

DISASSEMBLY - POPPET CHECK VALVE #1 AND #2

3/4-1 1/2"

Removing four cap screws releases the cover assembly. Spring tension should force the cover out of the recess in the upper portion of the check valve housing. Inspect the cover o-ring for evidence of pinching or other damage. Replace if necessary.

Lift out the spring (green for #1 check valve, orange for #2 check valve). Lift out the poppet assembly

Inspect all parts for wear or scale buildup, and clean or replace as necessary. Inspect the disc for distortion, cleanliness and evidence of excessive imbedding of the seat.

TO DISASSEMBLE THE POPPET ASSEMBLY

With the delrin stem and disc retainer:

Hold the disc retainer in one hand, and with an allen wrench of the proper size, remove the stem from the disc retainer. Replace the disc as necessary.

When changing discs in the RP-2/D-2 poppet check valves, lubricating BOTH sides of the disc that contact the delrin disc retainer and disc guide permits easier assembly (less torque to tighten the disc retainer on disc guide); ensures a smoother interface between the disc and the seat (eliminates wrinkles in disc caused by friction between disc guide and disc), which produces more favorable head loss characteristics

Inspect the seat for nicks and cleanliness. In the event the seat is nicked, very fine wet-or-dry sandpaper may be used to "polish out" the blemish.

CAUTION: Use a very fine grade of sandpaper, that will retain the abrasive properties when wet. Polish the inside diameter of the throat and the beveled area of the seat. Polish in as wide an arc as possible, to ensure a proper and continuous match between the seat and disc.

The seat and the seat o-ring should be replaced if a dent/nick in the seat cannot be removed by "polishing". Reassembly of the poppet check valve is reverse of disassembly. Ensure that the HEAVY (green) spring is placed in the first check valve of the reduced pressure principle device.

Follow instructions, "To place in service" and "Testing", set forth in the appropriate technical manual EACH AND EVERY TIME the backflow preventer is disassembled.