

CycleTight®

CycleTight is specifically engineered for general purpose Tank Car manways. The proprietary, patented gasket design incorporates a 316SS corrugated insert encapsulated within a highly compressible expanded PTFE gasket.

CycleTight gaskets offer the broadest chemical compatibility range and successfully seals against uneven & rough surfaces.

Designed for Railcar Hinged Manways



400,000+ installed with ZERO reported NARs

- ▶ Bolt load holding material ensures bolts will not loosen as they do with a rubber gasket.
- ▶ Eliminates the need for retorque, saves time and money.
- ▶ Expanded PTFE (Virgin Teflon™) allows for universal chemical compatibility to standardize your fleet.
- ▶ 3 standardized sizes cover 90% of your fleet's lids resulting in reduced onsite inventory storage.
- ▶ Highly compressible material seals easily at a lower bolt load to achieve the tightest leak free flange possible.
- ▶ The corrugated insert compensates for temperatures fluxuation.



Combines the benefits of premium expanded PTFE & corrugated stainless steel into one superior gasket technology



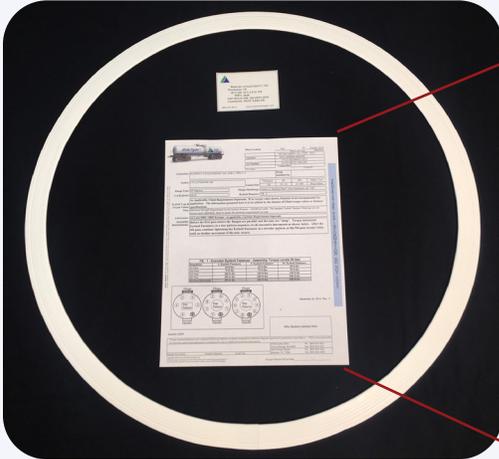
CycleTight Optimized Density Profile for Engineered Performance and Reliability

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

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

CONSOLIDATED SIZING **INSTALLATION/TRACKING**

- ▶ 50+ Manway Styles Cross Referenced
- ▶ Simplifies Inventory Management
- ▶ Typically 3-5 Sizes Required for Fleet
- ▶ Individually Packaged



- ▶ Assembly Instructions with Torque Values
- ▶ Traceability Documentation for Car Equipment Records

Shop Location: ASI, 0 January 2021, Sheet 1 of 1 Page 1 of 1

VSP MC/CSP/PCS/26/5389/ 2015
 BISCAR/016/00000001
 U.S. & FOREIGN SALES
 FAX: 813-265-2523

Customer: _____
 Part Number: _____
 Community: _____

Connection: MANWAY-CYCLETIGHT-TAE, AAR-7, TRN-1, 2
 Flange Installed On: _____

Gasket: CYCLETIGHT-7AE
 Thickness: _____ ID: _____ OD: _____ Gasket Type: _____
 Gasket Size: 1/8 1/2 1/2 21 5/8 Ring Gasket

Flange Type: CP Manway
 Flange Material: Carbon or Stainless Steel - If or Aluminum call VSP

of Eyebolts: _____ Eyebolt Diameter: _____

Eyebolt Type: _____

Torque Values: _____

Lubrication: **Get Lube 5500 / 5500 Extreme - As Customer requirements supersede**

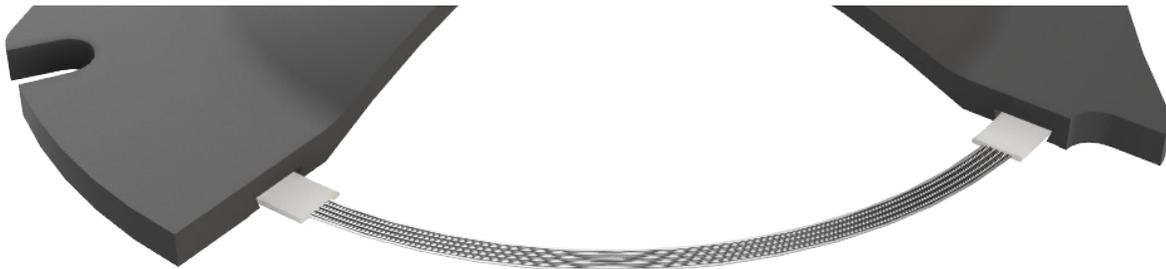
Assembly Instructions: **Before the first pass ensure the flanges are parallel and the nuts are "snug". Torque lubricated fasteners in a star pattern sequence, in (4) successive increments as shown below. After the 4th pass, continue tightening the fasteners in a circular pattern, at the 5th pass torque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

Step/Pass	# of Eyebolts	Torque Level
1st Pass	24	24 ft-lbs
2nd Pass	24	24 ft-lbs
3rd Pass	24	24 ft-lbs
4th Pass	24	24 ft-lbs
5th Pass	24	24 ft-lbs
6th Pass	24	24 ft-lbs
7th Pass	24	24 ft-lbs
8th Pass	24	24 ft-lbs
9th Pass	24	24 ft-lbs
10th Pass	24	24 ft-lbs
11th Pass	24	24 ft-lbs
12th Pass	24	24 ft-lbs
13th Pass	24	24 ft-lbs
14th Pass	24	24 ft-lbs
15th Pass	24	24 ft-lbs
16th Pass	24	24 ft-lbs
17th Pass	24	24 ft-lbs
18th Pass	24	24 ft-lbs
19th Pass	24	24 ft-lbs
20th Pass	24	24 ft-lbs
21st Pass	24	24 ft-lbs
22nd Pass	24	24 ft-lbs
23rd Pass	24	24 ft-lbs
24th Pass	24	24 ft-lbs

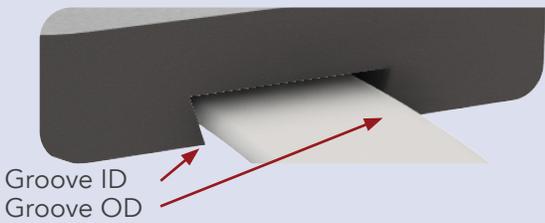
Diagram showing Star Pattern and Circular Pattern tightening sequences for 24 fasteners.

© 2020 VSP Technologies, Inc. All Rights Reserved. Registered in the United States. Torque Wrench: ID/Cal Date: _____

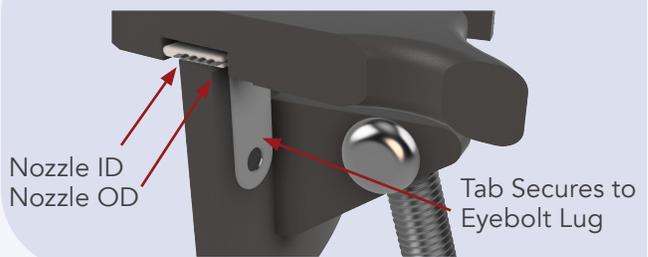
PROPERTY INFORMATION DO NOT COPY



CycleTight® Type 7 - Secures in Cover
Flexible ID/OD Zones



CycleTight® Type 6 - Secures on Nozzle



****Call to Determine Your Equipment's Best Fit****

