

CP-6 OLD STYLE END CAP REPLACEMENT

Two styles of Clark Pump end caps have been used. The old style cap pushes in from the square end of the cylinder, which is the same diameter from end to end, and the J -tube compression fitting is “down in a hole.” The new style is installed from the round end and kept in place by a black anodized aluminum retaining ring on the end of the cylinder. Determine which style you have before ordering parts.

The End Cap Replacement Kit, part number KIT -HP-ECK, contains two end caps, two J -tubes, and all the fittings and O-rings needed. Be sure to specify that you need the old style caps.

The OLD STYLE cylinder end cap (p/n HP-CYL-ECO) must be removed as follows: Remove the stainless steel J-tube. Remove the cylinder from the center block by removing the four large allen head bolts. Hold the corresponding allen head bolt on the opposite cylinder with a second allen wrench while loosening. The cylinders need to be pulled about ½ inch from the block , and will then lift right off. Some water will spill out. Take care not to damage the piston rod or the valves and pilot valve pins, which should be left in the center block. The piston will still be in the cylinder. Use a piece of wood to push the end cap into the cylinder and out through the square end. The piston will come out with the end cap. Roll a new O-ring (p/n SO-HPP-CT) over the threads on the new compression fitting (p/n PL-MTS-3/8X1/2B) and screw it into the end cap. The O-rings will seal the pressure easily and the fitting does not have to be tight, just snug. Put new O-rings on the end caps and lubricate them with water or water maker grease. Slide the new end caps in and tap them home with the stick, making sure that the compression fitting is at “12:00 o’clock”. Put the pistons back in the cylinders with the rod socket facing out. Put the cylinders back on. The pistons will locate themselves in the right spot when you put the cylinders on.

If no corrosion is noted, the compression fitting on the cylinder base can be used over. If it is pitted or corroded, remove it. Some Clark Pumps will require 5 wraps of Teflon tape on the threads of the compression fitting, others will require a fitting with an o-ring seal. Check which version you have and screw it into the cylinder base fairly tightly. Install the new J-tubes (p/n HP-CYL-SST) (you can’t use the old ones over again). Make sure that the tubes are the correct length; they must reach down near the bottom of the socket in both compression fittings. Occasionally, you need to trim one end or the other to get it to enter both sockets. Tighten the compression nuts, (p/n PL-HWR-1/2HN) to compress the ferrules (p/n PL-HWR-1/2FR) using two wrenches. You may have to get creative with the wrenches because the fitting is down in a hole. At the factory we have a crowfoot wrench to do this.

Torque the j-tubes to 85 ft-lbs to ensure a proper seal.

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