



# Fluid Sealing Compliance Solutions for Bulk Transportation

Optimal Performance, 15-Year Proven Track Record,...Results

## RideTight® Fluid-Sealing Management Program

8140 Quality Drive, Prince George, VA 23875  
800-334-6013 • [vsptechnologies.com](http://vsptechnologies.com)

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



# Tank Car Compliance for HazMat Shippers



On-Site Training  
Shippers, Repair Shops  
& 3rd Party Loaders

Shop Location: ASI PG, October 2018

Customer Item #: VSP MCHP2575-VSP 2503

Car #: RUSCARP06-000182

Connection: Gasket: CYCLETIGHT®-TAE

Lubrication: Before the first pass ensure the flanges are parallel and the nuts are "loose". Torque lubricated Eyebolt Fasteners, in a star pattern sequence, in (4) successive increments as shown below. After the 4th pass, continue tightening the Eyebolt Fasteners in a circular pattern, at the 5th pass torque value, until no further movement of the nuts occurs.

Assembly Instructions: Before the first pass ensure the flanges are parallel and the nuts are "loose". Torque lubricated Eyebolt Fasteners, in a star pattern sequence, in (4) successive increments as shown below. After the 4th pass, continue tightening the Eyebolt Fasteners in a circular pattern, at the 5th pass torque value, until no further movement of the nuts occurs.

Torque Values & Sequence

Sequence	1 Eyebolt Fasteners	2 Eyebolt Fasteners	3 Eyebolt Fasteners	4 Eyebolt Fasteners
1st Pass	10 ft-lbs	10 ft-lbs	10 ft-lbs	10 ft-lbs
2nd Pass	20 ft-lbs	20 ft-lbs	20 ft-lbs	20 ft-lbs
3rd Pass	40 ft-lbs	40 ft-lbs	40 ft-lbs	40 ft-lbs
4th Pass	80 ft-lbs	80 ft-lbs	80 ft-lbs	80 ft-lbs
5th Pass	160 ft-lbs	160 ft-lbs	160 ft-lbs	160 ft-lbs

Gasket Validation Label

Installation Sign-Off & Date



## TANK CARS



### NoRetorque™ Program

The RideTight's specification of VSP's torque-retaining materials which also offer the broadest possible range of chemical compatibility with no process contamination provides dynamic response to railcar vibration and supports multiple trips.

- ▶ CycleTight® Manway Gasket
  - ▶ Over 200,000 installed with ZERO reported NARs.
- ▶ VSP PITA®
  - ▶ ePTFE facings seal against rough flanges
- ▶ VSP LoadLock®
  - ▶ Lower relaxation & Torque loss with improved creep/cold flow resistance
- ▶ Spiral Wound gaskets

## TANK CONTAINERS



### RideTight Hydro2Hydro® Program

The RideTight program is proven to provide safe, reliable, leak-free performance of tank container shipments through the 5-year tank qualification period with no gasket change out, offering tremendous reductions in Total Cost of Ownership.

### Hydro2Hydro® service life reliability is achieved through:

- ▶ Retorque eliminated through VSP's torque-holding materials maintaining fastener preload
  - ▶ CargoTight® Manway Gasket
  - ▶ VSP PITA®
  - ▶ PITA® DNA™ OPRA™
  - ▶ VSP LoadLock®
- ▶ High-tightness sealing provides leak-free long-term reliability

## TANK TRAILERS



### VSP OPRA™ TTMA Gaskets

These gaskets, designed specifically for TTMA fittings, provide a level of sealing performance & reliability for today's road tankers unrivaled by other sealing technologies. Available in both fire-safe (graphite) and chemically inert (premium ePTFE) materials.

### VSP OPRA™ TTMA gaskets offer:

- ▶ 40-60% reduced gasket contact area
- ▶ 40-60% higher gasket stress during assembly
- ▶ Significantly higher gasket compression
- ▶ Tighter, more reliable sealing
- ▶ Further reduction in torque loss
- ▶ Clean release with no residue



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