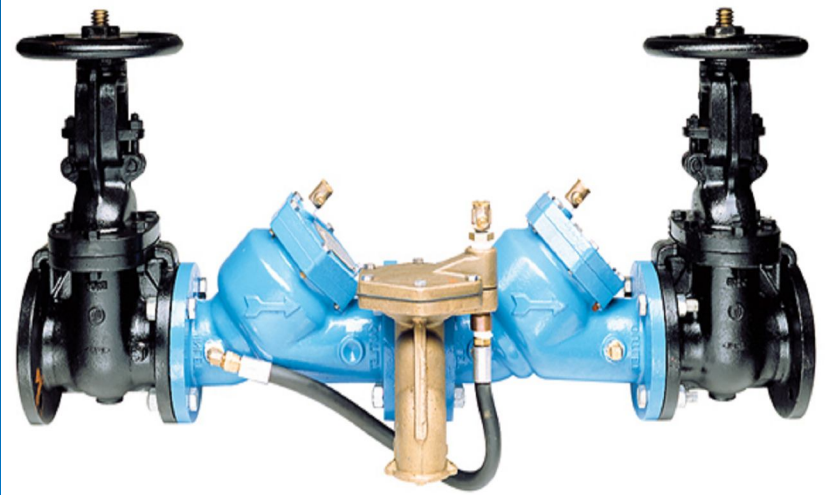
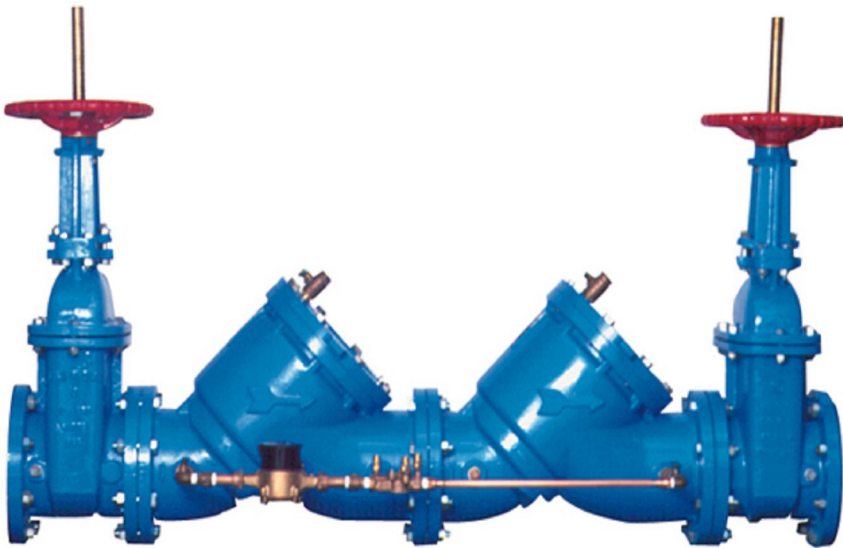


709, 709DCDA
909, 909RPDA
2 1/2"-10"



WATTS[®]

Modification Overview

- The 909M1 (1989) in the 8"-10" sizes only.
- Change was downsizing the relief valve assembly.
- Changed RV housing from bronze to cast iron epoxy coated.

Check Cover Removal

- Cover is o-ring sealed.
- Loosen bolts 1/2". Spring load is now released from the cover and retained by the check subassembly.
- Verify spring load before removing all the bolts.



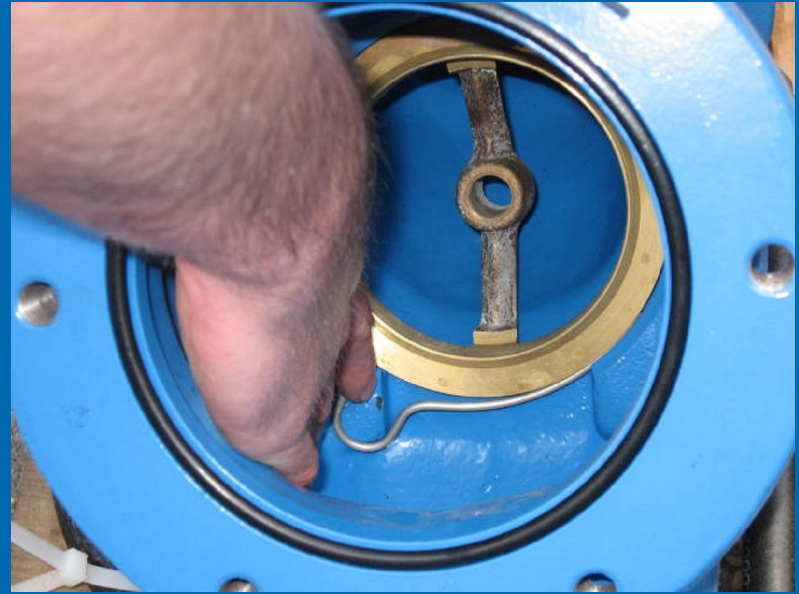
Check Valve Removal

- Center stem guided check assembly.
- Disc & spring subassembly.
- Slide subassembly straight out of seat and body.



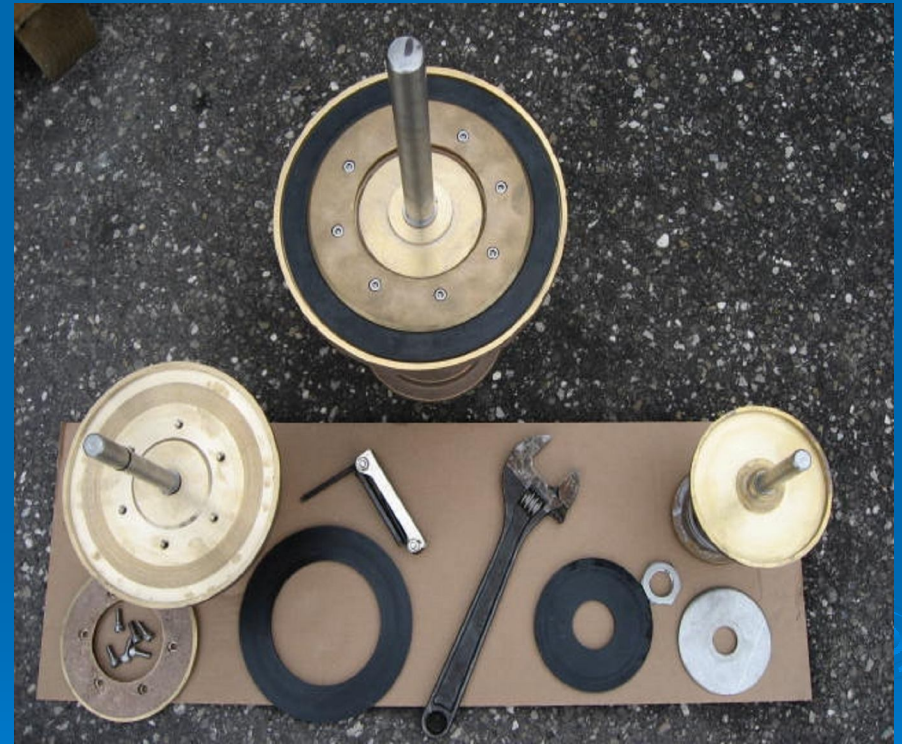
Check Seat Removal

- * 2 1/2-3" Seats removed by 1/4 turn twist.
- 4"-10" Seats secured by two retaining wires. Each wire 10" long.
- Pull one wire clockwise / one wire counter clockwise.
- Seats are o-ring sealed and pull straight out of body.



Check Disc Replacement

- Remove retaining nut for sizes 2 1/2"-4".
- Remove allen head screws in retainer plate for sizes 6"-10".



RV Cover Removal

- RV Cover is sealed by the diaphragm.
- Loosen cover bolts $\frac{1}{2}$ ". Spring load is now released from the cover and retained by the bottom plug assembly.
- Verify spring load before removing all the bolts.



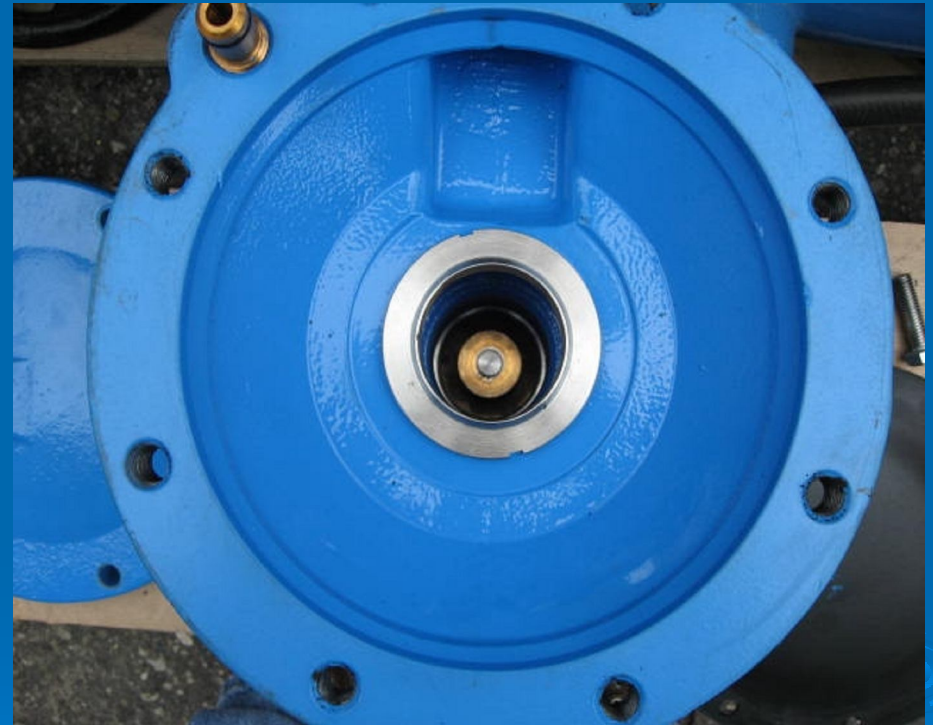
RV Stem Removal

- The piston subassembly can be lifted straight up and out of the body.
 - The bottom plug subassembly (4"-10") contains the spring and does not need to be removed for normal service.
- * For removal: simply unscrew from outside the RV body.



RV Seat Removal

- Unless damaged, there is no need to remove the RV seat.
- RV seat is threaded and o-ring sealed.



RV Rubber Replacement

- Replace diaphragm.
- Replace wiper seal and piston o-ring. Apply lubricant to the o-ring.
- Replace RV disc.
 - * Hold upper guide fin and unscrew pressure plate. Replace disc assembly and stem o-ring.

