

CP-11 CHECK VALVES

If your Clark pump suddenly has pressure only on one stroke it is typically a small piece of debris in one of the check valves, which causes it to leak. This typically happens on a new install due to a small piece of Teflon tape getting stuck in the valve or after a filter change where a small piece of debris gets into the Clark Pump.

Inspecting the Check Valves for debris requires you remove the Cylinder from the base, which usually means removing the Clark pump from its mounting bracket. Note that the cylinders are full of water so be prepared. Once you can remove the cylinder assembly, which will come off in one piece, there are three o-rings that seal this part; a large Center Block o-ring and the two smaller o-rings for the check valve ports. It is quite common for all three of these o-rings to stay in place when the Cylinder is removed.

Note that the drawing below shows the valves pulled out of the Center Block, they will both be in place when you remove the Cylinder. One check valve will have a round hole showing (the one on the left in the picture below) and you will be able to see the head of the white valve when you look inside. You can clean this valve with a q-tip or something similar. The other valve will need to be pulled out to clean it. Grab the retainer with a pair of needle nose pliers and pull it out, it's a press fit, but it will come out easily. The valve components are likely to come apart but it is easy to reassemble and install. Clean both the inside of the hole where you removed the valve and all the individual parts. Reassemble the valve retainer, washer, spring, valve poppet and carefully grab the end of the white shaft where it comes out of the valve retainer and push the valve back into place. Check to insure you cannot see the end of the spring poking out around the washer; if you can repeat the above process. If the Spring is not installed correctly the valve will not work. Replace the o-rings if required and reassemble everything.

