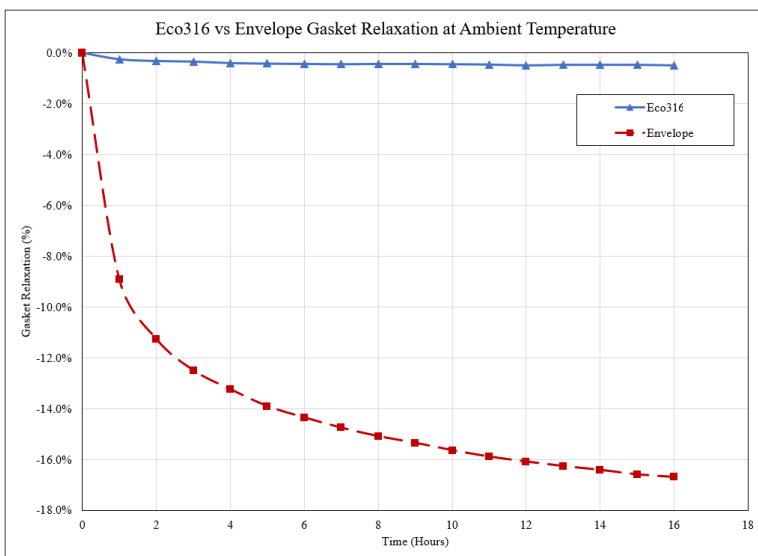
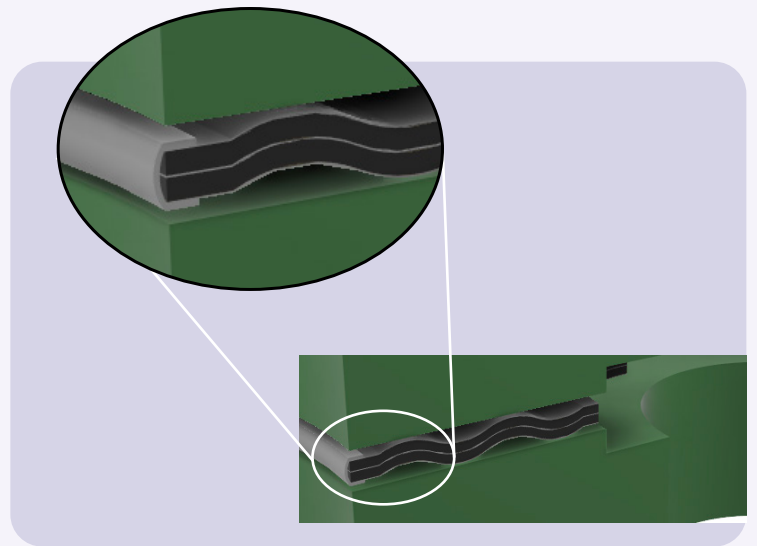
Elevating Sealing Performance: Low Emission Gaskets for Optimal Efficiency and Sustainability

- ▶ Completely encapsulated flexible graphite with 316 stainless steel outer layer and ultra-thin PTFE coating
- ▶ 100% recyclable and reduces PFAS
- ▶ High purity – food grade approved
- ▶ Fire safe - Suitable for flammable and elevated temperature applications
- ▶ Mitigates product loss – Provides high-tightness sealing



- ▶ Reduces:
 - ▶ Leaks in transit
 - ▶ Fugitive emissions
 - ▶ Toxic environmental impact

**Leak-free service for
5-year hydrostatic testing
with no gasket change out**



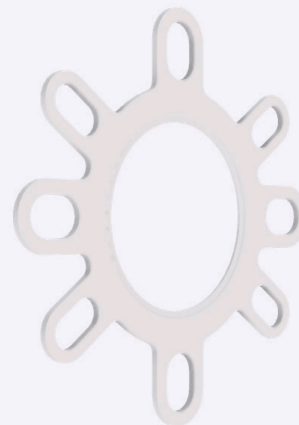
**The Eco316® relaxed 0.5%
over 16 hours, while the
Envelope relaxed 16.7%.**



ENCASE™ GASKETS

Seal the Future: Envelope Gaskets Redefined for Tank Container

- ▶ 100% virgin expanded PTFE (ePTFE)
- ▶ Impermeable ePTFE outer shell
- ▶ Compressible ePTFE core
- ▶ All components are ePTFE, ensuring the broadest chemical compatibility
- ▶ Unlimited shelf life
- ▶ Hydrophobic (does not absorb water)
- ▶ Extended life-cycle compared to related products

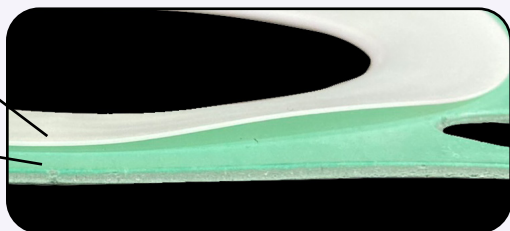


- ▶ Minimal torque loss, even at high temperatures during steaming
 - ▶ Long lifespan
 - ▶ No retorque required

Conventional Envelope Gasket

PTFE Envelope

Filler.

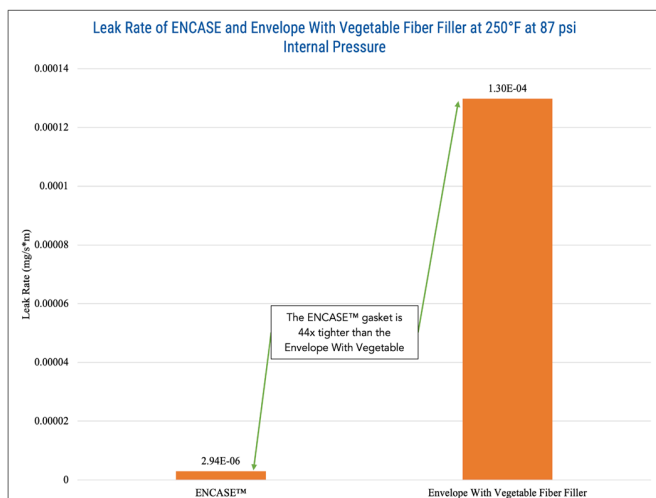
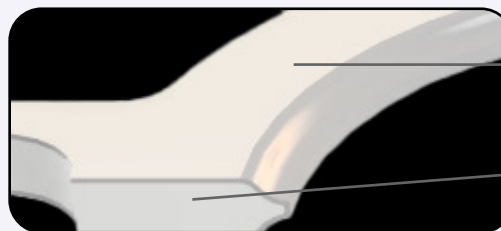


Vs.

ENCASE™

Non-permeable ePTFE barrier

Conformable, 100% ePTFE creep resistant — filler



6-bolts

4-bolts

CYCLETIGHT® GASKETS

Expertly Crafted for Gas & Liquid Tank Manways Bolt-Down

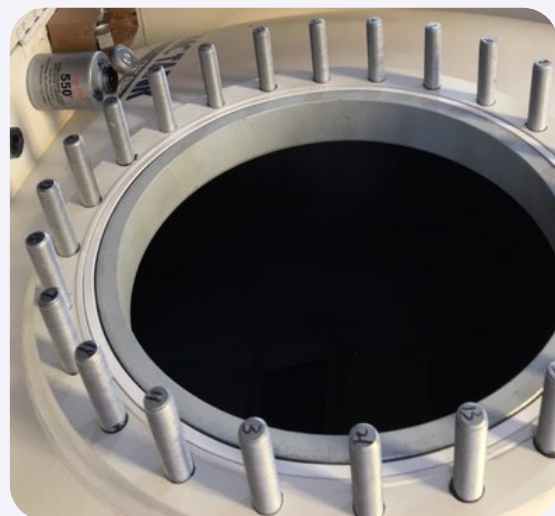
- ▶ Corrugated 316 stainless steel insert encapsulated in expanded PTFE
- ▶ Broad range of chemical resistance
- ▶ High purity/non-contaminating
- ▶ Low stress to seal
- ▶ Minimal relaxation and torque loss
- ▶ Excellent dynamic response to vibration and thermal cycles
- ▶ Provides protection against cut through, cracks, and distortion
- ▶ Spring action allows for multiple trips



Gas Tank T50



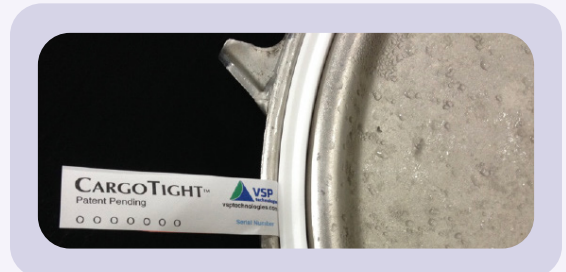
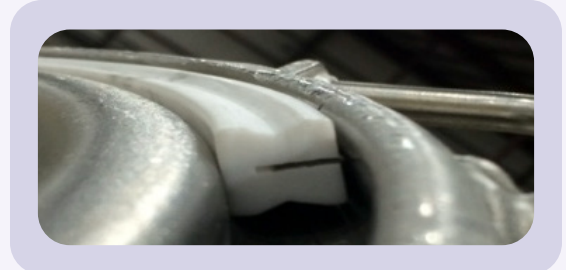
Liquid Tank T18-22



CARGOTIGHT® GASKETS

CargoTight Gaskets: Precision-Engineered Exclusively for Hinged Manways

- ▶ Chemically inert complying with FDA 21 CFR 177.1550 using non-contaminating Virgin PTFE
- ▶ Engineered self-centering technology through V-Notch™, which centers CargoTight on the manway nozzle
- ▶ Engineered V-Notch and dynamic stainless steel spring core work together, minimizing the effects of gasket relaxation
- ▶ Double-sided V-Notch makes the gasket reversible
- ▶ Available in 300mm, 460mm & 500mm sizes to fit all common tank container manways
- ▶ Easy to install and stays in place through utilizing interference fit



Pneumatic & Hydrostatic Test Results (Conforming to 49CFR 180.605)

Pneumatic Test 30 psig	Controlled Torque Assembly (60 ft-lbs)
1st Use	Pass
2nd Use	Pass
3rd Use	Pass
4th Use	Pass
5th Use	Pass
6th Use	Pass
7th Use	Pass

Hydro Test 52.5 psig	Controlled Torque Assembly (60 ft-lbs)
1st Use	Pass
2nd Use	Pass
3rd Use	Pass
4th Use	Pass

Increasing Flange Reliability

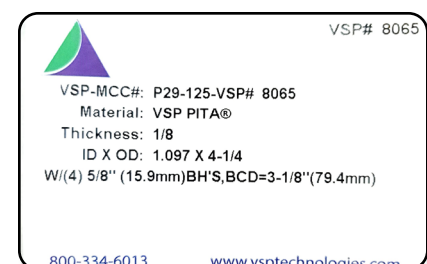
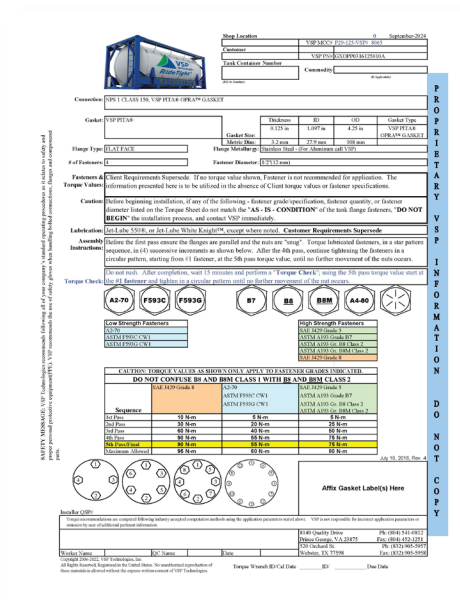
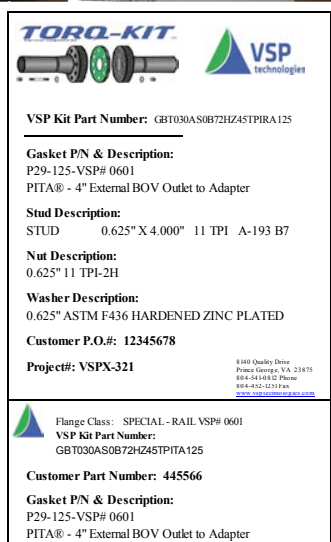
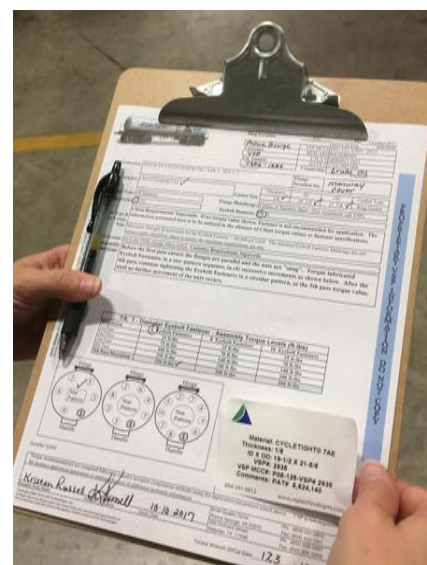
RideTight® Compliant Gasket & Assembly Instructions

Project Specific Nuts & Washers

Lubrication Recommended

(Single use packets or large cans available)

Project Specific Stud/Bolts

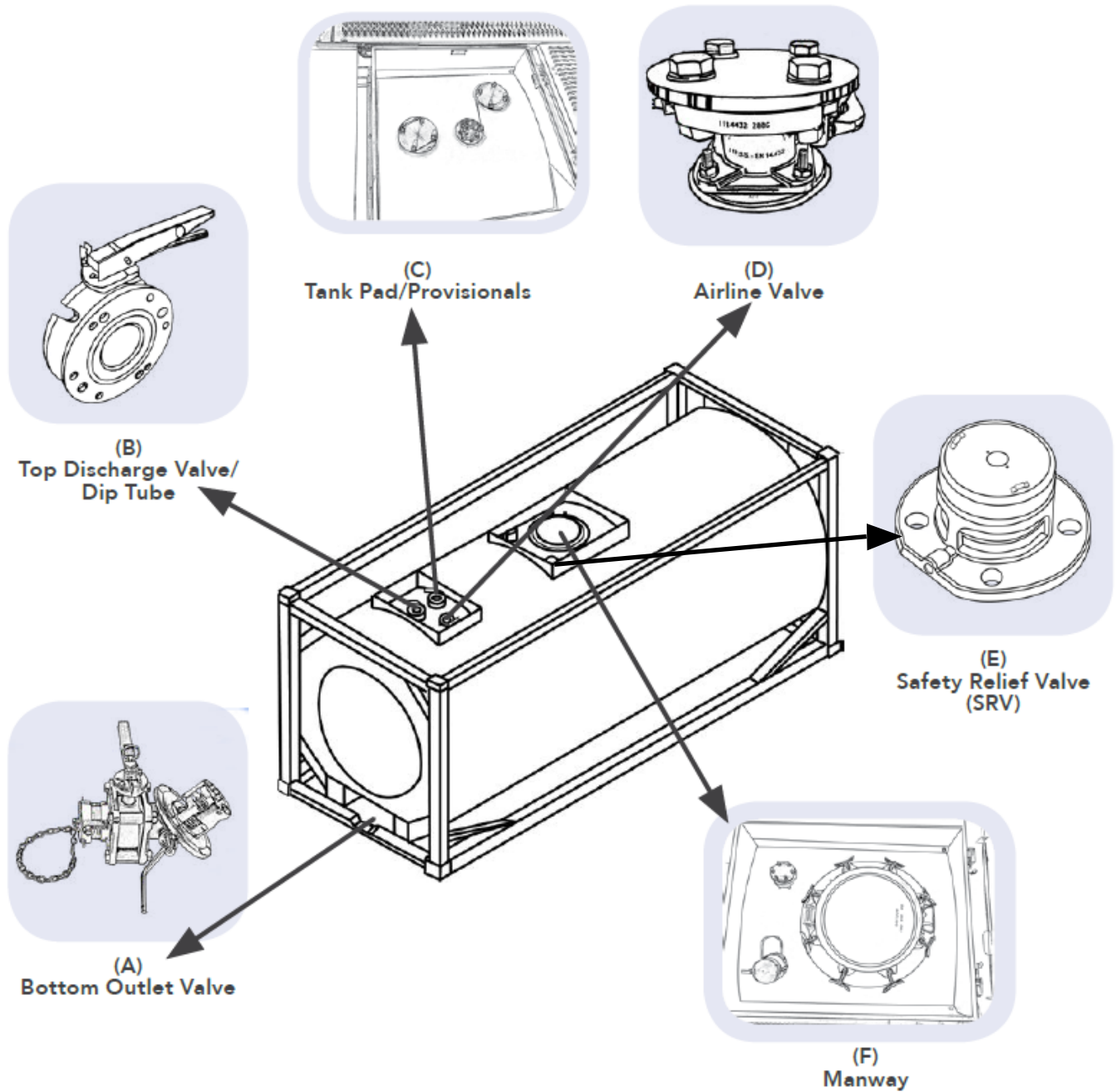


Kit Label

Assembly Guide

Assembly Check Label

LIQUID TANK CONNECTIONS

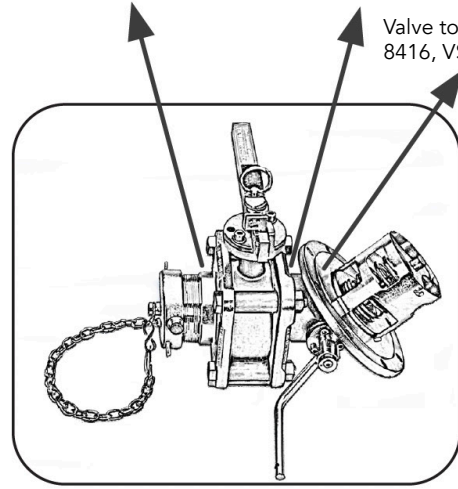
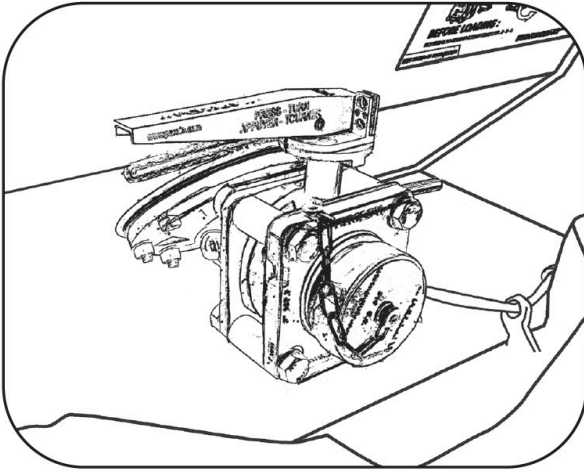


(A) BOTTOM OUTLET VALVE

Valve Outlet Side: VSP# 8383,
VSP# 8384, VSP# 8373, VSP# 8343

Valve Inlet Side: VSP# 8381, VSP#
8341, VSP# 8378, VSP# 8372

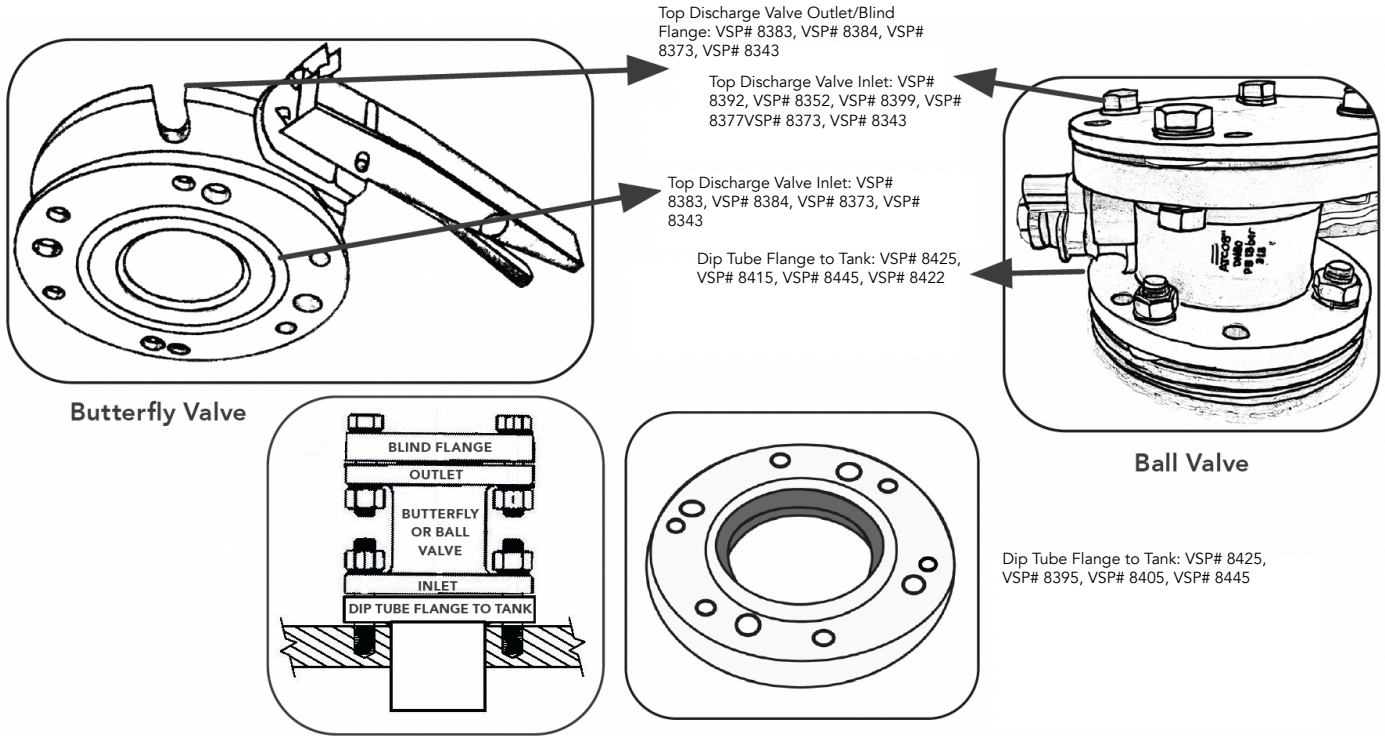
Valve to Tank: VSP# 8514, VSP#
8416, VSP# 8534, VSP# 8517



VSP#	Connection	Flange Type	Gasket Type	THK	ID	OD	Full Face Dimensions	# of Bolts	Bolt Diameter	Gasket Design
VSP# 8514	LIQUID TANK INTERNAL FOOT VALVE FLANGE, (4 AND 8 BOLT) - FT. VALE, PEROLO, GIRARD	RAISED OR FLAT FACE	PITA®	0.125in (3.2mm)	4.750in (120.7mm)	8.188in (208.0mm)	W/(4) 9/16" (14.3mm) AND (4) 3/4" (19.1mm) HOLES, BCD=7" (177.8mm)	4, 8	1/2" (12mm), 5/8" (16mm)	
VSP# 8534	LIQUID TANK INTERNAL FOOT VALVE FLANGE, (4 AND 8 BOLT) - FT. VALE, PEROLO, GIRARD	RAISED OR FLAT FACE	Eco316™	0.078in (2.0mm)	4.750in (120.7mm)	6.438in (163.5mm)	W/(4) 3/4" (19.1mm) NOTCHES ON A BCD=7" (177.8mm)	4, 8	1/2" (12mm), 5/8" (16mm)	
VSP# 8517	LIQUID TANK INTERNAL FOOT VALVE FLANGE, (4 AND 8 BOLT) - FT. VALE, PEROLO, GIRARD	RAISED OR FLAT FACE	ENCASE™	0.0625in (1.6mm)	4.528in (115.0mm)	8.188in (208.0mm)	W/(4) 9/16" (14.3mm) AND (4) 3/4" (19.1mm) HOLES, BCD=7" (177.8mm)	4, 8	1/2" (12mm), 5/8" (16mm)	
VSP# 8416	LIQUID TANK INTERNAL FOOT VALVE FLANGE, (4 AND 8 BOLT) - FT. VALE, PEROLO, GIRARD	RAISED OR FLAT FACE	Envelope	0.125in (3.2mm)	4.750in (120.7mm)	8.187in (207.9mm)	W/(4) 9/16" (14.3mm) AND (4) 3/4" (19.1mm) HOLES, BCD=7" (177.8mm)	4, 8	1/2" (12mm), 5/8" (16mm)	
VSP# 8381	CLAMP STYLE BUTTERFLY VALVE INLET SIDE ONLY	RAISED OR FLAT FACE	PITA®	0.125in (3.2mm)	3.000in (76.2mm)	7.870in (199.9mm)	W/(4) 3/4" (19.1mm) SLOTS, BCD=5.984" (152.0mm) TO 6.299" (160.0mm)	4, 8	5/8" (16mm)	
VSP# 8341	CLAMP STYLE BUTTERFLY VALVE INLET SIDE ONLY	RAISED OR FLAT FACE	Eco316™	0.078in (2.0mm)	3.000in (76.2mm)	5.437in (138.1mm)	W/(4) 3/4" (19.1mm) NOTCHES ON A BCD=5.984" (152.0mm)	4, 8	5/8" (16mm)	
VSP# 8378	CLAMP STYLE BUTTERFLY VALVE INLET SIDE ONLY	RAISED OR FLAT FACE	ENCASE™	0.0625in (1.6mm)	3.000in (76.2mm)	7.870in (199.9mm)	W/(4) 3/4" (19.1mm) SLOTS, BCD=5.984" (152.0mm) TO 6.299" (160.0mm)	4, 8	5/8" (16mm)	
VSP# 8372	CLAMP STYLE BUTTERFLY VALVE INLET SIDE ONLY	RAISED OR FLAT FACE	Envelope	0.125in (3.2mm)	3.000in (76.2mm)	7.870in (199.9mm)	W/(4) 3/4" (19.1mm) SLOTS, BCD=5.984" (152.0mm) TO 6.299" (160.0mm)	4, 8	5/8" (16mm)	
VSP# 8383	NPS 3 CLASS 150/DIN 80 PN 16	RAISED OR FLAT FACE	PITA®	0.125in (3.2mm)	3.500in (88.9mm)	7.870in (199.9mm)	W/(4) 3/4" (19.1mm) SLOTS, BCD=5.984" (152.0mm) TO 6.299" (160.0mm)	4, 8	5/8" (16mm)	
VSP# 8343	NPS 3 CLASS 150/DIN 80 PN 16	RAISED OR FLAT FACE	Eco316™	0.078in (2.0mm)	3.500in (88.9mm)	5.437in (138.1mm)	W/(4) 3/4" (19.1mm) NOTCHES ON A BCD=5.984" (152.0mm)	4, 8	5/8" (16mm)	
VSP# 8384	NPS 3 CLASS 150/DIN 80 PN 16	RAISED OR FLAT FACE	ENCASE™	0.0625in (1.6mm)	3.500in (88.9mm)	7.632in (193.9mm)	W/(4) 3/4" (19.1mm) SLOTS, BCD=5.984" (152.0mm) TO 6.299" (160.0mm)	4, 8	5/8" (16mm)	
VSP# 8373	NPS 3 CLASS 150/DIN 80 PN 16	RAISED OR FLAT FACE	Envelope	0.125in (3.2mm)	3.500in (88.9mm)	7.870in (199.9mm)	W/(4) 3/4" (19.1mm) SLOTS, BCD=5.984" (152.0mm) TO 6.299" (160.0mm)	4, 8	5/8" (16mm)	

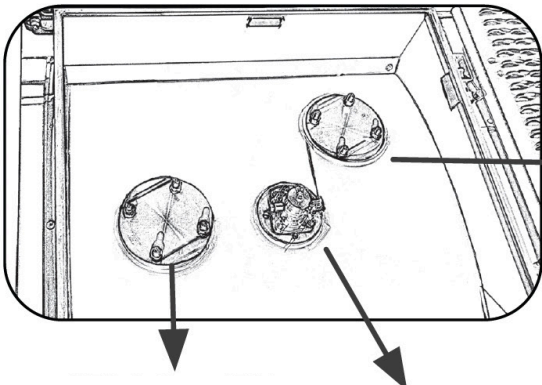


(B) TOP DISCHARGE VALVE/DIP TUBE



VSP#	Connection	Flange Type	Gasket Type	THK	ID	OD	Full Face Dimensions	# of Bolts	Bolt Diameter	Gasket Design
VSP# 8425	WELD PAD TO TANK, EDUCION FLANGE, BUTTERFLY VALVE 4 AND 6 BOLT - FT. VALE, PEROLO, GIRARD	RAISED OR FLAT FACE	PITA®	0.125in (3.2mm)	4.000in (101.6mm)	7.625in (193.7mm)	W/(4) 9/16" (14.3mm) AND (4) 0.709" (18mm) SLOTS,BCD=6-1/4" (158.8mm) TO 6-11/16" (169.9mm)	4, 6	1/2" (12mm), 5/8" (16mm)	
VSP# 8445	WELD PAD TO TANK, EDUCION FLANGE, BUTTERFLY VALVE 4 AND 6 BOLT - FT. VALE, PEROLO, GIRARD	RAISED OR FLAT FACE	Eco316™	0.078in (2.0mm)	4.000in (101.6mm)	6.000in (152.4mm)	W/(4) 0.709" (18mm) AND (4) 9/16" (14.3mm) NOTCHES,BCD=6.024" (153.0mm) AND 6-1/4" (158.8mm)	4, 6	1/2" (12mm), 5/8" (16mm)	
VSP# 8422	WELD PAD TO TANK, EDUCION FLANGE, BUTTERFLY VALVE 4 AND 6 BOLT - FT. VALE, PEROLO, GIRARD	RAISED OR FLAT FACE	ENCASE™	0.0625in (1.6mm)	4.000in (101.6mm)	7.625in (193.7mm)	W/(4) 9/16" (14.3mm) AND (4) 0.709" (18mm) SLOTS,BCD=6-1/4" (158.8mm) TO 6-11/16" (169.9mm)	4, 6	1/2" (12mm), 5/8" (16mm)	
VSP# 8415	WELD PAD TO TANK, EDUCION FLANGE, BUTTERFLY VALVE 4 AND 6 BOLT - FT. VALE, PEROLO, GIRARD	RAISED OR FLAT FACE	Envelope	0.125in (3.2mm)	4.000in (101.6mm)	7.625in (193.7mm)	W/(4) 9/16" (14.3mm) AND (4) 0.709" (18mm) SLOTS,BCD=6-1/4" (158.8mm) TO 6-11/16" (169.9mm)	4, 6	1/2" (12mm), 5/8" (16mm)	
VSP# 8405	DIP TUBE FLANGE TO TANK FLANGE, RECESSED FLANGE ONLY - FT. VALE, PEROLO, GIRARD	RECESSED FLANGE	PITA®	0.125in (3.2mm)	3.750in (95.3mm)	5.125in (130.2mm)	N/A	4, 6	1/2" (12mm), 5/8" (16mm)	
VSP# 8395	DIP TUBE FLANGE TO TANK FLANGE LARGE BORE - FT. VALE, PEROLO, GIRARD	RAISED FACE OR RECESSED FLANGE	PITA®	0.125in (3.2mm)	3.750in (95.3mm)	5.875in (149.2mm)	N/A	4, 6, 8	1/2" (12mm), 5/8" (16mm)	
VSP# 8392	FLANGED STYLE BUTTERFLY VALVE INLET SIDE ONLY	RAISED OR FLAT FACE	PITA®	0.125in (3.2mm)	3.000in (76.2mm)	7.625in (193.7mm)	W/(4) 9/16" (14.3mm) AND (4) 0.719" (18.3mm) SLOTS,BCD=5-11/16" (144.5mm) TO 6.676" (169.6mm)	4, 6	1/2" (12mm), 5/8" (16mm)	
VSP# 8352	FLANGED STYLE BUTTERFLY VALVE INLET SIDE ONLY	RAISED OR FLAT FACE	Eco316™	0.078in (2.0mm)	3.000in (76.2mm)	6.299in (160.0mm)	W/(8) 0.719" (18.3mm) NOTCHES ON A BCD=6.299" (160.0mm)	4, 6	1/2" (12mm), 5/8" (16mm)	
VSP# 8399	FLANGED STYLE BUTTERFLY VALVE INLET SIDE ONLY	RAISED OR FLAT FACE	ENCASE™	0.0625in (1.6mm)	3.000in (76.2mm)	7.625in (193.7mm)	W/(4) 9/16" (14.3mm) AND (4) 0.719" (18.3mm) SLOTS,BCD=5-11/16" (144.5mm) TO 6.676" (169.6mm)	4, 6	1/2" (12mm), 5/8" (16mm)	
VSP# 8377	FLANGED STYLE BUTTERFLY VALVE INLET SIDE ONLY	RAISED OR FLAT FACE	Envelope	0.125in (3.2mm)	3.000in (76.2mm)	7.625in (193.7mm)	W/(4) 9/16" (14.3mm) AND (4) 0.719" (18.3mm) SLOTS,BCD=5-11/16" (144.5mm) TO 6.676" (169.6mm)	4, 6	1/2" (12mm), 5/8" (16mm)	
VSP# 8383	NPS 3 CLASS 150/DIN 80 PN 16	RAISED OR FLAT FACE	PITA®	0.125in (3.2mm)	3.500in (88.9mm)	7.870in (199.9mm)	W/(4) 3/4" (19.1mm) SLOTS,BCD=5.984" (152.0mm) TO 6.299" (160.0mm)	4, 8	5/8" (16mm)	
VSP# 8343	NPS 3 CLASS 150/DIN 80 PN 16	RAISED OR FLAT FACE	Eco316™	0.078in (2.0mm)	3.500in (88.9mm)	5.437in (138.1mm)	W/(4) 3/4" (19.1mm) NOTCHES ON A BCD=5.984" (152.0mm)	4, 8	5/8" (16mm)	
VSP# 8384	NPS 3 CLASS 150/DIN 80 PN 16	RAISED OR FLAT FACE	ENCASE™	0.0625in (1.6mm)	3.500in (88.9mm)	7.632in (193.9mm)	W/(4) 3/4" (19.1mm) SLOTS,BCD=5.984" (152.0mm) TO 6.299" (160.0mm)	4, 8	5/8" (16mm)	
VSP# 8373	NPS 3 CLASS 150/DIN 80 PN 16	RAISED OR FLAT FACE	Envelope	0.125in (3.2mm)	3.500in (88.9mm)	7.870in (199.9mm)	W/(4) 3/4" (19.1mm) SLOTS,BCD=5.984" (152.0mm) TO 6.299" (160.0mm)	4, 8	5/8" (16mm)	

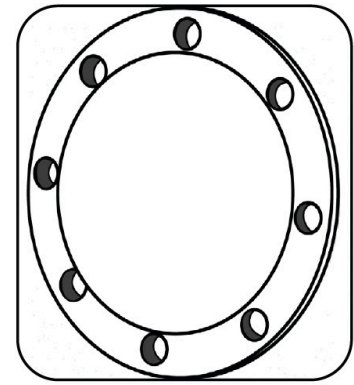
(C) TANK PAD/PROVISIONALS



NPS 3 Class 150/DIN 80 PN 16:
VSP# 8383, VSP# 8384, VSP#
8373, VSP# 8343

NPS 1-1/2 Class 150/DIN 40
PN 16: VSP# 8136, VSP# 8146,
VSP# 8126, VSP# 8156

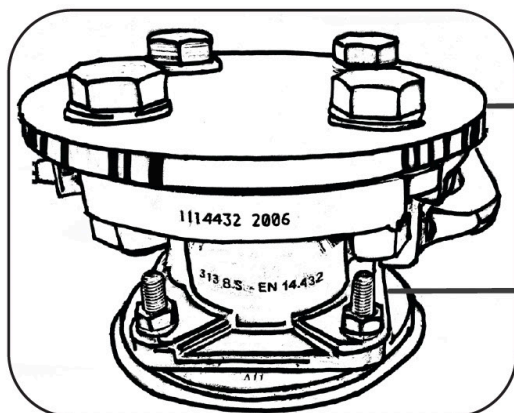
NPS 2 Class 150/DIN 50 PN 16:
VSP# 8241, VSP# 8251, VSP#
8261, VSP# 8232



Dip Tube to Tank Pad &
Provisional/4 & 8 Bolt: VSP# 8427

VSP#	Connection	Flange Type	Gasket Type	THK	ID	OD	Full Face Dimensions	# of Bolts	Bolt Diameter	Gasket Design
VSP# 8136	NPS 1 1/2 CLASS 150/DIN 40 PN 16	RAISED OR FLAT FACE	PITA®	0.125in (3.2mm)	1.910in (48.5mm)	5.900in (149.9mm)	W/(4) 5/8" (15.9mm) BHS, BCD=3-7/8" (98.4mm) AND (4) 3/4" (19.1mm) BHS, BCD = 4.331" (110.0mm)	4	3/8" (10mm), 1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8156	NPS 1 1/2 CLASS 150/DIN 40 PN 16	RAISED OR FLAT FACE	Eco316™	0.078in (2.0mm)	1.910in (48.5mm)	4.219in (107.2mm)	W/(4) 5/8" (15.9mm) NOTCHES ON A BCD=3-7/8" (98.4mm)	4	3/8" (10mm), 1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8146	NPS 1 1/2 CLASS 150/DIN 40 PN 16	RAISED OR FLAT FACE	ENCASE™	0.0625in (1.6mm)	1.890in (48.0mm)	5.900in (149.9mm)	W/(4) 5/8" (15.9mm) BHS, BCD=3-7/8" (98.4mm) AND (4) 3/4" (19.1mm) BHS, BCD = 4.331" (110.0mm)	4	1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8126	NPS 1 1/2 CLASS 150/DIN 40 PN 16	RAISED OR FLAT FACE	Envelope	0.125in (3.2mm)	1.910in (48.5mm)	5.900in (149.9mm)	W/(4) 5/8" (15.9mm) BHS, BCD=3-7/8" (98.4mm) AND (4) 3/4" (19.1mm) BHS, BCD = 4.331" (110.0mm)	4	3/8" (10mm), 1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8241	NPS 2 CLASS 150/DIN 50 PN 16	RAISED OR FLAT FACE	PITA®	0.125in (3.2mm)	2.375in (60.3mm)	6.500in (165.1mm)	W/(4) 3/4" (19.1mm) SLOTS, BCD=4-3/4" (120.7mm) TO 4.921" (125mm)	4	1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8261	NPS 2 CLASS 150/DIN 50 PN 16	RAISED OR FLAT FACE	Eco316™	0.078in (2.0mm)	2.375in (60.3mm)	4.931in (125.0mm)	W/(4) 3/4" (19.1mm) NOTCHES ON A BCD=4-3/4" (120.7mm)	4	1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8251	NPS 2 CLASS 150/DIN 50 PN 16	RAISED OR FLAT FACE	ENCASE™	0.0625in (1.6mm)	2.375in (60.3mm)	6.379in (162.0mm)	W/(4) 3/4" (19.1mm) SLOTS, BCD=4-3/4" (120.7mm) TO 4.921" (125mm)	4	1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8232	NPS 2 CLASS 150/DIN 50 PN 16	RAISED OR FLAT FACE	Envelope	0.125in (3.2mm)	2.375in (60.3mm)	6.500in (165.1mm)	W/(4) 3/4" (19.1mm) SLOTS, BCD=4-3/4" (120.7mm) TO 4.921" (125mm)	4	1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8383	NPS 3 CLASS 150/DIN 80 PN 16	RAISED OR FLAT FACE	PITA®	0.125in (3.2mm)	3.500in (88.9mm)	7.870in (199.9mm)	W/(4) 3/4" (19.1mm) SLOTS, BCD=5.984" (152.0mm) TO 6.299" (160.0mm)	4, 8	5/8" (16mm)	
VSP# 8343	NPS 3 CLASS 150/DIN 80 PN 16	RAISED OR FLAT FACE	Eco316™	0.078in (2.0mm)	3.500in (88.9mm)	5.437in (138.1mm)	W/(4) 3/4" (19.1mm) NOTCHES ON A BCD=5.984" (152.0mm)	4, 8	5/8" (16mm)	
VSP# 8384	NPS 3 CLASS 150/DIN 80 PN 16	RAISED OR FLAT FACE	ENCASE™	0.0625in (1.6mm)	3.500in (88.9mm)	7.632in (193.9mm)	W/(4) 3/4" (19.1mm) SLOTS, BCD=5.984" (152.0mm) TO 6.299" (160.0mm)	4, 8	5/8" (16mm)	
VSP# 8373	NPS 3 CLASS 150/DIN 80 PN 16	RAISED OR FLAT FACE	Envelope	0.125in (3.2mm)	3.500in (88.9mm)	7.870in (199.9mm)	W/(4) 3/4" (19.1mm) SLOTS, BCD=5.984" (152.0mm) TO 6.299" (160.0mm)	4, 8	5/8" (16mm)	
VSP# 8391	BUTTERFLY VALVE 4 AND 6 BOLT - FT. VALE, PEROLO, GIRARD; FLANGED BODY SRV	RAISED OR FLAT FACE	PITA®	0.125in (3.2mm)	3.438in (87.3mm)	7.625in (193.7mm)	W/(4) 9/16" (14.3mm) AND (4) 0.719" (18.3mm) SLOTS, BCD=5-11/16" (144.5mm) TO 6-11/16" (169.9mm)	4, 6	1/2" (12mm), 5/8" (16mm)	
VSP# 8351	BUTTERFLY VALVE 4 AND 6 BOLT - FT. VALE, PEROLO, GIRARD; FLANGED BODY SRV	RAISED OR FLAT FACE	Eco316™	0.078in (2.0mm)	3.500in (88.9mm)	6.299in (160.0mm)	W/(8) 0.719" (18.3mm) NOTCHES ON A BCD=6.299" (160.0mm)	4, 6	1/2" (12mm), 5/8" (16mm)	
VSP# 8398	BUTTERFLY VALVE 4 AND 6 BOLT - FT. VALE, PEROLO, GIRARD; FLANGED BODY SRV	RAISED OR FLAT FACE	ENCASE™	0.0625in (1.6mm)	3.500in (88.9mm)	7.625in (193.7mm)	W/(4) 9/16" (14.3mm) AND (4) 0.719" (18.3mm) SLOTS, BCD=5-11/16" (144.5mm) TO 6-11/16" (169.9mm)	4, 6	1/2" (12mm), 5/8" (16mm)	
VSP# 8376	BUTTERFLY VALVE 4 AND 6 BOLT - FT. VALE, PEROLO, GIRARD; FLANGED BODY SRV	RAISED OR FLAT FACE	Envelope	0.125in (3.2mm)	3.500in (88.9mm)	7.625in (193.7mm)	W/(4) 9/16" (14.3mm) AND (4) 0.719" (18.3mm) SLOTS, BCD=5-11/16" (144.5mm) TO 6-11/16" (169.9mm)	4, 6	1/2" (12mm), 5/8" (16mm)	
VSP# 8427	DIP TUBE TO TANK PAD 4 AND 8 BOLT PATTERN	RAISED OR FLAT FACE	PITA®	0.125in (3.2mm)	4.000in (101.6mm)	7.875in (200.0mm)	W/(4) 3/4" (19.1mm) SLOTS, BCD=6-1/8" (155.6mm) TO 6-19/64" (160mm)	4, 8	5/8" (16mm)	

(D) AIRLINE VALVE FLANGE



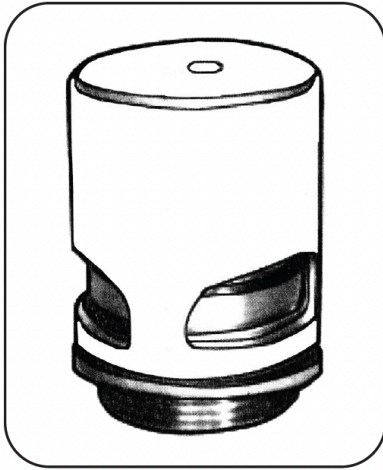
NPS 2 Class 150/DIN 50 PN 16:
VSP# 8241, VSP# 8251, VSP#
8261, VSP# 8232

NPS 1-1/2 Class 150/DIN 40
PN 16: VSP# 8136, VSP# 8146,
VSP# 8126, VSP# 8156

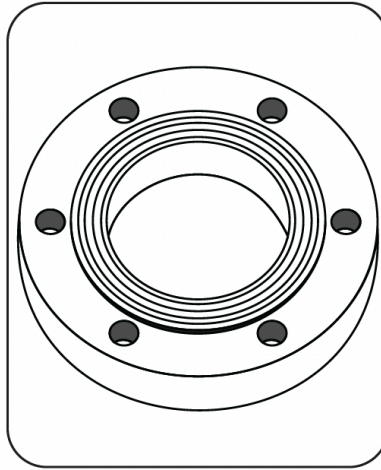
VSP#	Connection	Flange Type	Gasket Type	THK	ID	OD	Full Face Dimensions	# of Bolts	Bolt Diameter	Gasket Design
VSP# 8136	NPS 1 1/2 CLASS 150/DIN 40 PN 16	RAISED OR FLAT FACE	PITA®	0.125in (3.2mm)	1.910in (48.5mm)	5.900in (149.9mm)	W/(4) 5/8" (15.9mm) BHS, BCD=3-7/8" (98.4mm) AND (4) 3/4" (19.1mm) BHS, BCD = 4.331" (110.0mm)	4	3/8" (10mm), 1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8156	NPS 1 1/2 CLASS 150/DIN 40 PN 16	RAISED OR FLAT FACE	Eco316™	0.078in (2.0mm)	1.910in (48.5mm)	4.219in (107.2mm)	W/(4) 5/8" (15.9mm) NOTCHES ON A BCD=3-7/8" (98.4mm)	4	3/8" (10mm), 1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8146	NPS 1 1/2 CLASS 150/DIN 40 PN 16	RAISED OR FLAT FACE	ENCASE™	0.0625in (1.6mm)	1.890in (48.0mm)	5.900in (149.9mm)	W/(4) 5/8" (15.9mm) BHS, BCD=3-7/8" (98.4mm) AND (4) 3/4" (19.1mm) BHS, BCD = 4.331" (110.0mm)	4	1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8126	NPS 1 1/2 CLASS 150/DIN 40 PN 16	RAISED OR FLAT FACE	Envelope	0.125in (3.2mm)	1.910in (48.5mm)	5.900in (149.9mm)	W/(4) 5/8" (15.9mm) BHS, BCD=3-7/8" (98.4mm) AND (4) 3/4" (19.1mm) BHS, BCD = 4.331" (110.0mm)	4	3/8" (10mm), 1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8241	NPS 2 CLASS 150/DIN 50 PN 16	RAISED OR FLAT FACE	PITA®	0.125in (3.2mm)	2.375in (60.3mm)	6.500in (165.1mm)	W/(4) 3/4" (19.1mm) SLOTS, BCD=4-3/4" (120.7mm) TO 4.921" (125mm)	4	1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8261	NPS 2 CLASS 150/DIN 50 PN 16	RAISED OR FLAT FACE	Eco316™	0.078in (2.0mm)	2.375in (60.3mm)	4.931in (125.0mm)	W/(4) 3/4" (19.1mm) NOTCHES ON A BCD=4-3/4" (120.7mm)	4	1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8251	NPS 2 CLASS 150/DIN 50 PN 16	RAISED OR FLAT FACE	ENCASE™	0.0625in (1.6mm)	2.375in (60.3mm)	6.379in (162.0mm)	W/(4) 3/4" (19.1mm) SLOTS, BCD=4-3/4" (120.7mm) TO 4.921" (125mm)	4	1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8232	NPS 2 CLASS 150/DIN 50 PN 16	RAISED OR FLAT FACE	Envelope	0.125in (3.2mm)	2.375in (60.3mm)	6.500in (165.1mm)	W/(4) 3/4" (19.1mm) SLOTS, BCD=4-3/4" (120.7mm) TO 4.921" (125mm)	4	1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	



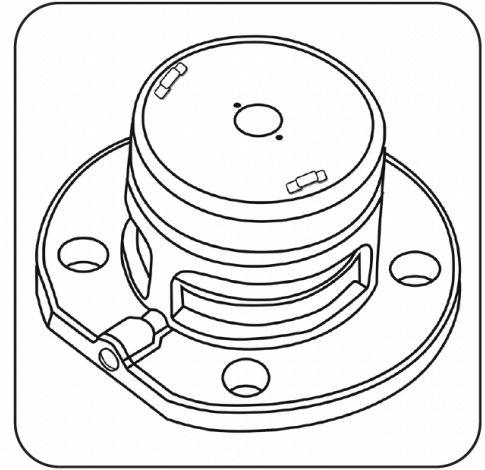
(E) SAFETY RELIEF VALVE (SRV)



Threaded SRV: VSP# 8275



SRV Adapter Flange: VSP# 8305

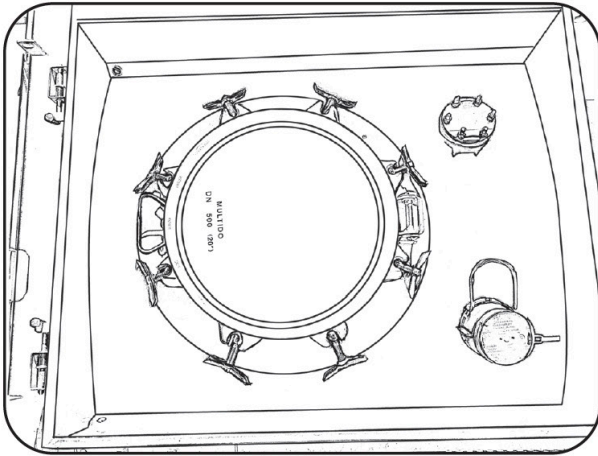


Flanged Body SRV: VSP# 8391,
VSP# 8351, VSP# 8398, VSP# 8376

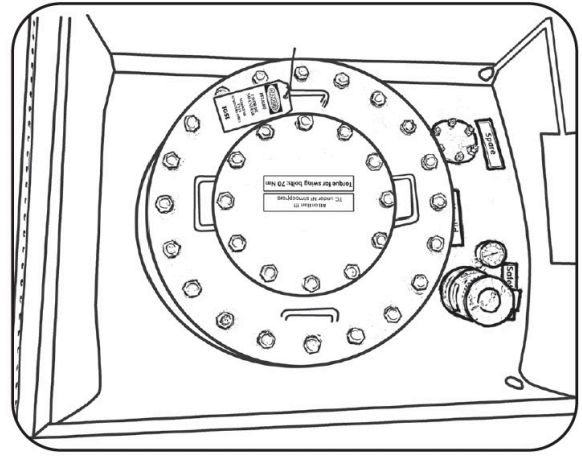
VSP#	Connection	Flange Type	Gasket Type	THK	ID	OD	Full Face-Dimensions	# of Bolts	Bolt Diameter	Gasket Design
VSP# 8275	SAFETY RELIEF VALVE (THREADED) INTO TANK BASE MOUNT FLANGE - FT. VALE, PEROLO, GIRARD- VIRGIN PTFE ONLY	RAISED OR FLAT FACE	Virgin PTFE or Eco316™	0.125in (3.2mm)	2.970in (75.4mm)	3.750in (95.3mm)	N/A	N/A	N/A	
VSP# 8305	SAFETY RELIEF VALVE (THREADED), ADAPTER FLANGE TO TANK BASE MOUNT FLANGE (6 BOLT) - FT. VALE, PEROLO, GIRARD, PROVISIONAL / BLIND	RAISED OR FLAT FACE	Premium ePTFE	0.125in (3.2mm)	3.250in (82.6mm)	5.000in (127.0mm)	W/(6) 0.453" (11.5mm) BH'S,BCD=4-1/8" (104.8mm)	6	3/8" (10mm)	
VSP# 8391	BUTTERFLY VALVE 4 AND 6 BOLT - FT. VALE, PEROLO, GIRARD; FLANGED BODY SRV	RAISED OR FLAT FACE	PITA®	0.125in (3.2mm)	3.438in (87.3mm)	7.625in (193.7mm)	W/(4) 9/16" (14.3mm) AND (4) 0.719" (18.3mm) SLOTS,BCD=5-11/16" (144.5mm) TO 6-11/16" (169.9mm)	4, 6	1/2" (12mm), 5/8" (16mm)	
VSP# 8351	BUTTERFLY VALVE 4 AND 6 BOLT - FT. VALE, PEROLO, GIRARD; FLANGED BODY SRV	RAISED OR FLAT FACE	Eco316™	0.078in (2.0mm)	3.500in (88.9mm)	6.299in (160.0mm)	W/(8) 0.719" (18.3mm) NOTCHES ON A BCD=6.299" (160.0mm)	4, 6	1/2" (12mm), 5/8" (16mm)	
VSP# 8398	BUTTERFLY VALVE 4 AND 6 BOLT - FT. VALE, PEROLO, GIRARD; FLANGED BODY SRV	RAISED OR FLAT FACE	ENCASE™	0.0625in (1.6mm)	3.500in (88.9mm)	7.625in (193.7mm)	W/(4) 9/16" (14.3mm) AND (4) 0.719" (18.3mm) SLOTS,BCD=5-11/16" (144.5mm) TO 6-11/16" (169.9mm)	4, 6	1/2" (12mm), 5/8" (16mm)	
VSP# 8376	BUTTERFLY VALVE 4 AND 6 BOLT - FT. VALE, PEROLO, GIRARD; FLANGED BODY SRV	RAISED OR FLAT FACE	Envelope	0.125in (3.2mm)	3.500in (88.9mm)	7.625in (193.7mm)	W/(4) 9/16" (14.3mm) AND (4) 0.719" (18.3mm) SLOTS,BCD=5-11/16" (144.5mm) TO 6-11/16" (169.9mm)	4, 6	1/2" (12mm), 5/8" (16mm)	



(F) M A N W A Y



Hinged Lid



Bolt Down Lid

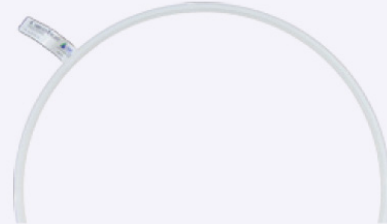
VSP#	Connection	Flange Type	Gasket Type	THK	ID	OD	# of Bolts	Bolt Diameter
See Page 24	MANWAY	RAISED/FLAT FACE OR TONGUE & GROOVE	CycleTight® TYPE 6/ TYPE 7	See Page 24	See Page 24	See Page 24	20	5/8" (16mm), 1-1/8" (28.6mm)
VSP# 9008	500MM TANK CONTAINER HINGED MANWAY	FLAT FACE OR TONGUE & GROOVE	CargoTight®	0.52in (13.2mm)	19.300in (490.2mm)	20.263in (514.7mm)	6, 8, 10, 14	5/8" (16mm), 3/4" (19mm)

CycleTight® for bolt down manway lids



Broad range of chemical resistance
Patented insert technology achieves lower stress to seal, lower relaxation and torque loss, plus protects against cut through, cracks and distortion

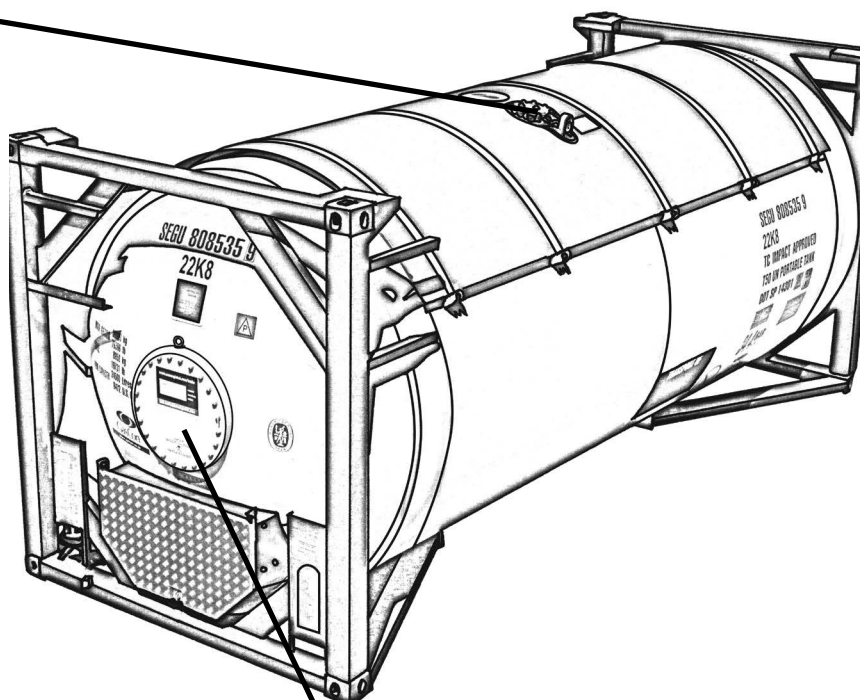
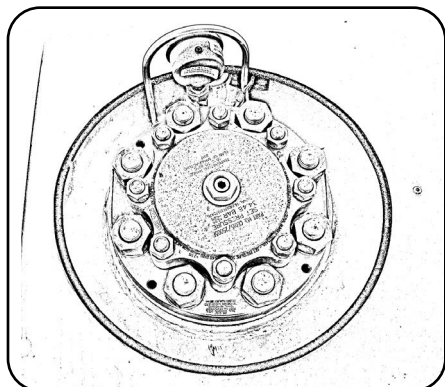
CargoTight® for hinged manway lids



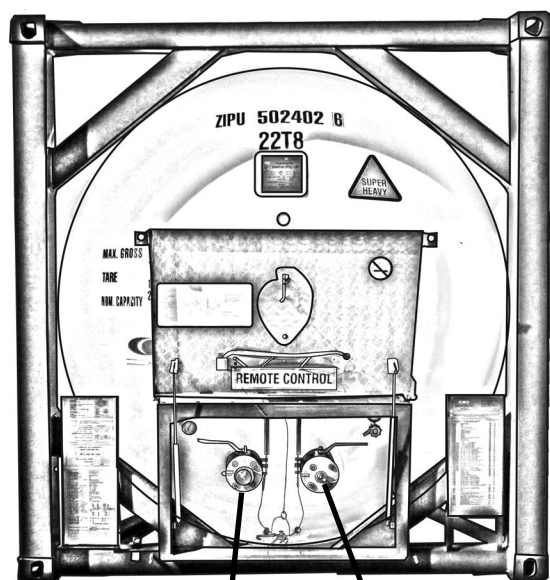
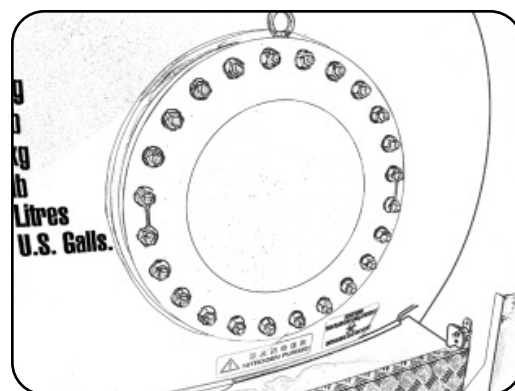
Chemically inert
Self-Centering Design fits all common tank container manways
Achieve torque retention through engineered V-Notch™ and stainless steel core

GAS TANK CONNECTIONS

(C) Safety Relief Valve (SRV)

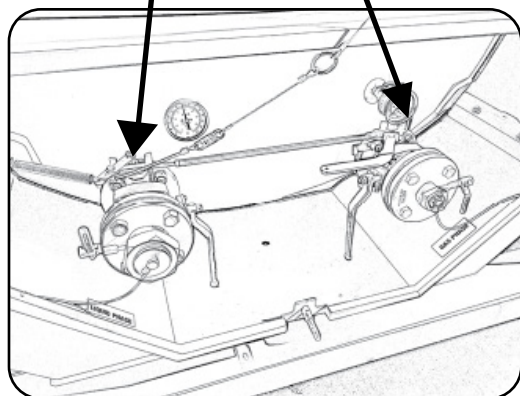


(D) Manway

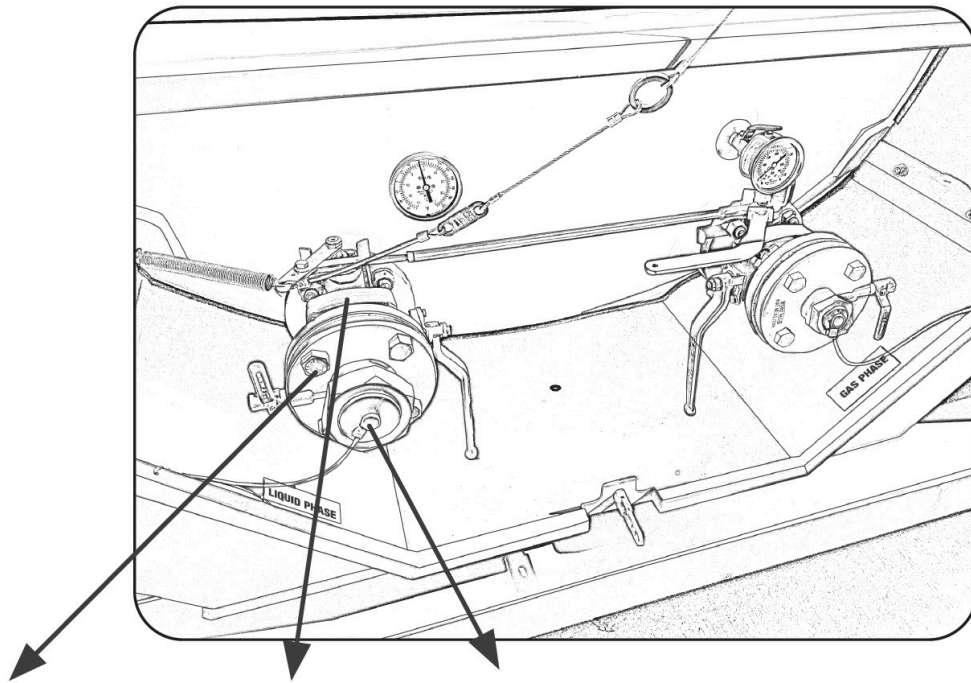


(A) Liquid Line

(B) Vapor Line



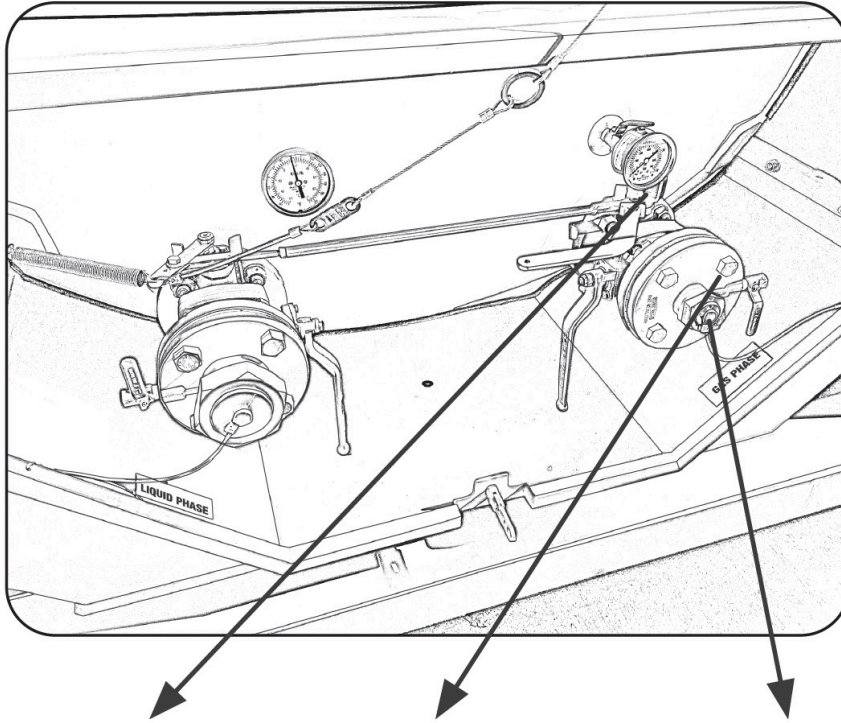
(A) LIQUID LINE



Blind Flange: VSP# 8241, VSP# 8251, VSP# 8261, VSP# 8232 Valve to Tank: VSP# 8231 3-1/4" Liquid ACME CAP: VSP# 8162

VSP#	Connection	Flange Type	Gasket Type	THK	ID	OD	Full Face-Dimensions	# of Bolts	Bolt Diameter	Gasket Design
VSP# 8231	INTERNAL VALVE FLANGE TO TANK FLANGE (NPS 2, DIN 50) - FT. VALE, MECHOTHERMIC	RAISED FACE OR RECESSED FLANGE	PITA®	0.125in (3.2mm)	2.375in (60.3mm)	3.375in (85.7mm)	N/A	4, 8	1/2" (12mm), 5/8" (16mm)	
VSP# 8241	NPS 2 CLASS 150/DIN 50 PN 16	RAISED OR FLAT FACE	PITA®	0.125in (3.2mm)	2.375in (60.3mm)	6.500in (165.1mm)	W/(4) 3/4" (19.1mm) SLOTS, BCD=4-3/4" (120.7mm) TO 4.921" (125mm)	4	1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8261	NPS 2 CLASS 150/DIN 50 PN 16	RAISED OR FLAT FACE	Eco316™	0.078in (2.0mm)	2.375in (60.3mm)	4.931in (125.0mm)	W/(4) 3/4" (19.1mm) NOTCHES ON A BCD=4-3/4" (120.7mm)	4	1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8251	NPS 2 CLASS 150/DIN 50 PN 16	RAISED OR FLAT FACE	ENCASE™	0.0625in (1.6mm)	2.375in (60.3mm)	6.379in (162.0mm)	W/(4) 3/4" (19.1mm) SLOTS, BCD=4-3/4" (120.7mm) TO 4.921" (125mm)	4	1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8232	NPS 2 CLASS 150/DIN 50 PN 16	RAISED OR FLAT FACE	Envelope	0.125in (3.2mm)	2.375in (60.3mm)	6.500in (165.1mm)	W/(4) 3/4" (19.1mm) SLOTS, BCD=4-3/4" (120.7mm) TO 4.921" (125mm)	4	1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8162	3 1/4" ACME CAP	CAP	Virgin PTFE	0.125in (3.2mm)	2.094in (53.2mm)	2.844in (72.2mm)	N/A	N/A	N/A	

(B) V A P O R L I N E



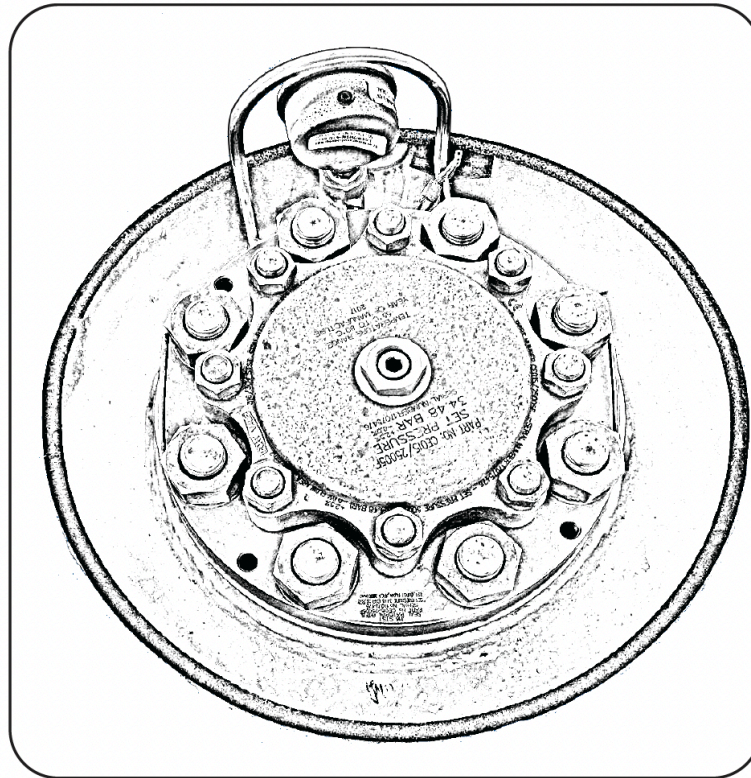
Valve to Tank: VSP# 8231

Blind Flange: VSP# 8241, VSP# 8251, VSP# 8261, VSP# 8232

1-3/4" Vapor ACME CAP: VSP# 8052

VSP#	Connection	Flange Type	Gasket Type	THK	ID	OD	Full Face-Dimensions	# of Bolts	Bolt Diameter	Gasket Design
VSP# 8231	INTERNAL VALVE FLANGE TO TANK FLANGE (NPS 2, DIN 50) - FT. VALE, MECHOTHERMIC	RAISED FACE OR RECESSED FLANGE	PITA®	0.125in (3.2mm)	2.375in (60.3mm)	3.375in (85.7mm)	N/A	4, 8	1/2" (12mm), 5/8" (16mm)	
VSP# 8241	NPS 2 CLASS 150/DIN 50 PN 16	RAISED OR FLAT FACE	PITA®	0.125in (3.2mm)	2.375in (60.3mm)	6.500in (165.1mm)	W/(4) 3/4" (19.1mm) SLOTS, BCD=4-3/4" (120.7mm) TO 4.921" (125mm)	4	1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8261	NPS 2 CLASS 150/DIN 50 PN 16	RAISED OR FLAT FACE	Eco316™	0.078in (2.0mm)	2.375in (60.3mm)	4.931in (125.0mm)	W/(4) 3/4" (19.1mm) NOTCHES ON A BCD=4-3/4" (120.7mm)	4	1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8251	NPS 2 CLASS 150/DIN 50 PN 16	RAISED OR FLAT FACE	ENCASE™	0.0625in (1.6mm)	2.375in (60.3mm)	6.379in (162.0mm)	W/(4) 3/4" (19.1mm) SLOTS, BCD=4-3/4" (120.7mm) TO 4.921" (125mm)	4	1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8232	NPS 2 CLASS 150/DIN 50 PN 16	RAISED OR FLAT FACE	Envelope	0.125in (3.2mm)	2.375in (60.3mm)	6.500in (165.1mm)	W/(4) 3/4" (19.1mm) SLOTS, BCD=4-3/4" (120.7mm) TO 4.921" (125mm)	4	1/2" (12mm), 9/16" (14mm), 5/8" (16mm)	
VSP# 8052	1 3/4" ACME CAP	CAP	Virgin PTFE	0.125in (3.2mm)	1.063in (27.0mm)	1.377in (35.0mm)	N/A	N/A	N/A	

(C) SAFETY RELIEF VALVE (SRV)



VSP#	Connection	Flange Type	Gasket Type	THK	ID	OD	# of Bolts	Bolt Diameter
VSP# 8601	SAFETY RELIEF VALVE FLANGE - FT. VALE	RAISED OR FLAT FACE	PITA®	0.125in (3.2mm)	6.250in (158.8mm)	7.500in (190.5mm)	8	1" (24mm)
VSP# 8602	SAFETY RELIEF VALVE, RECESSED WELD PAD - FT. VALE	RAISED OR FLAT FACE	PITA®	0.125in (3.2mm)	6.250in (158.8mm)	7.250in (184.2mm)	8	7/8" (22mm), 1" (24mm)

PITA Gasket on SRV

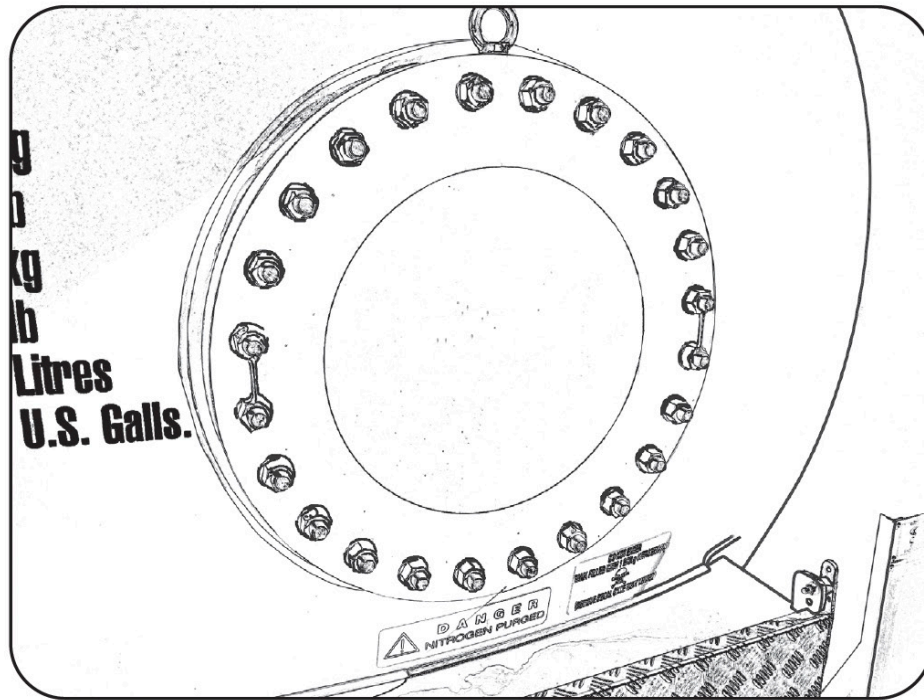
PITA®

Broad range of chemical resistance

Patented insert technology achieves lower stress to seal, lower relaxation & torque loss, and protection against cut through, cracks & distortion



(D) M A N W A Y



VSP#	Connection	Flange Type	Gasket Type	THK	ID	OD
See Page 24	MANWAY	RAISED/FLAT FACE OR TONGUE & GROOVE	CycleTight® TYPE 6/TYPE 7	See Page 24	See Page 24	See Page 24

CycleTight® for bolt down manway lids



Broad range of chemical resistance
Patented insert technology achieves lower stress to seal, lower relaxation & torque loss, and protection against cut through, cracks & distortion

Gas Tank Manway



COMMON PITA® GASKETS SIZES

VSP#	Connection	Flange Type	THK	ID	OD
P29-125-VSP# 8010	NPS 1/2 CLASS 150	RAISED FACE	0.125" 3.2mm	0.674" 17.1mm	1.875" 47.6mm
P29-125-VSP# 8035	NPS 3/4 CLASS 150	RAISED FACE	0.125" 3.2mm	0.884" 22.5mm	2.250" 57.2mm
P29-125-VSP# 8055	NPS 1 CLASS 150	RAISED FACE	0.125" 3.2mm	1.097" 27.9mm	2.625" 66.7mm
P29-125-VSP# 8134	NPS 1-1/2 CLASS 150	RAISED FACE	0.125" 3.2mm	1.682" 42.7mm	3.375" 85.7mm
P29-125-VSP# 8235	NPS 2 CLASS 150	RAISED FACE	0.125" 3.2mm	2.375" 60.3mm	4.125" 104.8mm
P29-125-VSP# 8285	NPS 2-1/2 CLASS 150/DIN 65 PN 16	RAISED FACE	0.125" 3.2mm	2.875" 73mm	4.875" 123.8mm
P29-125-VSP# 8362	NPS 3 CLASS 150	RAISED FACE	0.125" 3.2mm	3.500" 88.9mm	5.375" 136.5mm
P29-125-VSP# 8500	NPS 4 CLASS 150	RAISED FACE	0.125" 3.2mm	4.500" 114.3mm	6.875" 174.6mm
P29-125-VSP# 8553	NPS 5 CLASS 150/DIN 125 PN 16	RAISED FACE	0.125" 3.2mm	5.563" 141.3mm	7.750" 196.9mm

CYCLETIGHT® GASKET SIZES

VSP MCC#	Connection	Flange Type	Gasket Type	THK	ID	OD
P05-125-VSP# 9200	MANWAY	RAISED OR FLAT FACE	CYCLETIGHT TYPE 7	0.125" 3.2mm	17.750" 450.9mm	20.500" 520.7mm
P05-125-VSP# 8990	MANWAY	RAISED OR FLAT FACE	CYCLETIGHT TYPE 6	0.125" 3.2mm	18.750" 476.3mm	20.250" 514.4mm
P05-125-VSP# 9218	MANWAY	FLAT FACE OR TONGUE & GROOVE	CYCLETIGHT TYPE 6	0.125" 3.2mm	19.500" 495.3mm	20.375" 517.5mm
P05-125-VSP# 9220	MANWAY	RAISED OR FLAT FACE	CYCLETIGHT TYPE 7	0.125" 3.2mm	19.500" 495.3mm	21.500" 546.1mm
P05-125-VSP# 9240	MANWAY	RAISED OR FLAT FACE	CYCLETIGHT TYPE 7	0.125" 3.2mm	19.500" 495.3mm	22.000" 558.8mm
P05-125-VSP# 9245	MANWAY	RAISED OR FLAT FACE	CYCLETIGHT TYPE 6	0.125" 3.2mm	19.685" 500mm	22.244" 565mm
P05-125-VSP# 9250	MANWAY	RAISED OR FLAT FACE	CYCLETIGHT TYPE 6	0.125" 3.2mm	20.000" 508mm	22.000" 558.8mm
P05-125-VSP# 9252	MANWAY - NPS 20 CLASS 150	RAISED OR FLAT FACE	CYCLETIGHT TYPE 6	0.125" 3.2mm	20.000" 508mm	23.875" 606.4mm
P05-125-VSP# 9254	MANWAY - NPS 20 CLASS 300	RAISED OR FLAT FACE	CYCLETIGHT TYPE 6	0.125" 3.2mm	20.000" 508mm	25.750" 654.1mm
P05-125-VSP# 9256	MANWAY	FLAT FACE OR TONGUE & GROOVE	CYCLETIGHT TYPE 6	0.125" 3.2mm	20.000" 508mm	21.250" 539.8mm
P05-125-VSP# 9199	MANWAY	RAISED OR FLAT FACE	CYCLETIGHT TYPE 6	0.125" 3.2mm	20.157" 512mm	20.787" 528mm
P05-125-VSP# 9258	MANWAY	FLAT FACE OR TONGUE & GROOVE	CYCLETIGHT TYPE 6	0.125" 3.2mm	20.375" 517.5mm	21.375" 542.9mm
P05-125-VSP# 9265	MANWAY	RAISED OR FLAT FACE	CYCLETIGHT TYPE 6	0.125" 3.2mm	20.472" 520mm	22.835" 580mm
P05-125-VSP# 9043	MANWAY	RAISED OR FLAT FACE	CYCLETIGHT TYPE 6	0.125" 3.2mm	20.500" 520.7mm	22.375" 568.3mm
P05-125-VSP# 9260	MANWAY	RAISED OR FLAT FACE	CYCLETIGHT TYPE 7	0.125" 3.2mm	20.500" 520.7mm	23.000" 584.2mm
P05-125-VSP# 9261	MANWAY	FLAT FACE OR TONGUE & GROOVE	CYCLETIGHT TYPE 6	0.125" 3.2mm	20.625" 523.9mm	21.875" 555.6mm
P05-125-VSP# 9257	MANWAY	RAISED OR FLAT FACE	CYCLETIGHT TYPE 6	0.125" 3.2mm	20.629" 524mm	22.204" 564mm
P05-125-VSP# 9058	MANWAY - GASCON	FLAT FACE OR TONGUE & GROOVE	CYCLETIGHT TYPE 6	0.125" 3.2mm	20.750" 527.1mm	21.750" 552.5mm
P05-125-VSP# 9259	MANWAY	FLAT FACE OR TONGUE & GROOVE	CYCLETIGHT TYPE 6	0.125" 3.2mm	20.750" 527.1mm	21.625" 549.3mm
P05-125-VSP# 9270	MANWAY	RAISED OR FLAT FACE	CYCLETIGHT TYPE 6	0.125" 3.2mm	21.000" 533.4mm	21.938" 557.2mm
P05-125-VSP# 9272	MANWAY	RAISED OR FLAT FACE	CYCLETIGHT TYPE 6	0.125" 3.2mm	21.260" 540mm	22.835" 580mm
P05-125-VSP# 9273	MANWAY	RAISED OR FLAT FACE	CYCLETIGHT TYPE 6	0.125" 3.2mm	21.260" 540mm	23.504" 597mm
P05-125-VSP# 9262	MANWAY	RAISED OR FLAT FACE	CYCLETIGHT TYPE 6	0.125" 3.2mm	21.625" 549.3mm	22.625" 574.7mm
P05-125-VSP# 9264	MANWAY	RAISED OR FLAT FACE	CYCLETIGHT TYPE 6	0.125" 3.2mm	21.750" 552.5mm	23.188" 589mm