

**ME670-USRK UPPER SEAL REPAIR KIT**  
**FOR: ME670 THRU ME673 SERIES**  
**FILL AND WITHDRAWAL 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

**A. Disassembly**

1. **EVACUATE ALL PRESSURE FROM SYSTEM BEFORE ANY DISASSEMBLY OR REPAIR.**
2. Remove Hex Nut [16], Split Lock Washer [15], Information Plate [14], and Handwheel [13] from Valve Shaft [3] and retain.
3. Remove Valve Bonnet [5] from Valve Body [1] and retain.
4. Remove Bonnet Seal [4] from Valve Body [1] and discard.
5. Remove Valve Shaft Gland [12] from Valve Bonnet [5] and retain.
6. Remove Valve Shaft Gland O-Ring [10] from Valve Shaft Gland [12] and discard.
7. Remove (2) Stem Bushing Nests [9], Stem Bushings [8], Gland Seal [11], Stem Bushing Washer [7], and Valve Spring [6] from Valve Bonnet [5]. Discard (2) Stem Bushing Nests [9], Stem Bushing [8], Stem Bushing Washer [7], and Gland Seal [11]. Retain Valve Spring [6].
8. Inspect Valve Body [1] and Valve Bonnet [5] and clean if necessary, be sure interior is free of dirt, residue and foreign particles.

**B. Reassembly**

1. Install Valve Spring [6] and Stem Bushing Washer [7] into Valve Bonnet [5].
2. Apply Lubriplate to Stem Bushing [8], (2) Stem Bushing Nests [9], and Valve Shaft Gland O-Ring [10] and install into Valve Shaft Gland [12].
3. Install Gland Seal [11] into Valve Bonnet [5].
4. Apply Loctite #271 to threads of Valve Shaft Gland [12] and install into Valve Bonnet [5], tighten.
5. Install Bonnet Seal [4] into Valve Body [1].
6. Thread Valve Shaft [3] into Valve Bonnet [5] until Gasket Holder Assembly [2] bottoms on Valve Bonnet [5]. Apply Loctite #271 to Threads of Valve Bonnet [5] and install into Valve Body [1].
7. Install Handwheel [13], Information Plate [14], Split Lock Washer [15], and Hex Nut [16] onto Valve Shaft [3] and tighten.
8. 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 joints continue to leak under pressure.**

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### C. Component List

1. Valve Body
2. Gasket Holder Assembly
3. Valve Shaft
4. Bonnet Seal
5. Valve Bonnet
6. Valve Spring
7. Stem Bushing Washer
8. Stem Bushing
9. Stem Bushing Nest, 2 required
10. Valve Shaft Gland O-Ring
11. Gland Seal
12. Valve Shaft Gland
13. Handwheel
14. Information Plate
15. Split Lock Washer
16. Hex Nut

