

# DCV, DCVE RPZ, RPZE, RPZ-II, RPZE-II 1/2"-2"



**FLOMATIC** VALVES

*Danfoss*

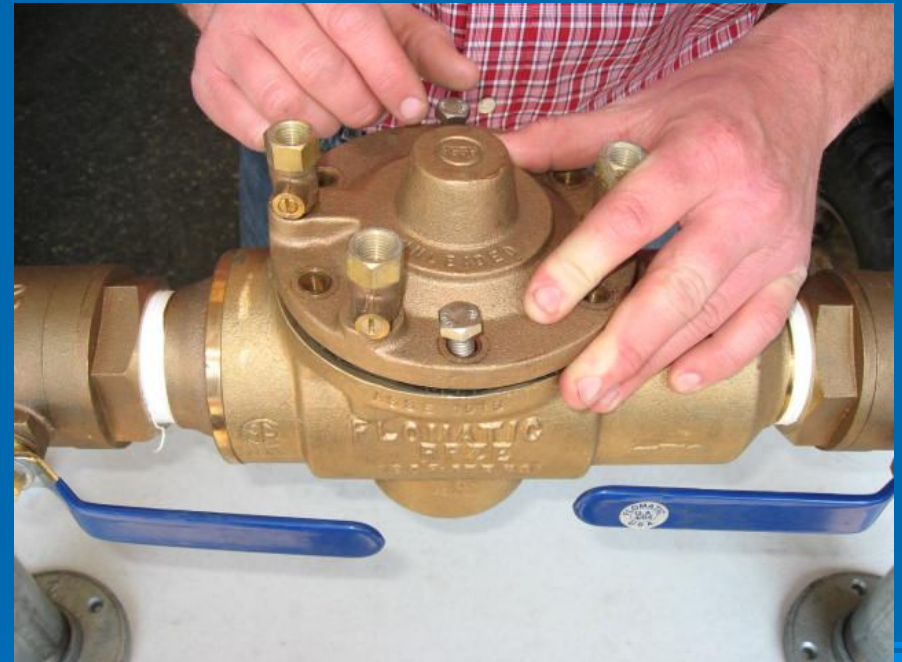
# *Modification Overview*

- The model DCV and RPZ are the original version.
- The DCVE / RPZE series was introduced in 2002. The body is made of an unleaded bronze alloy.
- The RPZII / RPZEII are offered in sizes 1/2", 3/4" and 1 1/2" only. The body is smaller in size than the original version.
- Internal parts and repairs are similar for all versions.



# Single Access Cover Removal

- The RPZ cover is spring loaded and sealed by the diaphragm.  
\*\* Hold cover firmly while removing bolts.
- The DCV cover has no spring load and is o-ring sealed.



# Single Access Cover Removal

- Lift cover straight off.
- Remove RV stem assembly and spring from body.



# Check Valve Removal

- Check valve modules.
  - Modules are o-ring sealed and secured by spring clips.
  - Pinch together the exposed ends of the clip and pull away from module.
- \*\* Use adjustable pliers if necessary.



# Check Valve Removal

- Once the spring clips are removed, the modules can be pulled straight out of the body.
- Check valves can be removed in any order.



# Disassemble Check Valve

- Check modules are spring loaded.
- Holding the module firmly, unscrew the stem from the disc holder.
- Place a wrench on the spring retainer and a wrench on the disc holder.



# Check Disc Replacement

- Once the module is disassembled, the disc holder, retainer and disc are free.
- Reassemble in reverse order.





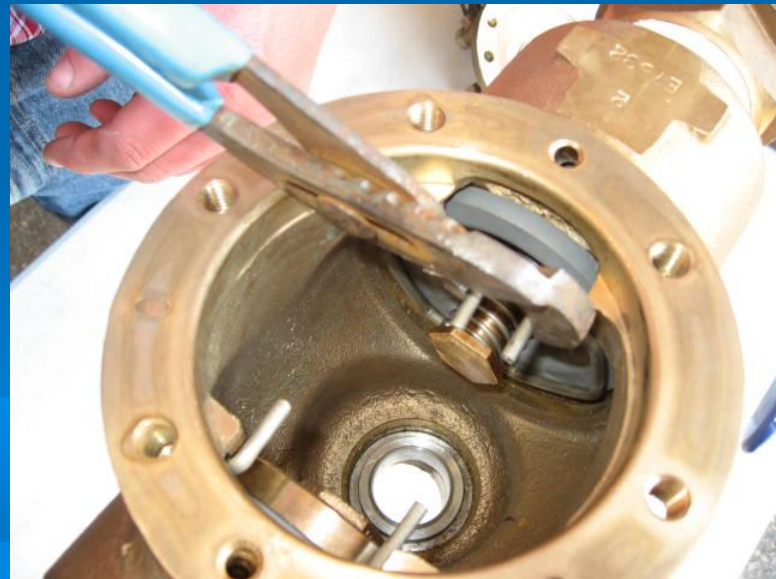
# Check Seat Removal

- The check seat is part of the module.
- If the seat is damaged, the entire module must be replaced.



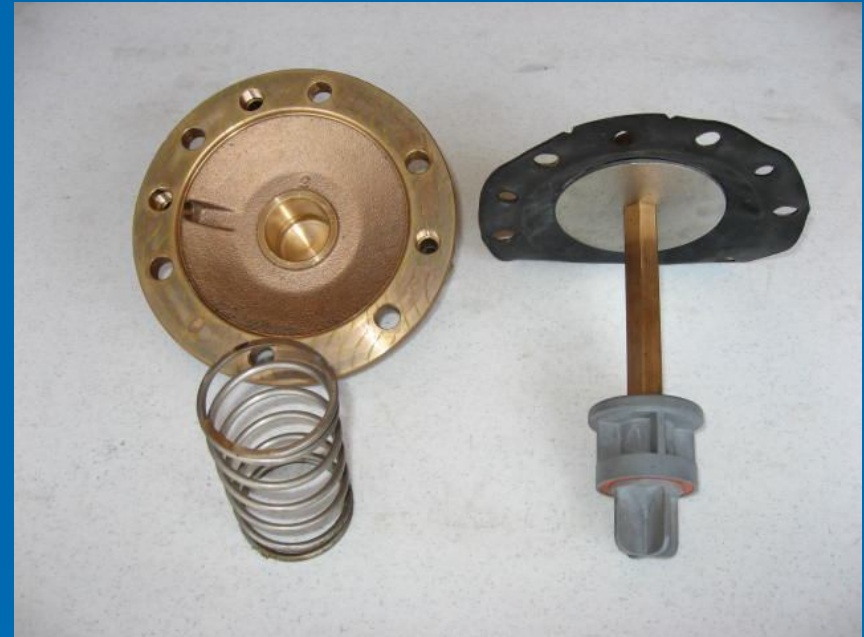
# *Check Valve Reassembly Notes*

- Lubricate o-rings.
- Push checks into body.
- Replace spring clips in reverse order.



# RV Stem Removal

- The RV stem and spring are situated between the check valves and are free once the single access cover is removed.



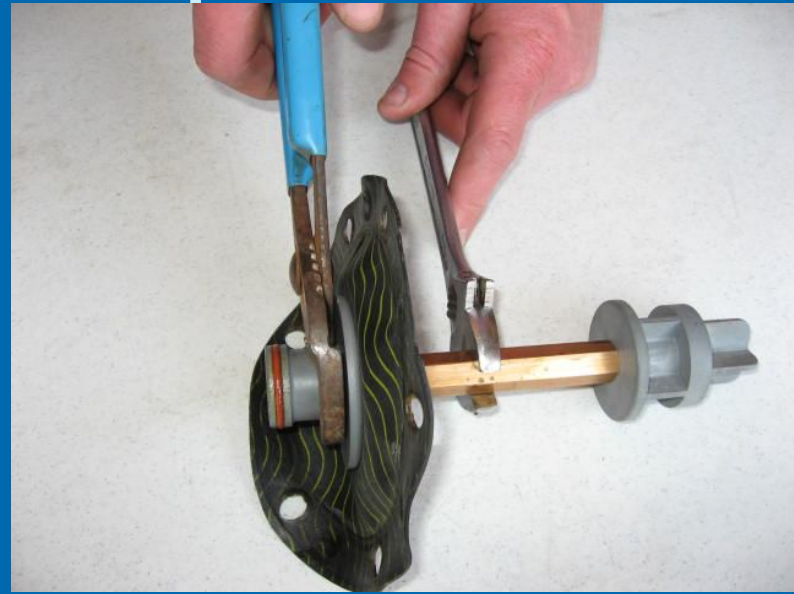
# RV Seat Removal

- Unless damaged there is no need to remove the seat.
- The seat is pushed firmly into the body and is o-ring sealed.



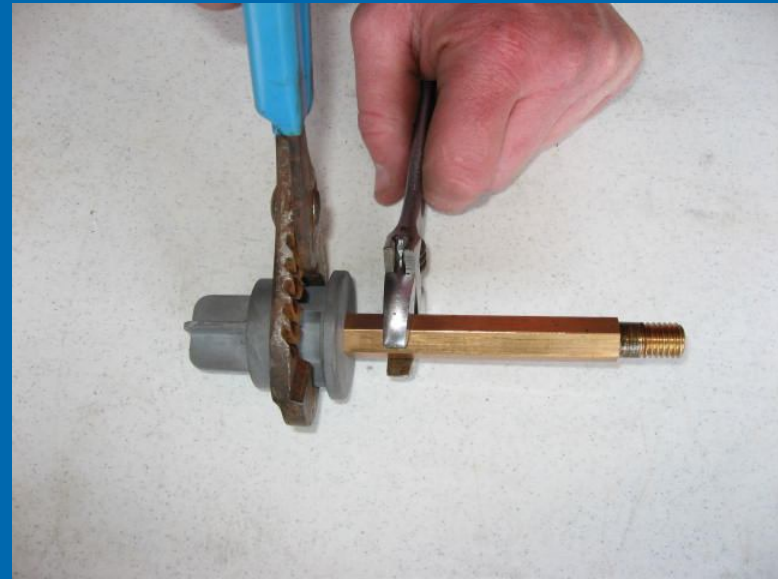
# RV Diaphragm Replacement

- The diaphragm is located on the upper stem.
- Unscrew the RV piston from the stem.
- Reassemble in reverse order.



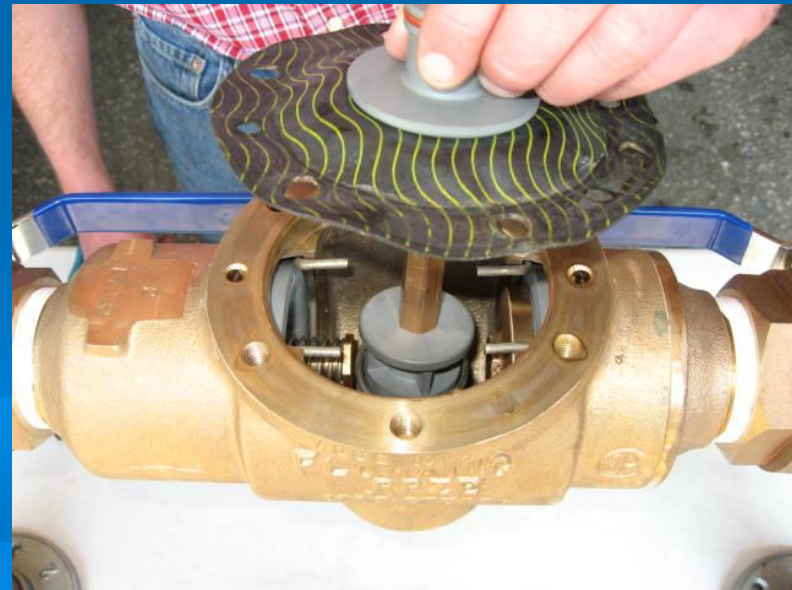
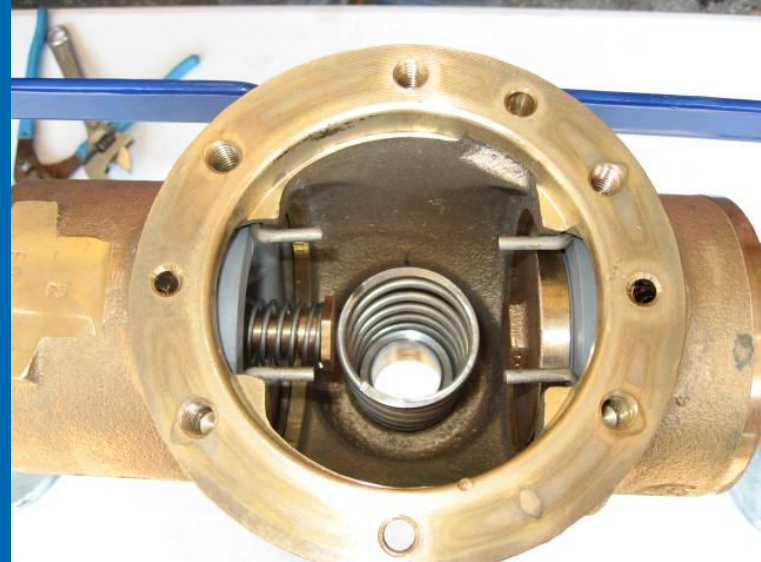
# RV Disc Replacement

- The RV disc is located on the lower stem.
- Unscrew the disc retainer from the RV stem.
- Reassemble in reverse order.



# *RV Reassembly Notes*

- Center the spring over the RV seat.
- Position the RV stem into the body.
- Lubricate plunger o-ring.



# Single Access Reassembly Notes

- Make sure the diaphragm does not block the test cock ports in the body.  
\*\* Place lid bolts in cover to help align the diaphragm correctly.

