



**ME980-10SRK, ME980-16SRK, AND ME980-24SRK  
SEAL 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.



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

## **A. Disassembly**

1. **EVACUATE ALL PRESSURE FROM SYSTEM BEFORE ANY DISASSEMBLY OR REPAIR.**
2. **For ME980-10 and ME980-16:** Remove (8) Flange Bolts [7] and (2) Flanges [2] and retain.  
**For ME980-24:** Remove (16) Flange Bolts [7] and (2) Flanges [2] and retain.
3. Remove O-Rings [9] and Graphite Flange Seal [4] and discard.
4. Remove arm of Handle Spring [13] from Latch Assembly [17].
5. Remove Handle Screw [15] and Handle Washer [14] from Stem [20A] and retain.
6. Remove Spring Retainer [12], Handle Spring [13], Handle Assembly [21] and Thermal Link [16] and retain.
7. Remove Valve Seat Holder Assembly [19]. Remove Valve Seal [19A] and Valve Graphite Seal [19B] from Valve Holder [19C] and discard Valve Seal [19A] and Valve Graphite Seal [19B].
8. Remove Stem Assembly [20], Gland Spring [11], and Thick Washer [10] and retain.
9. Remove Link Bearing [20B], Gland [20D], Wiper [20C], Gland Bushing [20E], Nylon Washer [20F], Graphite Packing [20G], (2) V-Pack [20H], and Male Adapter [20J] from Stem [20A]. Discard Wiper [20C], Gland Bushing [20E], Nylon Washer [20F],

Graphite Packing [20G], (2) V-Pack [20H], and Male Adapter [20J].

10. Loosen Arm Holding Screw [8] and remove Pivot Stem [3], Clapper Assembly [18], Pivot Bearing [5], and Stem Bearing [6] from Body [1]. Discard only Pivot Bearing [5] and Stem Bearing [6].
11. **For ME980-10:** Remove Cotter Pin [18B], Valve Nut [18C], Valve [18D], and Pilot Seal [18F] from Valve Stem [18A]. Discard only Pilot Seal [18F].  
**For ME980-16 and ME980-24:** Remove Cotter Pin [18B], Valve Nut [18C], Valve [18D], Pilot Seal [18F], and Pilot Seal Holder [18E] from Valve Stem [18A]. Discard only Pilot Seal [18F].
12. Inspect Valve Body [1] and clean if necessary, be sure interior is free of dirt, residue and foreign particles.

## **B. Reassembly**

1. **For ME980-10:** Install Pilot Seal [18F] onto Valve [18D]. Install Valve [18D] onto Valve Stem [18A].  
**For ME980-16 and ME980-24:** Install Pilot Seal [18F] onto Valve [18D]. Install Pilot Seal Holder [18E] onto Pilot Seal [18F]. Install Valve [18D] onto Valve Stem [18A].
2. Install Valve Nut [18C] onto Valve Stem [18A] until Cotter Pin [18B] can just be installed. Install Cotter Pin [18B] and bend around Valve Stem [18A]. Install Arm Holding Screw [8] until end of screw is flush.
3. Install Pivot Bearing [5] and Stem Bearing [6] into Body [1].

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## ME980-10SRK, ME980-16SRK, AND ME980-24SRK

4. Install Clapper Assembly [18] into Body [1]. Install Pilot Stem [3] into Body [1], retaining Clapper Assembly [18].
  5. Tighten Arm Holding Screw [8] securely.
  6. Install Thick Washer [10] into Body [1].
  7. Apply Lubriplate to packing bore in Body [1].
  8. Install Gland Spring [11] into Body [1].
  9. Apply lubriplate to Male Adapter [20J] and inside of "V" of (2) V-Packs [20H] and install onto Stem [20A]. Install Graphite Packing [20G] onto Stem [20A]. Install Nylon Washer [20F] onto Stem [20A].
  10. Install Gland Bushing [20E] and Wiper [20C] into Gland [20D]. Install Gland [20D] onto Stem [20A].
  11. Apply loctite #271 to threads of Gland and install Stem Assembly [20] into Body [1], tighten securely. Confirm that Clapper Assembly [18] moves freely.
  12. Install Valve Graphite Seal [19B] and Valve Seal [19A] onto Valve Seat Holder [19C].
  13. Apply lubriplate around Valve Seal [19A] and install Valve Seat Holder Assembly [19] into Body [1].
  14. Install Graphite Flange Seal [4] into Body [1].
  15. Apply lubriplate to O-Ring [9] and install on Body [1].
- \*\*NOTE: If the ME980-24 is dated prior to C2317, use ME980-24-108 O-Ring. If dated after C2317, use ME980-24-113 O-Ring.**
16. **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 [7] 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 [7] into Body [1] and tighten in "star" pattern and confirm that all screws are tightened.
  17. Repeat step 16 for remaining Flange [2].
  18. Install Link Bearing [20B] onto Stem [20A].
  19. With Clapper closed, Install Handle Assembly [21] onto Stem [20A] with Latch Bearing facing down (Figure 1).
  20. Apply loctite #271 to stem threads.
  21. Install Thermal Link [16] into Handle Assembly [21].
  22. Install Spring Retainer [12] into Thermal Link [16] as shown (Figure 1) with Handle Spring [13] arm oriented as shown (Figure 2).
  23. Install Handle Washer [14] and Handle Screw [15], tighten securely.
  24. Wind Handle Spring [13] arm clockwise and attach to Latch Body (Figure 2).
  25. 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**

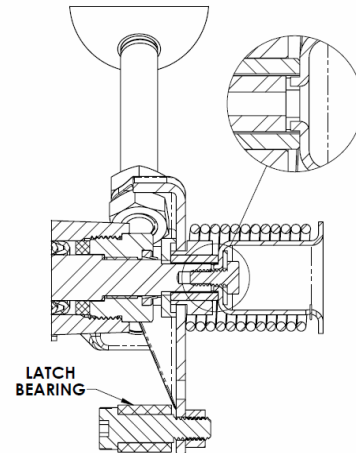


FIGURE 1: INSTALLATION OF SPRING RETAINER

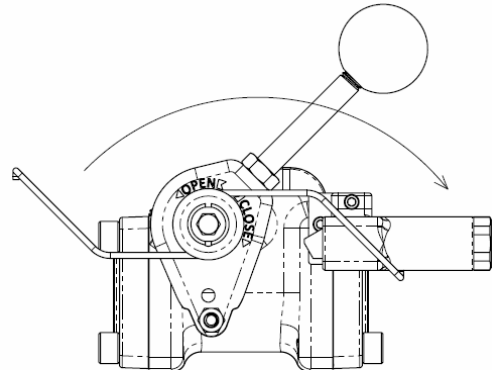
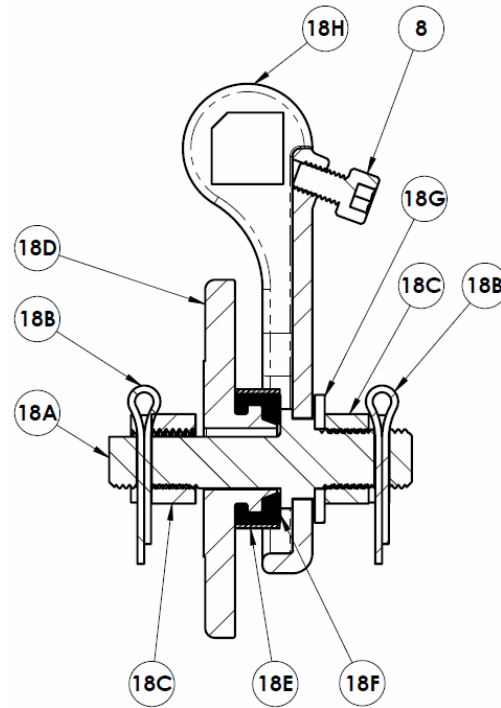


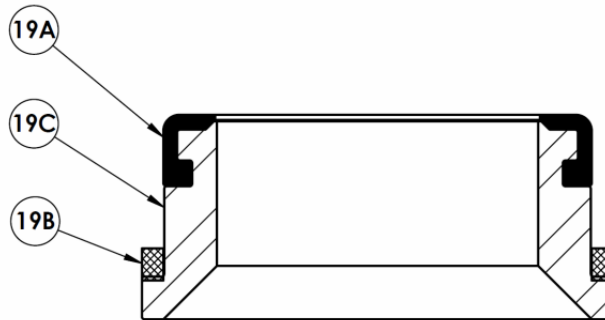
FIGURE 2: INSTALLATION OF HANDLE SPRING

## C. Component List

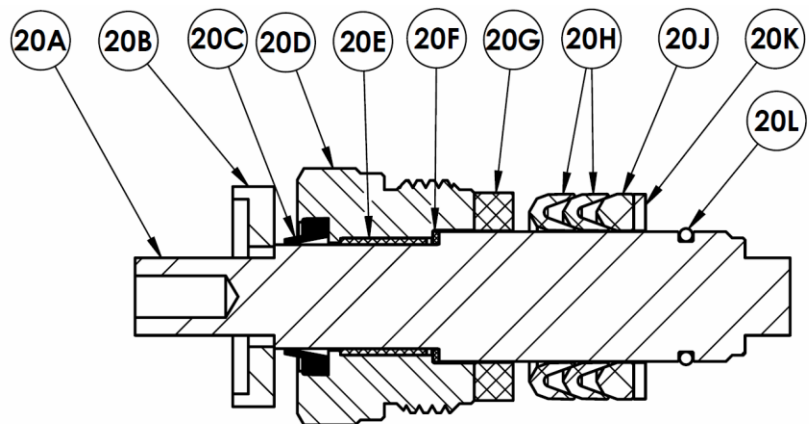
1. Valve Body
2. Flange
3. Pivot Stem
4. Graphite Flange Seal
5. Pivot Bearing
6. Stem Bearing
7. Flange Bolt
8. Arm Holder Screw
9. O-Ring
10. Thick Washer
11. Gland Spring
12. Spring Retainer
13. Handle Spring
14. Handle Washer
15. Handle Screw
16. Thermal Link
17. Latch Assembly
18. Clapper Assembly
  - 18A. Valve Stem
  - 18B. Cotter Pin
  - 18C. Valve Nut
  - 18D. Valve
  - 18E. Pilot Seal Holder
  - 18F. Pilot Seal
  - 18G. Valve Washer
  - 18H. Pivot Arm
19. Valve Seat Holder Assembly
  - 19A. Valve Seal
  - 19B. Valve Graphite Seal
  - 19C. Valve Seat Holder
20. Stem Assembly
  - 20A. Stem
  - 20B. Link Bearing
  - 20C. Wiper
  - 20D. Gland
  - 20E. Gland Bushing
  - 20F. Nylon washer
  - 20G. Graphite Packing
  - 20H. V-Pack
  - 20J. Male Adapter
  - 20K. Thick Washer
  - 20L. Wire Ring
21. Handle Assembly



**CLAPPER ASSEMBLY**



**VALVE SEAT HOLDER ASSEMBLY**



**STEM ASSEMBLY**

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