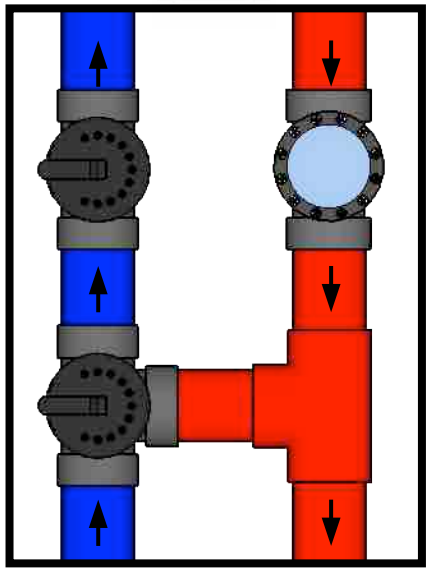
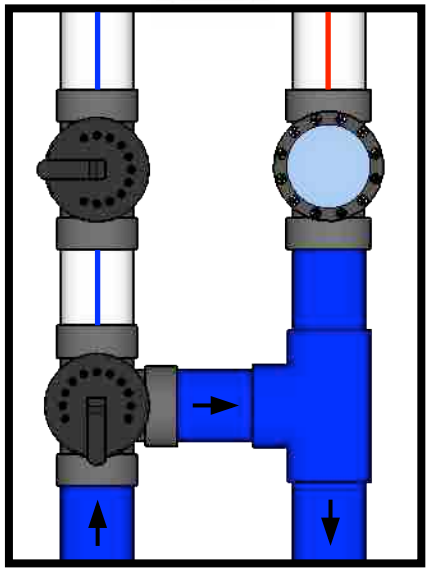
GUIDE TO SOLAR POOL HEATING MANIFOLDS

(For Left Bypass Manifolds)



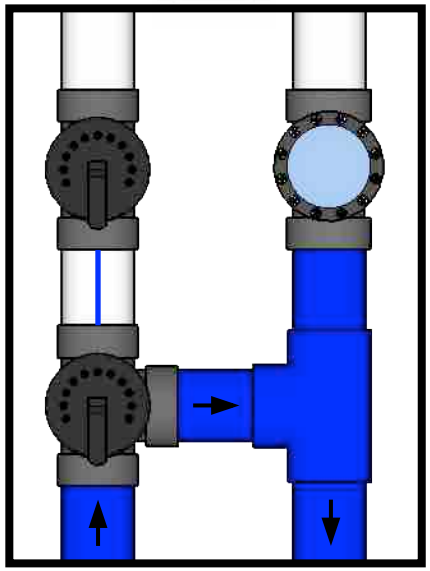
SOLAR ON

The solar pool heating system is on. The 3-way bypass valve and 2-way isolation valve are open, allowing water to go through the solar panels to heat the pool. The 1-way check valve allows water to come down from the roof.



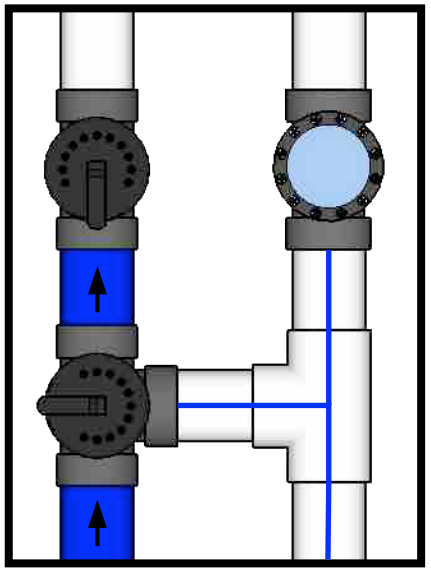
SOLAR OFF

The solar pool heating system is off. The 3-way bypass valve is closed, bypassing the solar panels. A tiny hole in the 3-way valve allows the panels to drain when the pump is off. A small amount of water passes through the panels when the pump is on. The 1-way check valve prevents water from going backward through the system.



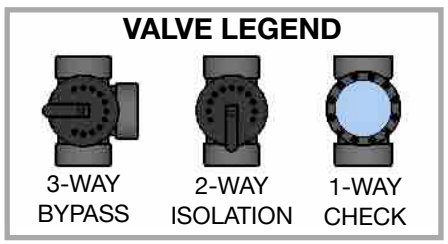
SOLAR ISOLATED

The solar pool heating system is completely isolated. This position is for service purposes and long-term shutdown of the system. Water bypasses the solar panels. The 2-way isolation valve and one-way check valve prevent any water from reaching the roof. *Whenever the isolation valve is closed, it is critical that the 3-way solar valve is in the closed position as pictured. See note below.*



PUMP DEADHEADED

Danger! In this position the solar valve is open, but the isolation valve is closed. There is nowhere for the water to go and dangerous pressure may develop in your pool system. You may also destroy your pool pump because it is "deadheaded" meaning water is trapped on the pressure side of the pump.



Note: Your 3-way valve may by automated with a motorized actuator. Do not attempt to operate a motorized valve by hand. You could destroy the actuator. Always use the automated controller to operate motorized valves if present. When isolating your solar panels, be certain that your automated controller will not attempt to turn the solar 3-way valve on.