



**Repair Kit Instructions**  
**For: ME980-903K, ME980-904K,**  
**ME980PGA, and ME980HRK**  
**1 1/4"-3" Emergency Shutoff Valves**

**!!!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.

**For ME980-903K and ME980-904K:**

**A. Disassembly**

1. **EVACUATE ALL PRESSURE FROM SYSTEM BEFORE ANY DISASSEMBLY OR REPAIR.**
2. Unwind Handle Spring [6] arm counterclockwise and detach from Latch Assembly [15].
3. Remove Latch Mounting Nut [12] from Latch Mounting Screw [11] and discard.
4. Remove Latch Mounting Screw [11] and discard.
5. Remove Latch Assembly [15] and discard.
6. Remove (2) Latch Bracket Mounting Screws [14] and Release Bracket [10] and discard.
7. Inspect latch bracket mounting screw holes on Valve Body [1] and clean if necessary.

**B. Reassembly**

1. Apply Loctite #271 to holes in Valve Body [1] and install Release Bracket [10] onto Valve Body [1] using (2) Latch Bracket Mounting Screws [14].
2. Apply Loctite #271 to Release Bracket [10] threads and install Latch Alignment Screw [13] into Release Bracket [10].
3. Install Latch Assembly [15] over Latch Alignment Screw [13] and install Latch Mounting Screw [11].
4. Install Latch Mounting Nut [12] and tighten securely.
5. Wind Handle Spring [6] arm clockwise and attach to Latch Assembly [15].

**For ME980PGA:**

**A. Disassembly**

1. **EVACUATE ALL PRESSURE FROM SYSTEM BEFORE ANY DISASSEMBLY OR REPAIR.**
2. Remove arm of Handle Spring [6] arm from Latch Assembly [15].
3. Remove Handle Screw [8] and Handle Washer [7] from Stem [2] and retain.
4. Remove Spring Retainer [5], Handle Spring [6], Handle Assembly [17] and Thermal Link [9] and retain.
5. Remove Stem Assembly [16], Gland Spring [4], and Thick Washer [3] and discard.
6. Inspect Valve Body [1] and clean if necessary, be sure interior is free of dirt, residue and foreign particles.

**B. Reassembly**

1. Install Thick Washer [3] into Valve Body [1].
2. Apply Lubriplate to packing bore in Valve Body [1].
3. Install Gland Spring [4] into Valve Body [1]. Apply loctite #271 to threads of Gland and install Stem Assembly [16] into Valve Body [1], tighten securely. Confirm that Clapper Assembly moves freely.
4. With Clapper closed, install Handle Assembly [17] onto Stem [2] with Latch Bearing facing down (Figure 1).
5. Apply loctite #271 to stem threads.
6. Install Thermal Link [9] into Handle Assembly [17].
7. Install Spring Retainer [5] into Thermal Link [9] as shown (Figure 1) with Handle Spring [6] arm oriented as shown (Figure 2).

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8. Install Handle Washer [7] and Handle Screw [8], tighten securely.
9. Wind Handle Spring [6] arm clockwise and attach to Latch Assembly [15] (Figure 2).
10. 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.
11. **CAUTION: DO NOT USE THE VALVE IF ANY JOINT CONTINUES TO LEAK UNDER PRESSURE**

For ME980HRK:

### A. Disassembly

1. **EVACUATE ALL PRESSURE FROM SYSTEM BEFORE ANY DISASSEMBLY OR REPAIR.**
2. Remove arm of Handle Spring [6] from Latch Assembly [15].
3. Remove Handle Screw [8] and Handle Washer [7] from Stem [2] and discard.
4. Remove Spring Retainer [5], Handle Spring [6], Handle Assembly [17] and Thermal Link [9] and discard.

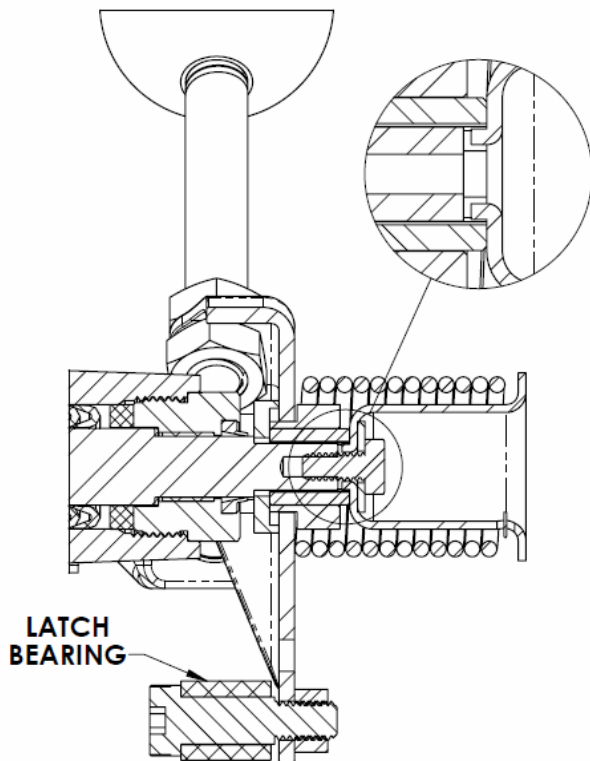


FIGURE 1: INSTALLATION OF SPRING RETAINER

### B. Reassembly

1. With Clapper closed, Install Handle Assembly [17] onto Stem [2] with Latch Bearing facing down (Figure 1).
2. Apply loctite #271 to stem threads.
3. Install Thermal Link [9] into Handle Assembly [17].
4. Install Spring Retainer [5] into Thermal Link [9] as shown (Figure 1) with Handle Spring [6] arm oriented as shown (Figure 2).
5. Install Handle Washer [7] and Handle Screw [8], tighten securely.
6. Wind Handle Spring [6] arm clockwise and attach to Latch Assembly [15] (Figure 2).
7. 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**

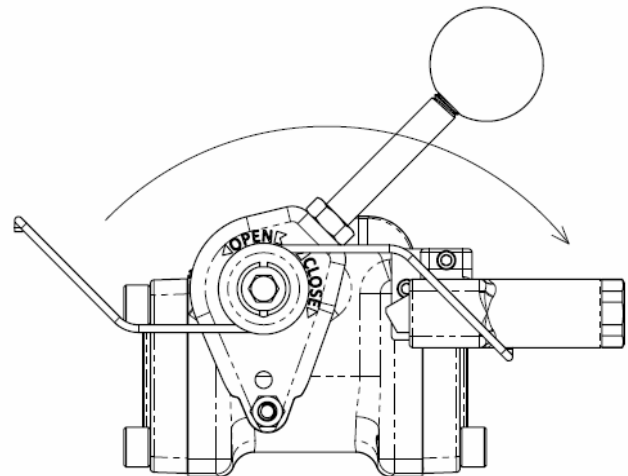


FIGURE 2: INSTALLATION OF HANDLE SPRING

## C. Component List

1. Valve Body
2. Stem
3. Thick Washer
4. Gland Spring
5. Spring Retainer
6. Handle Spring
7. Handle Washer
8. Handle Screw
9. Thermal Link
10. Release Bracket
11. Latch Mounting Screw
12. Latch Mounting Nut
13. Latch Alignment Screw
14. Latch Bracket Mounting Screw
15. Latch Assembly
16. Stem Assembly
17. Handle Assembly

