

Preventive Maintenance

Inspect and clean brine tank and screen filter on end of brine pickup tube once a year or when sediment appears in the bottom of the brine tank.

Injector Screen and Injector

The injector is the component which creates the vacuum necessary to draw the brine into the water conditioner. Clean the injector and injector screen once a year in order to maintain proper water conditioning. Some locations may require more frequent injector and screen servicing. Refer to Figure 19 and complete the following steps to clean the injector screen and injector.

1. Unplug the wall mount transformer.
 2. Shut off water supply or put bypass valve(s) into bypass position and remove the rear cover.
 3. Relieve system pressure by opening valve number 6 (at rear) with a screwdriver (Figure 15).
 4. Using a screwdriver, unscrew and remove the injector screen and the injector cap.
 5. Clean screen with a fine brush. Flush with water until clean.
 6. Using a needle-nose pliers, pull the injector straight out.
 7. Squirt water into the injector screen recess of the valve body to flush debris out.
 8. Clean and flush injector.
 9. Lubricate the O-rings on the injector, injector cap, and injector screen with silicone lubricant and reinstall.
- Important:** Do not overtighten the plastic cap. Seat the cap lightly into position. Overtightening may cause breakage of the plastic cap that may not be immediately evident.
10. Reinstall cover, reconnect electric power, and reset the time of day.
 11. Slowly open the water supply valve or return the bypass valve(s) to the "not in bypass" position.

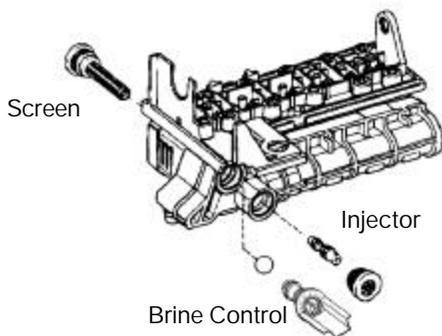


Figure 19

Water Meter

In rare instances, the turbine wheel of the water meter may collect small particles of oxidized iron, eventually preventing the wheel from turning. The turbine wheel may be serviced as follows (Figure 20):

1. Shut off the water supply or put bypass valve(s) into bypass position.
2. Relieve system pressure by opening valve number 6 (at rear) with a screwdriver (Figure 15).
3. Loosen and remove the fasteners that hold the meter adapter to the tank adapter and the fasteners that hold the piping boss or bypass valve to the meter adapter.
4. Remove the meter adapter, being careful not to misplace any of the O-rings.
5. Using a needle-nose pliers, grasp one of the four vanes of the gland and, pulling straight out, remove the gland from the adapter.
6. Carefully remove the turbine wheel from the housing. Using a toothbrush, lightly scrub the iron off the magnet. Iron buildup on the wheel surfaces may be removed by soaking the wheel in a mild sodium hydrosulfite (e.g., RoVer*) solution for a few minutes, then flushing thoroughly with water.
7. Carefully reinstall the turbine wheel into the adapter, being certain that the shaft of the wheel seats into the bearing of the adapter and that the "dimple" on the wheel faces you.
8. Carefully reinstall the gland into the adapter, being certain that the shaft of the wheel seats into the bearing of the gland; press the gland all the way in, being sure the wheel rotates freely.
9. Reinstall the meter adapter, O-rings, piping boss, or bypass valve, tighten all fasteners and re-establish the water supply to the system.
10. Check for proper water meter operation by opening a downstream faucet and observing the water flow indicator light on the 460i display.

*RoVer is a trademark of Hach Chemical Company.

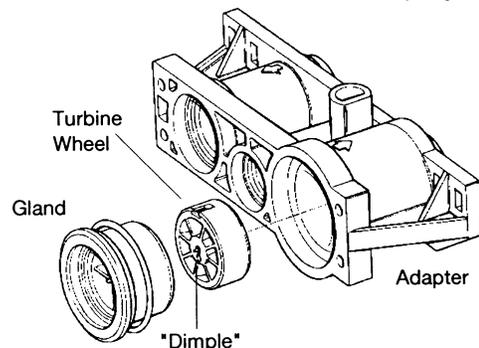


Figure 20