

Standard Water Valve Kit Installation Instructions

Note! The gear plate in this kit may differ from the parts you are replacing. This gear plate will have 10 gears rather than the previous 5.

1. With the pump shut OFF, remove the band clamp from the water valve and open the union on the feed line into the valve; lift off the upper housing.
2. Remove the O-ring and **all** the internal parts except for the large acrylic balls.
3. Clean out any debris or bits of sand that may be in the water valve then install the large stainless steel anti-friction washers over the center shaft.
4. Place one of the acrylic balls on the triangular shaped ledge beside it. (See **Figure 1**)
5. With the stainless steel shim in place on the center shaft post of the gear plate, install the gear plate by setting it down over the center shaft.
6. Allow the center shaft to come out the center shaft post and through the stainless steel shim (the shim cannot be installed after the gear plate is in place).
7. Rotate the gear plate so that the narrow end (the protrusion) of the cam is resting directly over the open port without the ball. (See **Figure 2**)
8. With your finger, screwdriver or a pen, push the ball off the ledge it was resting upon and onto the cam; then push down on the gear plate till it rests in the bottom of the water valve housing.
9. Install the impeller.
10. Install the new O-ring
11. Replace the upper housing and join the union then replace the band clamp.
12. When tightening the band clamp, tap around the perimeter of the band clamp as it is being tightened. Continue tapping and tightening until the band clamp knob is snug. **Hand tighten only! Do not use pliers or vice-grips!**

Place the acrylic ball on the triangular shaped ledge.



Figure 1

The narrow end of the cam is resting above the open port.



Figure 2