



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.



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

For ME980-903K and ME980-904K:

A. Disassembly

1. **EVACUATE ALL PRESSURE FROM SYSTEM BEFORE ANY DISASSEMBLY OR REPAIR.**
2. Unwind Handle Spring [7] arm counterclockwise and detach from Latch Assembly [16].
3. Remove Latch Mounting Nut [13] from Latch Mounting Screw [12] and discard.
4. Remove Latch Mounting Screw [12] and discard.
5. Remove Latch Assembly [16] and discard.
6. Remove (2) Latch Bracket Mounting Screws [15] and Release Bracket [11] 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 [11] onto Valve Body [1] using (2) Latch Bracket Mounting Screws [15].
2. Apply Loctite #271 to Release Bracket [11] threads and install Latch Alignment Screw [14] into Release Bracket [11].
3. Install Latch Assembly [16] over Latch Alignment Screw [14] and install Latch Mounting Screw [12].
4. Install Latch Mounting Nut [13] and tighten securely.

5. Wind Handle Spring [7] arm clockwise and attach to Latch Assembly [16].

For ME980PGA:

A. Disassembly

1. **EVACUATE ALL PRESSURE FROM SYSTEM BEFORE ANY DISASSEMBLY OR REPAIR.**
2. Remove arm of Handle Spring [7] arm from Latch Assembly [16].
3. Remove Handle Screw [9] and Handle Washer [8] from Stem [2] and retain.
4. Remove Spring Retainer [6], Handle Spring [7], Handle Assembly [18] and Thermal Link [10] and retain.
5. Remove Link Bearing [3] and retain.
6. Remove Stem Assembly [17], Gland Spring [5], and Thick Washer [4] and discard.
7. 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 [4] into Valve Body [1].
2. Apply Lubriplate to packing bore in Valve Body [1].
3. Install Gland Spring [5] into Valve Body [1]. Apply loctite #271 to threads of Gland and install Stem Assembly [17] into Valve Body [1], tighten securely. Confirm that Clapper Assembly moves freely.
4. Install Link Bearing [3] on to Stem [2]
5. With Clapper closed, install Handle Assembly [18] onto Stem [2] with Latch Bearing facing down (Figure1).
6. Apply loctite #271 to stem threads.
7. Install Thermal Link [10] into Handle Assembly [17].

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8. Install Spring Retainer [6] into Thermal Link [10] as shown (Figure 1) with Handle Spring [7] arm oriented as shown (Figure 2).
9. Install Handle Washer [8] and Handle Screw [9], tighten securely.
10. Wind Handle Spring [7] arm clockwise and attach to Latch Assembly [16] (Figure 2).
11. 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.
12. **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 [7] arm from Latch Assembly [16].
3. Remove Handle Screw [9] and Handle Washer [8] from Stem [2] and discard.

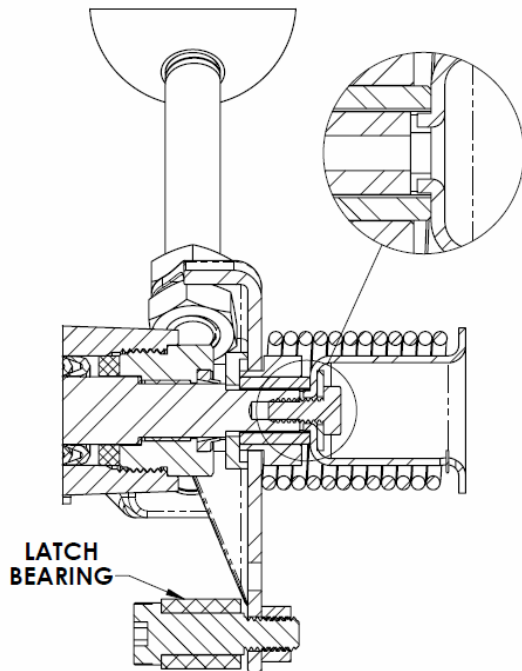


FIGURE 1: INSTALLATION OF SPRING RETAINER

4. Remove Spring Retainer [6], Handle Spring [7], Handle Assembly [18] and Thermal Link [10] and discard.

B. Reassembly

1. With Clapper closed, Install Handle Assembly [18] onto Stem [2] with Latch Bearing facing down (Figure1).
2. Apply Loctite #271 to stem threads.
3. Install Thermal Link [10] into Handle Assembly [18].
4. Install Spring Retainer [6] into Thermal Link [10] as shown (Figure 1) with Handle Spring [7] arm oriented as shown (Figure 2).
5. Install Handle Washer [8] and Handle Screw [9], tighten securely.
6. Wind Handle Spring [7] arm clockwise and attach to Latch Assembly [16] (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

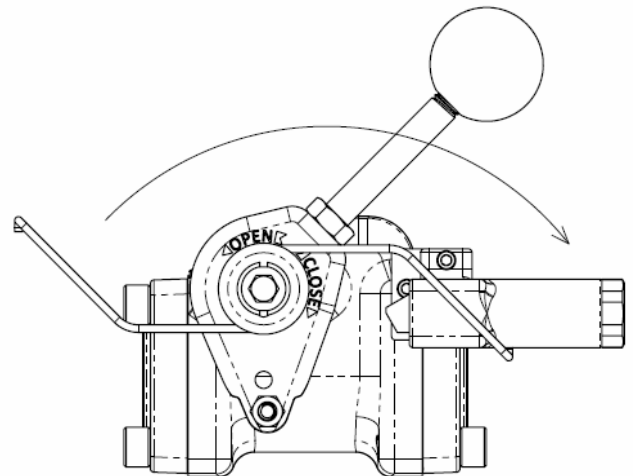


FIGURE 2: INSTALLATION OF HANDLE SPRING

C. Component List

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

