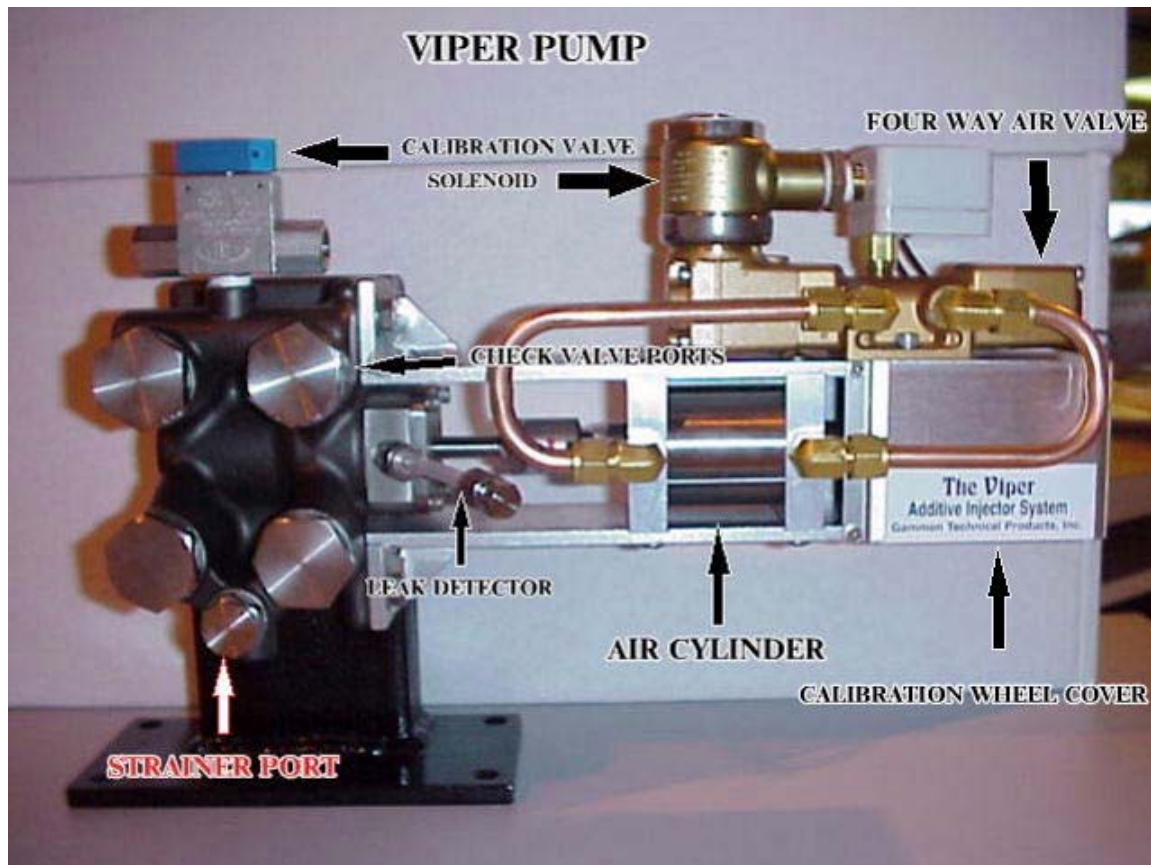
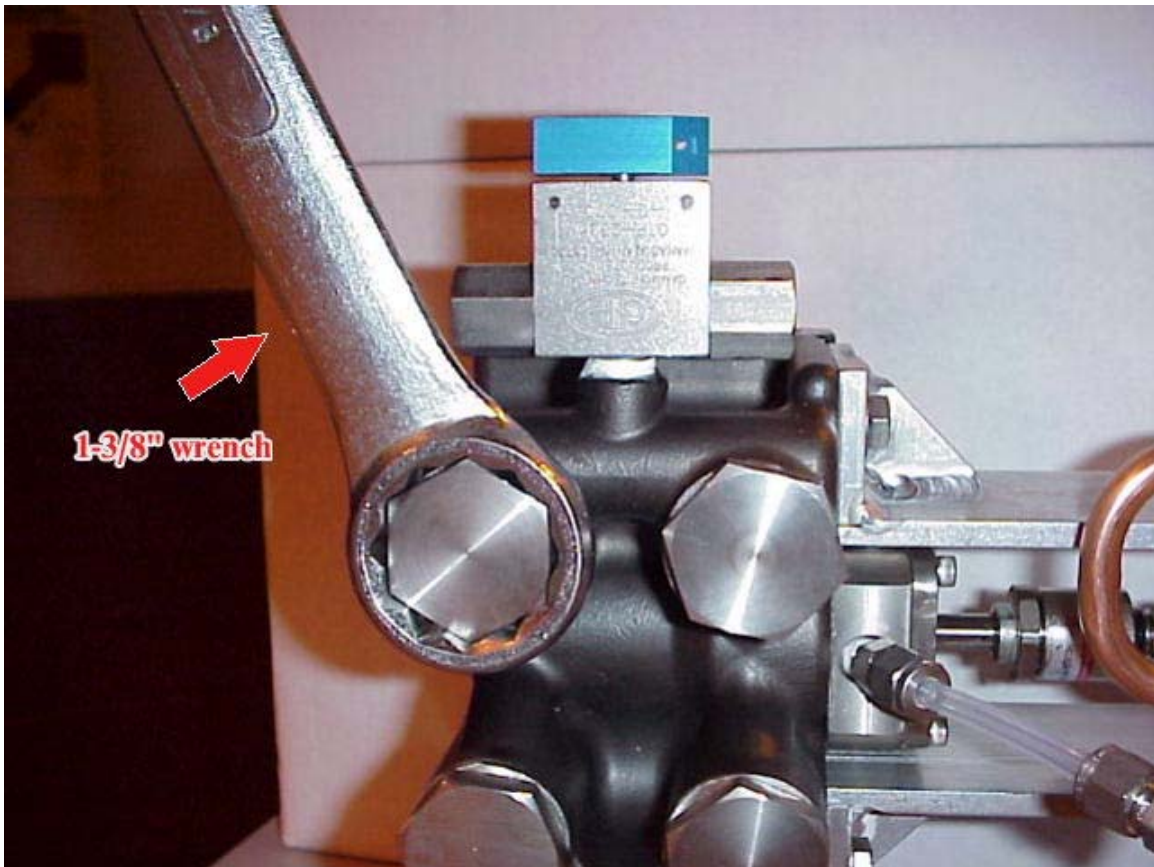


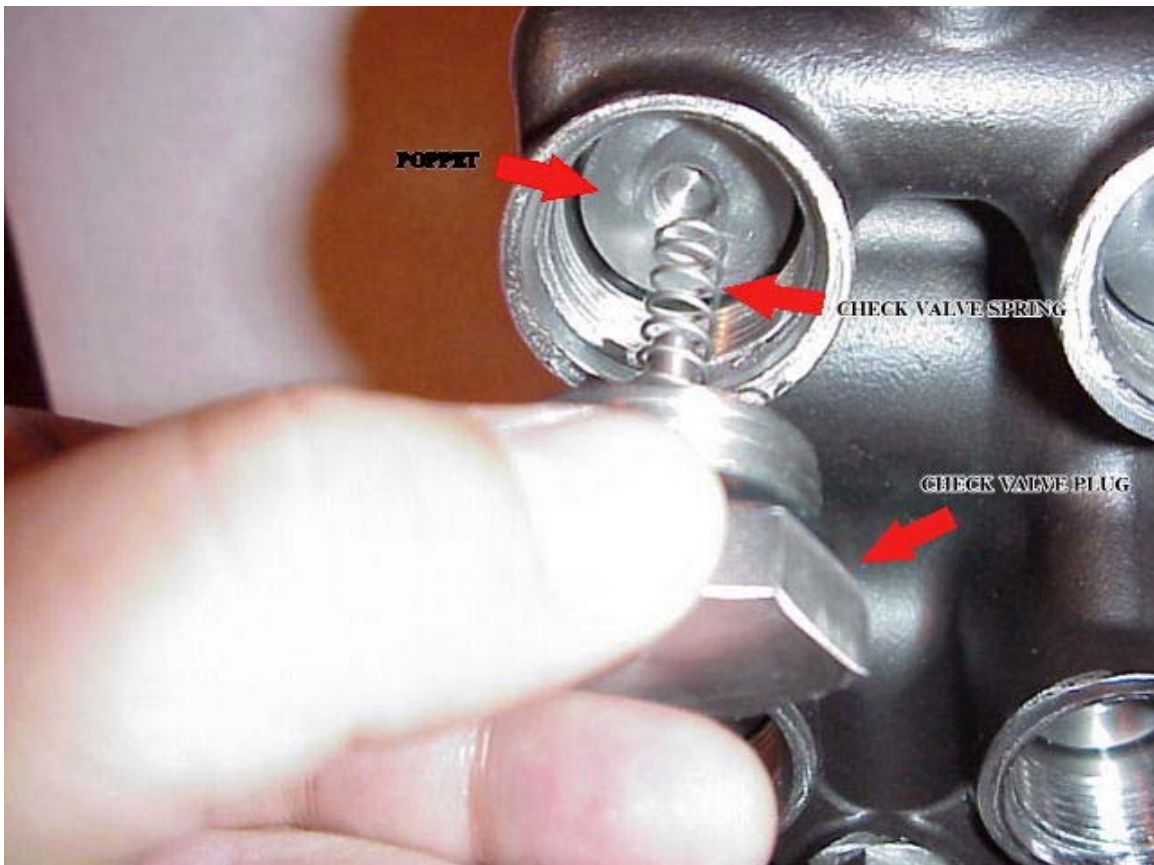
# VIPER PUMP CHECK VALVE REPLACEMENT

Familiarize yourself with the parts of the Viper pump. See below.





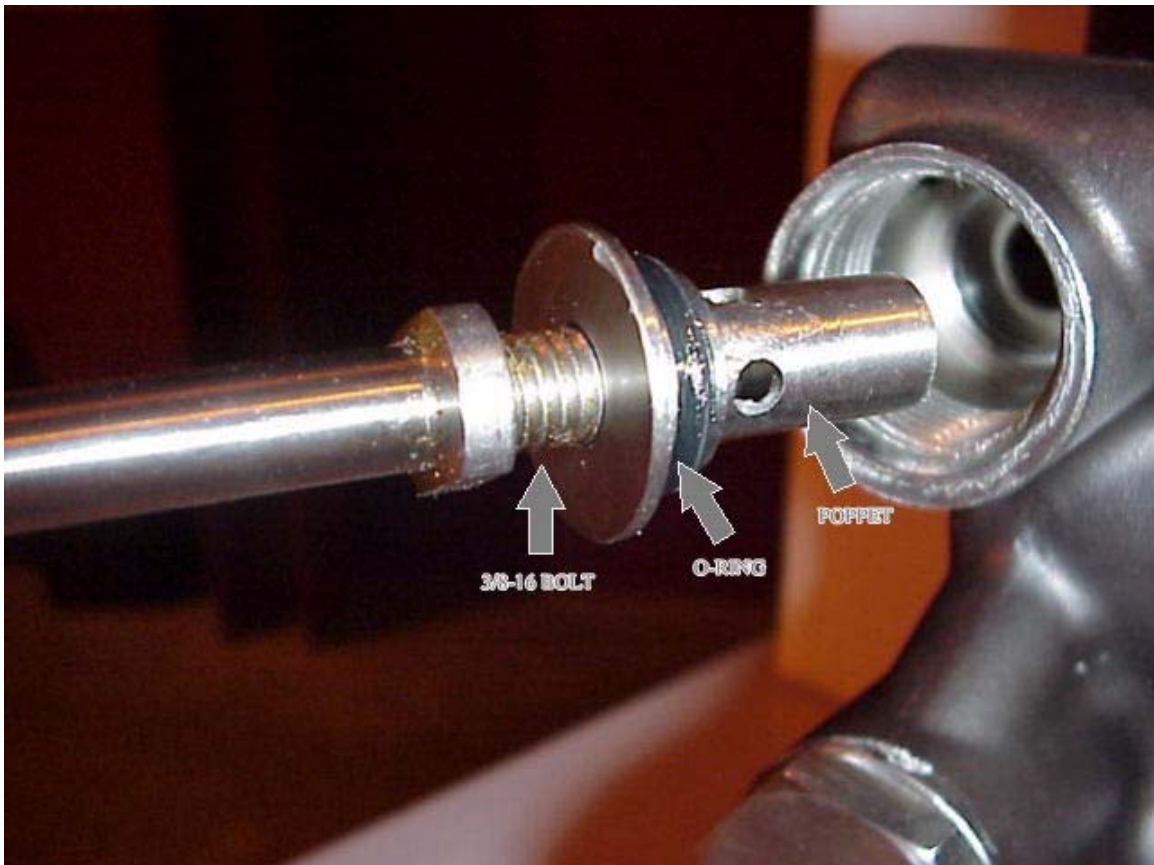
Remove the four check valve port plugs and springs. A 1-3/8" wrench is needed.

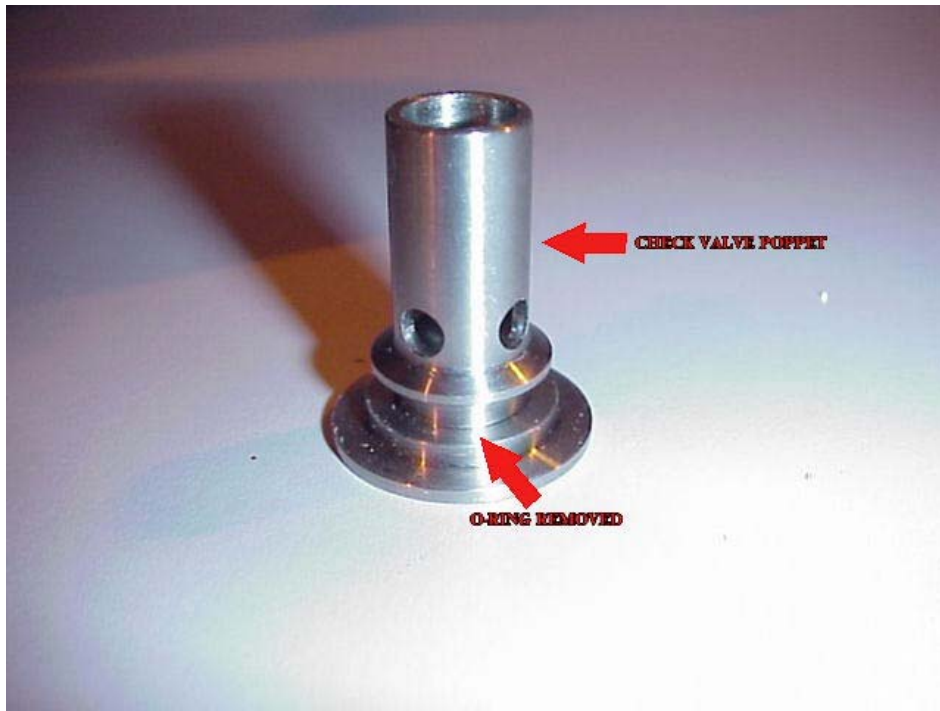






The center of the check valve poppet is threaded to ease removal.  
Use a 3/6-16 bolt to remove the check valve poppet.





Remove and replace the o-rings from each check valve poppet.

Install a check valve poppet into each port in the pump body.

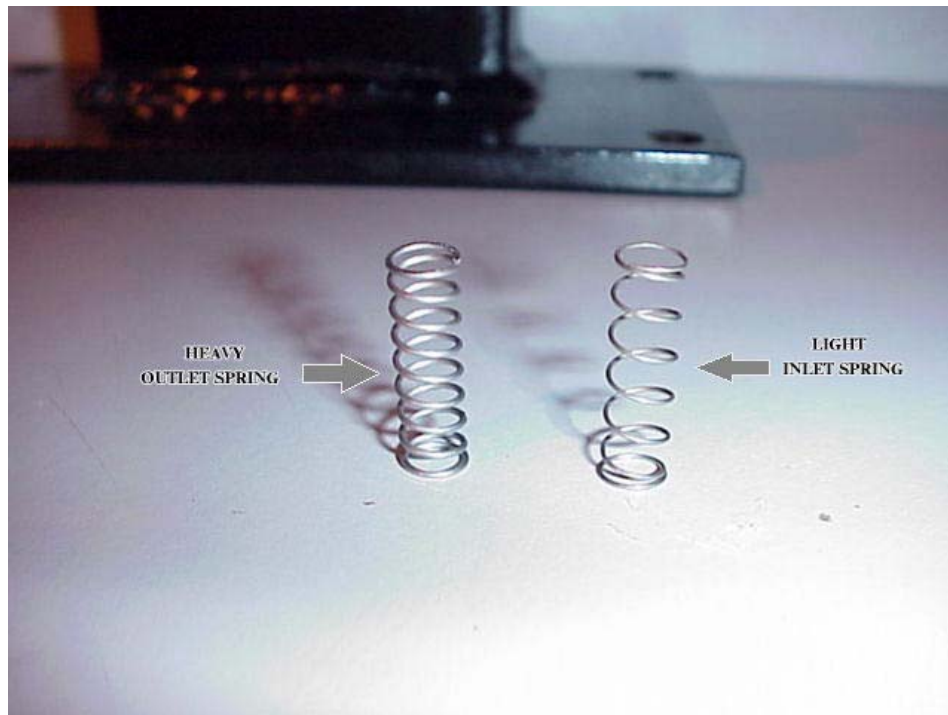
Install an inlet spring, light spring, on two of the check valve port plugs.

Install an outlet spring, heavy spring, on the last two check valve port plugs.

Thread the two inlet check valve port plugs into the pump body and tighten.

The bottom ports are the inlet ports.

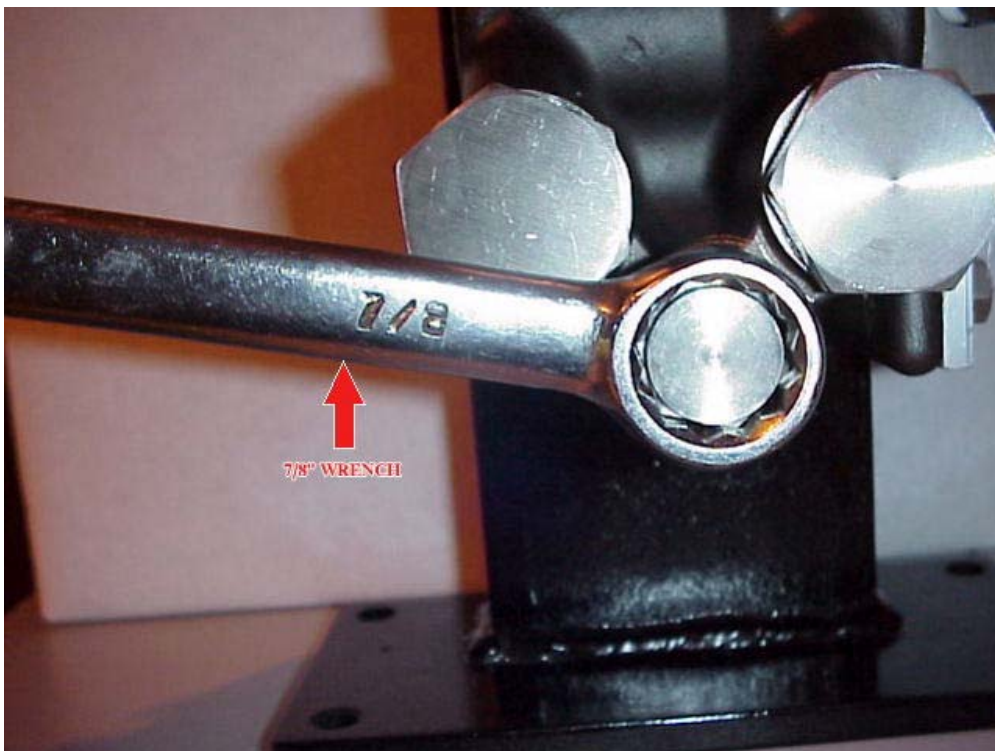
Thread the two outlet check valve port plugs into the pump body and tighten.



## VIPER STRAINER CLEANING AND O-RING REPLACEMENT



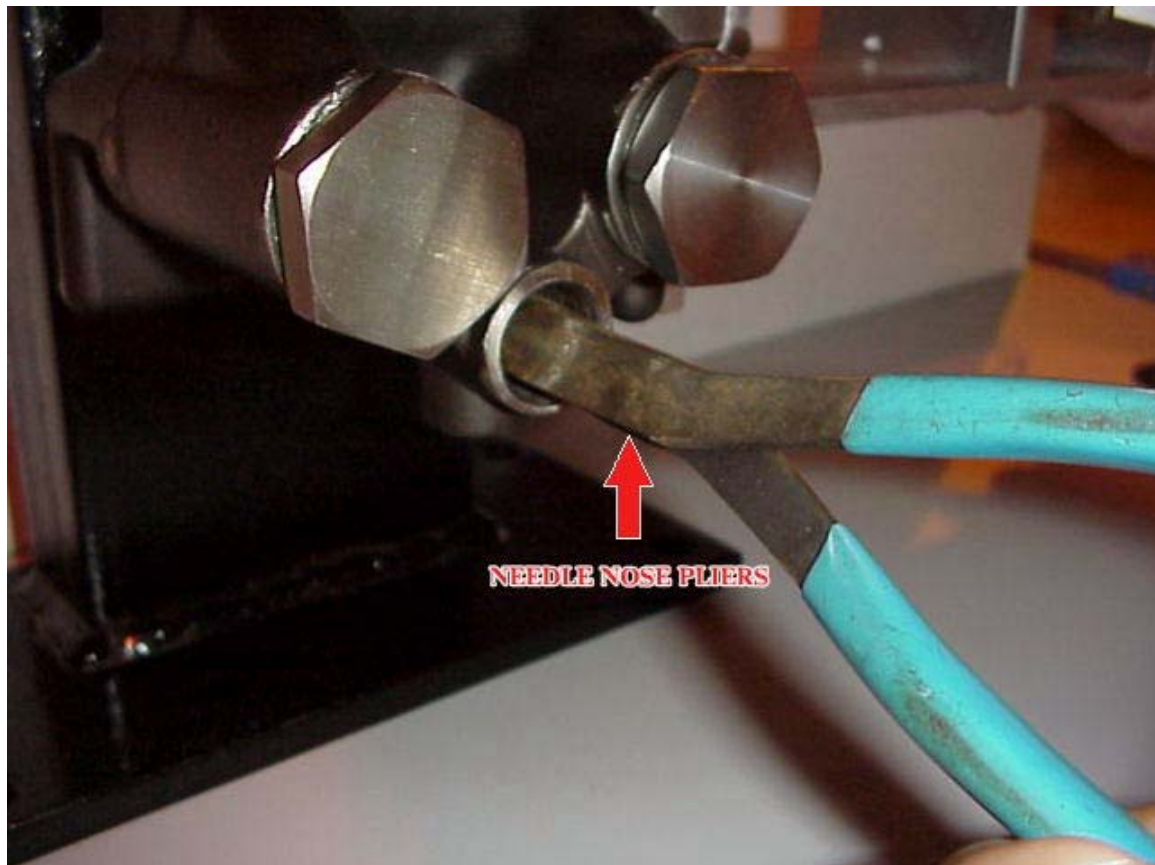
REMOVE THE STRAINER PORT PLUG. A 7/8" WRENCH IS NEEDED.

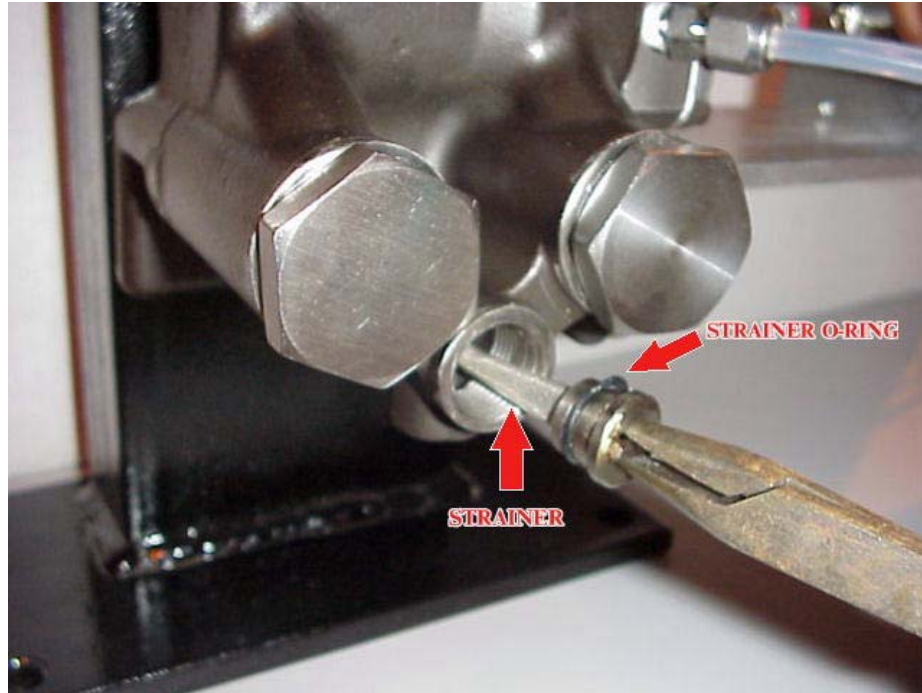






Use needle nose pliers to grasp the center bar on the strainer. Rotate the pliers and pull the strainer out of the pump body.





Remove and replace the strainer o-ring.  
Use the needle nose pliers to insert the strainer into the pump body.  
Rotate and push inward until the strainer bottoms in the port.  
Thread the strainer port plug into the strainer port in the pump body and tighten.

