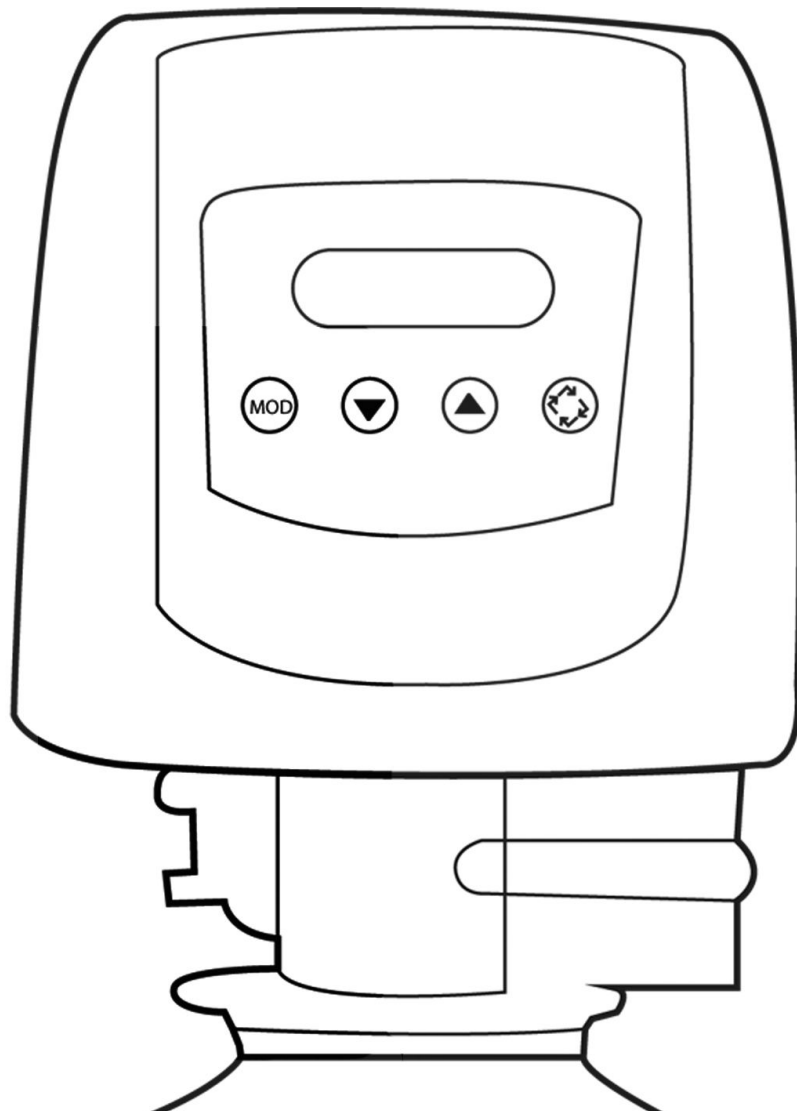




PENTAIR FLECK

WATER SOFTENER

START UP & INSTRUCTIONS



Pre-Installation Guidelines:

Before assembly of your new system, be sure that the following conditions have been met for placement of your system:

- Level, firm surface, such as concrete, on which to place the softener tank and salt tank (as known as a 'brine' tank)
- Nearby floor drain or standpipe to connect to the softener for use during each regeneration
- Un-switched power source, standard US plug, 120v 60hz (the softener system includes a 5ft. power cord and plug)
- Access to the water main coming into your home. You will need to install the softener at this point to assure that water for the home is going through the system.

Placing and Filling the Tank:

- Choose the final location for your water softener tank, and place the tank upright and level on the surface.
- Unscrew the protective cap as shown below in Figure 1 and move on to the next section.

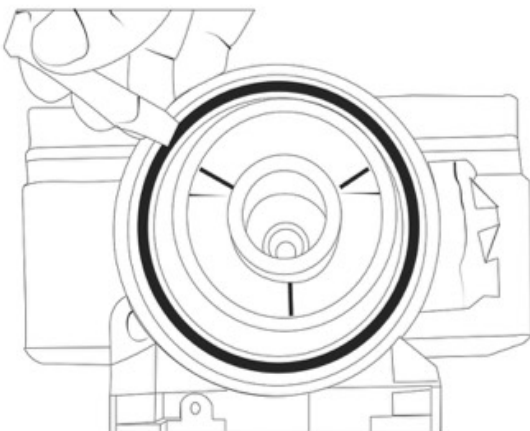


Placing and Filling the Tank:

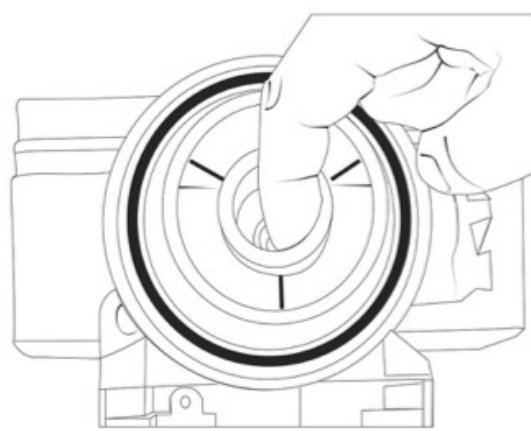
- Choose the final location for your water softener tank, and place the tank upright and level on the surface.
- Unscrew the protective cap as shown below in Figure 1 and move on to the next section.

Installing the Pentair Fleck Meter Control Valve:

- Silicone lubricant packet, lubricate the inner and outer o-rings on the bottom of the Fleck Meter Valve as shown in Figures 5 & 6 below.

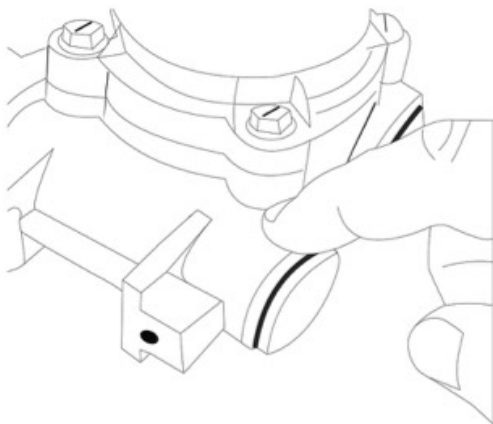
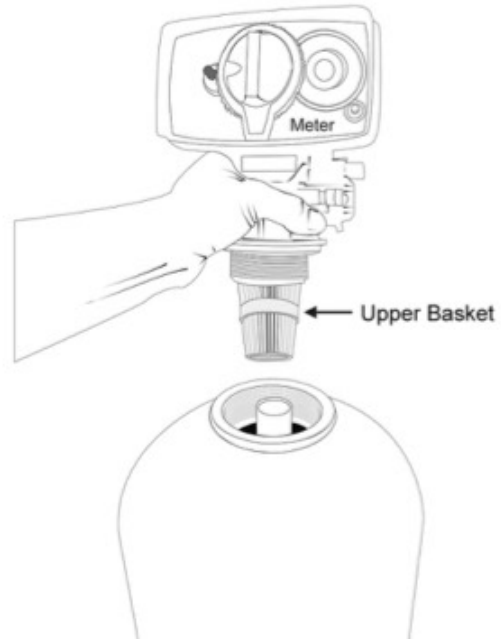


Figures 5

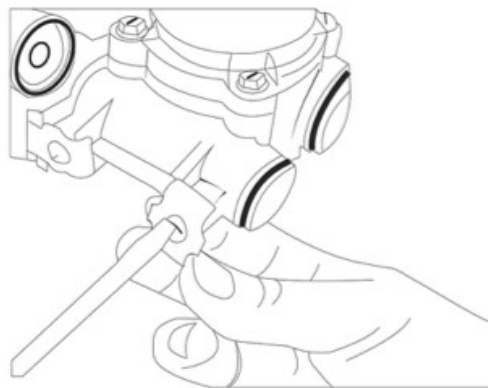


Figures 6

- Next, place the Pentair Fleck Meter Valve onto the top of the tank, being sure that the riser tube fits into the central o-ring on the valve, as shown in figure 7 below. Hand tighten the valve to the tank snugly by hand only. NOTE: Do not use Teflon tape or pipe dope on the valve or tank threads.
- Locate the plumbing adaptor that was shipped with your system. Also, disassemble the plumbing adaptor clips as shown in Figure 8 on the following page.
- Using the included silicone lubricant packet, lubricate the o-rings on the Fleck Meter valve as shown in figure 9 on the following page.



Figures 8



Figures 9

- Pick your installation point, and cut a section of pipe out to run to and from your softener. NOTE: In many cases, it is preferred to keep outside lines UNSOFTENED. If you wish to keep your outside lines unsoftened, you must plumb "Bypass" lines to run hard water to these fixtures.
- Using soldered copper, PVC plastic pipe, or flexible connections, plumb the system according to all local plumbing codes. NOTE: If using copper pipe, please pre-fabricate at least a 12" section of pipe for the "IN" and "OUT" bound lines and use a wet rag on the lines being soldered to prevent heat damage during soldering!
- Once all connections have been made, place the system into bypass by either using your existing 3-valve bypass (if ordered with a Yoke adaptor), or by switching your included bypass to "BYPASS" (if ordered with a Bypass)
- Next, gradually open your main valve and allow all air in your plumbing lines to escape slowly. Also, you may turn off all outside and inside faucets and fixtures.
- Check for leaks at your plumbing site for signs of slow drips, and rectify if necessary.
- Please do not take the softener out of "BYPASS" as the installation is completed yet! NOTE: Please take this opportunity to check and re-check the "IN" and "OUT" to make sure that they are correct!

Making the Brine Tank Connection:

- Onto one side of the included Brine Tubing as shown in Figure 11 below.
- Next, connect to the Fleck Meter Valve as shown in Figure 12 below.

- Tighten the nut to the valve using a wrench until snugly in place. Be careful not to over tighten, as you may sever the brine line tubing.
- Locate the included brine tank, and remove the brine tank cover shown on the following page in Figure 13.
- Next, locate the brine well, and remove the cap as shown in Figure 14 on the following page.

Figure 11

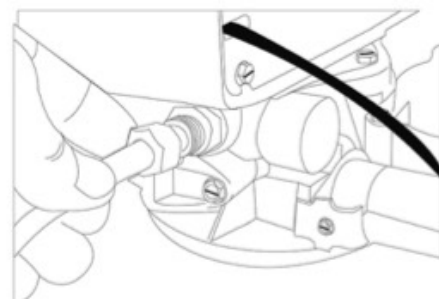


Figure 12

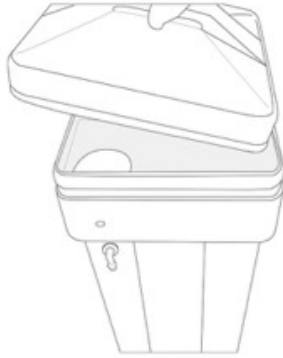


Figure 13

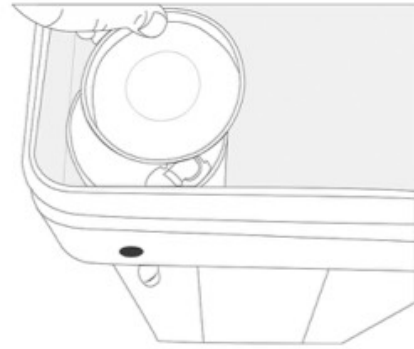


Figure 14

- Pull the 2310 brine float assembly out of the brine well and disassemble the retaining nut as shown in Figure 15 below.
- Next, assemble the 2310 brine float assembly to the brine well through the pre-drilled hole and hand-tighten as shown in figure 16 below.



Figure 15



Figure 16



Figure 17

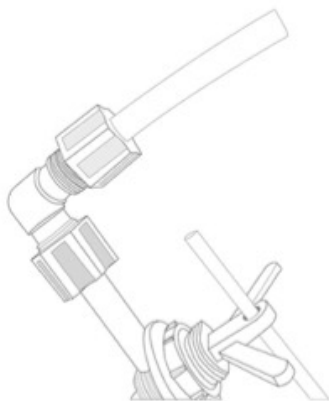


Figure 18

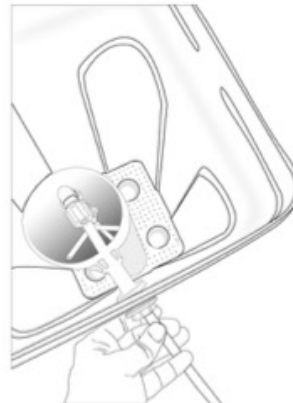


Figure 19

- Take the other end of your brine line tube and insert the tube through the small hole drilled through the brine tank, and brine well. Loosely unscrew the hex nut on the 2310 brine float assembly. Insert the tubing end firmly into the hex nut on the 2310 brine float assembly.
- Next back-off the hex nut and ferrule assembly so they are securely onto the tubing as shown in Figure 17 on the following page. NOTE: Please be sure to assemble the nut in the fashion described to prevent system malfunction and possible brine tank overflow!
- Hand-tighten the hex nut snugly onto the 2310 brine float assembly as shown in Figure 18 below.

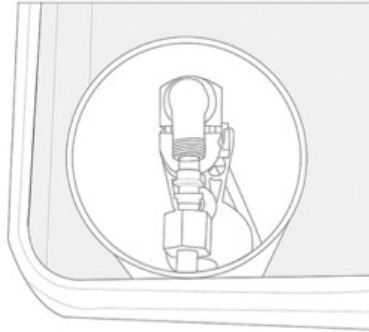


Figure 17

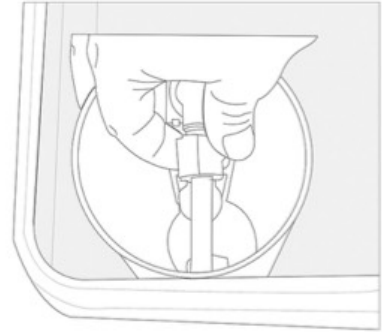


Figure 18

- Finally, use 1/2" I.D. tubing to connect the drain barb fitting on the brine tank to a floor drain as shown in Figure 19. NOTE: This is not necessary as the 2310 assembly is designed to prevent an overflow situation, but is a good and recommended precaution for a proper installation.

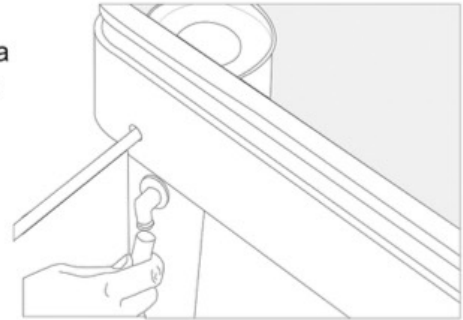


Figure 19

Making the Drain Connection:

- Locate the included barbed fitting and use Teflon tape to wrap the threading. Install the fitting to the Fleck Meter Valve by screwing the fitting using a wrench snugly into the drain port as shown in Figure 20 on the following page. Please use caution not to over tighten this fitting.
- Next, assemble your 1/2" I.D. drain line to the drain barb as shown in Figure 21 on the following page. Be sure to use rigid wall 1/2" I.D. tubing that will not flatten!

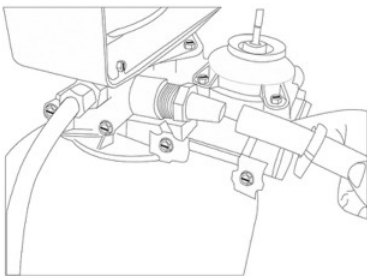


Figure 20

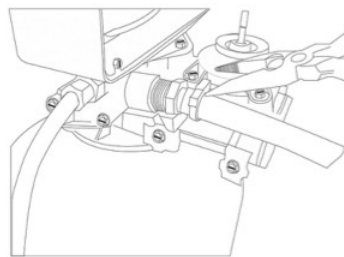


Figure 21

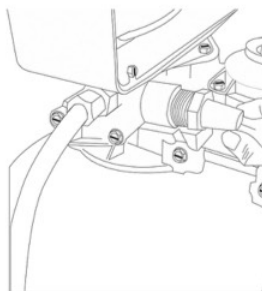


Figure 22