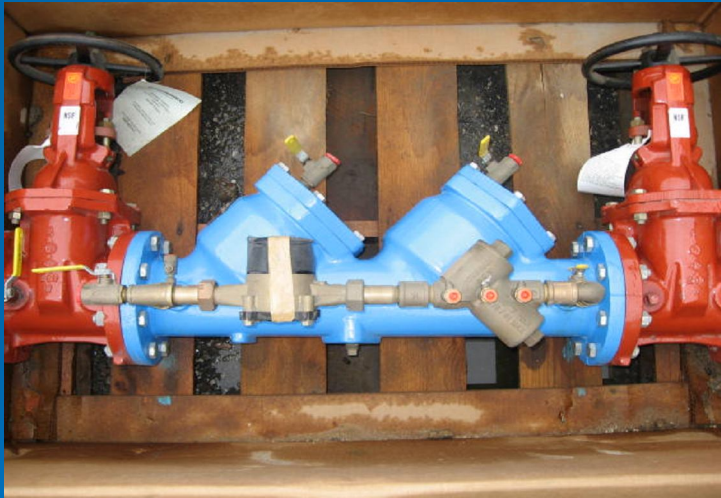


40-100, 40-600
40-200, 40-700
2 1/2"-10"



Modification Overview

- The 21/2"-10" 40-100 series DCA was discontinued in 2003.

Check Cover Removal

- Cover is o-ring sealed.
 - Loosen bolts 3/8". Spring load is now released from the cover and retained by the check assembly.
- ** Verify spring load before removing all the bolts.



Check Valve Removal

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



Check Seat Removal

- 2 1/2"-8" sizes are threaded into the body and o-ring sealed.

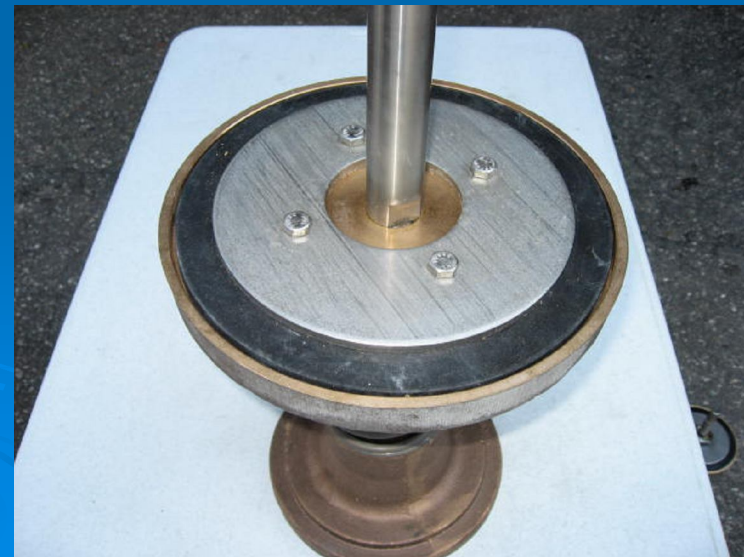
**A special tool is required to remove the seat.

- 10" size is bolted into the body and o-ring sealed.



Check Disc Replacement

- 2 1/2"-6" remove the nut and retaining plate.
- 8"-10" remove the retaining plate bolts and retaining plate.



Check Valve Reassembly Notes

- Reassemble check valves in reverse order.
- Apply lubricant to o-rings.

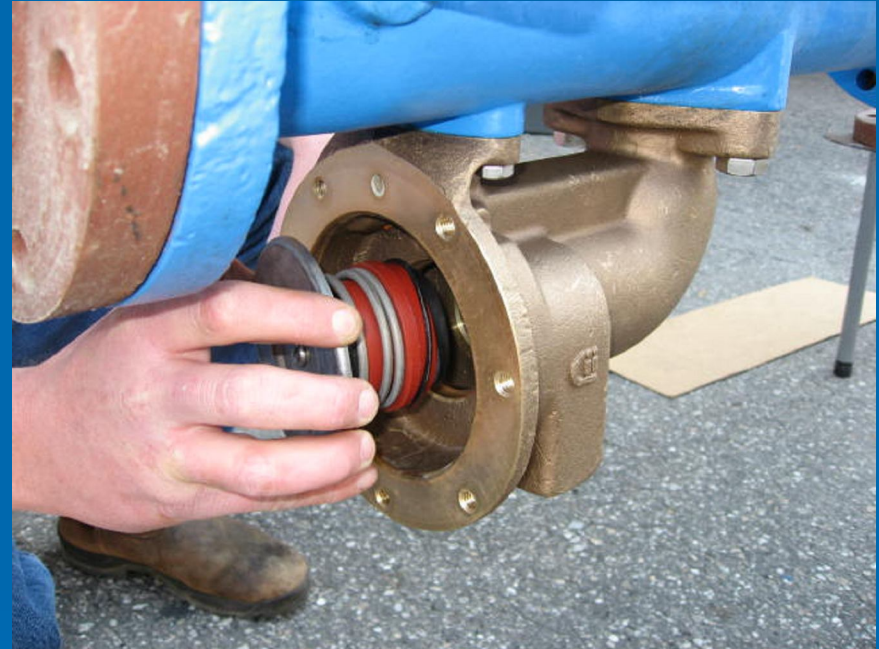
RV Cover Removal

- RV cover is sealed by the diaphragm.
- No spring load on cover.
- Remove outer diaphragm.
- 8"-10" the diaphragm is an integral part of the RV module.



RV Module Removal

- Module is o-ring sealed.
- Grasp the diaphragm plate and pull the module straight out of the body.



RV Seat Removal

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



RV Disc Replacement

- Holding the module firmly, remove the screw and retaining washer.
- Remove the seat disc.



Disassemble RV Module

- Module is spring loaded.
- Holding the diaphragm plate firmly, remove the screw or bolt.



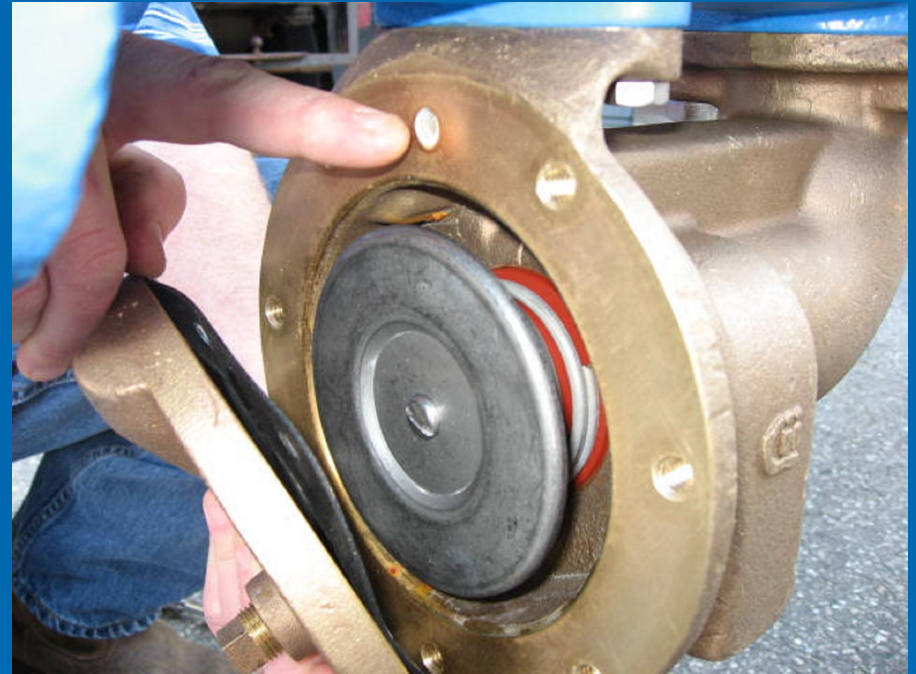
Disassemble RV Module

- Remove the bushing from the stem.
- Remove the stem o-ring.



RV Reassembly Notes

- Replace and lubricate o-rings.
- Reassemble in reverse order.
- Push RV module straight into body.
- Make sure diaphragm does not cover hole for sensing line.



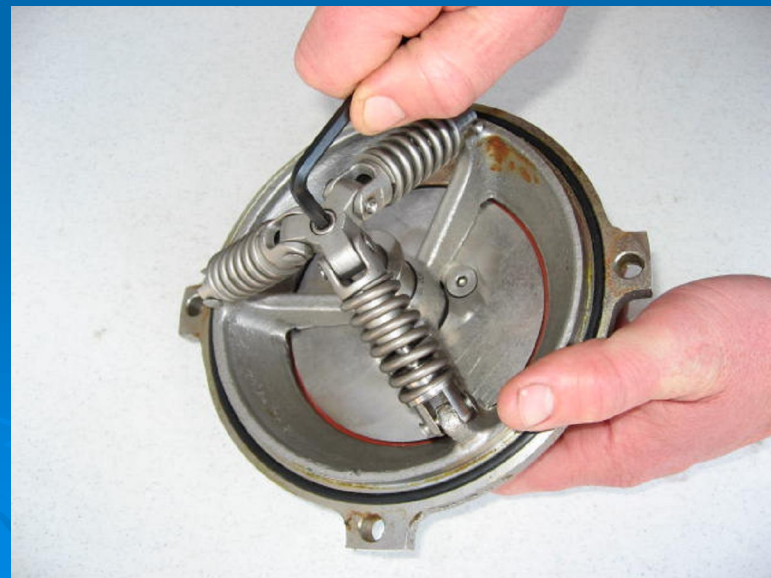
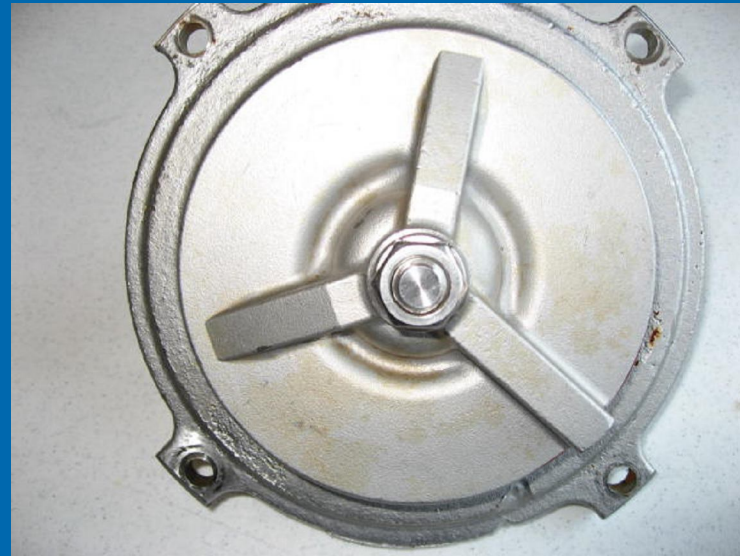
Check Valve Removal

- Check valve modules.
- Checks are bolted into the body and o-ring sealed.
- Either check can be removed without disturbing the other.



Disassemble Check Module

- **Do not remove the large nut and lock washer on the retaining plate.
- Remove the socket head cap screw that holds the spring hub assembly.
- This will release the spring load.



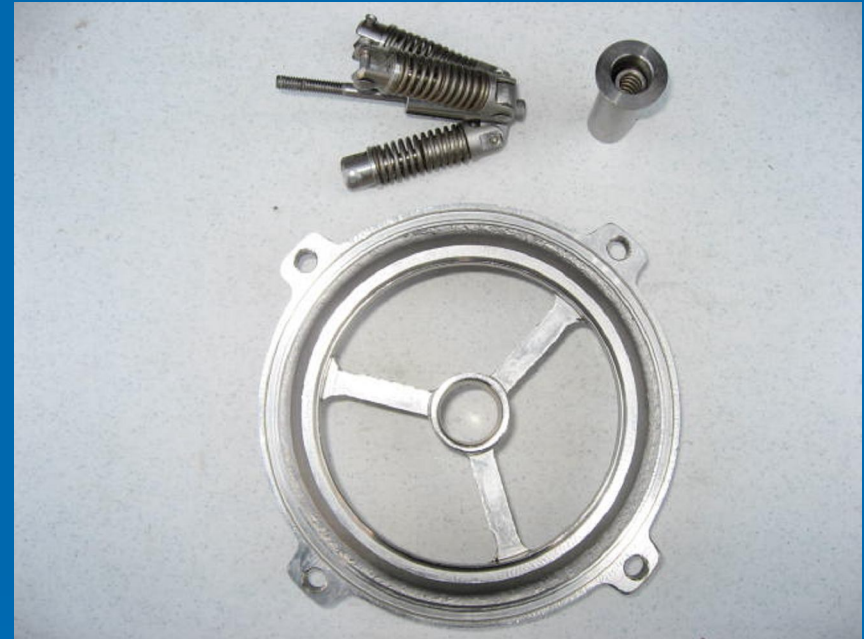
Disassemble Check Module

- The disc holder will slide away from the front of the module.
- The spring hub assembly is now free.



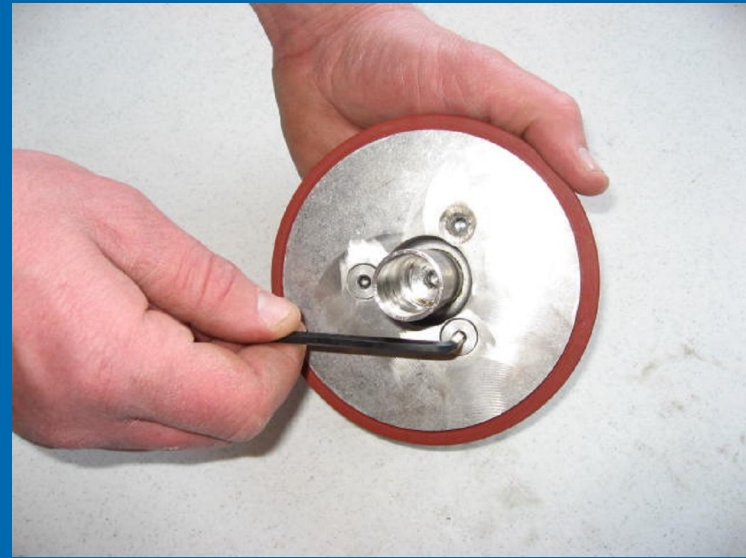
Check Seat Removal

- The check seat is a machined part of the seat assembly.
- To replace the seat, you must replace the seat assembly.



Check Disc Replacement

- Remove the three allen screws from the disc retainer.
- The check disc is now free.



Check Valve Reassembly Notes

- Reassemble check module in reverse order.
- Make certain the module o-ring is in place and lubricated.
- Tighten hex nuts firmly and evenly.



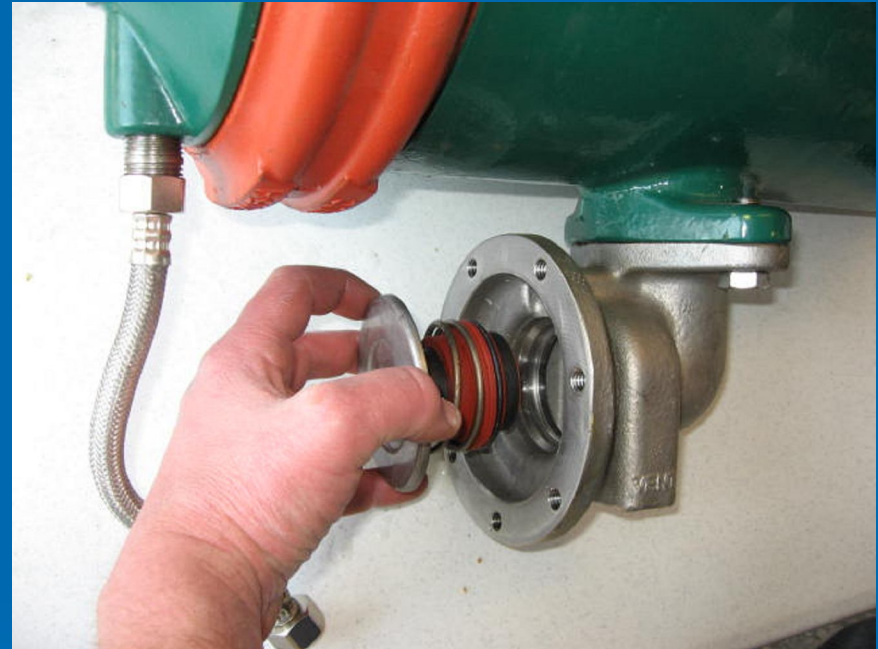
RV Cover Removal

- Disconnect sensing hose.
- RV cover is sealed by the diaphragm.
- No spring load on cover.
- Remove outer diaphragm.



RV Module Removal

- Module is o-ring sealed.
- Grasp the diaphragm plate and pull the module straight out of housing.



RV Seat Removal

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



RV Disc Replacement

- Holding the module firmly, remove the screw and retaining washer.
- Remove the seat disc.



Disassemble RV Module

- Module is spring loaded.
- Holding the diaphragm plate firmly, remove the screw.



Disassemble RV Module

- Remove the bushing from the stem.
- Remove the stem o-ring.



RV Reassembly Notes

- Replace and lubricate o-rings.
- Reassemble in reverse order.
- Push RV module straight into housing.