

ME980-10-901, ME980-16-901, AND ME980-24-901 CLAPPER REPAIR KIT

FOR: 1 1/4"- 3" EMERGENCY SHUT-OFF VALVE

!!!WARNING!!!

READ AND UNDERSTAND ALL INSTRUCTIONS INCLUDED WITH THIS REPAIR KIT RELIEVE ALL PRESSURE FROM SYSTEM BEFORE REMOVING VALVE FOR SERVICE



WARNING: These products contain a chemical known to the state of California to cause cancer and birth defects or reproductive harm

MEC recommends that you replace the graphite flange seal, P/N ME980-16-114 or ME980-24-111(not included) when repairing this assembly.

NOTE: Numbers in brackets [] refer to the number in the valve component list.

A. Disassembly

- 1. EVACUATE ALL PRESSURE FROM SYSTEM BEFORE ANY DISASSEMBLY OR REPAIR.
- 2. **For ME980-10-901 and ME980-16-901:** Remove (4) Flange Bolts [8] and Flange [2] and retain.
 - **For ME980-24-901:** Remove (8) Flange Bolts [8] and Flange [2] and retain.
- 3. For ME980-10-901 and ME980-16-901: Remove O-Ring [10] and retain. Remove Graphite Flange Seal [4] and discard. For ME980-24-901: Remove Graphite Flange Seal [4] and discard.
- 4. Remove Handle Spring Arm [14] from Latch Assembly [18].
- 5. Remove Handle Screw [16] and Handle Washer [15] from Stem [5] and retain.
- 6. Remove Spring Retainer [13], Handle Spring, Handle Assembly [22] and Link Bearing [17] and retain.
- 7. Remove Stem Assembly [21], Gland Spring [12], and Thick Washer [11] and retain.
- 8. Loosen Arm Holding Screw [9] and remove Pivot Stem [3], Clapper Assembly [19], Pivot Bearing [6], and Stem Bearing [7] from Body [1] and discard Arm Holder Screw and Clapper Assembly and retain

- Pivot Stem, Pivot Bearing, and Stem Bearing.
- 9. Inspect Valve Body [1] and clean if necessary, be sure interior is free of dirt, residue and foreign particles.

B. Reassembly

- 1. Install Pivot Bearing and Stem Bearing into Body.
- 2. Install Arm Holding Screw onto Clapper Assembly and install Clapper Assembly into Body.
- 3. Install Pivot Stem into Body, retaining Clapper Assembly.
- 4. Tighten Arm Holding Screw securely.
- 5. Install Thick Washer into Body.
- 6. Apply Lubriplate to packing bore in Body.
- 7. Install Gland Spring into Body.
- 8. Apply loctite #271 to threads of Gland and install Stem Assembly into Body, tighten securely. Confirm that Clapper Assembly moves freely.
- 9. Install Graphite Flange Seal into Body.
- 10. **For ME980-10-901 and ME980-16-901 only:** Apply lubriplate to O-Ring and install on Body.
- 11. **For ME980-10-901 and ME980-16-901:** Apply loctite #271 to threads of Body, place Flange on Body, and install (4) Flange Bolts into Body and tighten in "star" pattern and confirm that all screws are tightened.

For ME980-24-901: Apply loctite #271 to threads of Body, place Flange on Body, and install (8) Flange Bolts into Body and tighten in "star" pattern and confirm that all screws are tightened.

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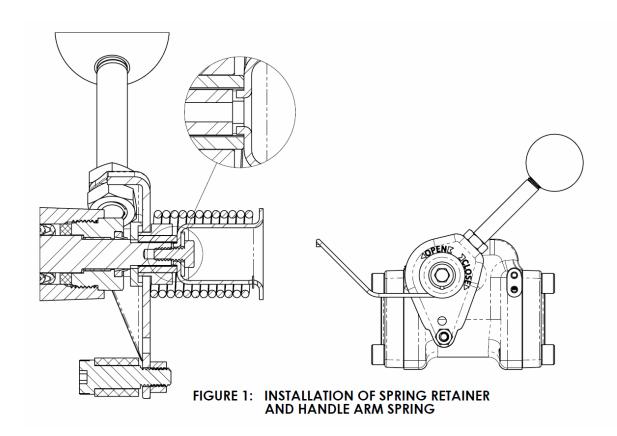
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- 12. Install Link Bearing onto Stem
- 13. With Clapper closed, Install Handle Assembly onto Stem with Latch Bearing facing down.
- 14. Apply Loctite #271 to stem threads.
- 15. Install Thermal Linkage into Handle Arm Assembly.
- 16. Install Spring Retainer into Thermal Linkage as shown with Handle Spring Arm oriented as shown (Figure 1).
- 17. Install Handle Washer and Handle Screw, tighten securely.
- 18. Wind Handle Spring Arm clockwise and attach to Latch Body.
- 19. Connect the valve assembly outlet to a pressure source of at least 150 PSI. Check for leaks at all joints and stem seals using a suitable leak detector solution such as "Marshall Excelsior" leak detector.

CAUTION: DO NOT USE THE VALVE IF ANY JOINT CONTINUES TO LEAK UNDER PRESSURE

C. Component List

- 1. Valve Body
- 2. Flange
- 3. Pivot Stem
- 4. Graphite Flange Seal
- 5. Stem
- 6. Pivot Bearing
- 7. Stem Bearing
- 8. Flange Bolt
- 9. Arm Holder Screw
- 10. O-Ring
- 11. Thick Washer
- 12. Gland Spring
- 13. Spring Retainer
- 14. Handle Spring
- 15. Handle Washer
- 16. Handle Screw
- 17. Link Bearing
- 18. Latch Assembly
- 19. Clapper Assembly
- 20. Stem Assembly
- 21. Handle Assembly



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