

# 909 RPDA 2 1/2" - 10"



American Backflow  
Products Company

**WATTS**<sup>®</sup>

# Modification Overview

Production began in 1979.

The 909M1 RPDA (1989) for the 8"-10" sizes only. Downsized the RV and changed the housing from bronze to epoxy coated cast iron.

Lead free (LF) version was introduced in 2010.

Bypass for the 909 RPDA is the  $\frac{3}{4}$ " 909.

# Check Cover Removal

Cover is o-ring sealed.

Loosen bolts  $\frac{1}{2}$ ". 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.

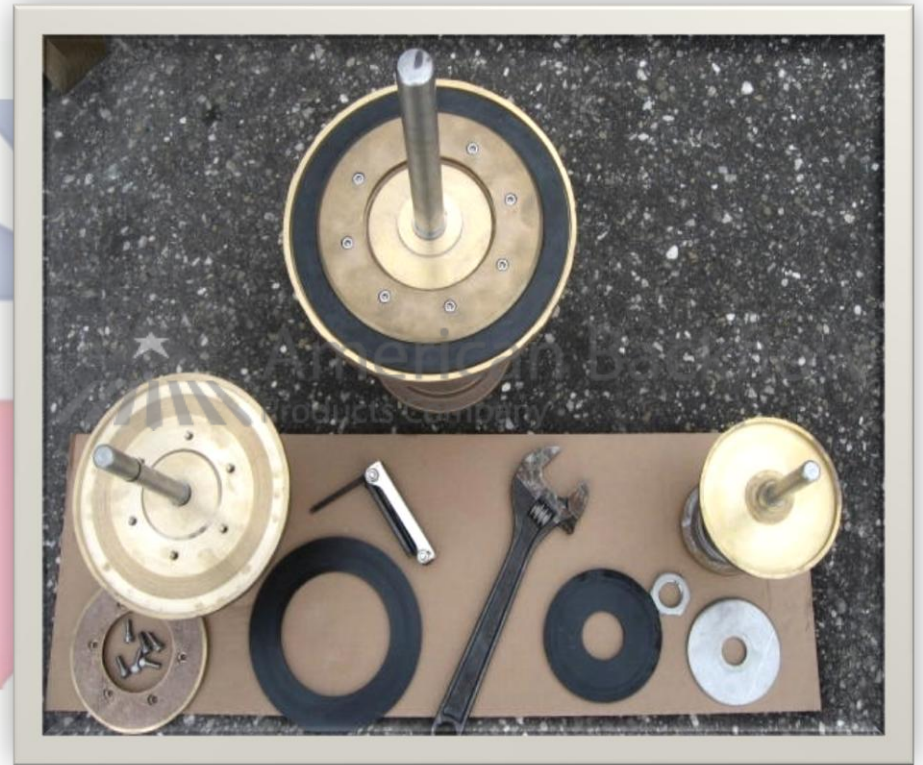


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# Check Disc Replacement

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.

