

5000CIV 2 1/2" - 10"



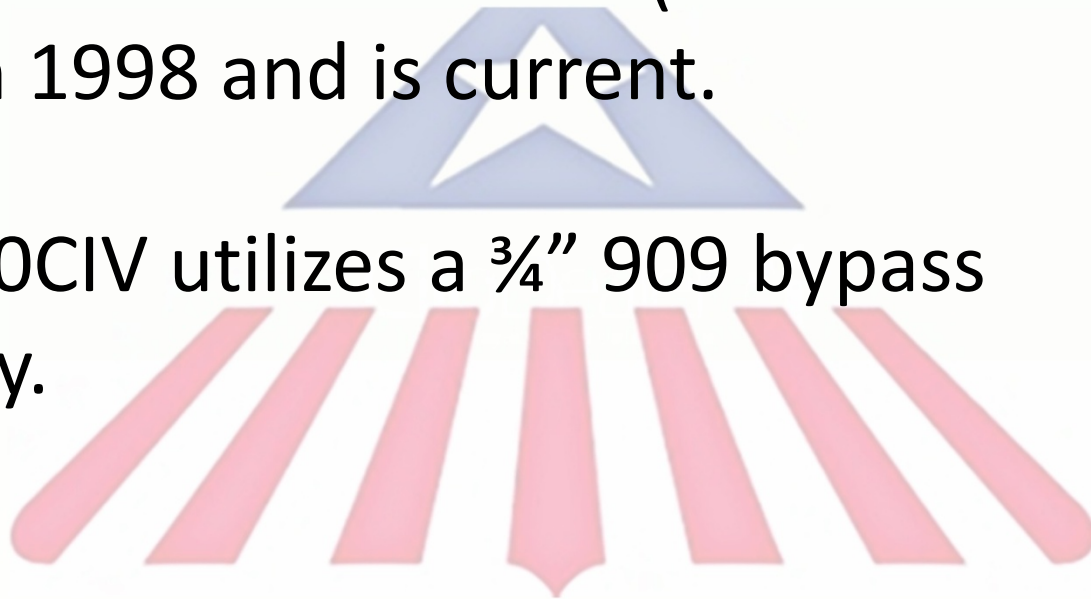
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Modification Overview

Production of the 5000CIV (Watts 909RPDA) began in 1998 and is current.

The 5000CIV utilizes a $\frac{3}{4}$ " 909 bypass assembly.



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.



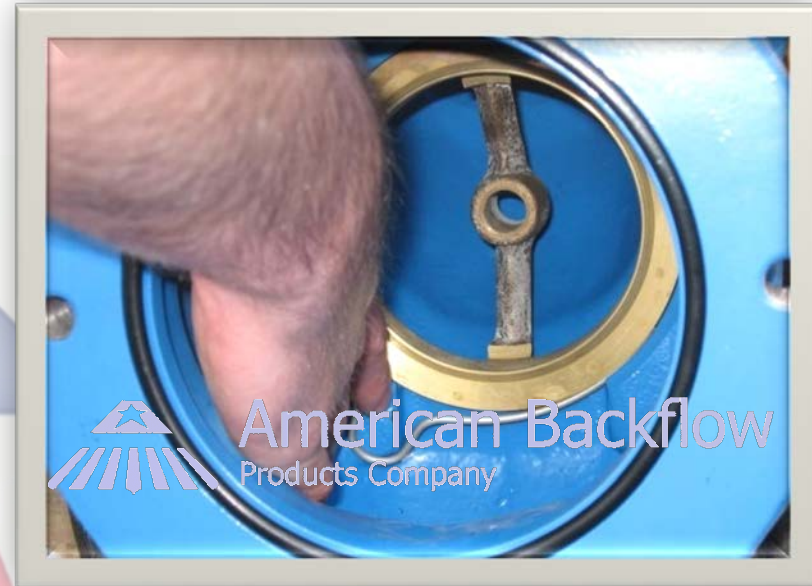
Check Seat Removal

2 ½" - 3" Seats removed by ¼ 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 ½" - 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: 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.



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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.

