

**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 (4) Hex Screws [11] from Bonnet [1] and retain.
3. Remove (2) Nameplates [12] and retain.
4. Remove Nylock Nut [6], Lock Washer [7], and Handwheel [8] from Stem [9a] and retain.
5. Remove Valve Shaft Gland Assembly [3], Spring [4] and Nylon Gland Seal [5]. Discard all internal Gland Assembly components [3b-3f] and Nylon Gland Seal [5]. Retain Valve Shaft Gland [3a] and Spring [4].

**NOTE: Removed Gland Assembly components may differ from Repair Kit**

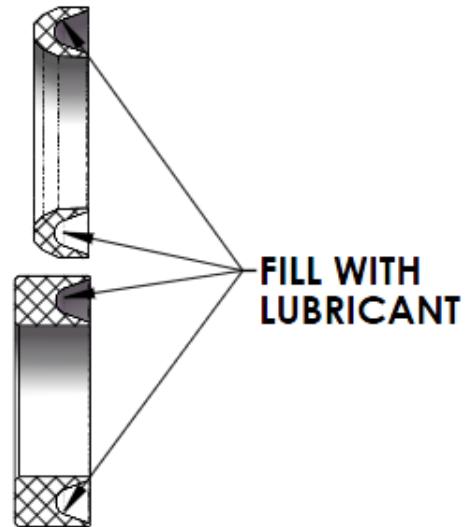
6. Remove Stem Assembly [9] from Bonnet [2] and retain.
7. Remove Wire Retaining Ring [9b], Set Screw [9c], and (9) Ball Bearings [9d] from Valve Holder Assembly [9f] and retain.
8. Remove Stem [9a] from Valve Holder Assembly [9f] and discard Valve Holder Assembly [9f] and Pilot O-Ring [9e].
9. Remove Bonnet Seal [10] from Body [1] and discard.
10. Inspect Body [1] and Bonnet [2] and clean if necessary. Be sure the interior is free of dirt, residue, and foreign particles.

**B. Re-assembly**

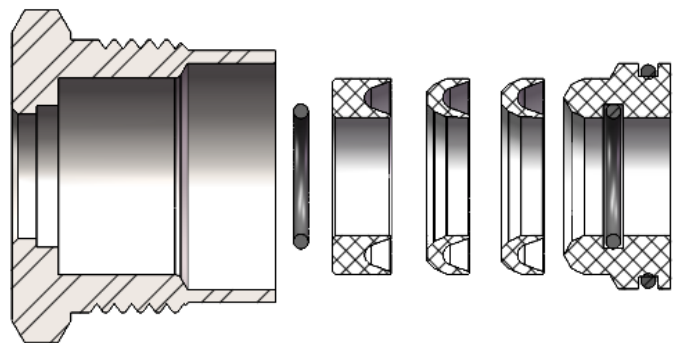
1. Apply Lubriplate or equivalent grease to Pilot O-Ring [9e] and install in Valve Holder Assembly [9f].
2. Install Stem [9a] into Valve Holder Assembly.
3. Install (9) Ball Bearings [9d] into Valve Holder Assembly [9f] to retain Stem [9a].
4. Install Set Screw [9c] into Valve Holder Assembly [9f] until it stops against Ball Bearings [9d], turn Set Screw [9c] back out 1/2 turn. Align groove in

Set Screw [9c] with groove in Valve Holder Assembly [9f]. Valve Holder Assembly [9f] must spin freely.

5. Install Wire Retaining Ring [9b] into groove in Valve Holder Assembly [9f].
6. Install Stem Assembly [9] into Bonnet [2].
7. Install Spring [4] and Nylon Gland Seal [5] into Bonnet [2].
8. Apply Lubriplate or equivalent grease to (1) Stem O-Ring [3b], Male Adapter Bushing [3g] and inside of Valve Shaft Gland [3a].
9. Apply Lubriplate or equivalent grease to outside of Female Adapter [3e] and (2) V-Packs [3f]. Fill inside of components with lubricant as shown.



10. Install Stem O-Ring [3b], Female Adapter [3c], (2) V-Packs [3d], Bushing O-Ring (cut) [3f] and Male Adapter Bushing [3e] into Valve Shaft Gland [3a] as shown.



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11. Apply Loctite #565 or equivalent thread sealant to threads of Gland Seal Assembly [3] and install over Stem Assembly [9] into Bonnet [2]. Wipe away excess lubricant.
12. Install Bonnet Seal [10] into Body [1].
13. Install Bonnet [2] onto Body [1].
14. Install (2) Nameplates [12] onto Bonnet [2] as shown.



15. Install (4) Hex Screws [11] onto Bonnet [2].
16. Install Handwheel [8], Lock Washer [7], and Nylock Nut [6] onto Stem [9a]. Tighten Nylock Nut [6] to 55-65 IN-LBS torque.
17. Connect the valve assembly outlet to a pressure source of at least 150 PSI. Check for leaks at all joints and at stem seal 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. Bonnet
3. Gland Seal Assembly
  - 3a. Valve Shaft Gland
  - 3b. Stem O-Ring; Qty: 2
  - 3c. Female Adapter
  - 3d. V-Pack; Qty: 2
  - 3e. Male Adapter Bushing
  - 3f. Bushing O-Ring (cut)
4. Spring
5. Nylon Gland Seal
6. Nylock Nut
7. Lock Washer
8. Handwheel
9. Stem Assembly
  - 9a. Stem
  - 9b. Wire Retaining Ring
  - 9c. Set Screw
  - 9d. Ball Bearing; Qty: 9
  - 9e. Pilot O-Ring
  - 9f. Valve Holder Assembly
10. Bonnet Seal
11. Hex Screw; Qty: 4
12. Nameplate; Qty: 2

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