

825, 825Y, 825YD 2 1/2"-10"



FEBCO®

Modification Overview

- 825- (1975-1988) Cast iron body- Threaded in seats- Internal check parts are epoxy coated iron. Old style RV.
- 825D- (1988-1989) Ductile iron body- Bolted in seats- Internal check parts are stainless steel. Old style RV.
- 825YD- (1989-present) Ductile iron body- bolted in seats- Internal check parts are stainless steel. New style RV.

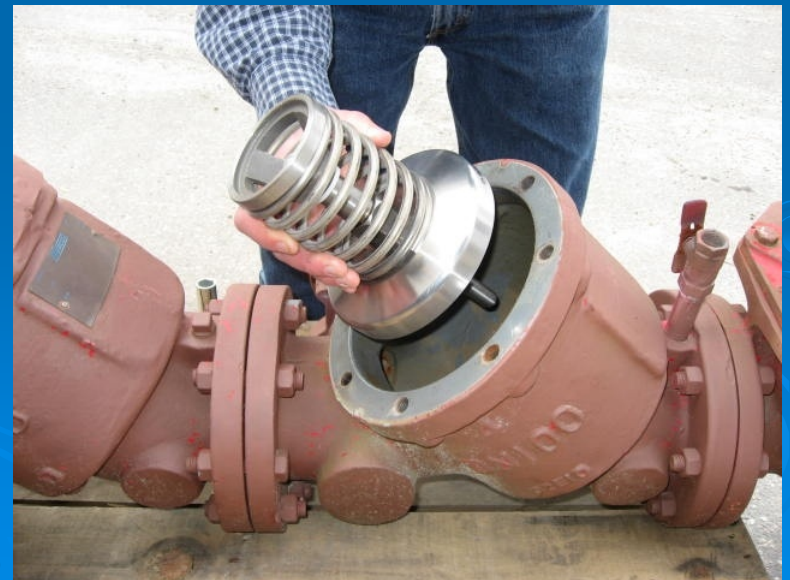
Check Cover Removal

- Cover is o-ring sealed.
- 2 1/2-3" cover is spring loaded.
 - * Hold cover firmly while removing bolts.
- 4-10" Loosen bolts 1/2". Spring load is now released from the cover and retained by the check assembly.
 - * Verify spring load before removing all the bolts.



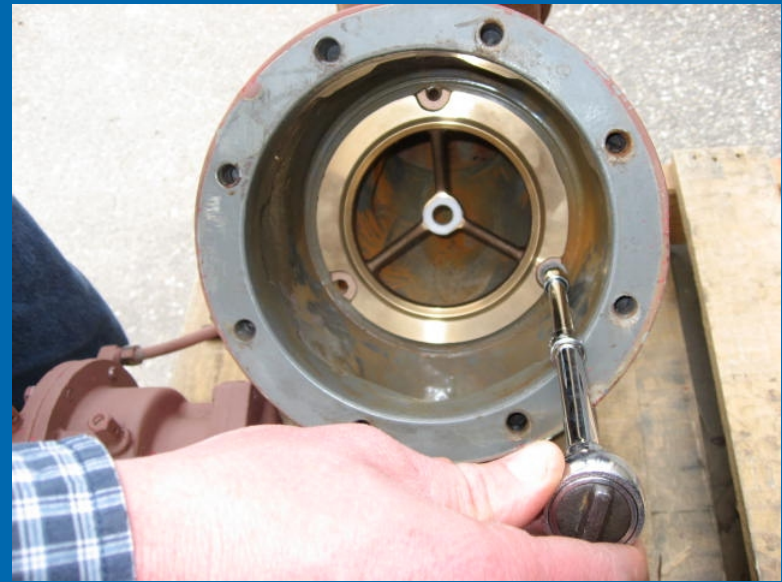
Check Valve Removal

- Center stem guided check assembly.
- 2 1/2-3" spring, stem, and disc holder are free once cover is removed.
- 4-10" disc & spring subassembly.
- Slide subassembly straight out of seat and body.



Check Seat Removal

- 825Y and YD series seats are o-ring sealed and bolted into the body.
- Remove bolts and pull seat straight out of body.
- Inspect the plastic guide bushing in center of seat.
- ** (825) series seats are threaded into the body.



Check Disc Replacement

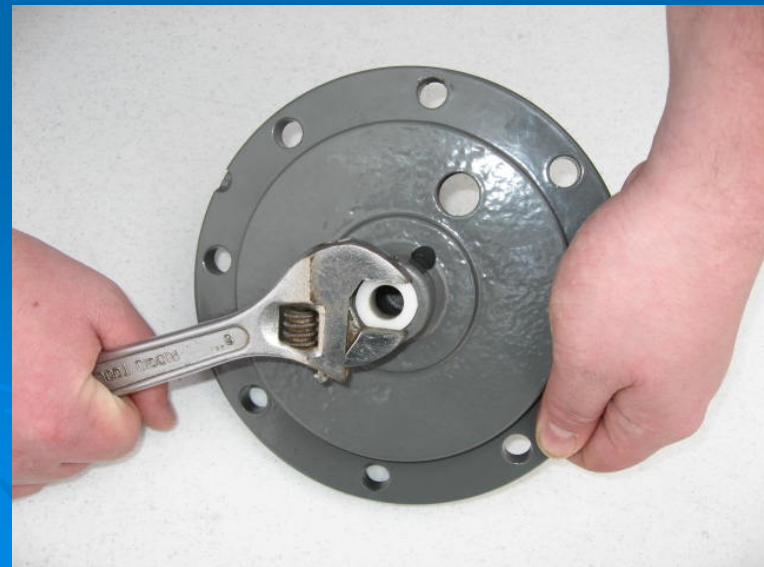
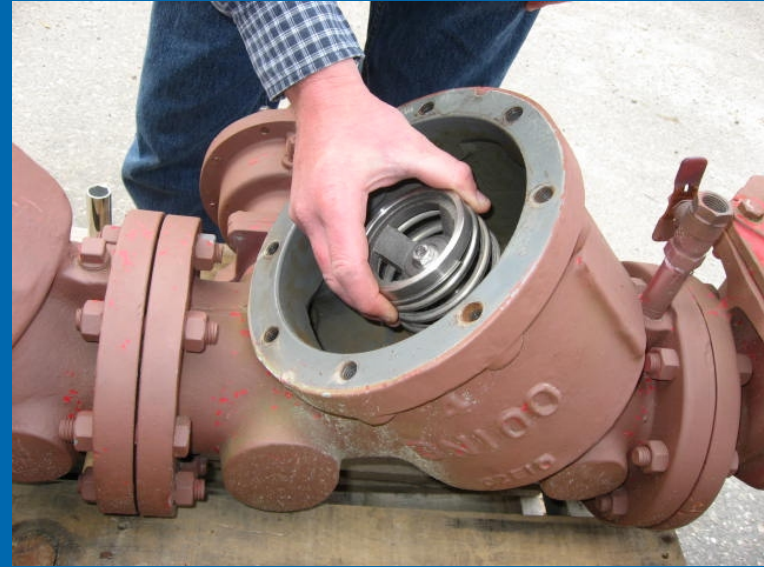
➤ Unthread the nut from the stem and remove disc retainer.

** For model (825) spring tension may have to be released to replace disc. Consult service center.



Check Valve Reassembly Notes

- Reassemble in reverse order.
- Apply lubricant to o-rings.
- 2 1/2-3" Models- inspect and clean the plastic guide in the check cover.



RV Cover Removal

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



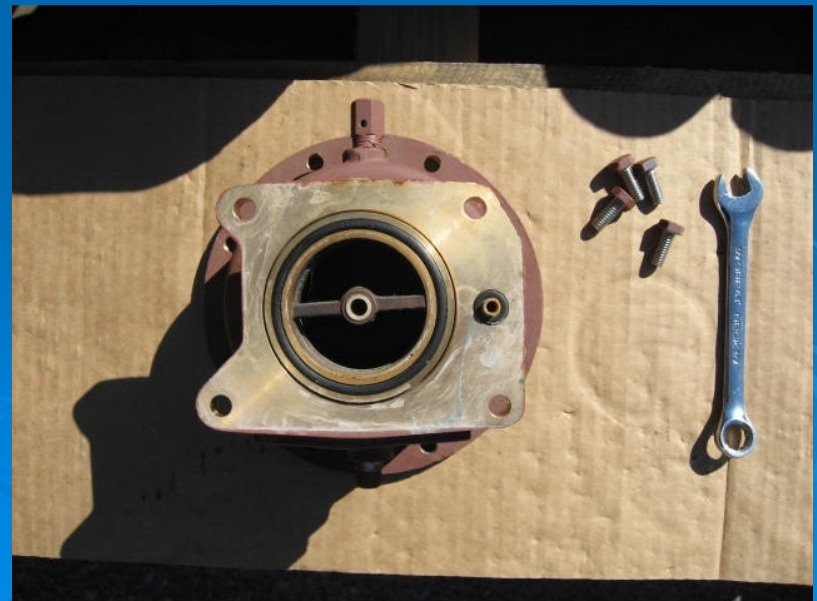
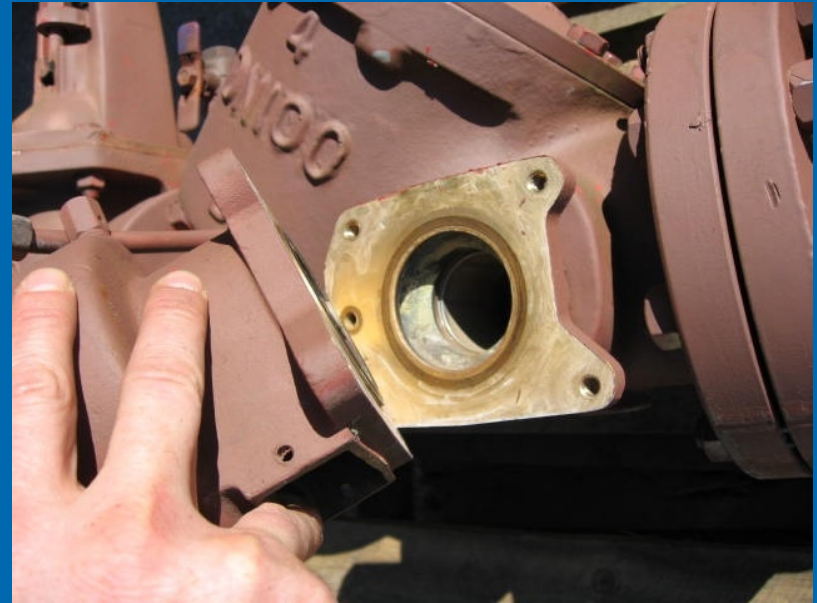
RV Module Removal

- Module is o-ring sealed.
- Pull module straight out of body.
 - * Grasp the module (button) with one hand and insert fingers (other hand) into RV port and apply force to the seat disc.
 - * Do not twist module.



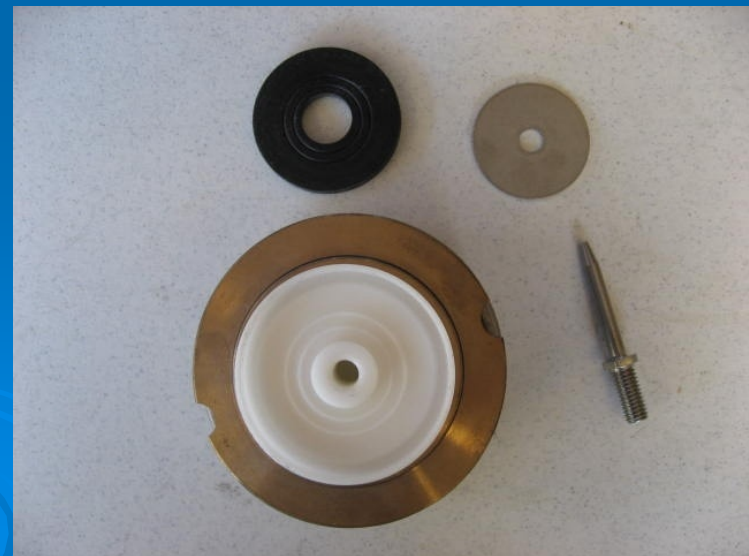
RV Seat Removal

- RV seat is mounted between the RV housing and the RV adapter.
- Remove the 4 bolts on the adapter and remove housing.
- Seat is o-ring sealed.
- Pull the seat straight out.



Disassemble RV Module

- Place the module on a flat surface with lower guide facing up.
- Hold the main stem with one hand and unscrew the lower guide.



Disassemble RV Module

- With lower guide removed, place the module upside down on a clean surface.
 - Remove center of protective sticker (Save).
 - Hold the button firmly and loosen screw.
- * Button is spring loaded.



Disassemble RV Module

- Remove main stem and unthread the retainer.
- Remove slip ring and inner diaphragm.



Inner Diaphragm Replacement

- Position the bead of the inner diaphragm into the groove of the upper guide.
- Place slip ring over the diaphragm.
- Thread retainer ring onto upper guide – (hand tight).



Main Stem Replacement

- Push the inner diaphragm back through the upper guide assembly.
- Insert main stem inside diaphragm.
- The screw hole on diaphragm and main stem should be lined up.



Spring / Button Replacement

- Place the spring over the upper guide assembly.
- Place button on spring and hold down firmly.
- Replace button screw.
- Reposition center label piece.



RV Disc Replacement

- Replace the RV disc in main stem.
- Replace the disc washer and lower stem guide.
- Replace and lubricate o-ring on main guide



RV Reassembly Notes

- Reassemble RV in reverse order.
- Push the RV module straight into body.
 - * Do not twist.
- Replace outer diaphragm with fabric side against button.
- Work the rolled edge into the space between the module and body.

