PREMIER WATER SYSTEMS
Top Quality Water Purification & Softener Products

INSTALLATION & START-UP INSTRUCTIONS

Preface:

Thank you for your purchase of a new Water Softener with Fleck 5600SXT Meter from QualityWaterForLess.com! We have put together these instructions as reference, and to be used as general installation guidelines. It is always recommended that a licensed plumber perform all installation work according to all local codes. We at QualityWaterForLess.com cannot assume responsibility for improper installation, application, or injury or damage as a result of improper installation.

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.
- Filling the tank may be necessary on some systems. Your tank may have also come prefilled, and in this case you only need to unscrew the protective cap as shown below in Figure 1 and move on to the next section.

FIGURE 1

- If your tank is not filled, please follow the additional instructions below.
- First, place the riser tube into the tank as shown in Figure 2. **NOTE: Please be sure that the riser tube seats into the bottom of the tank, and that the top of the riser tube is FLUSH with the top of the tank lip.**

FIGURE 2

- Before filling the tank, place a piece of duct tape over the top of the riser to prevent resin from dropping down inside the riser tube as shown in Figure 3.
- Place the included filling funnel over the top the the tank as shown in Figure 4, and prepare to fill the tank. If your softener system came with Gravel, please pour this amount into the tank FIRST, then pour in the included resin media afterwards.

FIGURE 3

FIGURE 4

- Remove the filling funnel and duct tape and go on to the next section

Installing the Fleck 5600SXT Meter Control Valve:

- Using the included silicone lubricant packet, lubricate the inner and outer o-rings on the bottom of the Fleck 5600SXT Meter Valve as shown in Figures 5 & 6 below.

FIGURE 5
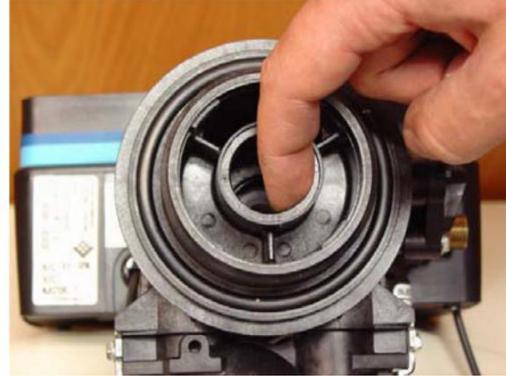
FIGURE 6

- Next, place the Fleck 5600SXT 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.

FIGURE 7

- 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 5600SXT Meter valve as shown in figure 9 on the following page.
- Finally, assemble the plumbing adaptor to the valve as shown in Figure 10 on the following page. When assembling the clips back onto the valve, leave the first clip loose. Tighten the second clip, and complete the assembly by tightening the first clip.

FIGURE 8   FIGURE 9

FIGURE 10

Plumbing your Fleck 5600SXT Meter:

- Before beginning your installation, please first familiarize yourself with the "IN" and "OUT" on the Fleck 5600SXT Meter Valve. **In order to prevent damage to your home and to the softener system, install the softener according to the "IN" and "OUT" arrows on the softener valve!**
- Find the main shut-off valve for your house and turn it to the "OFF" position. If you have a private well, this valve should be near your well pressure tank. If you have a city water supply, your valve should be near your water meter.
- Depressurize and drain your home of water by turning on all faucets and fixtures in your home, including those outside.

- 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 5600SXT Meter Valve as shown in Figure 12 below.

FIGURE 11

FIGURE 12

- 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 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

- 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 ½" I.D. tubing to connect the drain bard 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 5600SXT 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 ½" I.D. drain line to the drain barb as shown in Figure 21 on the following page. Be sure to use rigid wall ½" I.D. tubing that will not flatten!

FIGURE 20
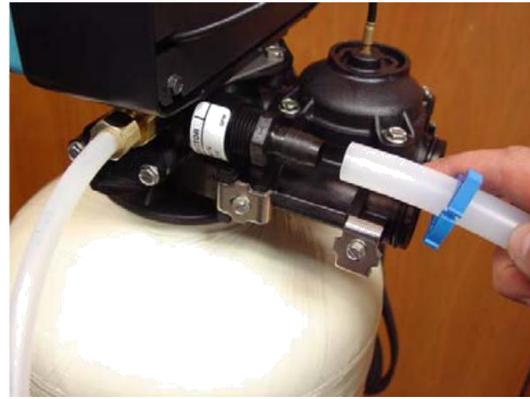
FIGURE 21

- Wrap electrical tape over the drain tubing to prevent a tubing split, and clamp the tubing securely into place with the included blue clamp as shown in Figure 22 below.

FIGURE 22

- Connect the other end of this drain line tubing SECURELY to a standpipe or drain in accordance with all local plumbing codes. **NOTE: Be sure that the drain line is securely in place before the use of the water softener system. When the system regenerates, there will be increased flow via this tubing, which may cause the tubing to become loose.**

Programming the Fleck 5600SXT Meter Valve:

- Before start-up a few simple steps must be followed to program the Fleck 5600SXT Meter Valve.
- It will be important to know what your water's Hardness and Iron content is before doing this programming procedure. If you do not know your water hardness, or if you are unsure, you may wish to have it tested by sending us a sample for testing, or by taking a sample to a local pool supply, or hardware store.

- Your Hardness test results may indicate "Grains", "PPM", or "mg/L". It is important to note that PPM and mg/L are the same measure and both figures can be treated interchangeably. If you get a hardness figure in PPM or mg/L, please divide this number by 17.1 to get Grains. **Ex: If your hardness is measured at 300 PPM, your Grains are 300 / 17.1 = 18 Grains.**
- Your Iron results should also be measured in either "PPM" or "mg/L". Add your level of iron multiplied by 5. Add this number to your hardness level. This final figure will be your Total Hardness Level that we will program into your softener system. **Ex: If your iron level is measured at 5 PPM, add 5 x 5 = 25 Grains of hardness to existing hardness total.**
- To begin programming, first plug in your 5600SXT Valve to a nearby wall outlet. The system will illuminate 4 digits. The system will show the time of day and the amount of gallons remaining. This display will switch between these valves about every 10 seconds.
- Set the time on the system to 12:01 PM by pressing either the "UP" or "DOWN" arrow as shown in figure 23 below. You may hold the button to allow the time to scroll faster.
- Once the time display is set to 12:01 PM, press the "extra cycle" button once as shown in figure 24 below.

FIGURE 23

FIGURE 24

- To enter master programming mode, press the "UP" and "DOWN" buttons TOGETHER and HOLD for 5 seconds, and then release the buttons, as shown in figure 25 below.
- The display should now show "DF / GAL" as shown in figure 26 below. (This indicates U.S. Operation Mode - Gallons) **Do not change this value, and press the "Extra Cycle Button" once to continue**.

FIGURE 25

FIGURE 26

- The display should now show "7VT / St1b"as shown in figure 27 below. (This indicates Valve Type 5600 Mode) **Do not change this value, and press the "Extra Cycle Button" once to continue**.
- The display should now show "CT / Fd" as shown in figure 28. (This indicates Control Type METER Delayed Format) **Do not change this value, and press the "Extra Cycle Button" once to continue**.

FIGURE 27

FIGURE 28

- The display should now show "NT / - - - 1" as shown in figure 29 below. (This indicates Number of Tanks is Single) **Do not change this value, and press the "Extra Cycle Button" once to continue**.
- The display should now show "C / 32.0" as shown in figure 30 below. (This indicates the Capacity is 32,000 grains) **Use the "UP" or "DOWN" button to change this value to the size of your system, and press the "Extra Cycle Button" once to continue when finished.**

FIGURE 29

FIGURE 30

- The display should now show "H / 20" as shown in figure 31 below. (This indicates the Hardness is 20 grains) **Use the "UP" or "DOWN" button to change this value to the total hardness of you water (as calculated on page 10), and press the "Extra Cycle Button" once to continue when finished.**

FIGURE 31

- The display should now show "RS / SF" as shown in figure 32 below. (This indicates Reserve Selection is Safety Factor percentage) **Do not change this value, and press the "Extra Cycle Button" once to continue**.
- The display should now show "SF / 20" as shown in figure 33 below. (This indicates the Safety Factor is 20 percent) **Use the "UP" or "DOWN" button to change this value to "15", and press the "Extra Cycle Button" once to continue when finished.**

FIGURE 32

FIGURE 33

- The display should now show "DO / 14" as shown in figure 34 below. (This indicates the Day Override is 14 days – the system will regenerate on the 14th day if the meter does not otherwise automatically initiate a regeneration based on usage.) **Do not change this value, and press the "Extra Cycle Button" once to continue.**
- The display should now show "RT / 2:00" as shown in figure 35 below. (This indicates the system will regenerate at 2:00 AM, assuming the system clock is set accurately) **Although this is the recommended time, you may change this by using the "UP" or "DOWN" buttons, and then press the "Extra Cycle Button" once to continue.**


FIGURE 34

FIGURE 35

- The display should now show "BW / 10" as shown in figure 36 on the following page. (This indicates Backwash Time is 10 minutes in length) **Do not change this value, and press the "Extra Cycle Button" once to continue**.
- The display should now show "BD / 60" as shown in figure 37 on the following page. (This indicates Brine Draw Time is 60 minutes) **Do not change this value, and press the "Extra Cycle Button" once to continue**.

FIGURE 36

FIGURE 37

- The display may now show "RR / 12" as shown in figure 38 below. (This indicates Rapid Rinse Time is 10 minutes) **Do not change this value, and press the "Extra Cycle Button" once to continue – if this value is different, use the "UP" or "DOWN" buttons to change this**.

- The display may now show "BD / 10" as shown in figure 39 below. This indicates the length of the Brine Refill Cycle during regeneration. **Use the table below to determine the proper salt time setting based on the size of your system – if this value is different, use the "UP" or "DOWN" buttons to change this.. Change the value by pressing the "UP" or "DOWN" button until the proper time setting is shown, and press the "Extra Cycle Button" once to continue when finished.**

FIGURE 38

FIGURE 39

System Size	Salt Time Setting
24,000 Grains	7
32,000 Grains	10
40,000 Grains	12
48,000 Grains	15
64,000 Grains	19
80,000 Grains	23
96,000 Grains	29
120,000 Grains	39

- The display may now show "FM / t0.7" as shown in figure 40 below. (This indicates Flow Meter type 3/4" Turbine) **Do not change this value, and press the "Extra Cycle Button" once to continue – if this value is different, use the "UP" or "DOWN" buttons to change this.**
- The system will now exit the Master Programming mode, and the display should now show the time of day, flowed by the new number of gallons remaining, as shown in figure 41 below. **Change the time of day by pressing and holding the "UP" or "DOWN" button until the proper time setting is shown. Note that there is a "PM" light indicator to differentiate between AM and PM times.**

FIGURE 40   FIGURE 41

- Congratuations! Your new 5600SXT system is now programmed and ready for operation. Please move on to the next section on the following page to initialize and start-up your system.

Initial Start-Up:

- With one nearby softened faucet running in the COLD position, slowly open your bypass valve or 3-valve bypass to about ¼ open to allow the air trapped in the softener to escape via your running faucet. **NOTE: Opening the bypass too quickly or too open may damage your softener or plumbing.**
- Allow the softener tank to slowly fill with water. After a few minutes, you will see a trickle of water coming from the cold water faucet. Allow the water to run slowly in this manner for an additional 5 minutes. Next, with the cold water faucet still running, gradually move your bypass valve to the fully open position. **NOTE: You may see some initial discoloration from the softened water – this is normal and should dissipate within the first 40-50 gallons of water used.**
- Turn off the nearby cold water faucet when the water runs clear.
- Add approximately five gallons of water to your brine tank, and add 120-160 pounds of pellet, solar, or block salt or potassium chloride to your brine tank.

Enjoy Your Softener!

Congratulations, you have successfully installed your new water softener with Fleck 5600SXT Meter Valve!

Please maintain your system by keeping the softener plugged-in and always keep your brine tank filled with salt to at least above the water level.

We appreciate your business, and hope that you enjoy years of trouble-free softened water!