

GROUND OPERATED BULK TANK MANWAY SYSTEM

SYSTEM DESCRIPTION

- THE PIVOTAL EDGE IS AN AUTOMATED MANWAY SYSTEM THAT ALLOWS A DRIVER TO OPERATE A TANK COVER FROM THE SAFETY OF THE GROUND
- ENTIRELY PNEUMATIC, NO ELECTRONICS OR HYDRAULICS TO FAIL
- EASILY INSTALLED WITH MINIMAL TOOLS AND TRAINING
- FAST AND FRIENDLY CUSTOMER SERVICE
- MADE IN THE USA



OPERATIONAL SPECIFICATIONS

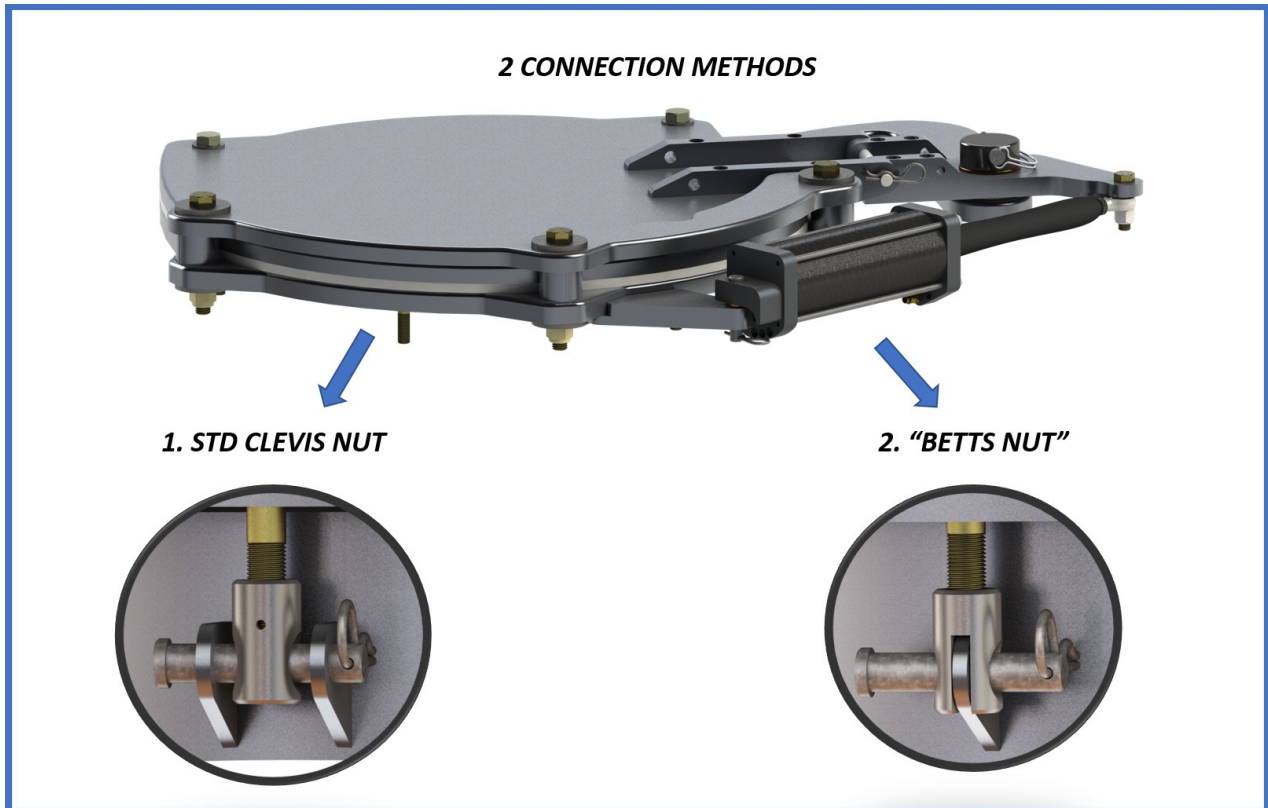
- MOUNTING..... STANDARD 20" OPENING (HARDWARE PROVIDED)
- OPERATIONAL BULK TANK PRESSURE.. 0-36 psi.....(0-2.5 bar)
- PNEUMATIC OPERATING PRESSURE..... 90-120 psi.....(6.2-8.3 bar)
- PNEUMATIC CYLINDER..... PIVOTAL EDGE (3" BORE, 6" STROKE CARBON FIBER)
- SEALING TECHNOLOGY..... CUSTOM MOLDED INFLATABLE SEAL
- SEAL PRESSURE..... 60 psi (4.13 bar)
- SEAL VACUUM ON OPEN/CLOSE..... 12 IN Hg
- OPEN TIME..... 3 SEC
- CLOSE TIME..... 3 SEC
- MULTIPLE COVER CONTROLS..... CONTROL 1-4 COVERS WITH 1 CONTROL BOX
- AUXILIARY REQUIREMENTS..... MOUNT CONTROL BOX, SUPPLY AIR IN, PLUMBING TO COVERS

MATERIAL SPECIFICATIONS

- COVER AND FLANGE..... MACHINED A356.0 ALUMINUM
- PIVOT PIN AND CASTLE NUT..... 6061 T6 ANODIZED ALUMINUM
- CLEVIS NUTS, CROSSPINS..... STAINLESS STEEL AND GALVANIZED STEEL
- BOLTS..... ZINC PLATED STEEL (GRADE 5)
- INFLATABLE SEAL..... PRESFRAY-PRS581
- CONTACT SURFACE SLIDERS..... CUSTOM MOLDED HDPE
- THRUST WASHERS..... BRONZE
- BUSHINGS..... CUSTOM MOLDED HDPE



The Pivotal Edge is a ground operated manhole cover for the bulk transportation industry. The cover is comprised of a flange that is mounted to the vessel's existing 20" ring utilizing the factory attach points. The cover pivots on a hinge pin. The inflatable seal that is recessed into the cover creates a pressure seal.



Overall Cover Dimensions:

- A...29.8"
- B...40.1"
- C...3.1" top of ring to top of cover
- D...0.9" top of ring to bottom nut

System Weight:

- Cover and Flange: 92 lbs.
- Pneumatic Cylinder: 6 lbs.
- Control Box: 17 lbs.

Overall Control Box Dimensions:

- E... 9.7"
- F...6.9"
- G...6.5"
- H...6.3"

