

Removing the Automatic Shut Off Valve (ASV) from Permeate Pump Equipped Home Master® Reverse Osmosis Systems

Tools Required

Tube-cutter or Scissors

Towel

1. Clear away a workspace under the sink near the location of the Home Master® RO System.
2. Turn off the water feeding the Home Master® RO, by closing the ball valve located on the water line, or by closing angle-stop feed water valve clockwise. If present, the angle-stop will be located on the wall under the kitchen sink in close proximity to the Home Master® RO. Either method will work. For UV equipped systems, disconnect power adapter.
3. Close the reserve tank valve located on top of the reserve tank. When closed the blue handle will be perpendicular to the water line.
4. Depressurize the system. Flip up the handle on the RO sink spigot so that it locks into place, and dispenses water until it no longer flows. If you have successfully shut off the water this should occur within a few seconds. If water still continues to flow, repeat steps 2 & 3.
The system is now depressurized; continue to leave the RO sink spigot handle in the open position.
5. Locate ASV found at the heart of the system. The ASV flows in a “U” pattern. So the inlet and outlet are next to one another on each side.
6. **The Top Side of the ASV.** Notice how the water flows from the prefilter into the ASV port labeled “IN,” then “OUT” to the membrane housing cap.
7. Remove the tube from the ASV port labeled “IN” and connect it to the elbow at the top cap of the membrane housing this way the water flows from the prefilter directly into the membrane housing.
8. **The Bottom Side of the ASV.** Notice how the long tube originating at the permeate pump port labeled “Permeate OUT” connects to one port on the bottom side of the ASV and the other port next to it connects to either a Tee, or a UV filter, depending on your model. Remove the long tube originating from the permeate pump port labeled “Permeate OUT” from where it connects to the ASV and connect it directly to either the Tee, or to the UV filter.
9. Remove the ASV and the two tubes still connected to it, allow it to air dry, place in a clean plastic bag and set aside in a clean safe place. (You may discard this part once you’re satisfied with the new configuration.)
10. Pressurize the Home Master® RO. For Home Master® RO UV equipped systems first connect power adapter to UV filter so the UV filter cap illuminates. Make sure entire system is dry. Double check to make sure all valves are in the closed position, except for the main angle-stop valve and RO faucet, which should be open. SLOWLY open the EZ adapter ball valve. You should hear water rushing through the system. A trickle of water should flow from the RO Faucet after 2-20 minutes and pulse in time with the permeate pump action. Close the lever on the RO faucet after the trickle runs clear, and allow the system to pressurize. It may take a few minutes to fully pressurize and shut off automatically. When the system has pressurized and shuts off automatically; (IMPORTANT STEP) dry unit thoroughly, gently tug on each connection and check for leaks. Once you have determined that the connections are sound and water tight, then open the reserve tank valve slowly. Allow reserve tank to fill for 2.5 hours or until full. END

