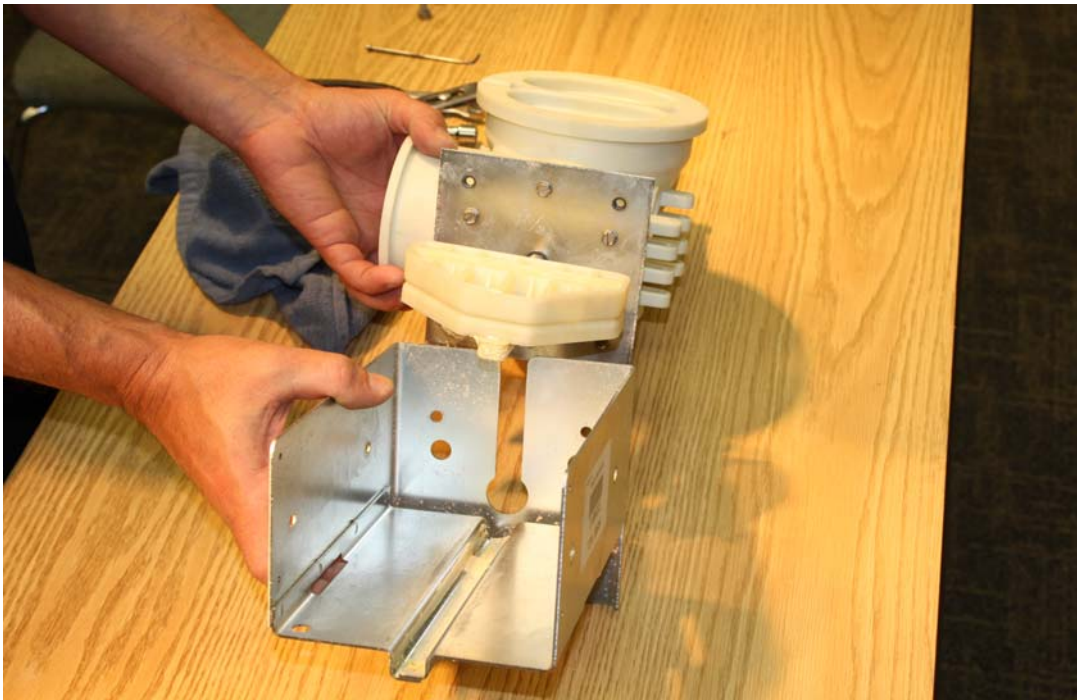


Disassembly and re-assembly of the EcoWater 2 inch piston valve

**When rebuilding valve inspect the lantern rings for
damage or distortion, replace if necessary**

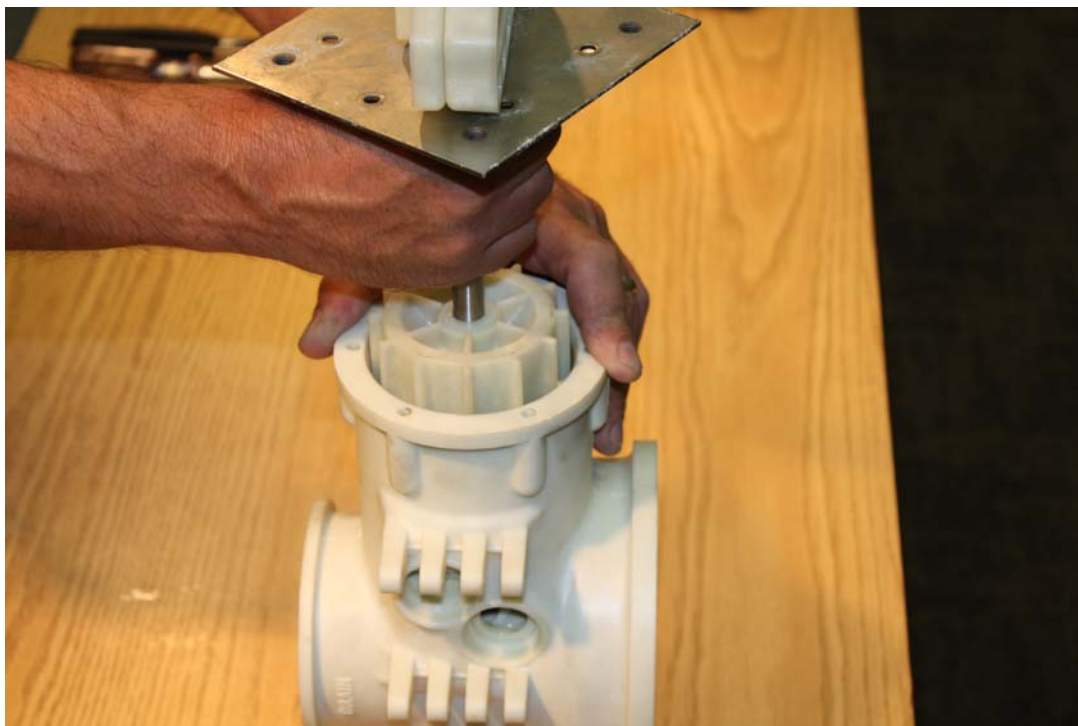
**When rebuilding the valve use new 0-rings and quad
rings. Lubricate using silicon based such as a Dow 111.**



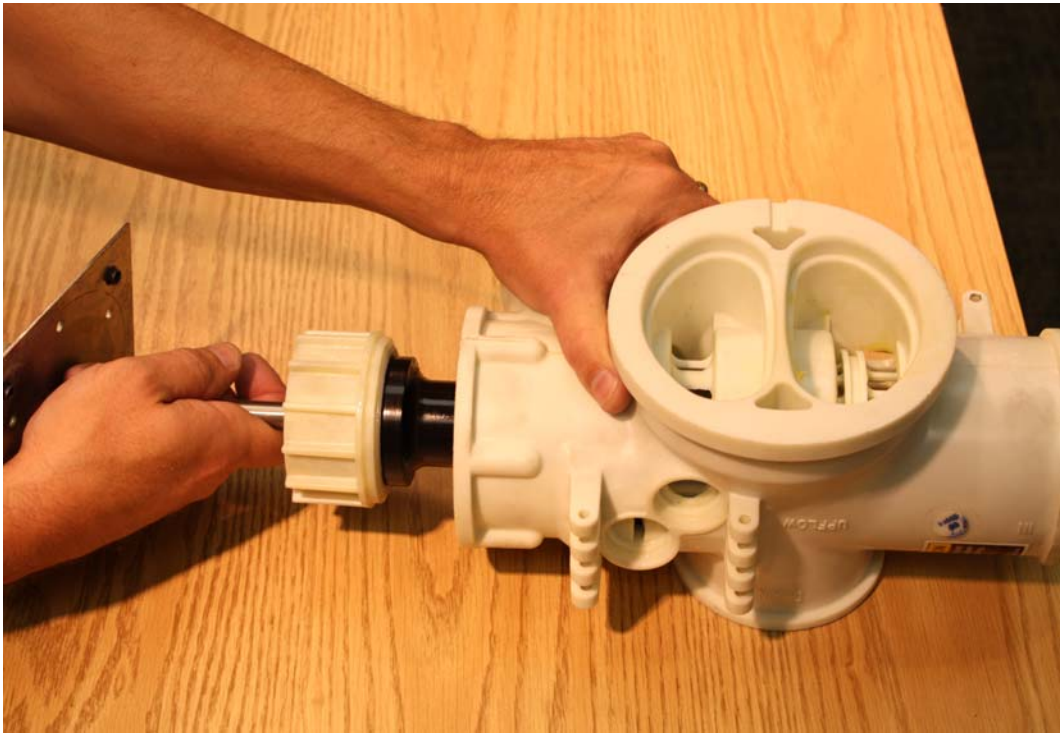
Remove outer bracket



Remove mounting bracket bolts



Remove piston assembly





When removing piston, several o-rings, quad rings and lantern rings will come out.



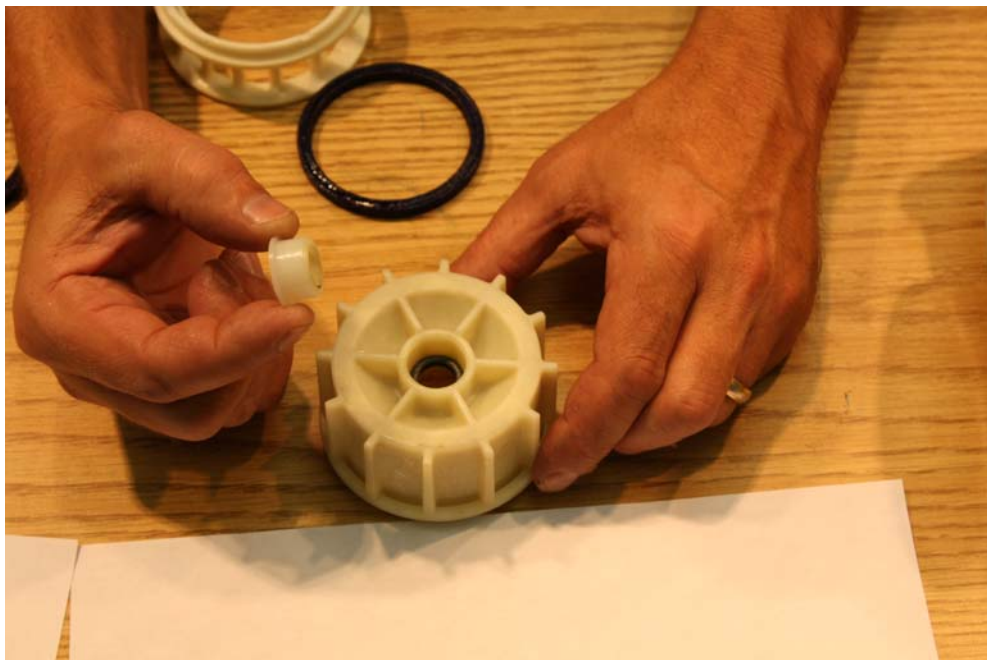
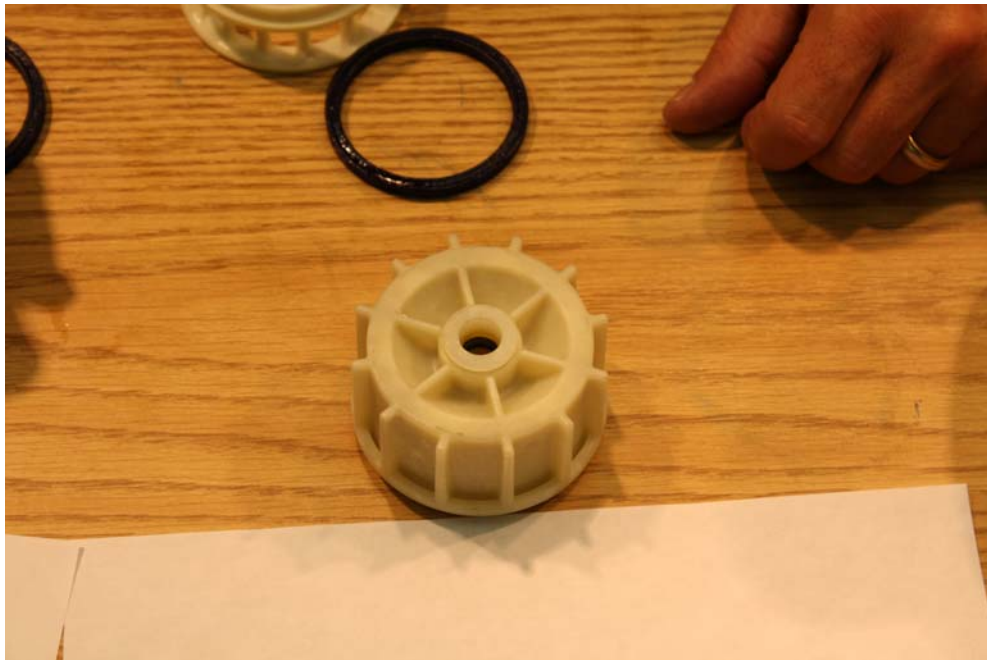
Remove piston from shaft



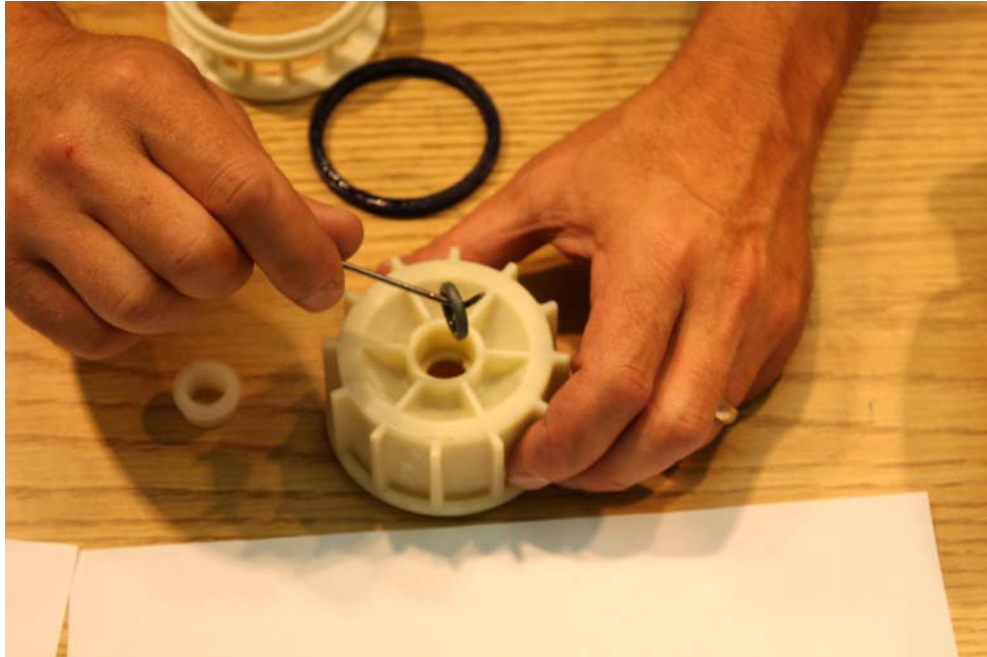
Remove end plug from shaft



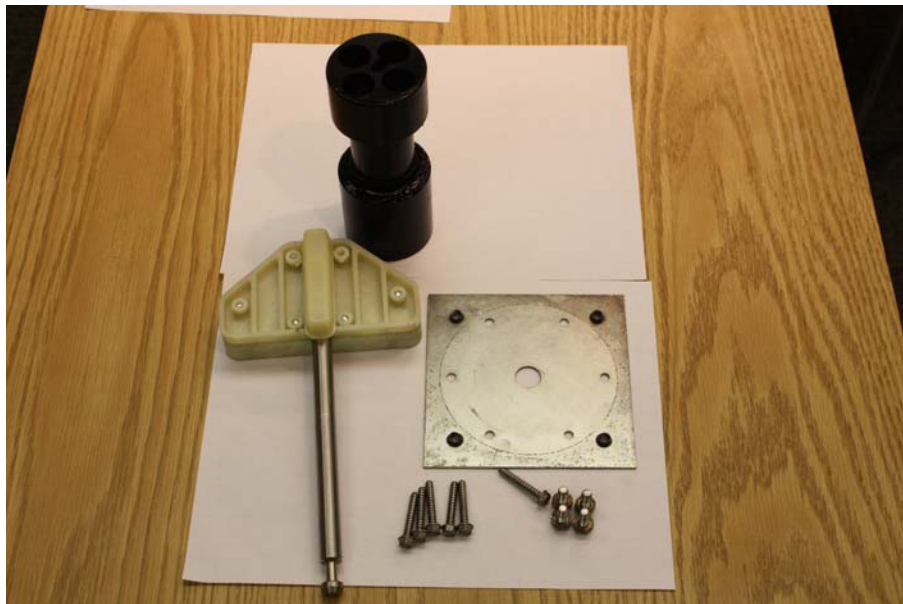
Remove mounting bracket plate



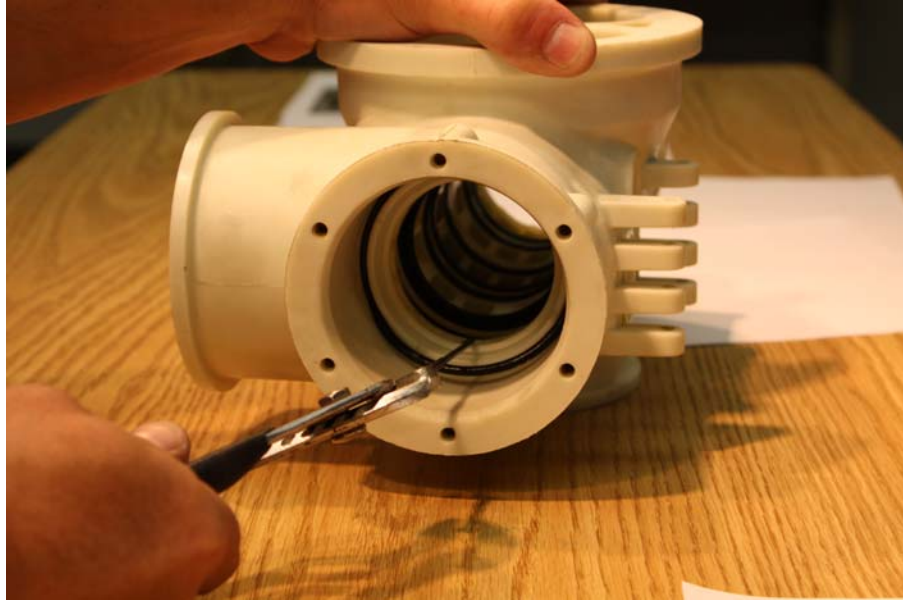
Note location of flange bushing and o-ring in end plug



Inspect o-ring for damage. When removing, be careful to not scratch surfaces



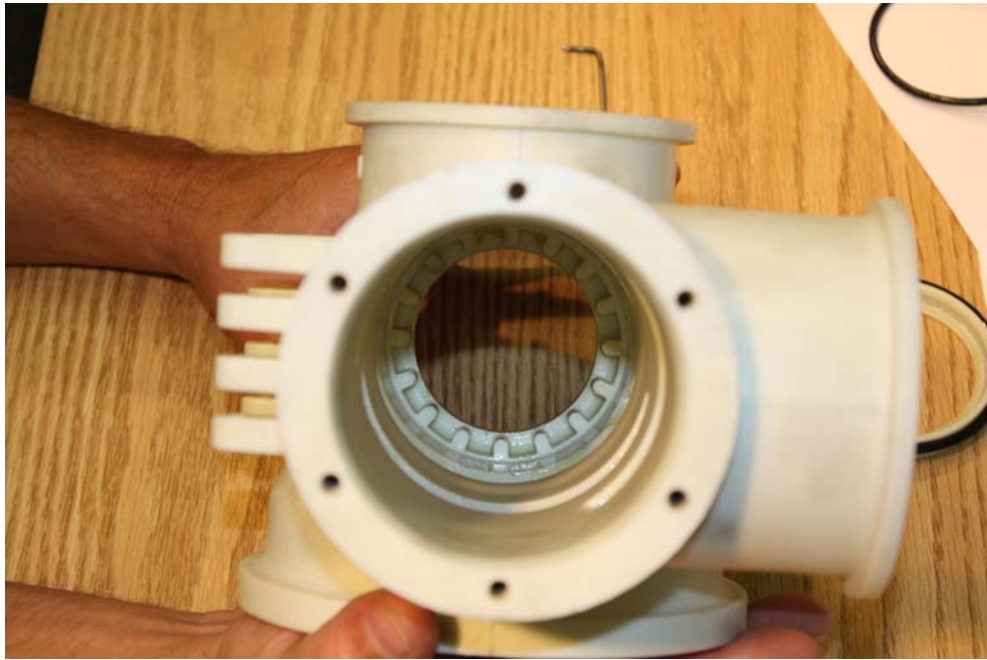
Parts layout for reassembly, if replacing a metal piston, you will need a new Piston rod.



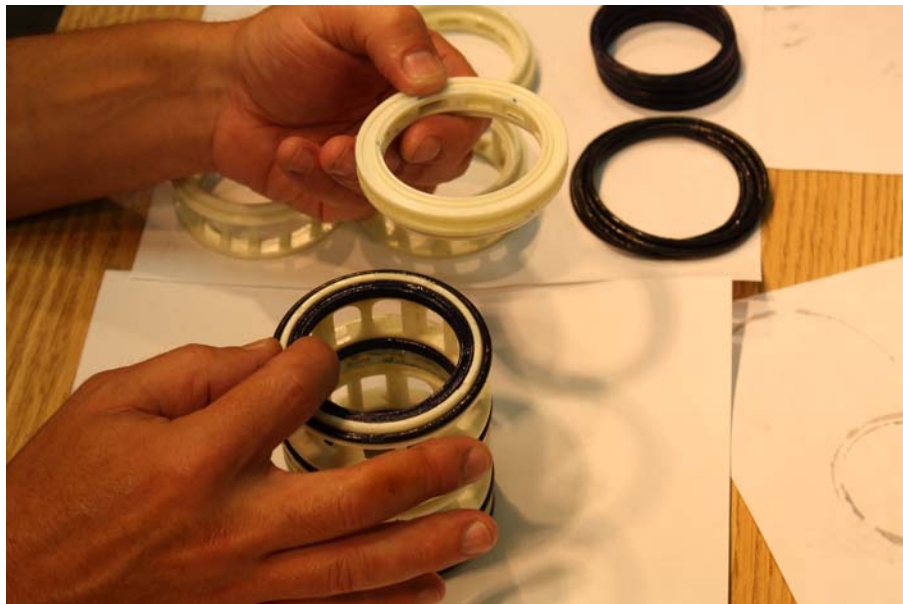
Using a hooked tool, pull out lantern rings, o-rings and quad rings. Be careful not to scratch the valve body



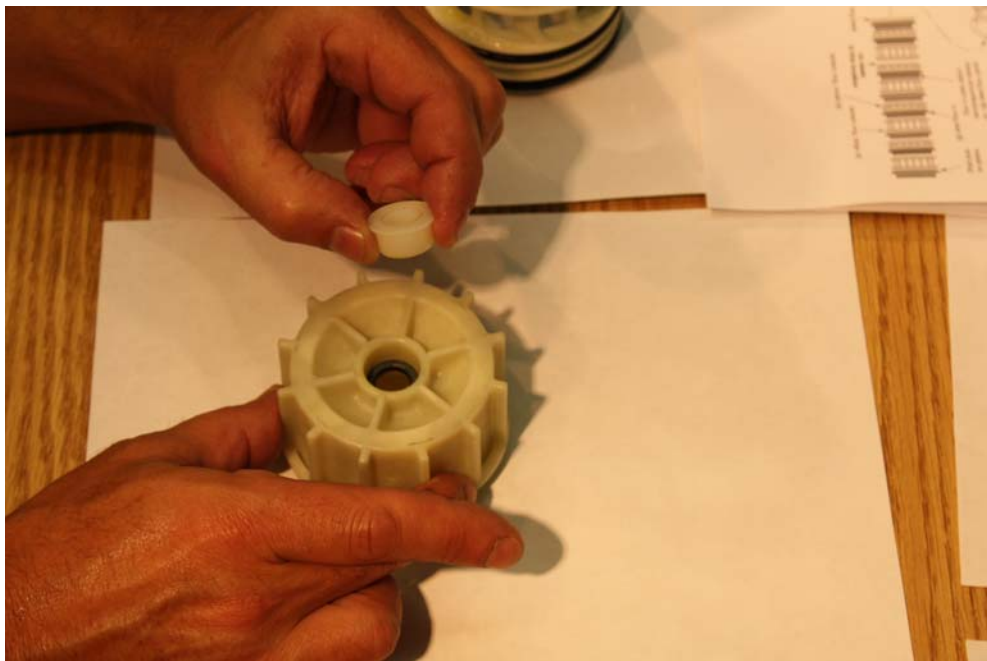
To remove the last spacer, push from the valve inlet port



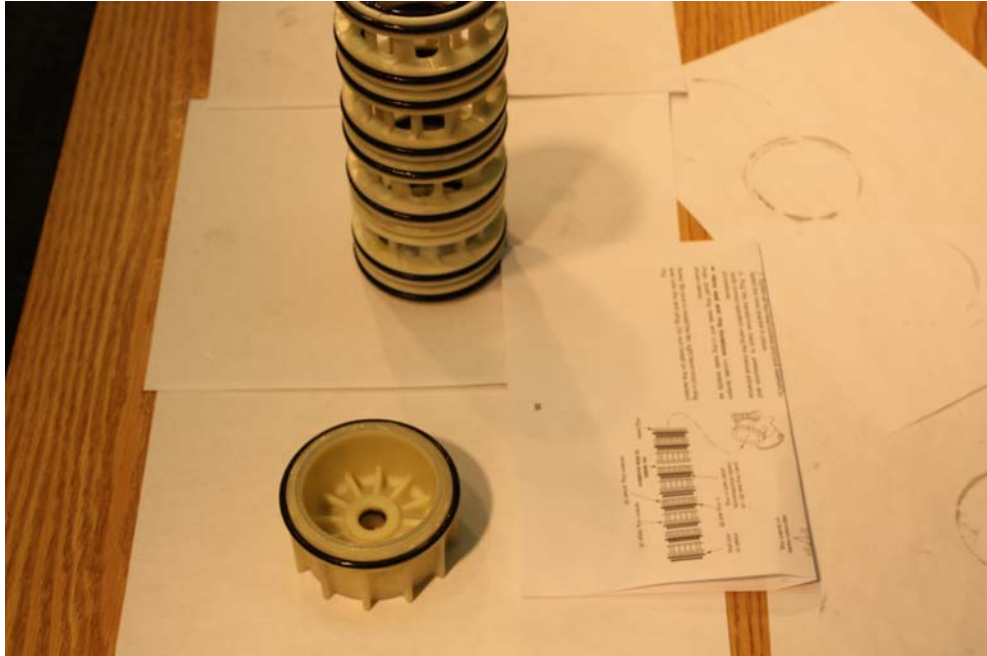
All components removed from valve body



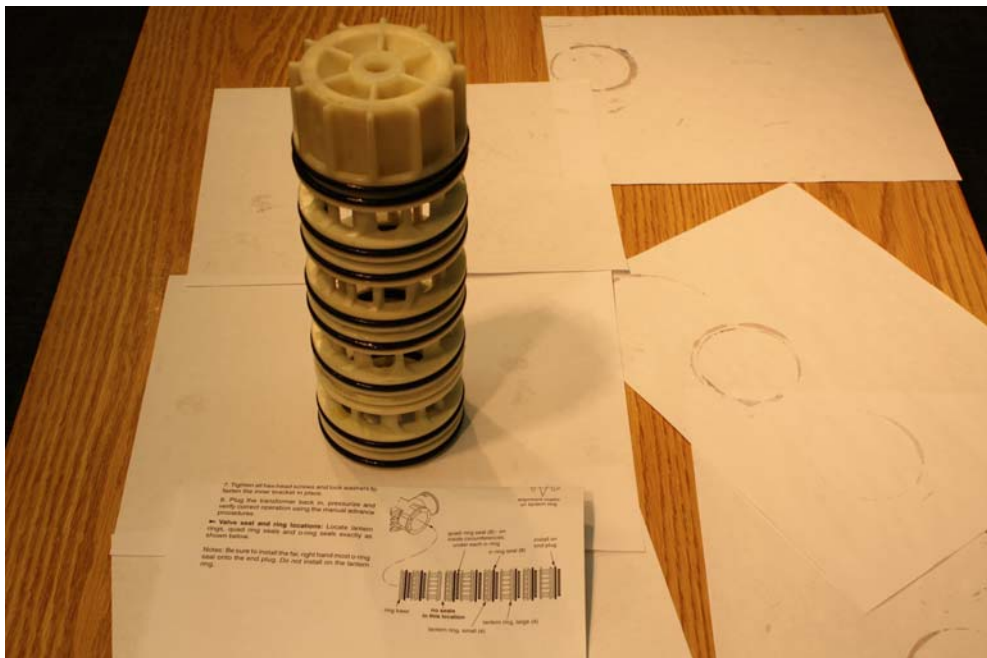
Reassemble quad rings, o-rings and lantern rings in a stack. Use illustration from owners manual



Lubricate and reinstall o-ring and flange bushing



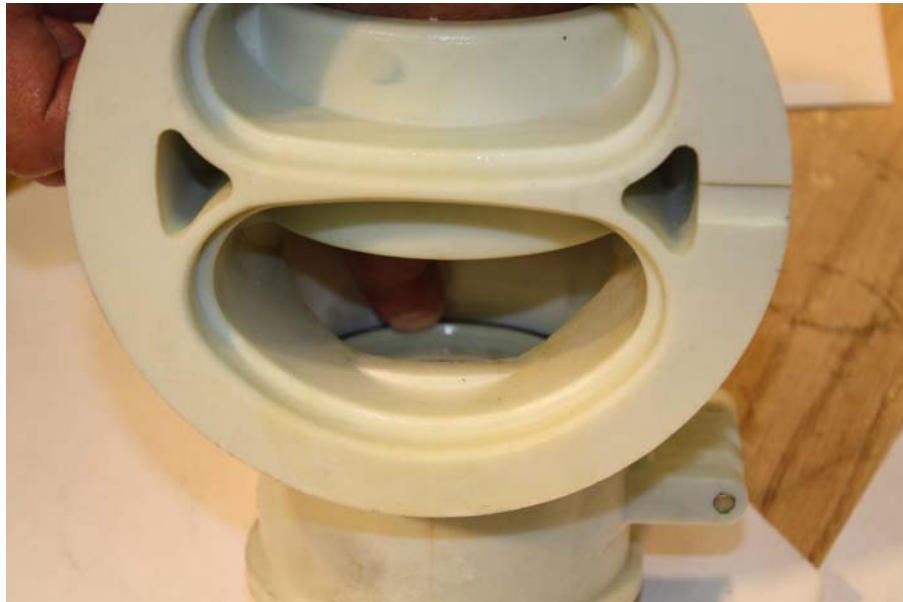
Follow instructions from owner's manual for parts sequence



Stack assembled as it would be inserted into valve



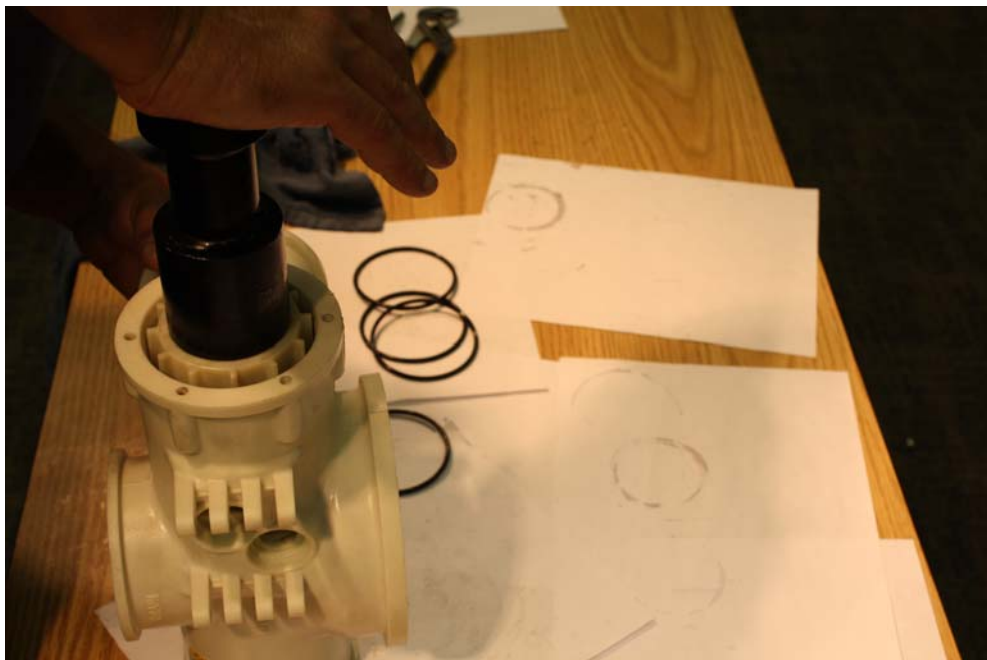
Stack assembly order reversed for assembly, top goes into valve first



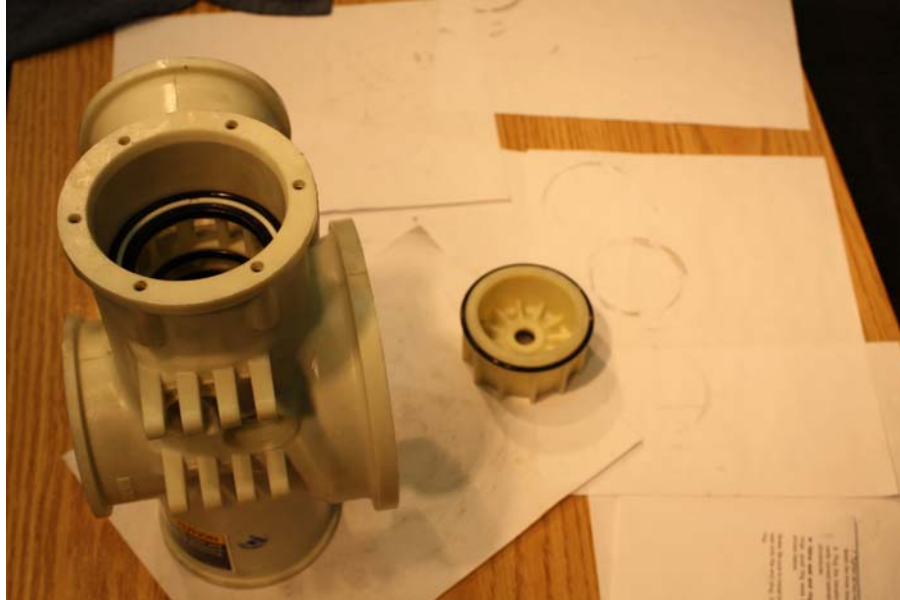
Reassemble using a silicon lubricant. Be sure to push each o-ring into place



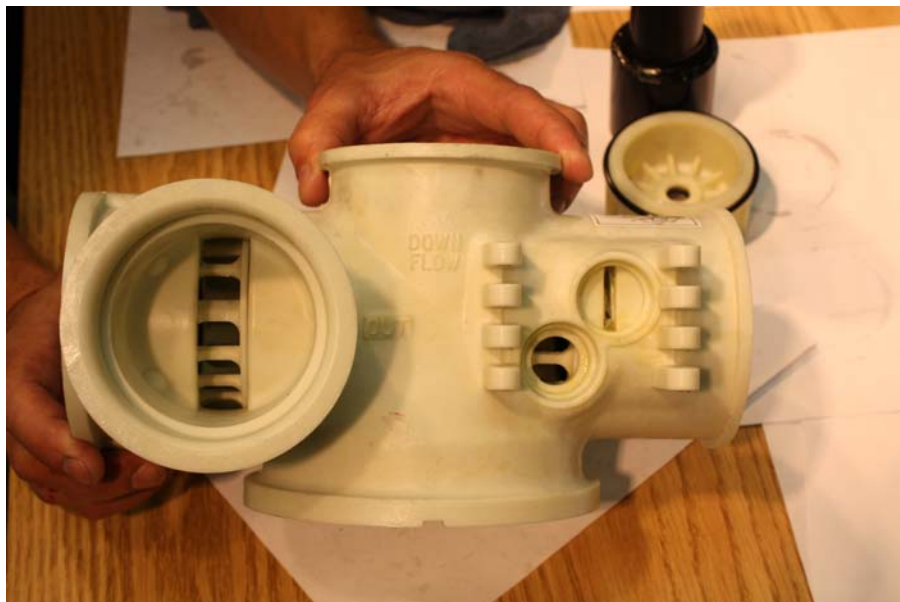
From parts stack install in order, push in o-rings in a circular movement



Use end plug and piston to push lantern and o-rings into place



Valve shown assembled, ready for end plug



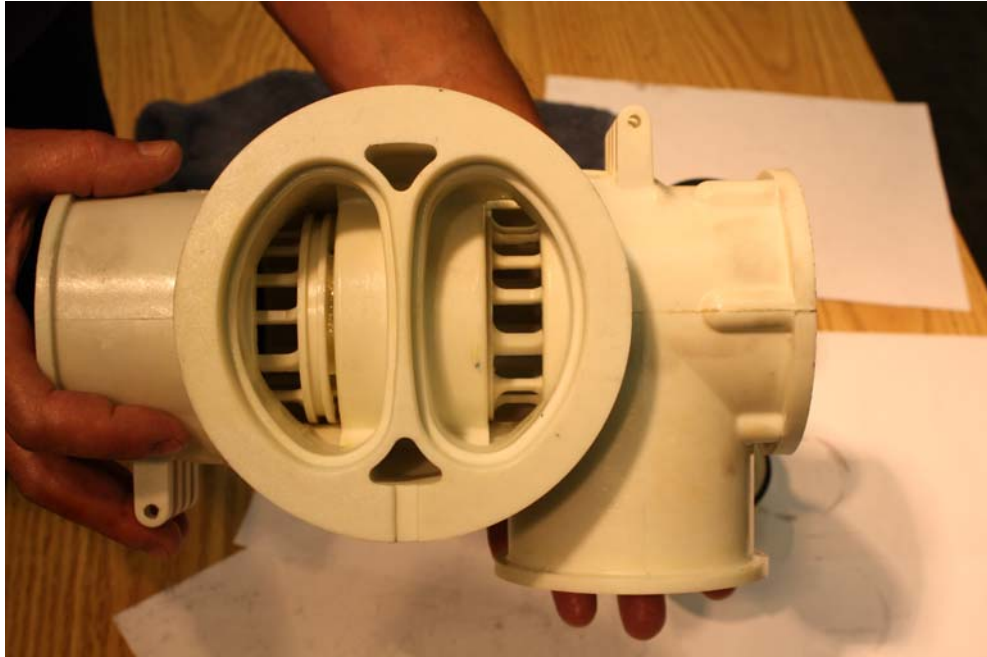
When valve has been assembled, inspect outlet and down flow brine ports for o-rings that may be showing.



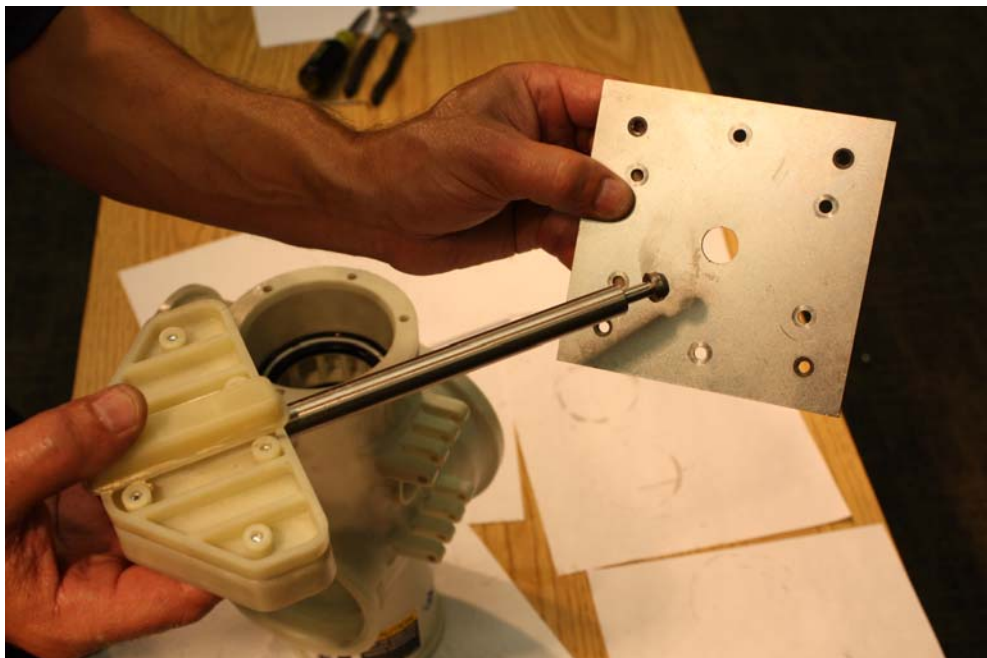
Inspect drain port for exposed o-rings



Inspect upflow brine port for exposed o-rings

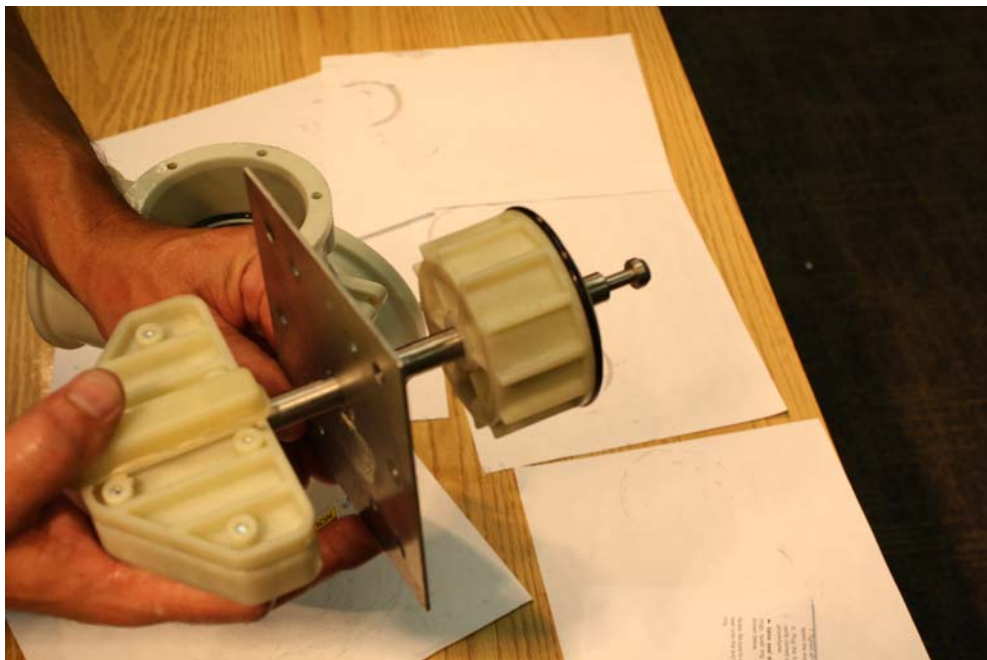


**Inspect valve inlet outlet connection (valve to tank
adaptor connection) for exposed o-rings
If an o-ring is exposed reassemble and reseal o-rings**





Reassemble mounting bracket, note direction of plate



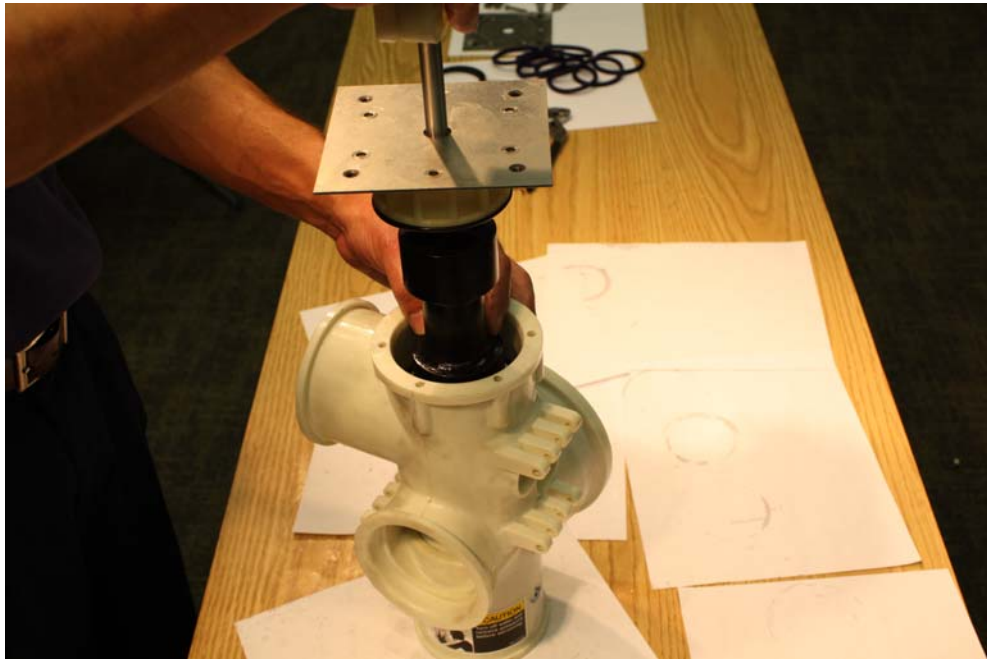
Lubricate piston rod and install end plug



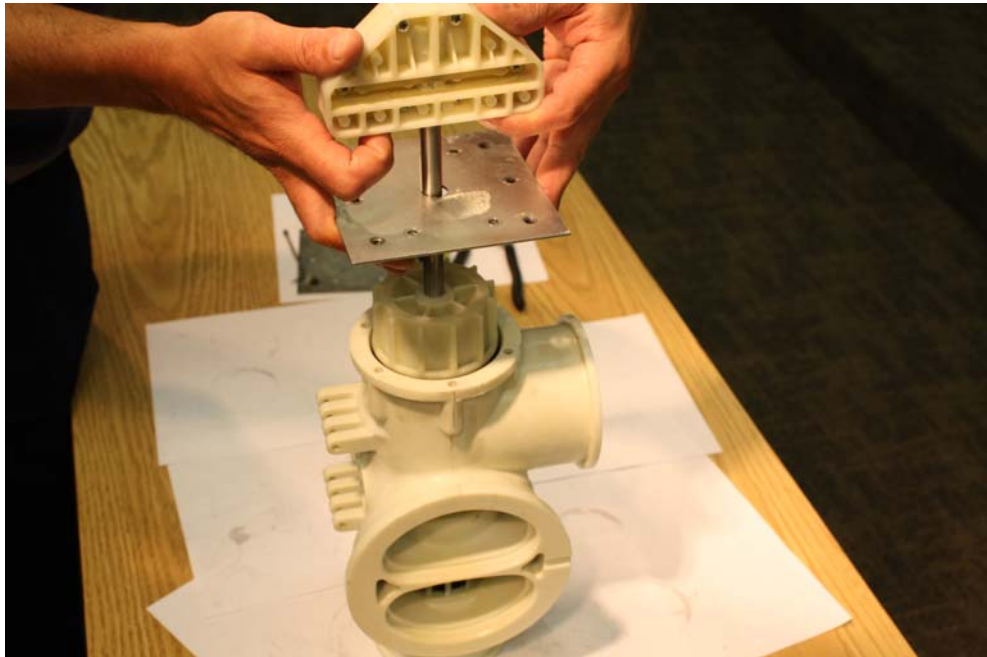
Lubricate piston and install on piston rod



Yoke, piston, piston rod and end cap assembled



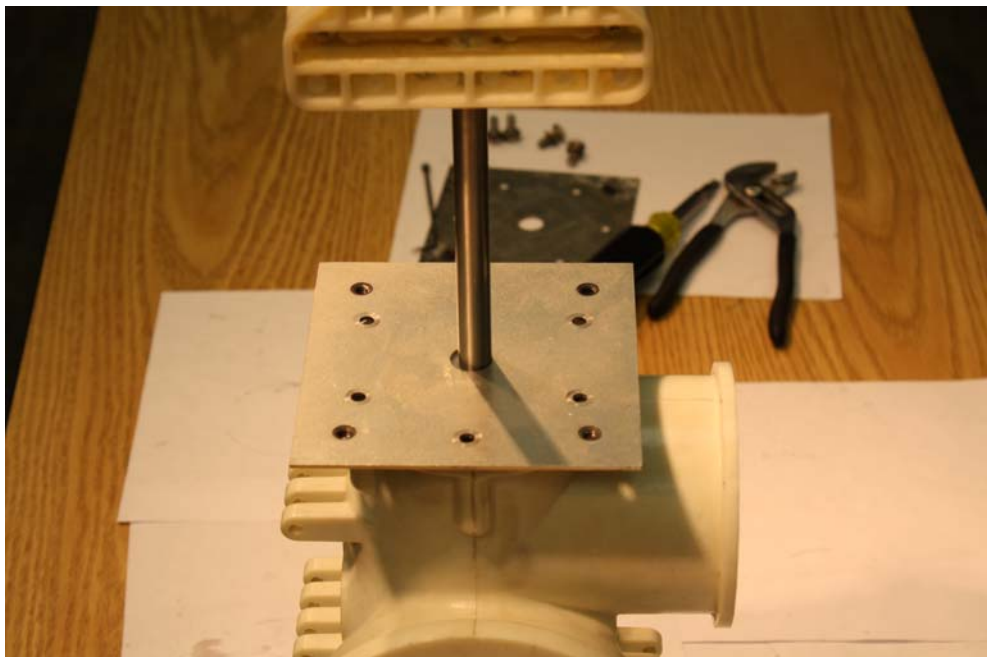
Insert assembly into valve



Use even vertical downward force and push assembly into valve



Use mounting bracket plate to push end plug into place



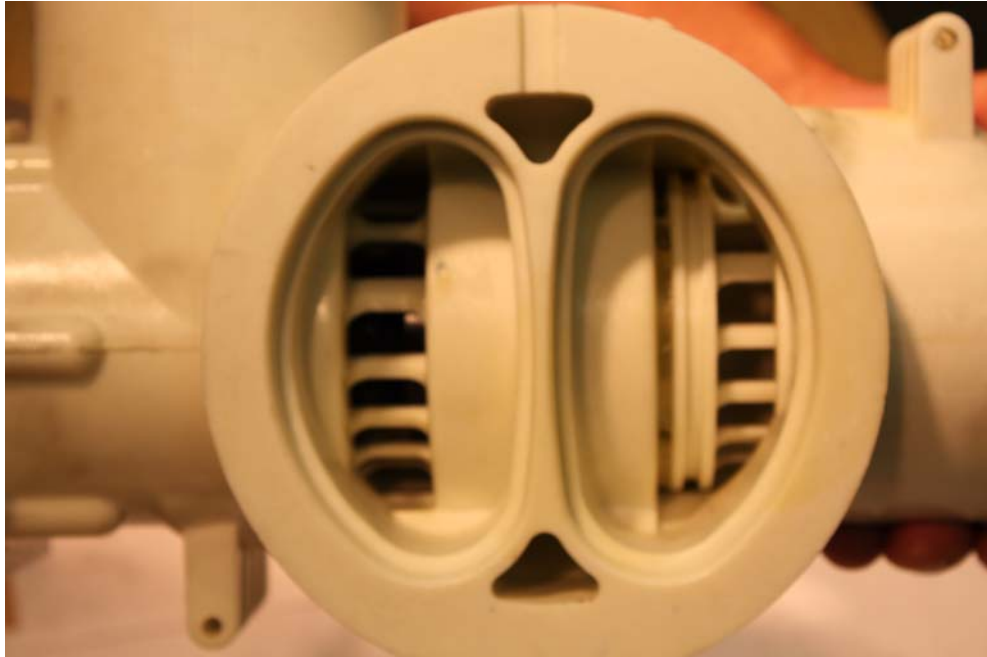
Valve assembled ready for bracket plate screw, install 1 or 2 plate screws and inspect valve for o-ring extrusion



Inspect drain port for extruded o-rings



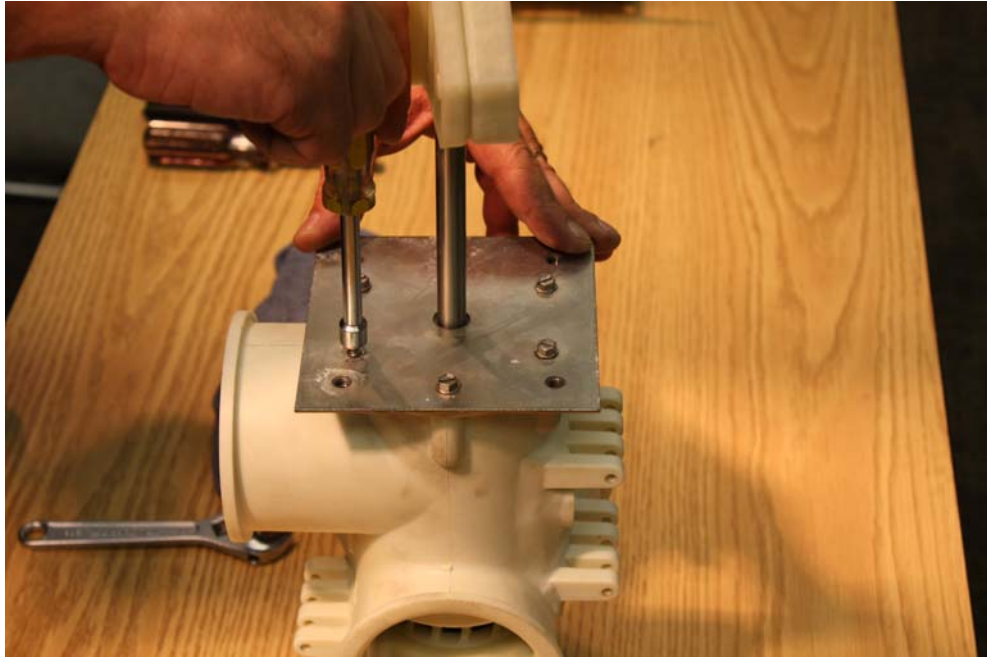
Inspect outlet and down flow ports for o-ring extrusion



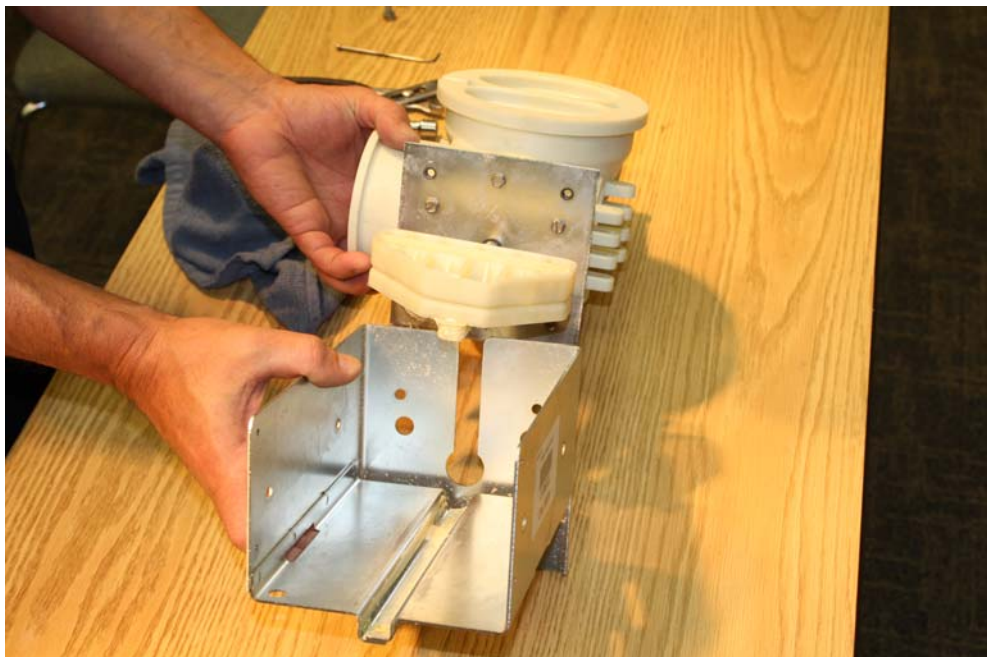
Inspect inlet/outlet ports, (Valve to tank adaptor connection) for extruded o-rings



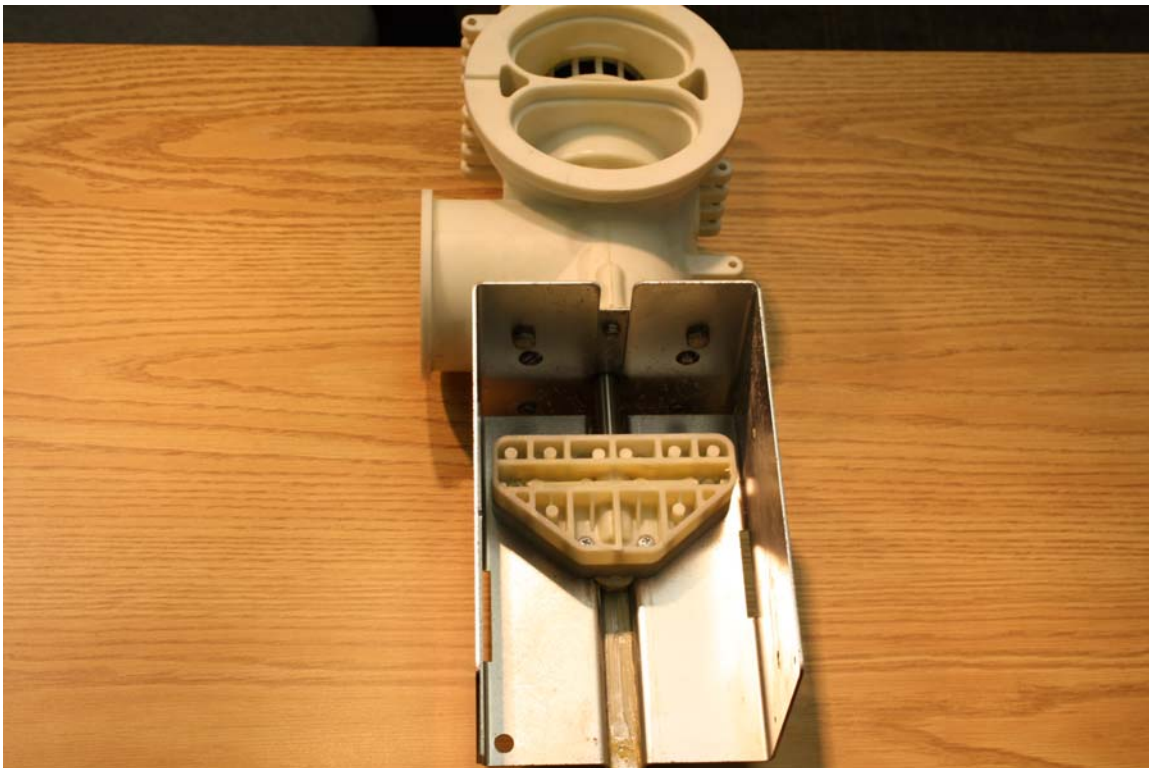
Inspect upflow port for o-ring extrusion



Reinstall mounting bracket screws, alternate tightening screws to ensure bracket is flush

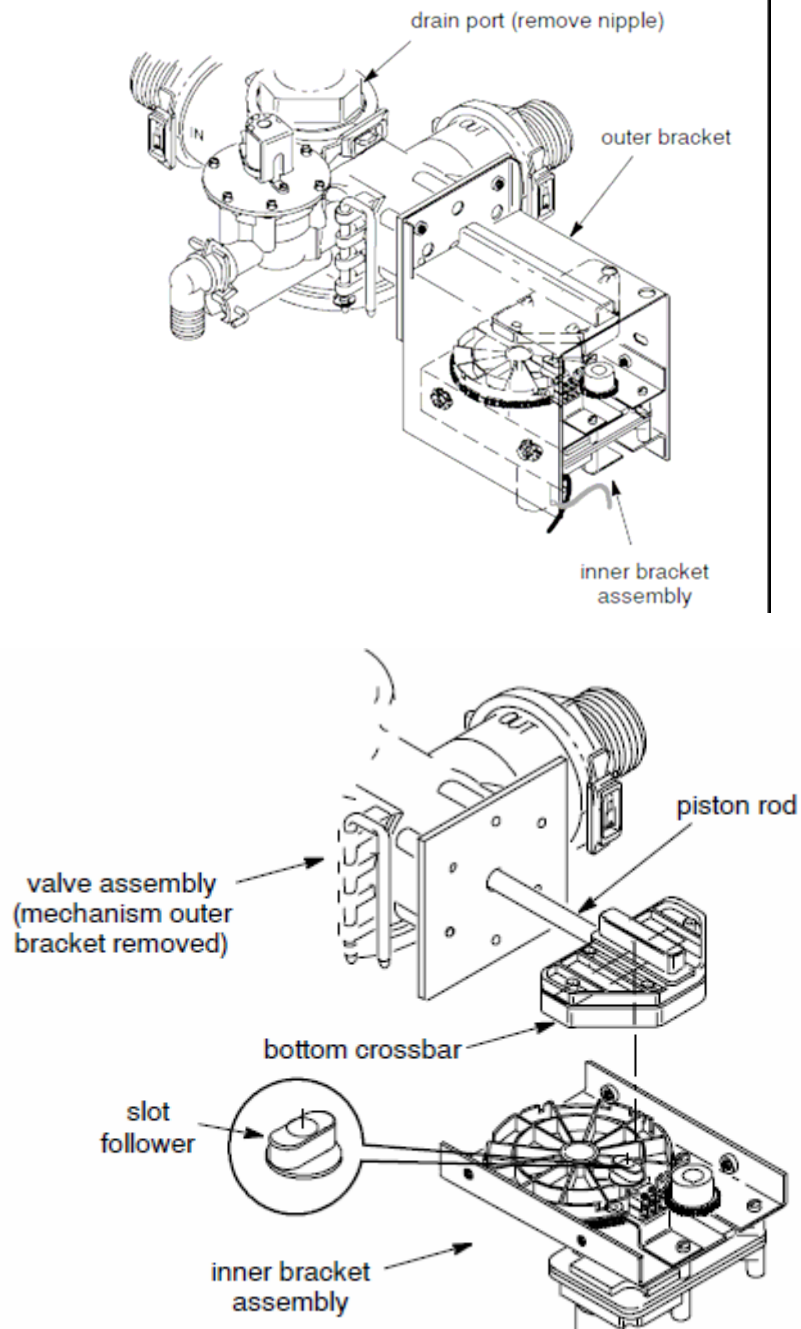


Reinstall outer bracket

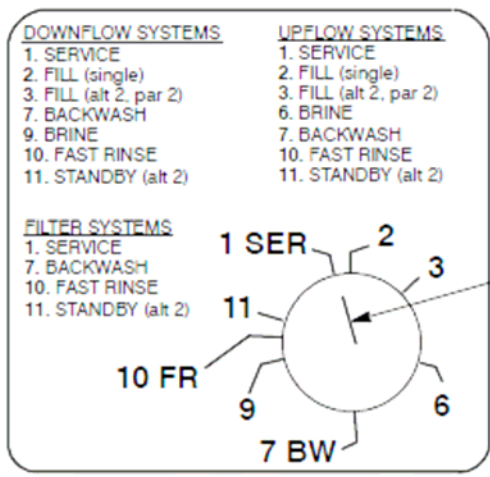


Completed assembly

At this time the yoke/piston assembly can be pushed in or pulled out to match the position of the inner bracket drive train assembly



VALVE POSITION DECAL (located on bottom of controller drive mechanism)



indicator mark on bottom of gear (shown in service position)

VALVE SEALS AND RINGS (see page 35 for correct locations)

KEY NO.	PART NUMBER	DESCRIPTION
1	7168257	Ring Base
2	7169287	O-ring Seal (8 req'd)
3	7169295	Quad-ring Seal (8 req'd)
4	7165241	Lantern Ring, Large (4 req'd)
5	7165259	Lantern Ring, Small (4 req'd)
★	7195238	Seal Kit (8 each of key nos. 2 & 3)

