



**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.

A. Disassembly

- EVACUATE ALL PRESSURE FROM SYSTEM BEFORE ANY DISASSEMBLY OR REPAIR.**
- 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.
- Remove O-Rings [9] and Graphite Flange Seal [4] and discard.
- Remove arm of Handle Spring [13] from Latch Assembly [17].
- Remove Handle Screw [15] and Handle Washer [14] from Stem [20A] and retain.
- Remove Spring Retainer [12], Handle Spring [13], Handle Assembly [21] and Thermal Link [16] and retain.
- 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].
- Remove Stem Assembly [20], Gland Spring [11], and Thick Washer [10] and retain.
- 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].
- 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].
- 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].
- Inspect Valve Body [1] and clean if necessary, be sure interior is free of dirt, residue and foreign particles.

B. Reassembly

- 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].
- 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.
- Install Pivot Bearing [5] and Stem Bearing [6] into Body [1].

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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. **For ME980-10 and ME980-16 only:** Apply lubriplate to O-Ring [9] and install on Body [1].
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 steps 10 and 11 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

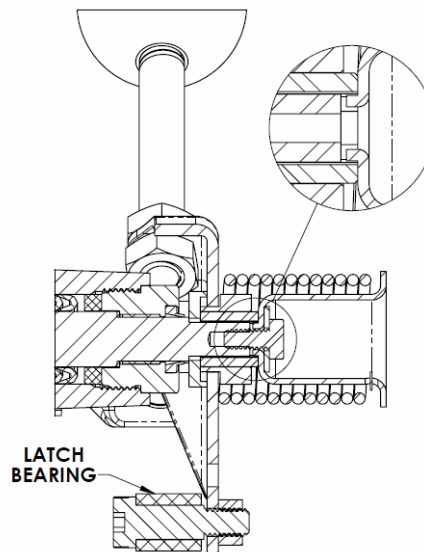


FIGURE 1: INSTALLATION OF SPRING RETAINER

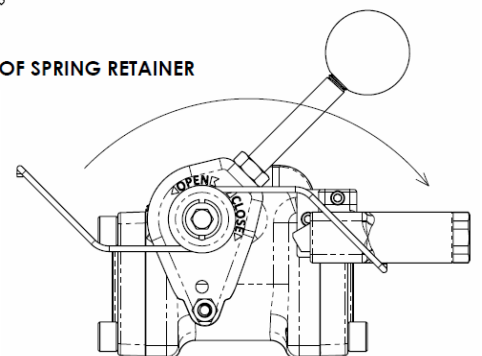
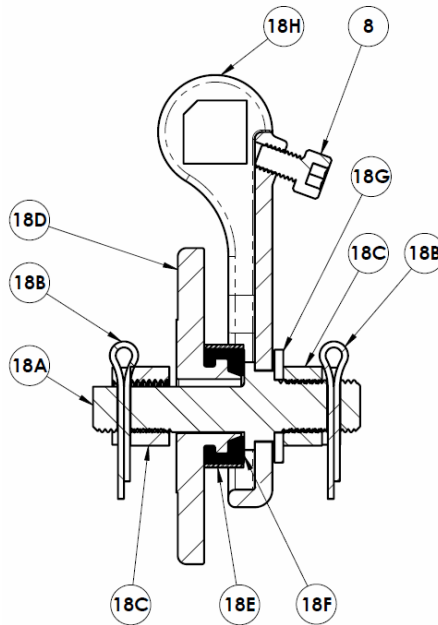


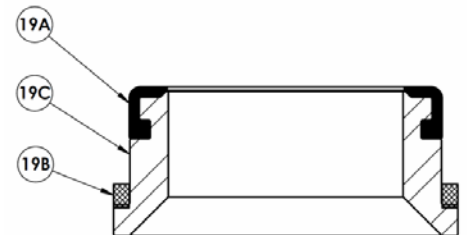
FIGURE 2: INSTALLATION OF HANDLE SPRING

C. Component List

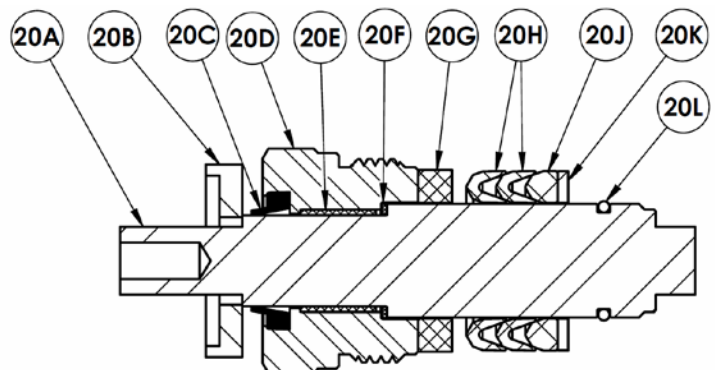
- 1. Valve Body
- 2. Flange
- 3. Pivot Stem
- 4. Graphite Flange Seal
- 5. Pivot Bearing
- 6. Stem Bearing
- 7. Flange Bolt
- 8. Arm Holder Screw
- 9. O-Ring
- 10. Thick Washer
- 11. Gland Spring
- 12. Spring Retainer
- 13. Handle Spring
- 14. Handle Washer
- 15. Handle Screw
- 16. Thermal Link
- 17.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