



## Permeate Pump Installation Instructions

### Mounting of Permeate Pump

1. Mount the permeate pump mounting clip next to the RO system, approximately 5" from the side or top. **IMPORTANT: When mounted, the "permeate OUT and brine OUT fittings should be on top. Note the arrow on the body of the permeate pump. Arrow should be pointing UP.** This step is **VERY IMPORTANT** for proper functioning.
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### MOUNTING ORIENTATION



**CORRECT**



**INCORRECT**

### Installing the Permeate Pump

2. Shut off feed water and turn off reserve tank valve. Relieve residual pressure by locking the faucet valve in the open position.
3. Locate the "TO DRAIN" tube on the RO System. Disconnect this line from its fitting on the RO System and insert that end into the fitting on the permeate pump labeled "BRINE OUT". Connect a new length of tubing to that fitting and connect it to the fitting on the permeate pump labeled "BRINE IN". The "Brine OUT" fitting should now be connected directly to the drain, and the "BRINE IN" fitting connected directly to the RO System drain out.
4. Locate the product water (permeate) tube exiting the membrane housing leading to the "TANK" side of the automatic shut-off valve. This tube will exit the membrane housing from a fitting next to the drain out fitting. Remove that length of tubing, and connect a new length of tubing between that fitting and the "Permeate IN" fitting on the permeate pump.
5. Connect a new length of tubing, from the automatic shut off valve fitting with you just disconnected, to the "Permeate OUT" fitting on the permeate pump. The product water fitting on the RO System should now be connected to the "Permeate IN" fitting on the permeate pump, and the "Permeate OUT" fitting should be connected to the "Tank" side of the automatic shut off valve.
6. If installing a new automatic shut off valve, note the makings on each side of the shut off valves and match up when replacing.
7. Turn on feed water supply and open reserve tank valve. The Permeate Pump should begin cycling. An audible clicking sound will be heard as the pump operates. This is normal.  
*Important:* If pump is not cycling (clicking), make sure all connections are made correctly and that all trapped air has been bled from the lines.

**NOTE: TO TAKE FULL ADVANTAGE OF YOUR NEW PERMEATE PUMP YOU MAY NEED TO INSTALL A LARGER FLOW RESTRICTOR AND AUTOMATIC SHUT-OFF VALVE.**

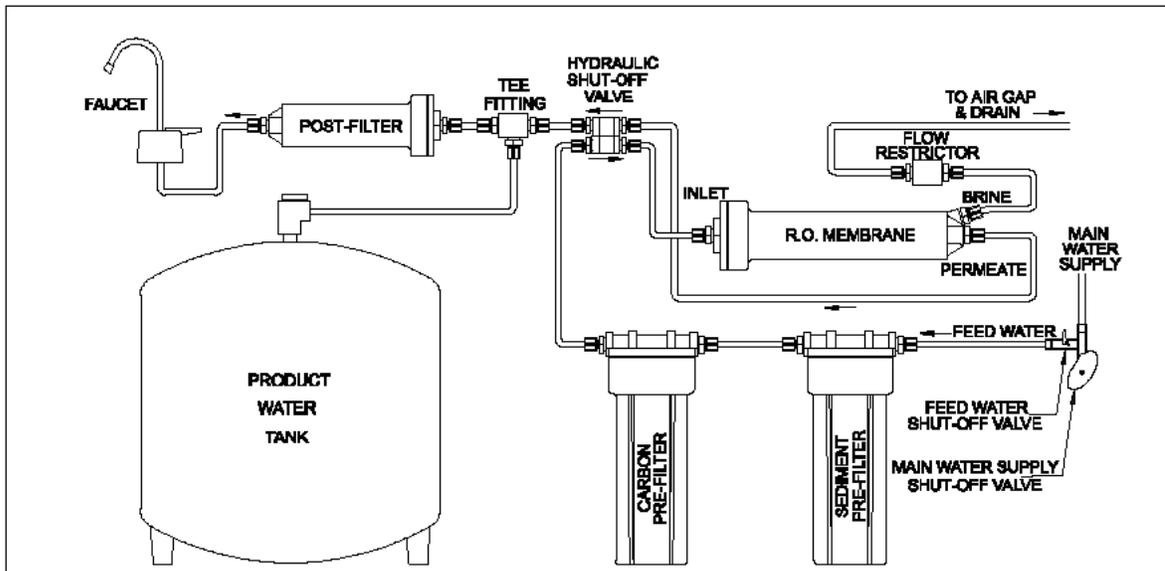


FIGURE 4. TYPICAL R.O. SYSTEM BEFORE INSTALLATION OF PERMEATE PUMP

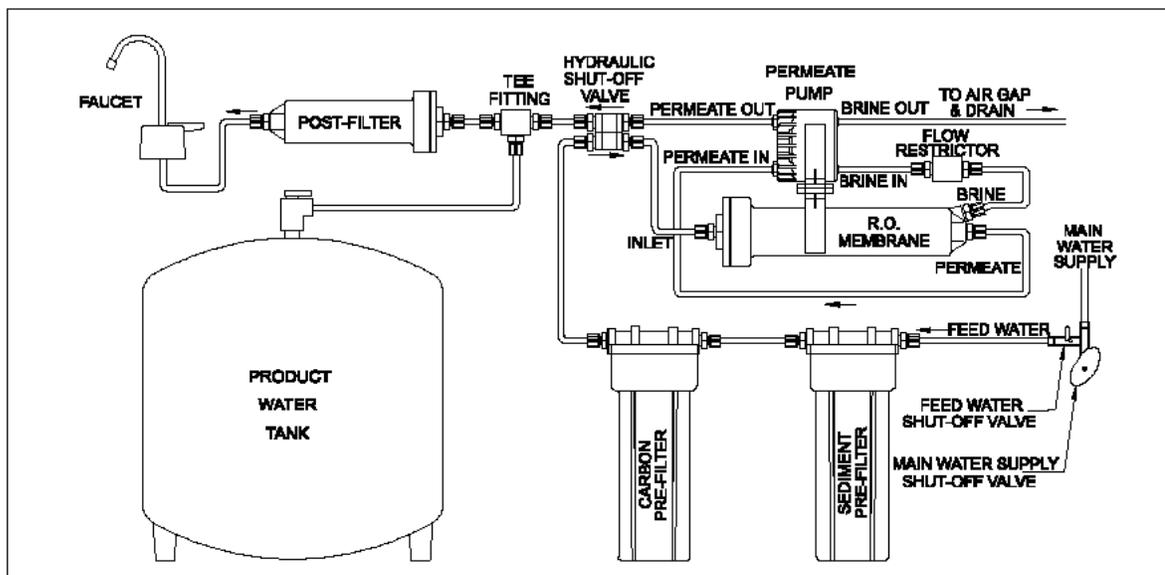


FIGURE 5. TYPICAL R.O. SYSTEM AFTER INSTALLATION OF PERMEATE PUMP WITH HYDRAULIC SHUT-OFF VALVE.