**FEATURES**

- Installs on MS, MSS, MK, MKS, MW and LK pumps to facilitate priming
- Comes with 3 - 10,000 PSI Needle Valves
- Easy to assemble (installation instructions below)

**SPECIFICATIONS****190600 & 190601 Cylinder Prime Drain Valve Kit Includes:**

Kit # (Qty)	640089 Drain Valve	680030 Adapter Fitting	680109 Seal Ring
190600	3	3	3
190601	1	1	1



640089\*



680030\*

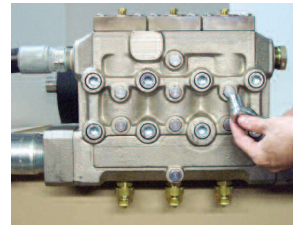
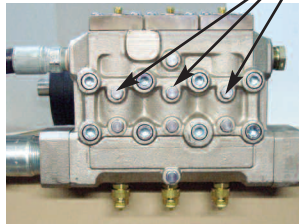


680109\*

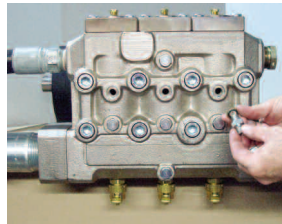
\*Not to scale

**INSTALLATION OF CYLINDER PRIME DRAIN VALVE KIT TO PUMP****STEP 1**

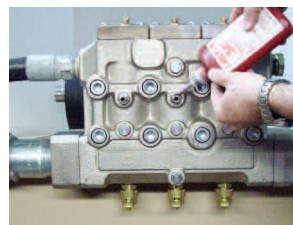
Using a 19mm, 6 point socket remove (3) PN 680115, upper manifold cylinder plug, 1/4 in G with PN F872041300 copper seal washer 1/4 in.

**STEP 2**

Remove plastic thread protector from PN 680030 1/4 in G x 1/4 in NPT nipple adapter and install Qty 3 with PN 680109 1/4 in seal ring. Using a torque wrench and deep well 19 mm socket torque PN 680030 to 14.7 ft. lbs.

**STEP 3**

Using Loctite primer 7649 spray the 1/4 in NPT threads of Qty 3 PN 680030. Then apply Loctite thread sealant 545 on PN 680030 1/4 in NPT treads.



General Pump  
is a member of  
the Interpump Group

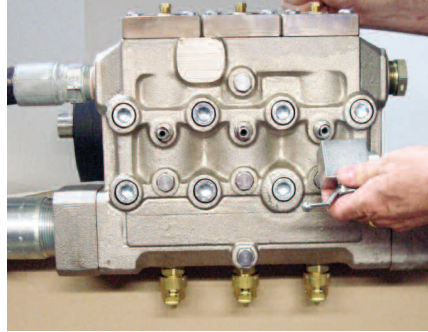
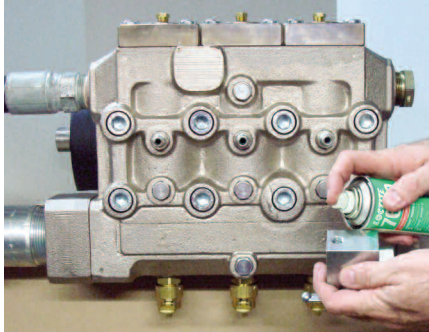
# 190600

## Cylinder Prime Drain Valve Kit

**GENERAL PUMP** *A member of the Interpump Group*

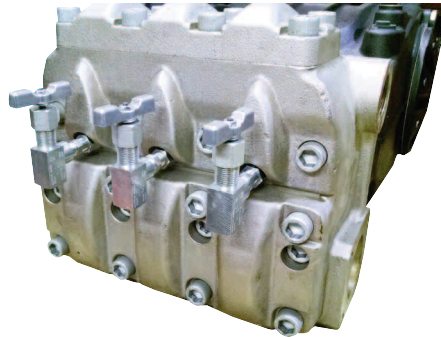
### STEP 4

Remove Qty 2 plastic plugs from 2 way 90 deg. ¼ in NPT cylinder prime drain valve PN 640089. Using Loctite primer 7649 spray inlet ¼ in NPT threads of PN 640089 and with cylinder prime drain valve handle in open position hand tighten.



### STEP 5

Using a 19 mm wrench to hold ¼ in G x ¼ in NPT nipple adapter PN 680030 in position use a large adjustable wrench to tighten each 2 way 90 deg. ¼ in NPT cylinder drain valve PN 640089.



## PRIMING PROCEDURE

Before starting the pump (first time or after winterizing “Draining & Blowing Out”) it is recommended that the system be properly primed by following these steps:

1. When you begin the bottom prime/drain valves will be in the closed position and the front cylinder prime valves are in the closed position.
2. Open each of the bottom prime/drain valves by flipping the lever down. This lifts the inlet valves which will allow fluid to flow into cylinders once the air is allowed to escape.
3. Open each of the front cylinder prime valves by positioning the handle in the vertical position. Once the fluid flows out of the valve in a steady stream then the cylinder is primed.
4. Close all valves, the pump is primed.

Ref 300678 Rev. B  
03-16