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**WARNING:** Only qualified personnel may perform installation, disassembly, repair and maintenance. All gas must be safely evacuated from the system before starting repairs.

**CAUTION:** Avoiding the inhalation of, or skin contact with compressed and cryogenic gases is advised. Many of these gases can cause asphyxiation, serious injury, or death. See MSDS for specific information regarding the safe handling of the service gas. Evacuation of gas should take place in a well ventilated area to ensure dispersion. Keep gases far away from open flames or other sources of ignition to prevent fire or explosion.

**CAUTION:** To avoid binding due to freezing at low temperatures, entry of moisture into valve's internals, and external upper stem area must be prevented. Seals, gaskets and washers must be in good condition and installed properly. Torque requirements must be followed.

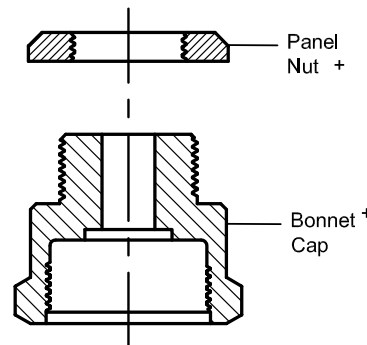
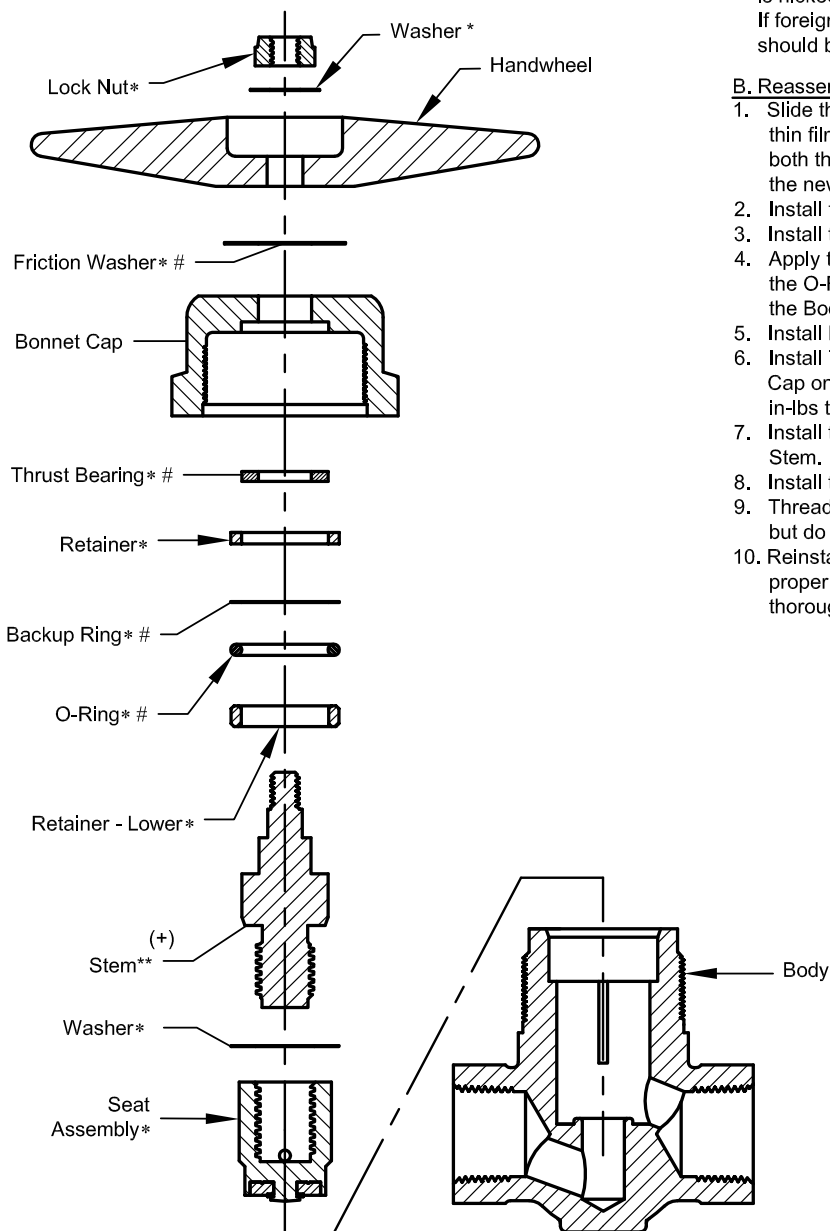
## 9560-80 Series Repair Kit for 9560, 9560P, HP9560 & HP9560P Series Shut-Off Valves

### A. Disassembly

1. Turn Handwheel counterclockwise to full open position.
2. Remove the Lock Nut and discard. Remove Handwheel and save for reassembly.
3. Remove and discard the Friction Washer.
4. Remove the Bonnet Cap by turning counterclockwise - use a 2 $\frac{1}{8}$ " wrench that is capable of developing a minimum of 1200 in-lbs torque. Turn Bonnet Cap over so that the threads are facing upwards. Carefully remove Thrust Bearing and discard. Save Bonnet Cap for reassembly.
5. Slide Stem, Retainer, Backup Ring, O-Ring, Retainer - Lower, Washer, and Seat Assembly from Body. Unthread Stem from Seat Assembly. **NOTE:** If Stem is damaged, kit 9560-4-80 for 9560 Standard or 9560-8-80 for 9560P Panel Mount is needed.
6. Inspect internal area of valve Body for wear. If the seating surface is nicked, scored, or worn - the valve assembly should be replaced. If foreign material or contamination is found inside the valve - it should be cleaned and made suitable for the intended service.

### B. Reassembly

1. Slide the Washer on the Acme thread side of the Stem. Apply thin film of Christo-lube with clean brush to the Acme threads on both the Stem and the new Seat Assembly. Thread the Stem into the new Seat Assembly until the Stem bottoms.
2. Install the Seat Assembly and Stem into the Body.
3. Install the Retainer - Lower over the Stem into the Body.
4. Apply thin film of Christo-lube to the O-Ring with a brush. Install the O-Ring over the Stem and on top of the Retainer - Lower into the Body.
5. Install Backup Ring and Retainer onto Stem.
6. Install Thrust Bearing into Bonnet Cap, then thread the Bonnet Cap onto Body. Tighten the Bonnet Cap with 1000 to 1200 in-lbs torque.
7. Install the Friction Washer over the square portion of the Stem.
8. Install the Handwheel on the square portion of the Stem.
9. Thread Lock Nut onto the Stem. Tighten Lock Nut snug tight but do not over tighten.
10. Reinstall valve and slowly pressurize system. Check valve for proper operation and all seal points for leaks by inspecting thoroughly, using a high quality leak detection solution.



\* These items are in the 9560-80 Repair Kit recommended for most repairs.

\*\* Use Stem 9560-4-80 for 9560 Standard or Stem 9560-8-80 for 9560P Panel Mount.

+ These items are in the 9560-7-80 Retrofit / Repair Kit.

# These items are in the 9560-81 Repair Kit.