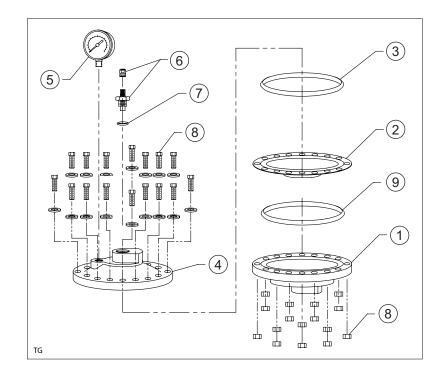


PTFE DIAPHRAGM INSTALLATION TEF-GUARD Models

KIT ITEM # IMPORTANT! After maintenance or re-assembly, use new fasteners and torque fasteners as follows:		
FT LB\$	IN LBS	Nm
Torque specifications are based on the replacement Consult factory if specifications do not match da		cations to dampener serial tag.

EXPLODED PARTS LISTING

- ① WETTED CHAMBER
- 2 PTFE DIAPHRAGM
- (3) EPDM O-RING
- (4) NON-WETTED CHAMBER
- (5) GAUGE
- **(6)** CHARGING VALVE
- (7) CHARGING VALVE O-RING
- (8) BOLTS/WASHERS/NUTS
- 9 PTFE TAPE GASKET





Read and observe all safety warnings and instructions in the Installation & Operation Manual before dampener installation, operation or repair.



WARNING! Remove all pressure from dampener AND pumping system before disassembly, removal or maintenance.



CAUTION! Replace nut and bolt fasteners at each re-assembly with fasteners of equal grade/strength value. DO NOT re-use old nuts and bolts. Fasteners may lose strength when re-torqued. Warranty voided for failure to replace both nuts and bolts when reassembling.



To avoid possible damage to bladder/bellows from a system pressure test, charge dampener to 80% of the system test pressure prior to test.

- 1. Disassemble by removing all nuts and bolts. Make sure all components are clean and free of corrosion. Remove and discard old EPDM O-ring ③ and old PTFE tape ⑨ from bead groove.
- 2. The 3/16" PTFE tape has a tacky section on the back side of the tape covered by a protective film strip. Remove the protective strip and place the PTFE tape ③ into the wetted chamber's bead groove. Start at one point and carefully install the tape around the bead keeping the tape centered in the groove. Overlap the ends of the PTFE tape ¼" to ½", cutting off any additional tape.
- 3. Place the non-wetted chamber ④ on a flat surface with the inside facing up (O-ring groove side).
- 4. Place the EPDM O-ring 3 in the groove and set the PTFE diaphragm 2 on the O-ring dome side up.



O-ring appears oversized but will fit properly upon bolt tightening.



- 5. Insert two bolts ® 180 degrees apart from the bottom up, into the non-wetted chamber @ and through the PTFE diaphragm ②. Note the bolt's threaded end should be facing up at this point.
- 6. Hold the diaphragm ② and non-wetted chamber ④ together, turn the assembly over and place it on the wetted chamber ① using the two bolts for proper alignment.
- 7. Secure dampener assembly with bolts, nuts and washers. Tighten bolts in a crisscross pattern according to the torque specification on dampener tag. The gap between the non-wetted and the wetted chambers must remain even all around the unit.
 - CAUTION! Replace nut and bolt fasteners at each re-assembly with fasteners of equal grade/strength value. DO NOT re-use old nuts and bolts. Fasteners may lose strength when re-torqued. Warranty voided for failure to replace both nuts and bolts when reassembling.
- 8. After all bolts are completely tightened, some PTFE from the diaphragm should be pushed out from the edge of the dampener. This is normal and can be left as is or trimmed to the dampener edge if desired.
- 9. Due to the nature of PTFE, dampeners should set for 24 hours as the PTFE will *cold flow*. After 24 hours, tighten the bolts again to the specification on dampener tag.



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