

ME990-16-SRK SEAL REPAIR KIT FOR: ME990 2" INTERNAL VALVES

!!!WARNING!!!

READ AND UNDERSTAND ALL INSTRUCTIONS INCLUDED WITH THIS REPAIR KIT RELIEVE ALL PRESSURE FROM SYSTEM BEFORE REMOVING VALVE FOR SERVICE



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

NOTE: Numbers in brackets [] refer to the number in the valve component list.

A. Disassembly

- 1. EVACUATE ALL PRESSURE FROM SYSTEM BEFORE ANY DISASSEMBLY OR REPAIR.
- 2. Remove Valve Link Cotter Pin [15] and Lever [14] and retain.
- 3. Remove Gland Assembly [2] and Gland O-Ring [2N] from Body [1] and discard Gland O-Ring [2N].
- 4. Remove Spring Pin [2Q] from Cam Assembly [2R] and discard Spring Pin [2Q].
- 5. Remove Bonnet [2C] from Stub [2A] and Retain.
- 6. Remove Wiper [2B] and Gland Bushing [2D] from Bonnet [2C] and discard.
- 7. Remove Nylon Washer [2E], Female Adapter [2F], (3) V-Pack [2G], and Male Adapter [2H] from Stub [2A] and discard.
- 8. Remove Thick Washer [2J], Gland Spring [2K], and Thin Washer [2M] from Stub [2A] and retain.
- 9. Remove Gland [2M] from Stub [2A] and retain.
- 10. Remove O-Ring [2P] and Gland Bushing [2D] from Gland [2M] and discard.
- 11. Remove Cotter Pin [13] and Locknut [12] from Stem [3] and retain.
- 12. Remove Bleed Disc [11] from Stem [3] and discard.
- 13. Remove Valve Poppet Assembly [4] from Stem [3] and retain.
- 14. Remove (4) Valve Poppet Screws [4D] and Seal Retainer [4C] from Valve Poppet [4A] and retain.

- 15. Remove Main Valve Seal [4B] from Valve Poppet [4A] and discard.
- 16. Remove Excess Flow Spring [10] and Spring Seat [9] from Stem [3] and retain.
- 17. Remove Stem Guide [5], Upper Washer [8]. Closing Spring [7], Lower Washer [6], and Stem [3] and retain.
- 18. Remove Guide Bushing [16] from Guide [5] and discard Guide Bushing [16].
- 19. Remove Stem O-Ring [17] from Stem [3] and discard.
- 20. Inspect Valve Body [1] and clean if necessary, be sure interior is free of dirt, residue and foreign particles.

B. Reassembly

- 1. Install Valve Seal [4B] into Valve Poppet [4A].
- 2. Install Seal Retainer [4C] onto Valve Seal [4B].
- 3. Apply Loctite #242 to threads of Valve Poppet [4A] and install (4) Valve Poppet Screws [4D] to retain Valve Seal [4B].
- 4. Install Guide Bushing [16] in Guide [5].
- 5. Apply Lubriplate or equivalent grease to Stem O-Ring [17] and install on Stem [3].
- 6. Install Lower Washer [6], Closing Spring [7], Upper Washer [8], and Guide [5] on Stem [3] and install in Body [1].
- 7. Install Spring Seat [9], Excess Flow Spring [10], and Valve Holder Assembly [4] on Stem [3].
- 8. Apply Lubriplate or equivalent grease to Bore of Bleed Disc [11] and install on Stem [3].
- 9. Install Locknut [12] and Cotter Pin [13] on Stem [3].
- 10. Install Gland Bushing [2D] into Gland [2M].
- 11. Apply Lubriplate or equivalent grease to O-Ring [2P] and main bore of Gland [2M] and install O-Ring [2P] in Gland [2M].

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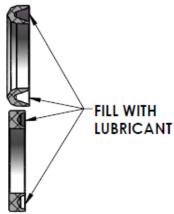
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- 12. Apply Lubriplate or equivalent grease to large section on Stub[2A] and install in Gland [2M].
- 13. Apply Lubriplate or equivalent grease to inside of Female Adapter [2F] and (3) V-packs [2G] as shown.



- Install Thin Washer[2L], Gland Spring [2K], Thick Washer [2J], Male Adapter [2H],
 V-Pack [2G], and Female Adapter [2F] in Gland [2M].
- 15. Install Nylon Washer [2E] on Stub [2A].
- 16. Install Rod Wiper [2B] and Gland Bushing [2D] in Bonnet [2C].
- 17. Apply Loctite #242 to threads of Bonnet [2C] and install into Gland [2M].
- 18. Install Cam Assembly [2R] on end of Stub [2A] and install Spring Pin [2Q] thru Cam Assembly [2R] and Stub [2A].
- 19. Apply Lubriplate or equivalent grease to Gland O-Ring [2N] and install on Gland Assembly [2].
- 20. Apply Loctite #242 to threads of Gland Assembly [2] and install into Body [1].
- 21. Install Lever [14] and Valve Link Cotter Pin [15] on Gland Assembly [2].
- 22. 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.

C. Component List

- 1. Body
- 2. Gland Assembly
- 2A. Stub
- 2B. Wiper
- 2C. Bonnet
- 2D. Gland Bushing, 2 required
- 2E. Nylon Washer
- 2F. Female Packing
- 2G. V-Pack, 3 required
- 2H. Male Packing
- 2J. Thick Washer
- 2K. Gland Spring
- 2L. Thin Washer
- 2M. Gland
- 2N. Gland O-Ring
- 2P. O-Ring
- 2Q. Spring Pin
- 2R. Cam Assembly
- 3. Stem
- 4. Valve Poppet Assembly
- 4A. Valve Poppet
- 4B. Main Valve Seal
- 4C. Seal Retainer
- 4D. Valve Poppet Screw
- 5. Stem Guide
- 6. Lower Washer
- 7. Closing Spring
- 8. Upper Washer
- Spring Seat
- 10. Excess Flow Spring
- 11. Bleed Disc
- 12. Locknut
- 13. Cotter Pin
- 14. Lever
- 15. Valve Link Cotter Pin
- 16. Guide Bushing
- 17. Stem O-Ring, Not Shown

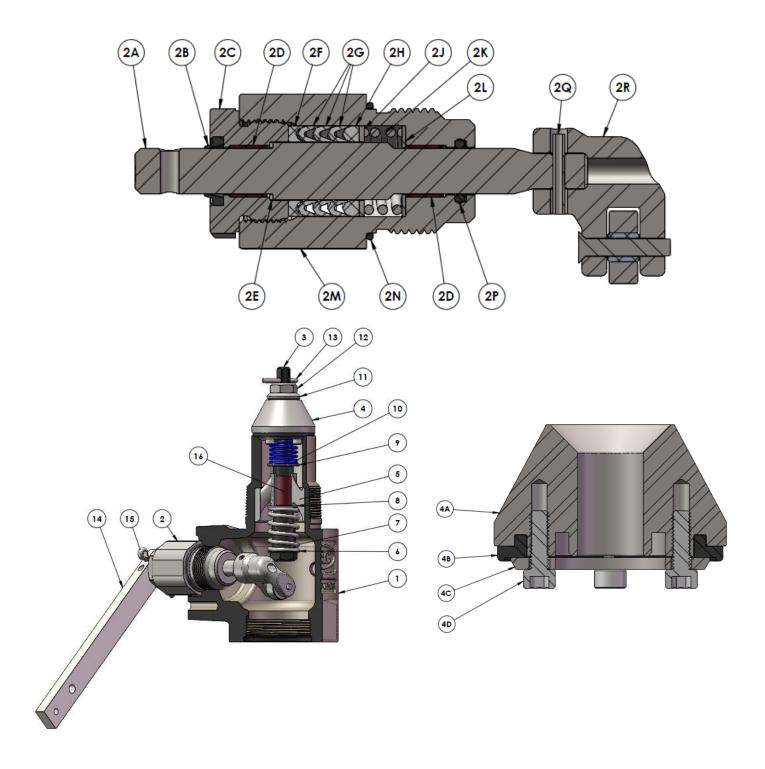
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