

CP-9 HIGH PRESSURE FITTINGS

Older versions of the Clark Pump used $\frac{3}{8}$ " NPT tapered pipe fittings in the high pressure inlet and outlet ports. These fittings used Teflon tape to seal the threads. The elbow fittings which fit into these ports must be turned to point in the desired direction during assembly or installation. This sometimes resulted in over tightening, causing cracks in the center block or valve body. If your pump has these fittings, then it is best to have the pump upgraded at this point. See "CP-2 Clark Pump Exchange Program" for more details.

Current production Clark Pumps use $\frac{3}{4}$ " UNC threads with an O-ring, washer, and locknut type seal. The threads hold the fitting into the pump mechanically, but do not provide the seal. This allows the fitting to be turned in any direction without putting stress on the pump.

Install the high pressure O-ring type compression elbows as follows:

Screw the lock nut back towards the body of the fitting as far as it will go.

Push the washer and O-ring back until they are up against the locknut. The washer may be tight and some effort may be required to move it.

Screw the fitting into the Clark Pump until the threads are fully engaged and cannot be seen, and the fitting is pointing in the desired direction, but the O-ring is not compressed.

Using two wrenches, turn the lock nut until the O-ring is compressed and the locknut is snug. Do not over tighten. After the unit is in operation, if the O-ring leaks, it can be retightened slightly.

Place the compression nut on the hose followed by the ferrule. The ferrule should have the thick end inside the nut and the tapered end toward the end of the hose. Place the hose fully into the socket of the fitting and screw the nut on. Tighten the nut using two wrenches. A little grease on the threads will help in tightening. The compression nut should be tightened to 85 ft-lbs of torque. When tightened properly, the sharp end of the ferrule actually bites into the plastic hose slightly.

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