

TRUSOFT NATURAL HOME WATER SOFTENING SYSTEM INSTALLATION AND OPERATING GUIDE

IMPORTANT

TO ENSURE PROPER OPERATION, READ COMPLETE INSTRUCTIONS BEFORE INSTALLING THE SYSTEM

Use only with official, patented truSoft solution
Minimize exposure to sunlight to maximize tank life
Protect against freezing to avoid tank fracture

WARNING: Failure to follow all safety instructions and warnings could result in serious bodily injury.

truSoft systems may be installed either by the end user or by a professional plumber without voiding the warranty. However, improper installation or use of the truSoft system voids all warranties.

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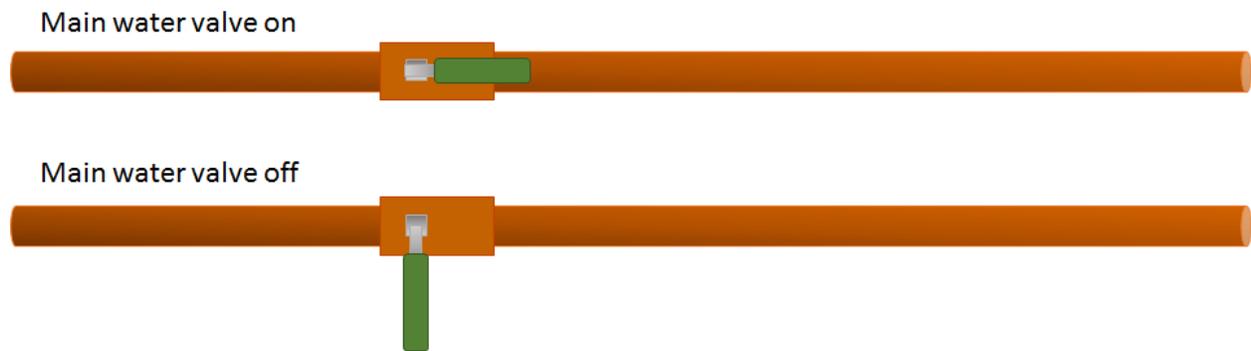
I. SYSTEM INSTALLATION INSTRUCTIONS

Tools needed for installation (not included):

- Pipe cutter
- Bucket to catch any water drainage

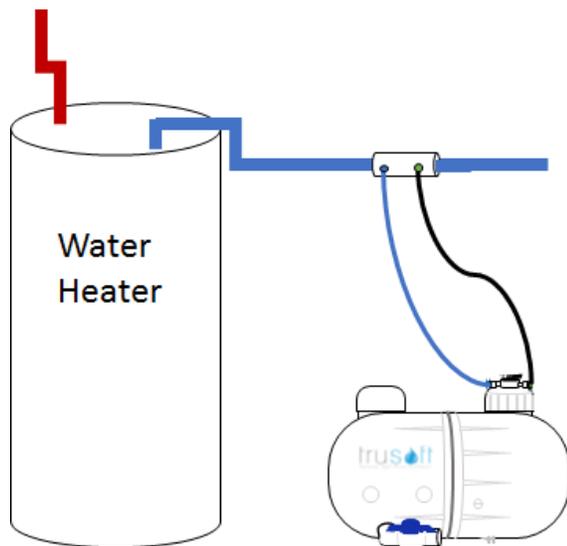
Step 1: Shut off water at the main water valve

This will typically be where the water main enters the house from the outside. Relieve pressure by opening a faucet at the lowest point in the home (remember to shut off this faucet before turning on the main water valve after completing installation).



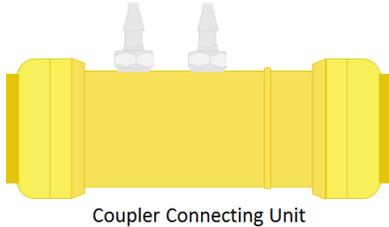
Step 2: Locate the installation point

Connection can be made either vertically or horizontally in the main water line before your water heater. To work with the truSoft coupler system, the connecting pipe must be $\frac{3}{4}$ " or 1" in diameter. Adapters for other pipe diameters can be purchased separately.



Step 3: Cut out a section of pipe

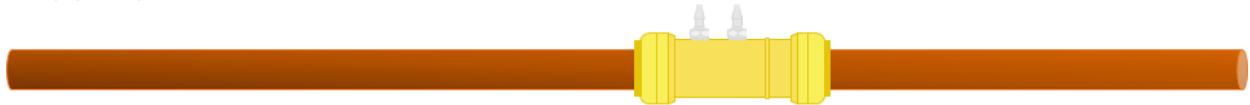
Mark the pipe using the included template, and use a pipe cutter (not included) to cut out the marked section of pipe. The section to be removed is 2 inches long. The coupling that will be inserted is 4 inches long. Place a bucket under the area before cutting to catch any water that may remain in the pipe.



Step 4: Connect the coupler to the line

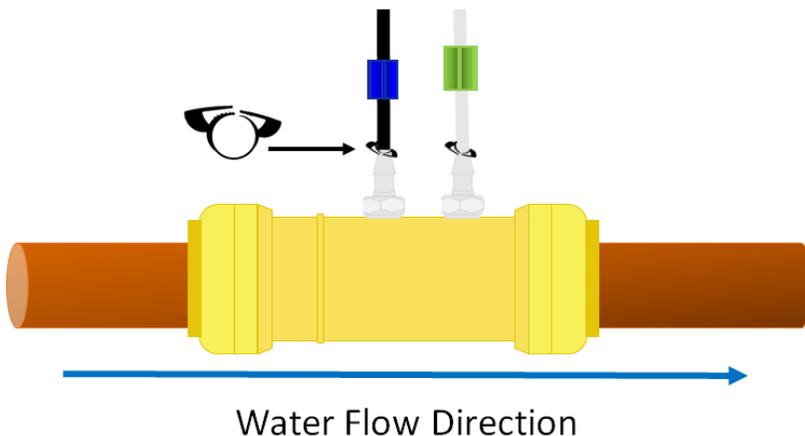
Insert the coupler into the spliced ends of the water line. Make sure that the barbed fittings point down and the water flow direction arrow points toward the water heater. You will need to pull the spliced water line further apart to insert the coupling. The pipe should slide in approximately 1" before stopping. The coupling will automatically seal, and you shouldn't be able to remove it by pulling off the pipe.

To remove the coupler later, use the removal tool provided. Slide the removal tool over the pipe and press firmly against the coupler while pulling the pipe and coupler apart. Note: don't attempt this while the pipe is pressurized.



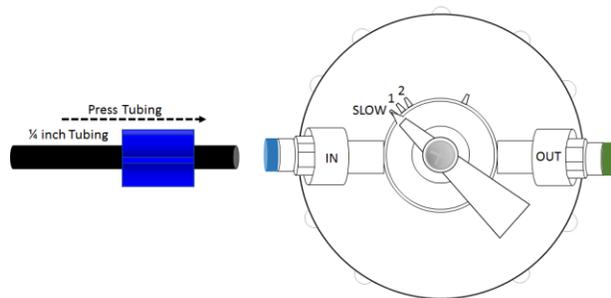
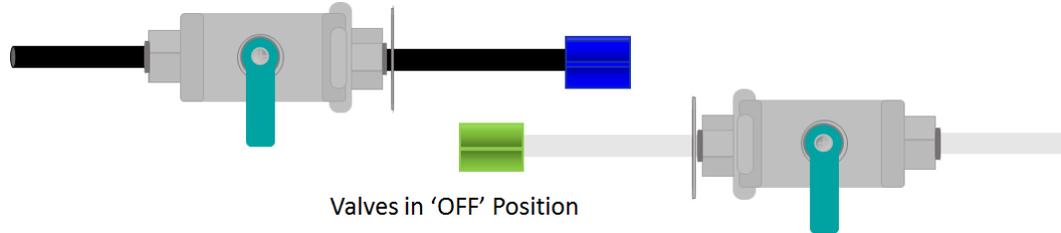
Step 5: Attach tubing to coupling

Attach black tubing to blue fitting and clear tubing to green fitting by pushing the tubing onto the coupler fittings. Secure the tubes by sliding tubing clamps over the connection point and squeezing the clamps closed with fingertips.

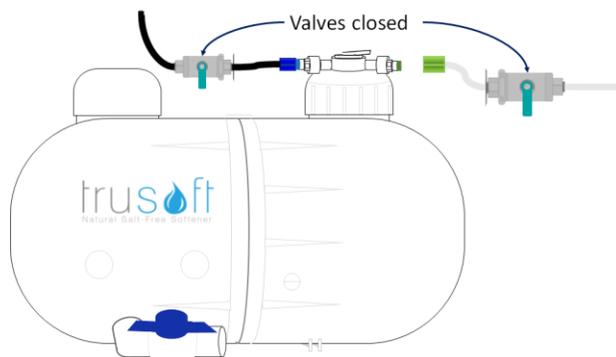


Step 6: Connect tubing to cap

a. Turn valves on both tubes to the 'off' position. Connect black tubing to blue 'water in' connection on control cap by pressing black tubing into the blue fitting. Press until the tubing stops. Gently tug the tubing to ensure it is locked in place. Ensure that mixing cap is disconnected from main unit.



b. Before connecting the clear tubing to the green 'solution out' connection, bleed air from tank by slightly opening the valve on the black line until air is purged (be sure to aim the tubing into your bucket or water heater drain). After only water comes from the tube, close the valve and connect the clear tubing to the green connection. Reconnect mixing cap to main unit.



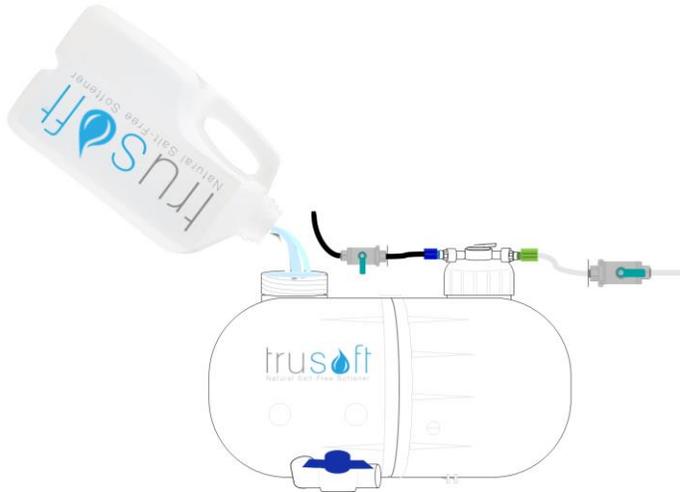
c. Turn water on at water main valve, and verify that none of the new connections leak (verify that you've shut off the faucet that you opened in Step 2).

Main water valve on



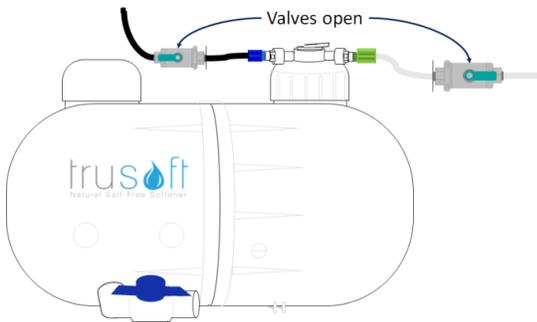
Step 7: Remove solution fill cap, and fill with truSoft Natural Water Softening Solution

Pour truSoft Solution into Fill Port until it reaches the brim. If you do not have enough truSoft solution to fill the tank entirely, pour water into the system until it is full. ENSURE THAT TANK IS ENTIRELY FULL OF LIQUID. DO NOT LEAVE ANY AIR IN THE SYSTEM.



Step 8: Reconnect

Replace Fill Port cap (confirm that the O-ring is in place prior to screwing cap back on). Open both shut-off valves on the in and out tubes.



Step 9: Enjoy naturally soft water!

REFILLING THE TANK

When in use, the truSoft Home Water Softening System should be completely full of liquid, with no air anywhere in the system. The system uses a patented injection process to draw the appropriate amount of truSoft Water Softening Solution from the bottom of the tank and add it to water that flows through the coupling connection to the rest of the house. As the solution is used, the tank will be filled from the top with water, leaving the solution in a lower layer in the tank.

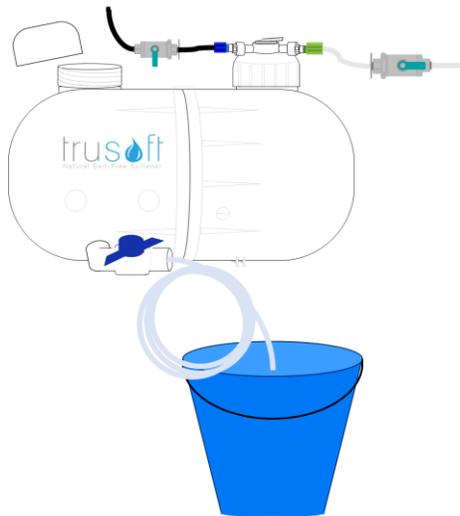
Step 1: Turn water off

Close both Shut-Off Valves, on the 'water in' and 'solution out' tubes.



Step 2: Empty tank

Before emptying the tank, confirm that the drain valve tube is inserted into the water heater drain or a bucket that can hold at least 1.5 gallons. Remove Fill Cap (with no connections) and open Drain Valve to empty water from the tank into a bucket, tub, or the basement drain. This liquid is mainly water and can safely be disposed of down any household drain or on any soil or material outside. Make sure to close drain valve completely before adding any liquid to the system.



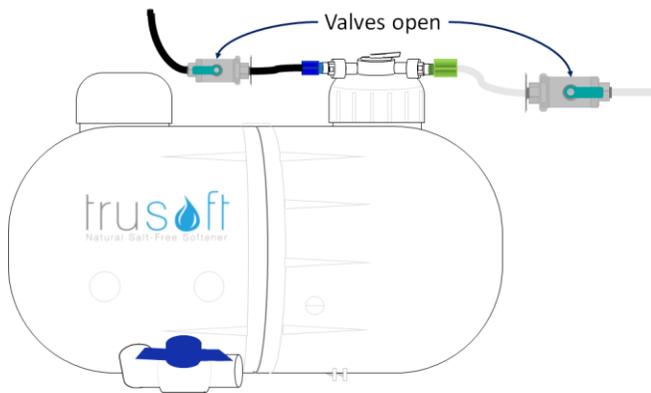
Step 3: Fill tank with truSoft Water Softening Solution

Pour truSoft Solution into Fill Port until it reaches the brim. If you do not have enough truSoft solution to fill the tank entirely (1.5 gallons), pour water into the system until it is full. ENSURE THAT TANK IS ENTIRELY FULL OF LIQUID. DO NOT LEAVE ANY AIR IN THE SYSTEM.



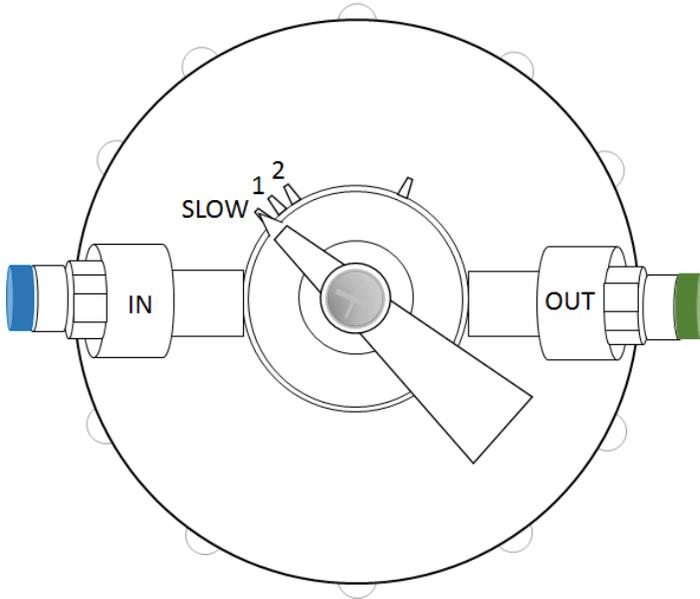
Step 4: Reconnect

Replace Fill Port cap (confirm that the O-ring is in place prior to screwing cap back on). Open both shut-off valves on the in and out tubes.



ADJUSTING DOSAGE FOR WATER HARDNESS

Set truSoft Solution dosage by setting the dosage dial to your desired level.

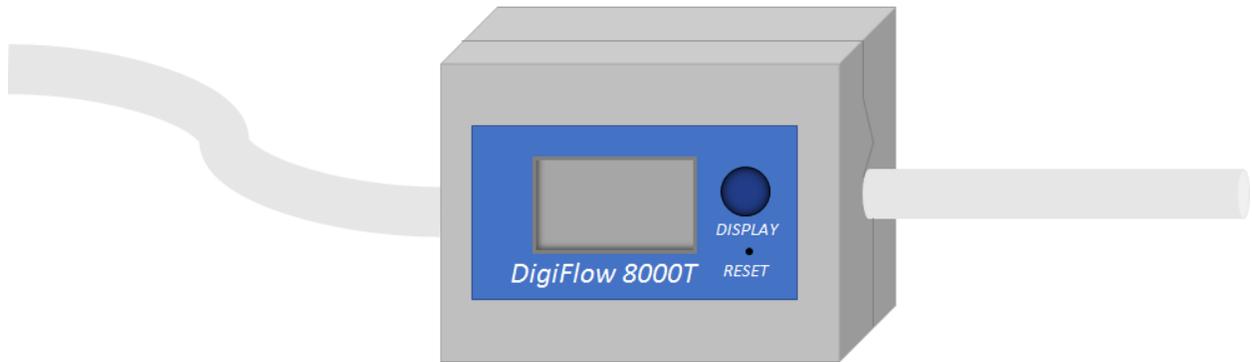


Water Hardness Level	Setting	Ratio*	Oz. Solution / gallon of water*	Gallons of water treated*
<15 gpg	Slow	24,000 : 1	.005 (1/33 tsp)	36,000
> 15 gpg	1	12,000 : 1	.011 (1/16 tsp)	18,000
Temp. scale purge	2	6,000 : 1	.021 (1/8 tsp)	9,000

The typical household uses about 8,333 gallons of water per month. Unless your water hardness level is greater than 15 grains per gallon (gpg), you should use the Slow setting. For hardness above 15 gpg, use setting 1. Settings 2 and Fast may be used temporarily for a purge of scale built up in pipes, fixtures, and appliances. Please note that softener solution usage will increase dramatically with each successive setting according to the table above.

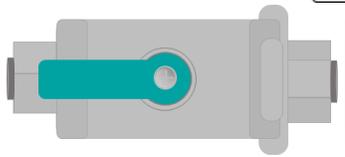
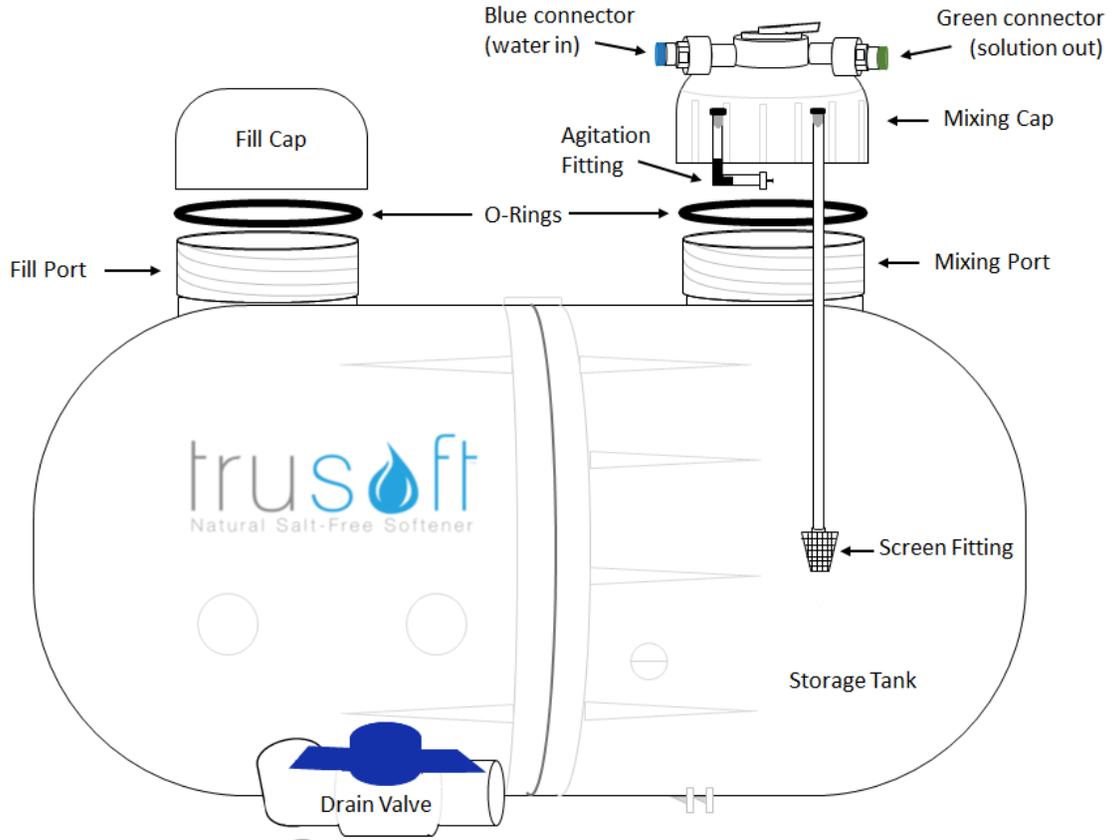
*Approximate

WHEN TO REFILL THE TANK



The truSoft system includes a water flow meter attached to the water out line (clear tube) that will indicate when it's time to refill the tank. Based on your selected dosage setting and the table above, you can set the dosage meter to the appropriate gallons of water to be treated (e.g., 'Slow' dosage setting requires setting the water flow meter to 22,500 gallons).

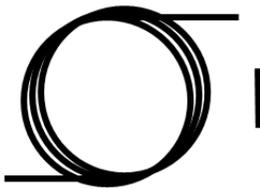
TANK ASSEMBLY & PARTS LIST



Two shut-off valves with washers



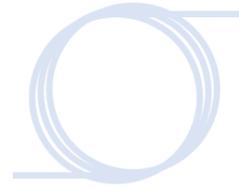
Three Tubing Clamps (1 extra)



10' plus 4" black tubing – water in



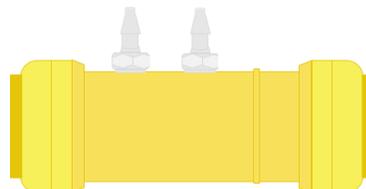
10' plus 4" white tubing – solution out



10' clear drain valve hose



Water Flow Meter



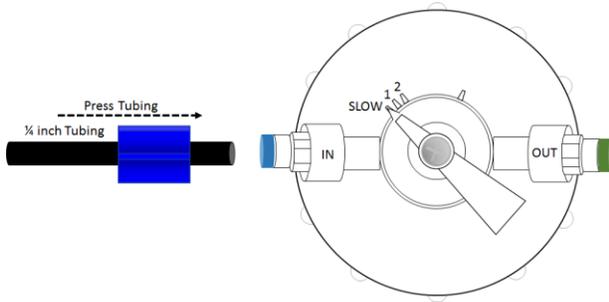
Coupler Connecting Unit

CAP TUBING FITTINGS: INSERT AND RELEASE

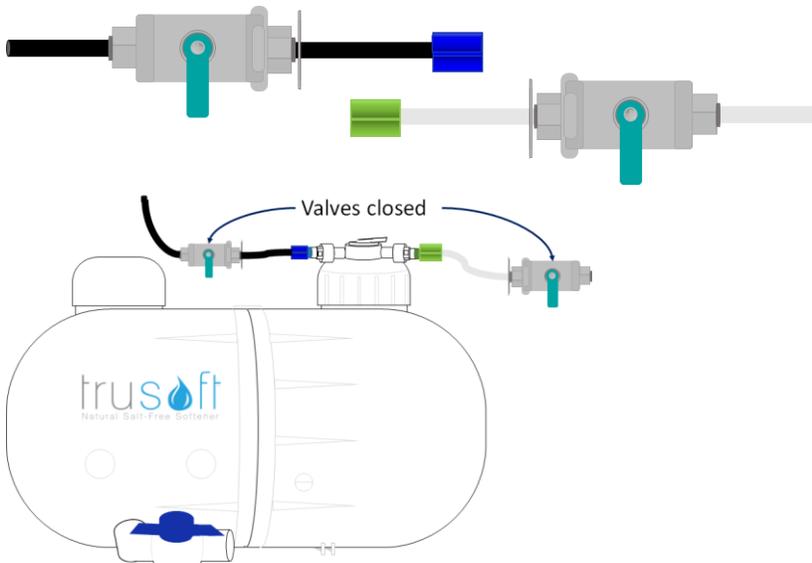
The truSoft system uses push connect fittings to connect the clear and black ¼" tubing to the cap.

To Insert:

1. Turn valves on both tubes to the off position. Insert the end of the tubing into the appropriate side (clear to green, black to blue) by pressing tube into opening. Press gently until the tubing stops.

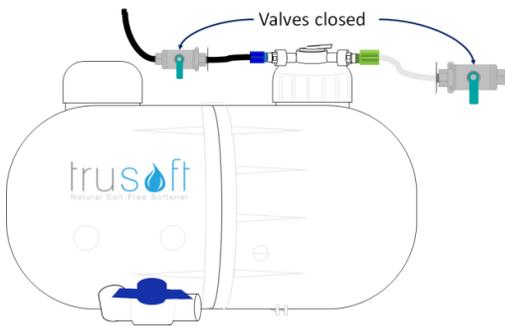


2. Gently tug the tubing to ensure it is locked in place.

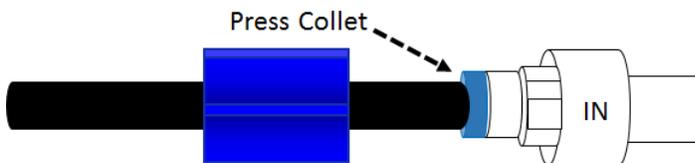


To Remove:

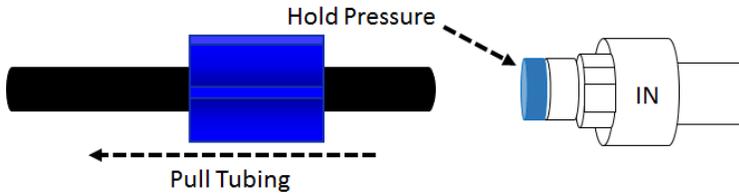
1. Shut off pressure to the system using the gray shut-off valves.



2. Apply gentle pressure to the green or blue collet with your fingers or provided washer.



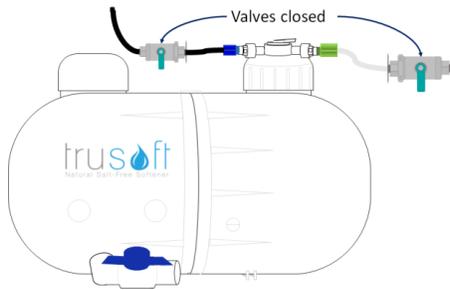
3. While holding pressure, gently pull the tubing away from the fitting to release.



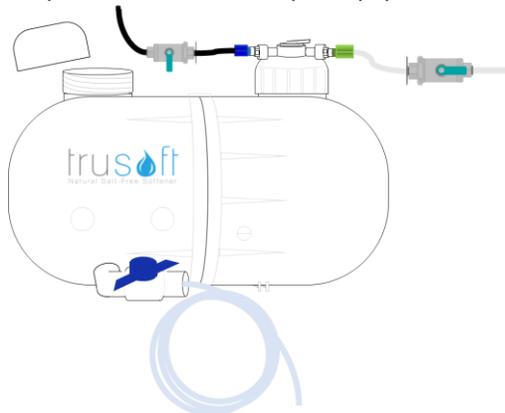
Note: Make sure to direct the fitting away from your face and body. A small amount of residual pressure may be in the tank and could cause a momentary release of fluid.

QUICK REFILL GUIDE

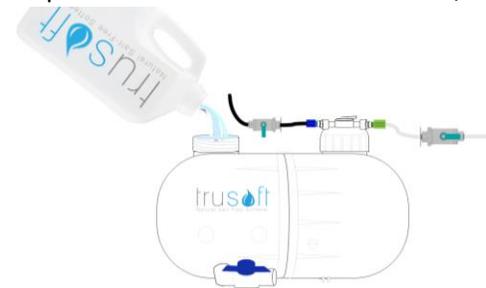
Step 1 – Turn off water using the two Shut-Off Valves; both valves must be closed.



Step 2 – Unscrew Fill Cap. Empty water through Drain Valve.



Step 3 – Fill tank with truSoft solution; top off with water if necessary. DO NOT LEAVE AIR IN THE TANK.



Step 4 – Reattach tubing and open shut-off valves.

