

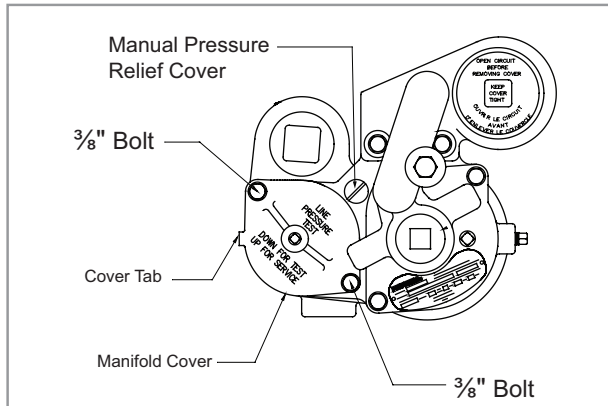


# STP Check Valve Replacement Instructions

**Warning**  Always follow industry standard safety procedures. Consult the STP/IST Fixed and VL Installation and Owner's Manual, which is provided with STP, for additional safety information and warnings.

**Warning**  Before removing fittings, pipe plugs, leak detectors, covers, or any other device from the piping system turn off the power at the load center. Lock out and clearly mark the circuit breaker in the OFF position so power is not accidentally turned on while servicing.

1. Shut off and disconnect the power to the STP. Close any ball valve that may be installed at the discharge of the STP.
2. Remove the Manual Pressure Relief (MPR) Cover to access the MPR Screw.
3. Turn the MPR Screw up to the Retaining Ring, wait 5 seconds for line pressure to relieve, and then turn it back down completely (do not over-tighten).
4. Replace the MPR Cover over the MPR Screw.
5. Remove the two 3/8" Bolts from the Manifold Cover. Set Manifold Cover and Bolts aside for re-use.

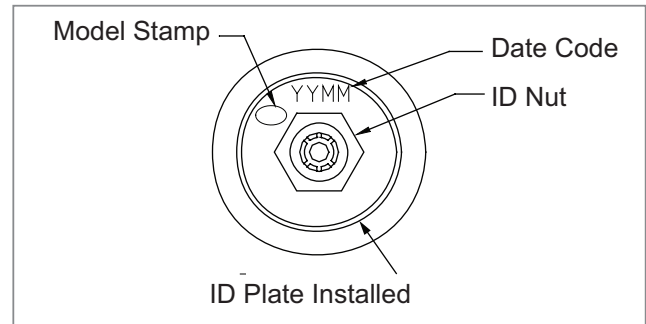


**Figure 1**

6. Remove Check Valve Spring from Manifold cavity and set aside for re-use.
7. Use a pliers to grab the check valve by the ID nut (Figure 2) and pull straight up (a vacuum under the check valve may be present when pulling the check valve. The vacuum is caused by product held in the STP column pipe).
8. Verify the new Check Valve is correct for this application by matching the ID Nut and the Model Stamp to the removed Check Valve (See FFS Technical Bulletin TB010 for additional Check Valve Model details).

**Note:** Only Model 65 PSI Check Valves have an ID Plate installed and are intended only for use in secondary pumps of manifolded installations.

9. Insert the new Check Valve into the Manifold Cavity so it slides freely in its opening and rests flat on the manifold seating surface. Place the Check Valve Spring over the Check Valve, with smaller end coil seated around the ID Nut.
10. Remove the existing O-ring from the Manifold Cover and discard it.
11. Wipe the Manifold Cover O-ring groove clean of dirt and debris, place the new O-ring into the groove, and apply grease to the groove to hold the O-ring in place during installation.



**Figure 2**

12. Orient the Manifold Cover over the Check Valve Spring with the Cover Tab out (Figure 1). Compress the Check Valve Spring with the Check Valve Cover until flush with the Manifold while maintaining the O-ring in the groove. Replace the 3/8" bolts and tighten them down in an alternating pattern to a minimum torque of 30 ft-lbs (40.7Nm).

**Note:** After applying torque, visually check that the Manifold Cover is flush to the Manifold. The cover being flush is an indication that the O-ring was maintained in the groove for proper sealing.

13. Turn the STP on and visually check for product leaks in the serviced areas. If any leaks are detected turn off STP, **lock out and tag the circuit breaker** and make repairs.

Contact Franklin Fueling System Technical Support if you have questions (800-984-6266).



3760 Marsh Road • Madison, WI 53718, U.S.A.  
Tel: +1 608 838 8786 • Fax: +1 608 838 6433  
Tel: USA & Canada 1 800 225 9787 • Tel: México 001 800 738 7610

**Franklin Fueling Systems GmbH**  
Rudolf-Diesel-Strasse 20 • 54516 Wittlich, GERMANY  
Tel: +49-6571-105-380 • Fax: +49-6571-105-510