

Mueller® Meter Yoke Box Dual Check Valve

INSTALLATION

Instructions for Assembling Mueller® Dual Check Valve to Existing Mueller Meter Yoke Box in the Field

1. Close both the inlet valve of the meter yoke box and the water valve at the house. If house water valve is not shut off, removing water meter will drain house plumbing. Remove water meter with attached expansion hand wheel assembly.
2. Remove earth from around outlet end of meter yoke box. Remove pipe from outlet fitting and remove outlet fitting from box.
3. Bolt the Dual Check Valve Body to the outside of the meter box using two (2) T-head bolts and two (2) nuts with nylon inserts.
4. Replace outlet pipe removed in Step 2 with new pipe or modify existing pipe, and attach to the Dual Check Valve Body outlet.
5. Slide Dual Check Valve Insert into Dual Check Valve Body until it contacts the

meter box. The slots in the Dual Check Valve Insert face toward the top of the meter box.

6. Hold insert in place by assembling washer and standard nuts on bolts extending through slots in the Dual Check Valve Insert.

NOTE: Nuts only need to be handtight.

7. Place meter washer in inlet end of Dual Check Valve Insert and replace water meter with attached expansion hand wheel.

8. Open meter inlet valve and test for leaks. If no leaks, fill in earth around outlet of box.

Instructions for Assembling Mueller® Dual Check Valve to New Mueller Meter Yoke Box Before Installing in Field

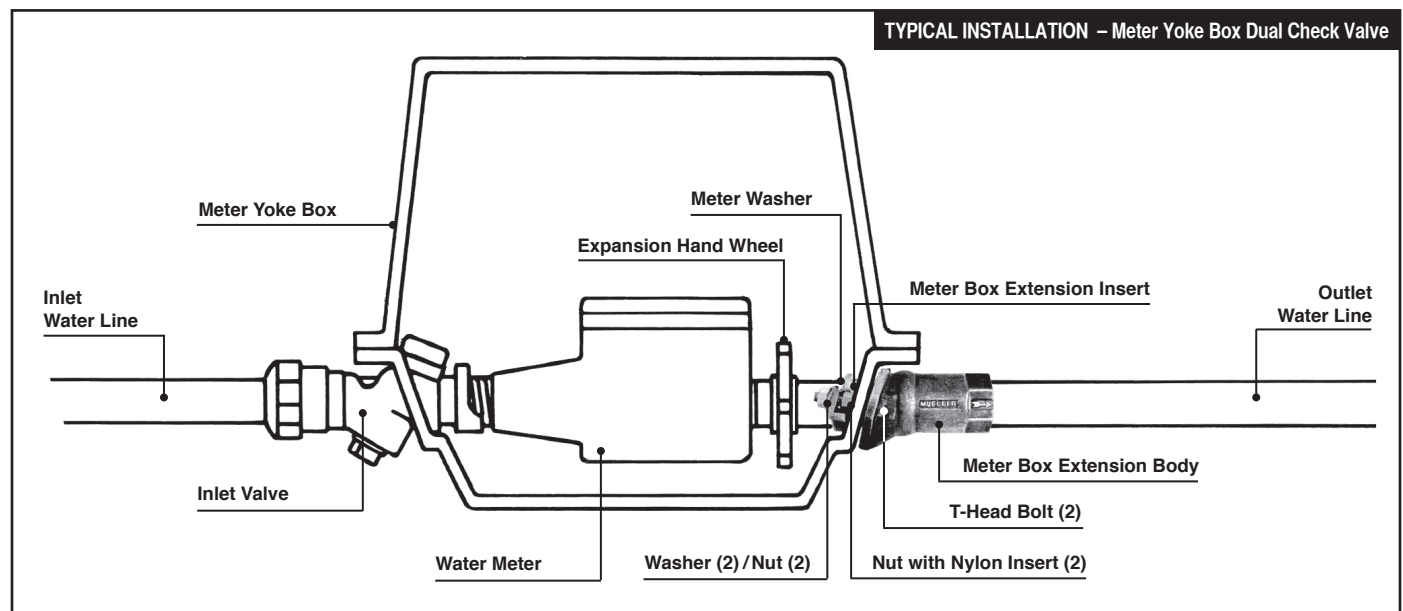
1. Remove outlet fitting on meter box.
2. Follow instruction Steps 3, 5 and 6 for installing to meter boxes in the field.

Field Testing Procedure

Unit can be tested in line as follows.

NOTE: The Mueller Dual Check Valve does not have to be removed from the line for testing.

1. Close meter box inlet valve and remove water meter with attached expansion hand wheel.
2. Observe Dual Check Valve Insert for leaks for one (1) minute. If no leakage occurs and a small volume of water is drained from the unit upon pushing the 1st poppet valve away from the seat, using a pencil or similar object, the 1st check valve is sealing.
3. With the 1st check valve poppet held open as described above, observe 2nd check valve for leakage for one (1) minute. If no leakage occurs, 2nd check valve is sealing.
4. If both check valves are sealing, replace water meter with attached expansion hand wheel and open meter inlet valve to reactivate water system.



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SERVICE INFORMATION

Repair in Field

1. To replace the Dual Check Valve Insert, first turn off meter yoke box inlet valve and water valve at house.
2. Remove water meter with expansion hand wheel.
3. Remove two (2) standard nuts and two (2) washers holding the Dual Check Valve Insert into the valve body. Pull the insert out and remove from the Dual Check Valve Body.
4. Replace the Dual Check Valve Insert with a new one. The replaced insert can be taken back to the shop for repairs.

Repair in Shop

1. Remove snap ring from end of Dual Check Valve Insert.
2. Place 3/8" diameter pipe nipple, at least three (3) inches long, against inlet poppet to push plastic parts out of Dual Check Valve Insert housing.

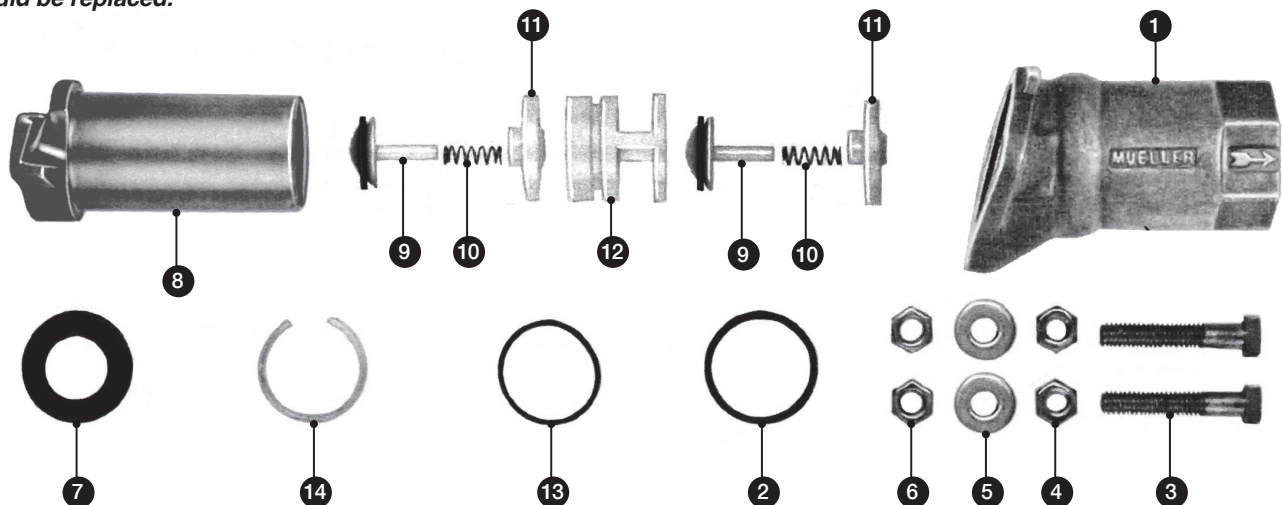
NOTE: All internal parts (plastic parts, rubber parts, O-ring and seat facings) should be replaced.

3. Reassemble Dual Check Valve Insert by reassembling parts in the order shown in the illustration at the top of this page.

- a) Assemble the first poppet by placing spring over stem of Poppet followed by Retainer. Notice that the side of the Retainer with the chamfered center faces away from the Spring.
- b) Insert the first poppet assembly into the Insert Housing, Poppet end first.
- c) Lubricate Locator O-Ring and place it into groove on outside of 2nd Seat Locator. Carefully push assembly into Insert Housing (thick plastic seat end first) by using finger to push against thick center area of Locator. Do not push on thin ring at back of Locator.
- d) Assemble second poppet as the first and insert assembly so that Poppet seats inside 2nd Seat Locator.
- e) Secure parts inside Insert Housing by placing Snap Ring into groove inside the end of the Insert Housing.

PARTS

| ID | PART | DESCRIPTION |
|----|-------|---------------------------|
| 1 | CD-1 | Body |
| 2 | CD-2 | Body O-Ring |
| 3 | CD-3 | T-Head Bolt (2) |
| 4 | CD-4 | Nut with Nylon Insert (2) |
| 5 | CD-5 | Washer (2) |
| 6 | CD-6 | Standard Nut (2) |
| 7 | CD-7 | Rubber Meter Washer |
| 8 | CD-8 | Insert Housing |
| 9 | CD-9 | Poppet (2) |
| 10 | CD-10 | Spring (2) |
| 11 | CD-11 | Retainer (2) |
| 12 | CD-12 | 2nd Seat Locator |
| 13 | CD-13 | Locator O-Ring |
| 14 | CD-14 | Snap Ring |



⚠ CAUTION: When this check valve is used it makes a closed system. A pressure relief valve must be installed to protect against pressure build up caused by water expansion from a domestic hot water heater or boiler. Bodily injury and/or system damage may occur if a pressure relief valve is not installed.