

Red Jacket Maxxum® 6" STP Check Valve Assembly/Housing



Installation Instructions

NOTICE

- Veeder-Root makes no representation or warranty about the information in this publication. A qualified professional is required for service of the components addressed in this publication.
- The information in this publication cannot be used as a substitution for the knowledge and experience of a qualified professional.
- The information contained in this publication is merely for the consideration of a qualified professional, which should make their own determination of how to address any issues based on the situation.
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- Contact TLS Systems Technical Support for additional troubleshooting information at 800-323-1799.

Contractor Certification Requirements

Veeder-Root requires the following minimum training certifications for contractors who will troubleshoot the equipment discussed in this manual:

Installer Certification: Contractors holding valid Installer Certification are approved to perform wiring and conduit routing, equipment mounting, probe and sensor installation, tank and line preparation, and line leak detector installation.

Safety Warnings

FAILURE TO COMPLY WITH THE FOLLOWING WARNINGS AND SAFETY PRECAUTIONS COULD RESULT IN SERIOUS INJURY OR DEATH, AND COULD CAUSE DAMAGE TO PROPERTY AND THE ENVIRONMENT.

EXPLOSIVE: Fuels and their vapors are extremely explosive if ignited.

FLAMMABLE: Fuels and their vapors are extremely flammable.

ELECTRICITY: High voltage exists in, and is supplied to, the device. A potential shock hazard exists.

TURN POWER OFF: Live power to a device creates a potential shock hazard. Turn Off power to the device and associated accessories when servicing the unit.

WARNING: Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

READ ALL RELATED MANUALS: Knowledge of all related procedures before you begin work is important. Read and understand all manuals thoroughly. If you do not understand a procedure, ask someone who does.

This system operates near highly combustible fuel storage tanks.

To ensure proper installation, operation, and continued safe use of this product:

1. Read and follow all instructions in this manual, including all safety warnings.
2. Have equipment installed by a contractor trained in its proper installation and in compliance with all applicable codes including: National Electrical Codes 70 and 30A; federal, state, and local codes; and other applicable safety codes.
3. Before installing pipe threads apply an adequate amount of fresh, UL classified for petroleum, non-setting thread sealant. For E85AG applications, Loctite 564 is recommended for all field serviceable pipe threads.
4. When servicing unit, use non-sparking tools and use caution when removing or installing equipment to avoid generating a spark.
5. Substitution of components may impair intrinsic safety.
6. Do not modify or use service parts other than those provided by Veeder-Root.

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Safety Precautions

The following safety symbols are used throughout this manual to alert you to important safety hazards and precautions.

 EXPLOSIVE Fuels and their vapors are extremely explosive if ignited.	 FLAMMABLE Fuels and their vapors are extremely flammable.
 ELECTRICITY High voltage exists in, and is supplied to, the device. A potential shock hazard exists.	 TURN POWER OFF Live power to a device creates a potential shock hazard. Turn Off power to the device and associated accessories when servicing the unit.
 WARNING Indicates a hazardous situation which, if not avoided, could result in death or serious injury.	 WEAR EYE PROTECTION Wear eye protection when working with pressurized fuel lines to avoid possible eye injury.

Check Valve Assembly Removal

 **Disconnect, lock out, and tag power at the panel before starting to service the pump.**

 **When servicing equipment, use non-sparking tools and use caution when removing or installing equipment to avoid generating a spark.**

NOTICE Close the ball valve in the discharge line if it has been installed.

Care should be taken to insure that the internal portions of the vent line and check valve assembly are clean and free of debris or contamination during servicing.

1. Relieve system pressure by removing the protective cover and then backing out the pressure adjustment screw (see Figure 1).
2. Loosen or disconnect the lower vent line fitting.
3. Disconnect the upper vent line fitting.
4. Remove the four 1/2-inch hex bolts.
5. Pull the check valve housing assembly straight out of the manifold. Note: If replacing the entire check valve housing with kit 001443375, skip to Step 9.
6. Remove the check valve assembly from the housing by slightly compressing the check valve spring and removing the 'E' type retaining ring from the check valve stem.
7. Assemble the check valve into the check valve housing by inserting the check valve through the spring into the housing.
8. Compress the spring slightly and insert the 'E' type retaining ring into the groove in the check valve assembly stem.
9. Install the two new o-rings on the sealing face of the check valve housing included with the check valve assembly repair kit. If installing a new housing, rotate the lock down screw counterclockwise until it reaches a positive stop.
10. Lower the check valve assembly down into the manifold, taking care not to damage the seal on the check valve assembly.
11. Install the four 1/2-inch hex bolts. Torque these bolts to 50 ft-lbs.
12. Re-attach the upper vent fitting then tighten both the upper and lower fittings 1/6 to 1/4 turn beyond hand tight.
13. Readjust the pressure adjusting screw to the desired pressure setting.
14. Replace the protective cap.

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15. If applicable, open ball valve down line from the pump.

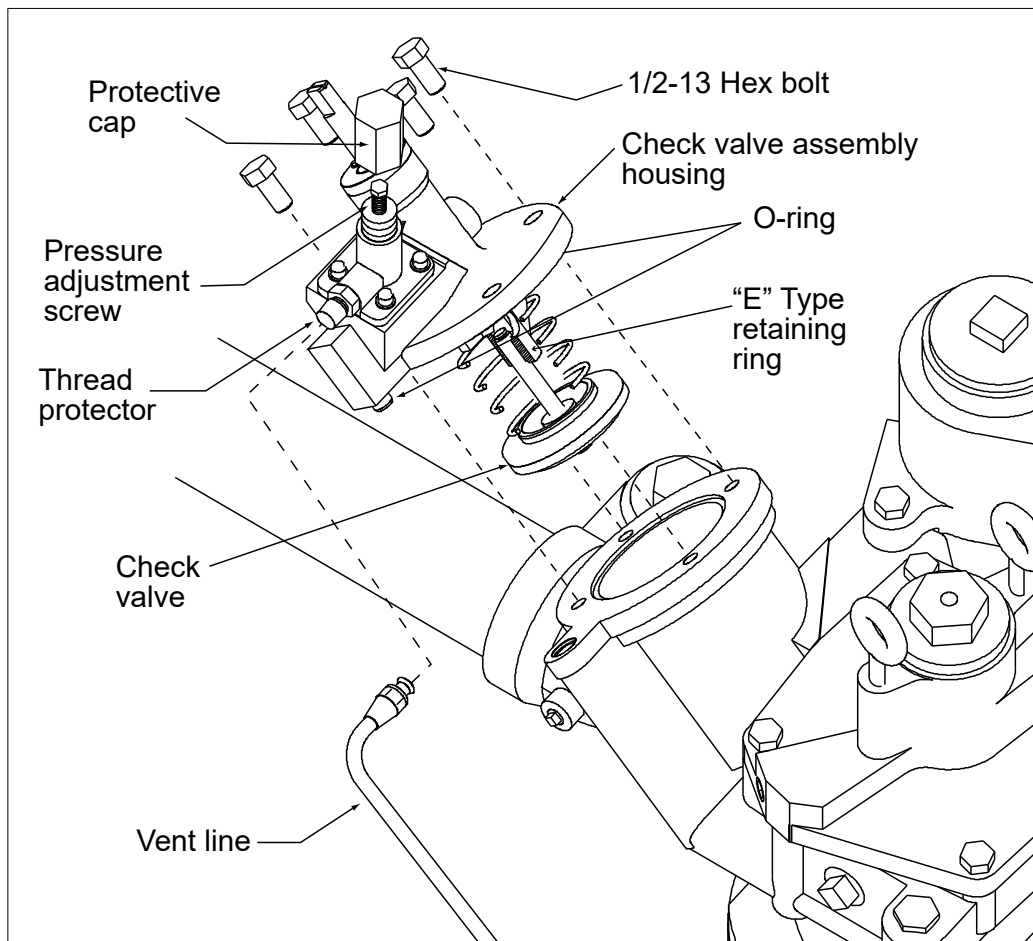


Figure 1. Maxxum Check Valve Assembly