



## Installing an Automatic Shutoff Valve

Automatic shut off valves (ASOV) stop all flow of water to the RO membrane when water flow in the purified water outlet is stopped by a float valve, a full pressure tank, or by any other means. Buckeye provides several different styles of ASOV's – some have a water flow that travels straight through the body of the valve (Style A), and some that have a horseshoe flow pattern (Style B).

For ease of discussion, let's call the four ports in the automatic shutoff valve:

- High pressure-in (marked "in")
- High pressure-out (marked "out")
- Low pressure-in (unmarked on Style A; marked "Tank" on Style B)
- Low pressure-out (unmarked on Style A; marked "Tank" on Style B).

In general, water should flow through the prefilters (typically a sediment filter and carbon filter) to:

- High pressure-in port, to
- High pressure-out port, to
- RO housing in port, to
- RO exit ports.

Note the RO housing has two exit ports; the permeate (purified water) port is near the center of the end of the housing. The waste water port is near the edge of the same end of the RO membrane housing.

Tubing should be installed to go from the permeate port to

- A check valve, (the check valve may be built into the elbow fitting already installed in the port) to
- Low pressure-in port on Style A ASOV, or either port marked "Tank" on a Style B ASOV, to
- Low pressure-out port (Style A), or the other "Tank" port (Style B), to
- DI housing (if you have one), to
- Your final use.

**Troubleshooting:** If the ASOV fails to operate, first assure that the outlet of purified water from your system (e.g., faucet, float valve, ball valve) is not leaking. Assure that the check valve is not leaking. Next, tap the ASOV several times with the handle of a screwdriver – the internal mechanism sometimes sticks on first use. Next, with the system running, tilt the entire system so that the ports on the ASOV are vertical. Again tap on the ASOV to dislodge any trapped air. Rotate the system 180 degrees and repeat.



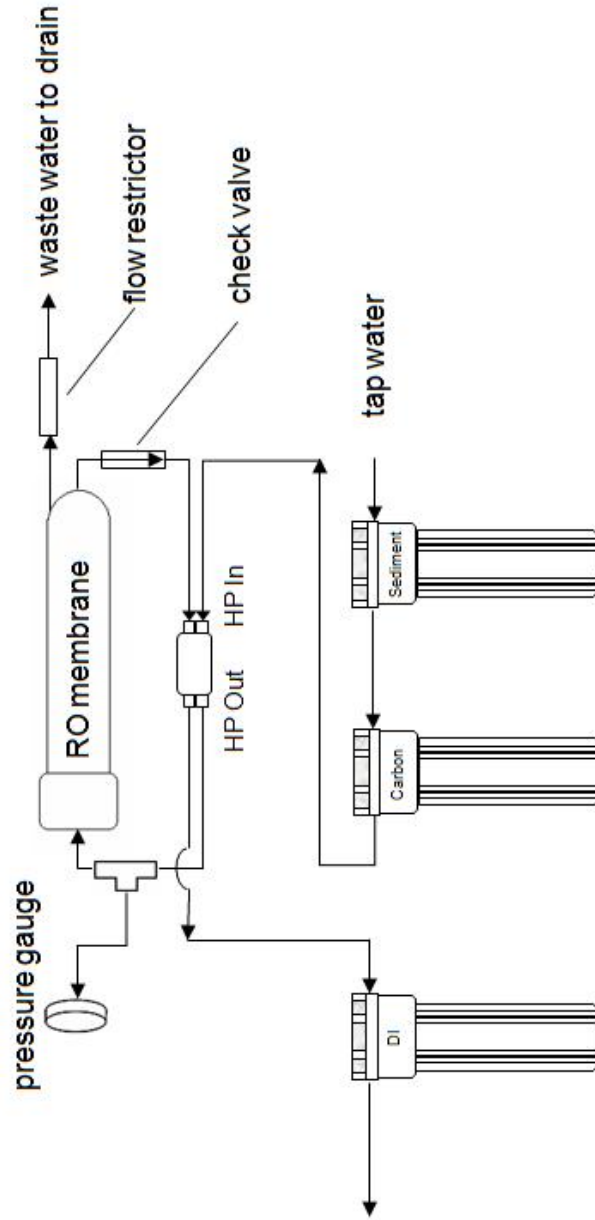
Style A ASOV



Style B ASOV



# Typical Configuration Standard (“Type A”) ASOV



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# Typical Configuration High Pressure ("Type B") ASOV

