## 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. —

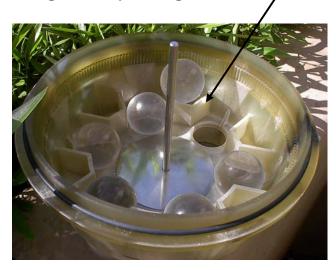


Figure 1

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



Figure 2