

**IMPORTANT:** Before attempting repair on the valve, be sure to completely depressurize the system by removing fluid through a PT port, flush port, or other drain port.

**Tools Required:**

- FPT Brass Valve Repair Kit P/N 3341
- Soft face mallet
- Socket Wrench with 3/8" Drive and Extension
- Small flat head screwdriver
- Clean cloth
- O-Ring Lubricant

**Preparing Valve for Removal:**

1. Seat spool by lightly tapping with a soft face mallet.
2. Remove retaining ring with small flat head screwdriver.

**Valve Removal Instructions:**

3. Remove valve spool by "spiraling" the spool out with a 3/8" socket drive. This is accomplished by slightly side-loading the wrench while simultaneously rotating it 360°.

**O-Ring Removal:**

4. Pinch around the circumference of the O-ring to form a raised section. Grasp the raised portion and remove.
5. CAREFULLY remove the side port O-ring with a small flat head screwdriver or pick. DO NOT gouge the O-ring groove by pushing the screwdriver into the bottom of the groove.
6. Thoroughly clean the spool and inside of the valve body with a clean cloth to remove debris.



Step #1



Step #2



Step #3



Step #4



Step #5



Step #6

## O-Ring Replacement:

7. Replace side port O-ring. Starting at the round opening force the O-ring into the groove with your thumbs working your way around the entire groove. Replace top O-ring. Lubricate O-rings with petroleum jelly.
8. Replace the spool with the side port O-ring oriented opposite to the flush port.
9. Seat spool by lightly tapping with a soft face hammer.
10. Replace retaining ring. BE SURE THAT THE RING IS FULLY SEATED. Check this by using the 3/8" socket wrench to rotate the spool 360° as done in Step #3.



Step #7



Step #8



Step #9



Step #10