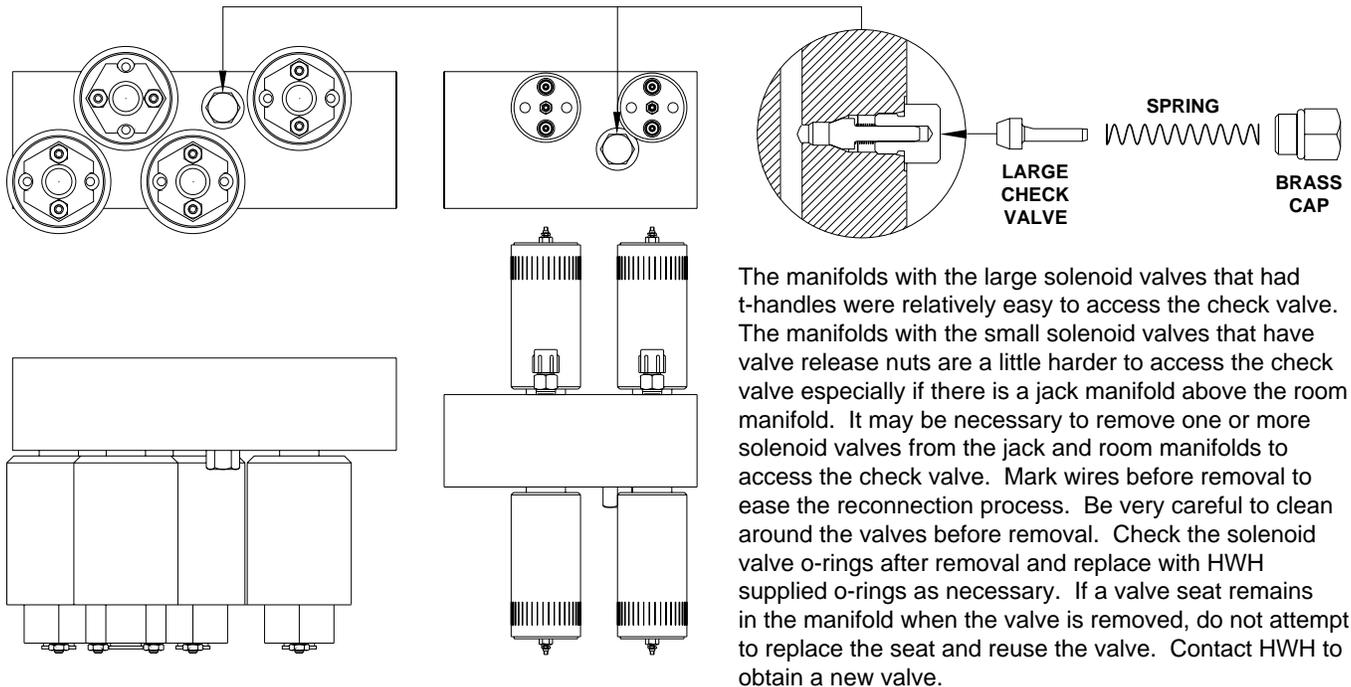


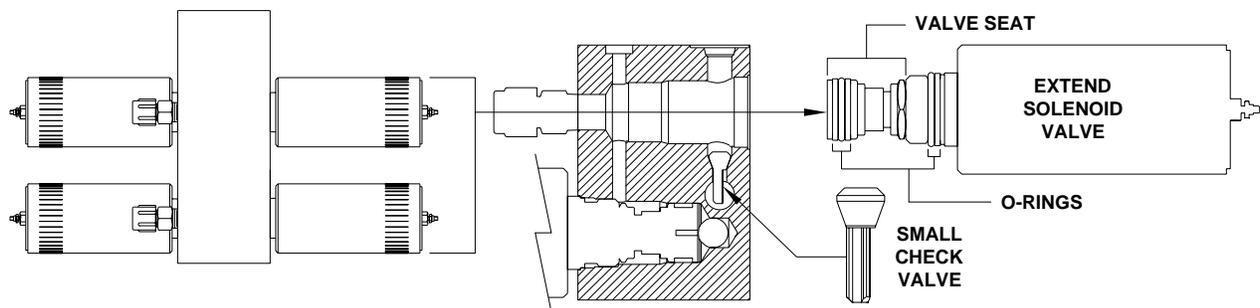
INSTRUCTION SHEET - ROOM EXTENSION MANIFOLD CHECK VALVE REPLACEMENT

This kit contains the check valves for the older style room manifolds that had only one check valve for the manifold no matter how many functions the manifold has and the new style manifold that has a check valve for each function. The kit also contains solenoid valve o-rings in case they are needed. If they are not needed, it would be a good idea to keep them and not throw them away.

The larger check valve, the brass cap and the spring are used on the older manifolds with a single check valve for the manifold. The smaller check valves ARE NOT used and can be discarded. The stem of the check valve slides into the cap with the spring over the stem between the cap and check valve as shown.



The manifolds with the large solenoid valves that had t-handles were relatively easy to access the check valve. The manifolds with the small solenoid valves that have valve release nuts are a little harder to access the check valve especially if there is a jack manifold above the room manifold. It may be necessary to remove one or more solenoid valves from the jack and room manifolds to access the check valve. Mark wires before removal to ease the reconnection process. Be very careful to clean around the valves before removal. Check the solenoid valve o-rings after removal and replace with HWH supplied o-rings as necessary. If a valve seat remains in the manifold when the valve is removed, do not attempt to replace the seat and reuse the valve. Contact HWH to obtain a new valve.



For the new manifolds with individual check valves for each function, the cylinder extend valve(s) have to be removed to replace the check valve(s). The larger check valve, cap and spring ARE NOT used and can be discarded. The cylinder extend valves are positioned over the pump reservoir. **ONLY ONE SOLENOID VALVE SHOULD BE REMOVED AT A TIME.** The check valve for that function and the solenoid valve should be reinstalled before proceeding to the next function. Clean around the valves before removal. If a valve seat remains in the manifold when the valve is removed, do not attempt to replace the seat and reuse the valve. Contact HWH to obtain a new valve. Mark the wires before removal to ease the reconnection process. Check the solenoid valve o-rings after removal and replace with HWH supplied o-rings as necessary. Place a rag over the solenoid valve port and **VERY BRIEFLY** run the pump using a room control switch. This should pop the check valve out into the solenoid valve port. **MAKE SURE THE OLD CHECK VALVE IS ACCOUNTED FOR BEFORE CONTINUING.** Slide the new check valve down into the check valve port and replace the solenoid valve. Repeat for other check valves as needed.