

Valtek Mark Eight Y-body Valves

GENERAL INFORMATION

The following instructions are designed to assist in performing maintenance as required on Valtek® Mark Eight control valves. Product users and maintenance personnel should thoroughly review this bulletin in conjunction with separate Flowserve Installation, Operation, Maintenance Instructions 1 (Mark One and Two Control Valves) and 2 (Cylinder Actuators) before installing, operating, disassembling, or performing any maintenance on the valve.

To avoid possible injury to personnel or damage to valve components, WARNING and CAUTION notes must be strictly adhered to.

Standard Valtek Mark Eight valves are identical to Valtek Mark One valves with exception of the “Y-body” configuration. On high temperature applications, Valtek Mark Eight valves use a special seat retaining ring.

High Temperature Seat Ring Removal

Valtek Mark Eight valves used on high temperature applications do not have a seat retainer. Instead, a spiral retaining ring is used to hold the seat firmly in place. Special tools for disassembly are included with the valve shipment (if replacements are required, contact a local Flowserve sales office). To disassemble these special Valtek Mark Eight valves, refer to Figure 1 and proceed as follows:

1. Disassemble the valve as outlined in Installation, Operation, Maintenance Instructions 1.

WARNING: Drain all fluids from valve and depressurize line to atmospheric pressure. Failure to do so can cause serious injury.

2. Insert the base plate (installation tool No. 1) under the seat ring so that the tool engages the body (refer to Figure 1).
3. Insert the top compression plate (installation tool No. 2) into the seat ring.

CAUTION: Do this operation carefully, making sure the seating surface is not galled or scored.

4. Bolt the two plates together using the supplied bolts.
5. Tighten until seat ring O-ring gasket is compressed.

NOTE: High bolt torque will be necessary to compress the O-ring.
6. Remove the seat ring retaining ring. The retaining ring can be easily removed with a screwdriver inserted into the slot provided in the ring.
7. With the retaining ring removed, the assembly can be unbolted and the seat ring and gasket may be pulled out.

High Temperature Seat Ring Assembly

Refer to Figure 1 and proceed as follows:

1. Install new seat gasket and relocate seat ring. It is necessary to replace all gaskets each time the valve is disassembled.
2. Place the installation tools together as outlined in the ‘Removal’ section, applying enough pressure to allow the retaining ring to be installed.
3. After the ring has been installed, remove the installation tools from the body.
4. Reassemble the valve according to Installation, Operation, Maintenance Instructions 1.

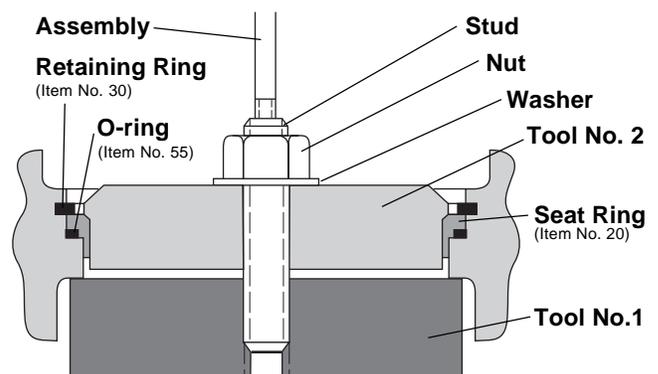


Figure 1: High Temperature Seat Ring

(NOTE: Item numbers correspond to the valve's bill of material)

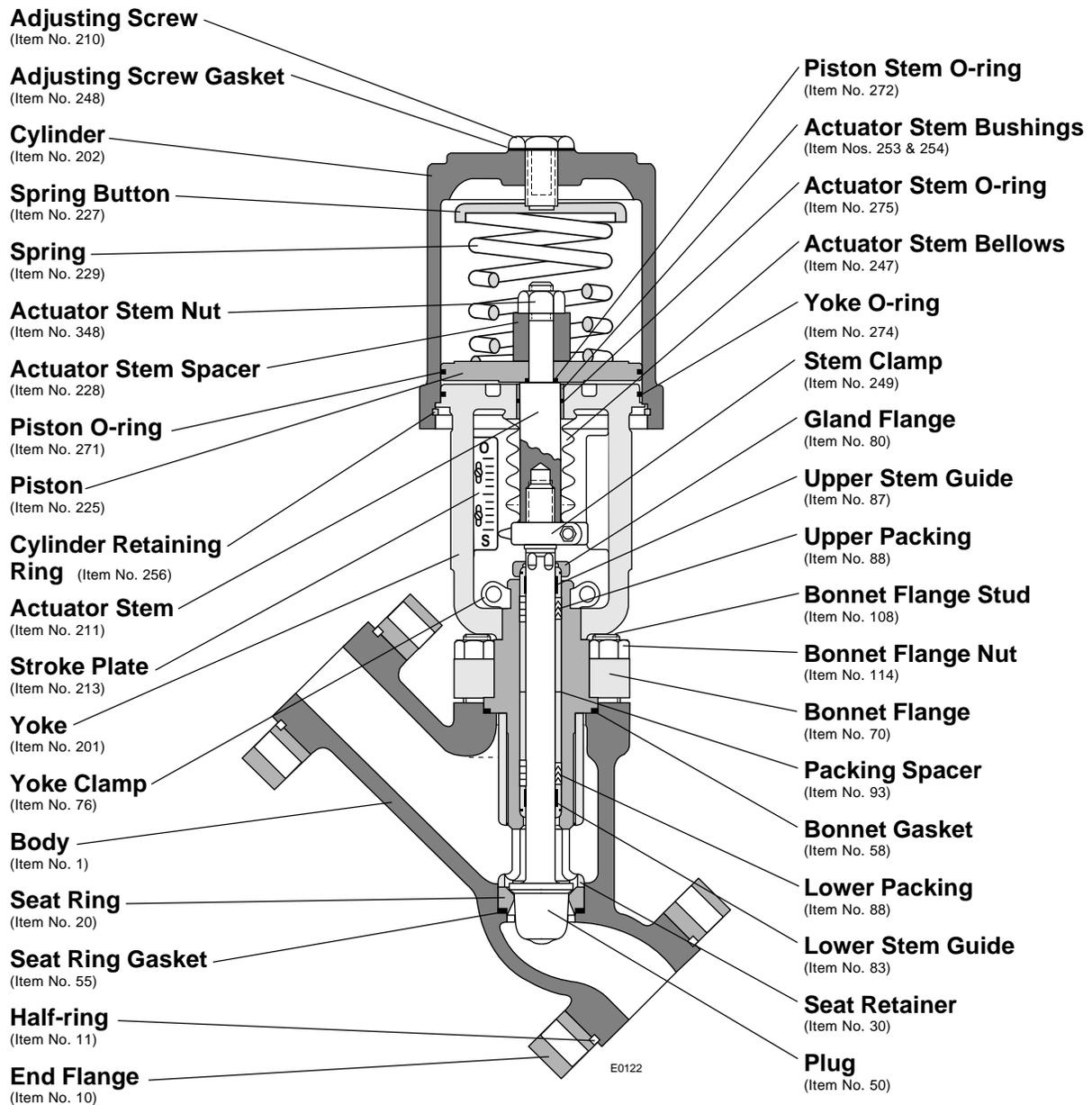


Figure 2: Sectioned View of Standard Mark Eight Control Valve

NOTE: Item numbers correspond directly to the valve's bill of material. Refer to the bill of material for specific part numbers.

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