



**ME980-10K, ME980-16K, AND ME980-24K
VALVE REPAIR KIT
FOR: ME980 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

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 and ME980-16:** Remove (8) Flange Bolts [8] and (2) Flanges [2] and retain.
For ME980-24: Remove (16) Flange Bolts [8] and Flange [2] and retain.
3. **For ME980-10 and ME980-16:** Remove O-Rings [10] and Graphite Flange Seal [4] and discard.
For ME980-24: Remove Graphite Flange Seal [4] and discard.
4. Remove arm of Handle Spring [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 [14], Handle Assembly [22] and Thermal Link [17] and retain.
7. Remove Valve Seat Holder Assembly [20] and discard.
8. Remove Stem Assembly [21], Gland Spring [12], and Thick Washer [11] and discard.
9. 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.
10. 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 [6] and Stem Bearing [7] into Body [1].
2. Install Clapper Assembly [19] and Pivot Stem [3] into Body [1], retaining Clapper Assembly [19].
3. Tighten Arm Holding Screw [9] securely.
4. Install Thick Washer [11] into Body [1].
5. Apply Lubriplate to packing bore in Body [1].
6. Install Gland Spring [12] into Body [1].
7. Apply loctite #271 to threads of Gland and install Stem Assembly [12] into Body [1], tighten securely. Confirm that Clapper Assembly [19] moves freely.
8. Apply lubriplate around Valve Seal and install Valve Seat Holder Assembly [20] into Body [1].
9. Install Graphite Flange Seal [4] into Body [1].
10. **For ME980-10 and ME980-16 only:** Apply lubriplate to O-Ring [10] and install on Body [1].
11. **For ME980-10 and ME980-16:** Apply loctite #271 to threads of Body [1], place Flange [2] on Body [1], and install (4) Flange Bolts [8] into Body and tighten in "star" pattern and confirm that all screws are tightened.
For ME980-24: Apply loctite #271 to threads of Body [1], place Flange [2] on Body [1], and install (8) Flange Bolts [8] into Body [1] and tighten in "star" pattern and confirm that all screws are tightened.

Marshall Excelsior Company

1506 George Brown Drive Marshall, MI 49068
Phone (269) 789-6700 Fax (269) 781-8340
www.marshallexcelsior.com

The contents of this publication are for informational purposes only. While every effort has been made to ensure accuracy, these contents are not to be construed as warranties or guarantees, expressed or implied, regarding the products or services described herein or for their use or applicability. Marshall Excelsior Co. reserves the right to modify or improve the designs or specifications of such products at any time without notice. The MEC™ logo is the trademark of Marshall Excelsior Co.

12. Repeat steps 10 and 11 for remaining Flange [2].
13. With Clapper closed, Install Handle Assembly [22] onto Stem [5] with Latch Bearing facing down (Figure1).
14. Apply loctite #271 to stem threads.
15. Install Thermal Link [17] into Handle Arm Assembly [22].
16. Install Spring Retainer [13] into Thermal Link [17] as shown (Figure 1) with Handle Spring [14] arm oriented as shown (Figure 2).
17. Install Handle Washer [15] and Handle Screw [16], tighten securely.
18. Wind Handle Spring [14] arm clockwise and attach to Latch Body (Figure 2).
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. Thermal Link
18. Latch Assembly
19. Clapper Assembly
20. Valve Seat Holder Assembly
21. Stem Assembly
22. Handle Assembly

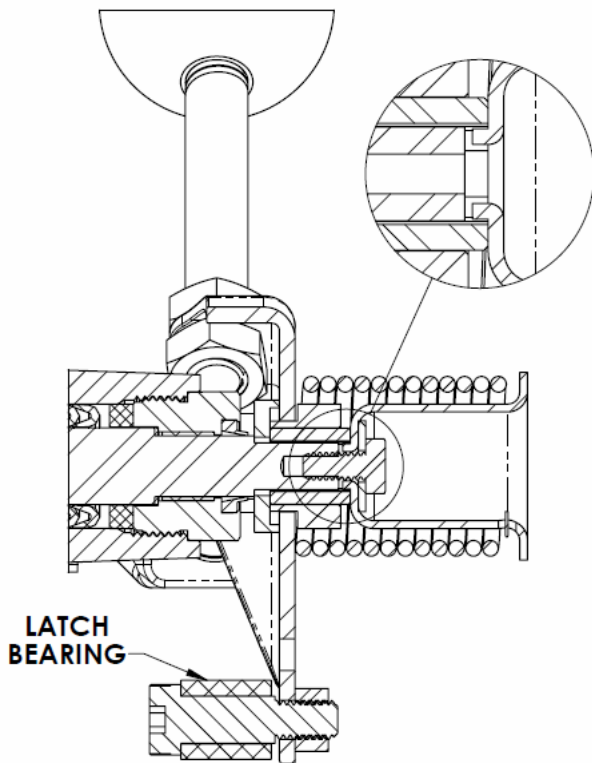


FIGURE 1: INSTALLATION OF SPRING RETAINER

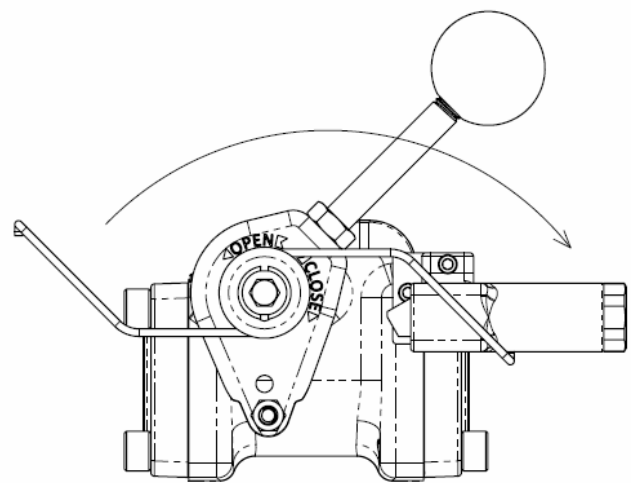


FIGURE 2: INSTALLATION OF HANDLE SPRING

ME980-10K, ME980-16K, AND ME980-24K

