

880V
2 1/2"-10"



FEBCO®

Modification Overview

- Production of the 2½” – 10 sizes began in 1993 and is current.
- Lead free version (LF880) was introduced in 2011. *Parts do not interchange with original versions.*

Check Cover Removal

- Cover is bolted and o-ring sealed.
- There is a slight spring load on cover.



Disassemble Spring Module

- The spring module is held in position by the cover.
- Spring module is captured.
- Remove the retaining clip and hinge pin from the arm assembly.



Check Disc Replacement

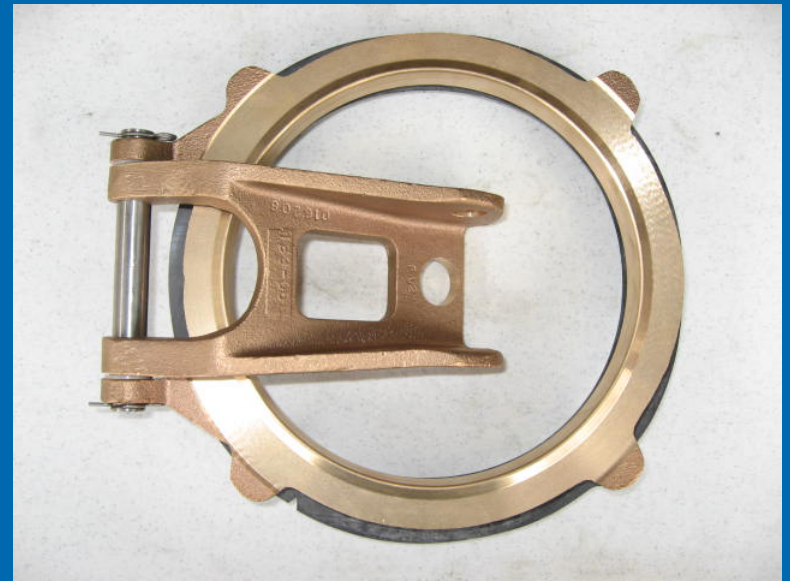
- The check disc is a vulcanized clapper plate.
- Remove jam nut and washer from the back of the disc plate.

** When jam nut is tight, check disc is designed to “wobble”.



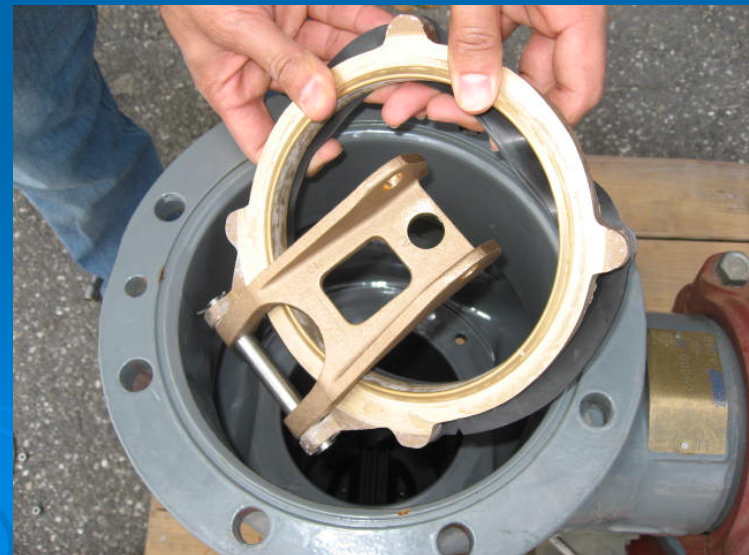
Check Seat Removal

- The seat and arm must be removed as one piece.
- The seat and arm assembly is bolted “**through**” the body and sealed by a gasket.



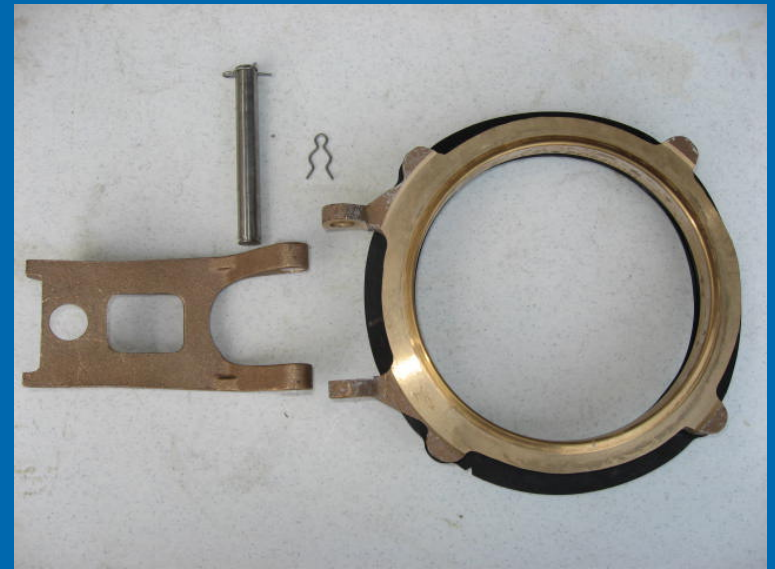
Check Seat Removal

- Locate and remove the four lock nuts on the “**outside**” of the body.
- Pull the seat and arm assembly straight out of the body.



Disassemble Seat Assembly

- Remove retaining clip and hinge pin from arm assembly.
- Inspect bushings and hinge pins for wear.



Check Valve Reassembly Notes

- Reassemble in reverse order.
- The seat assembly, disc plate, and spring module can be assembled together and placed into the body as one component.
- The seat ring will only fit into body one way, check the alignment of gasket and studs.



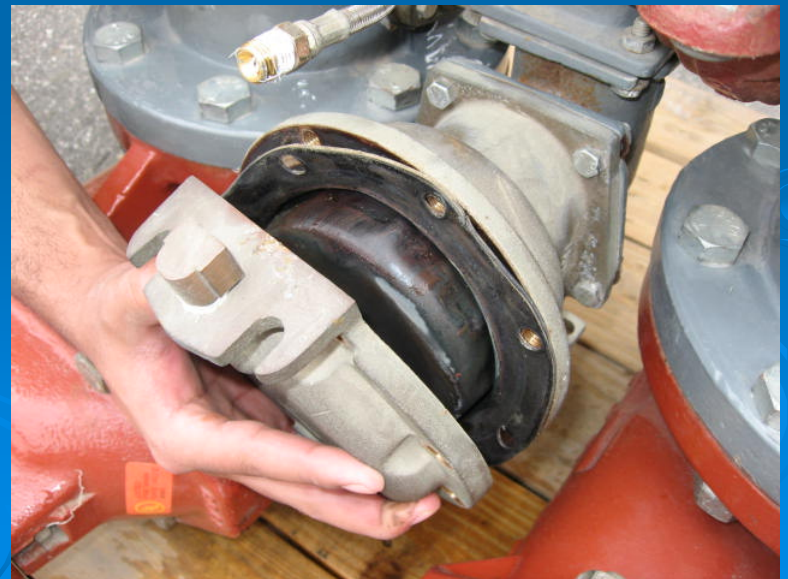
Check Valve Reassembly Notes

- The spring module is positioned by the cover.
- Make sure the pivot bearing is resting in the pivot socket on the cover.



RV Cover Removal

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



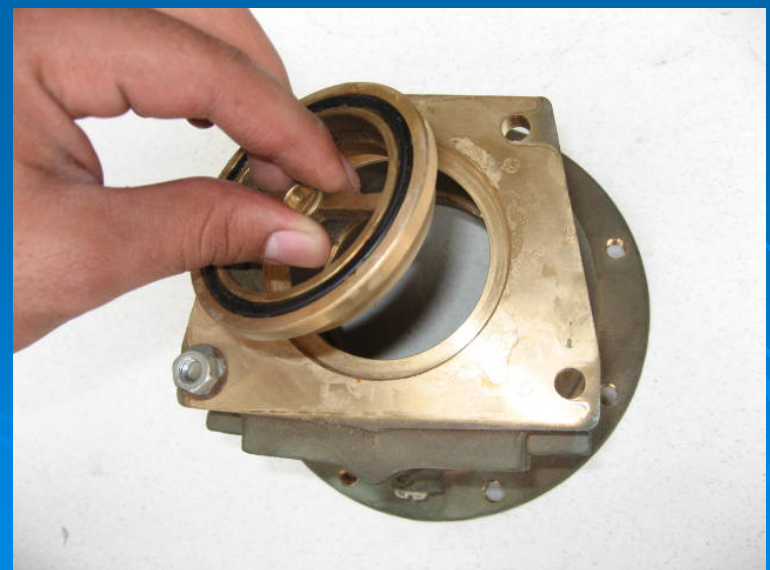
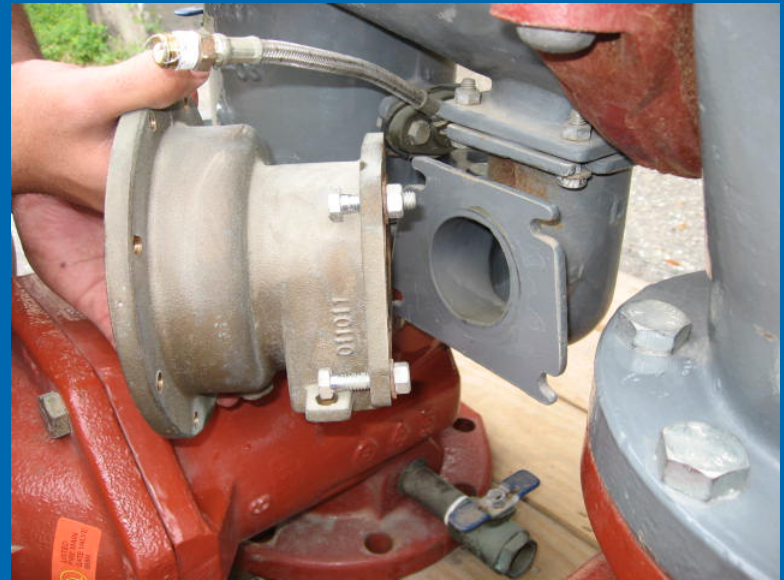
RV Module Removal

- 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

- Position flow washer on diaphragm with the cross channels facing up.
- Place the spring over the upper guide.
- Place button on spring and hold down firmly.
- Replace flow screw.
- Reposition center label piece.



RV Disc Replacement

- Replace the RV disc in main stem.
- Replace the 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.

