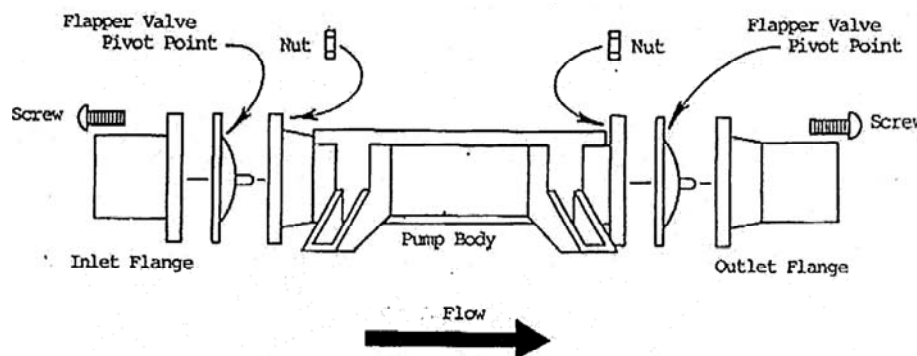


Installing Flapper Valves in a “500” Series Pump

- 1) Begin by noting which end is the inlet and which is the outlet. The inlet and outlet flanges are normally marked on the pump, but if the word “inlet” or “outlet” is not visible on the pump body, you can also determine which end is the inlet by noting that the two flanges have different lengths. (The length of the flange is measured from the end of the flange back to the six screws attaching it to the pump body.) The inlet is the shorter flange; the outlet, the longer.
- 2) First remove the six (6) screws attaching the inlet flange to the pump body. If the flange does not immediately come away from the body, gently pry it loose. Remove the old flapper valve that was sandwiched between the flange and the body.
- 3) Place the new flapper valve onto the inlet flange, orienting it so that the hinge portion of the valve is at the top of the pump. The flapper valves for the “500” series pumps have a round protrusion or “nib” on one side of the valve. The valve needs to be installed in the pump in such a way that this nib points in the direction of fluid flow.

This means that the nib points into the pump for the inlet valve and out of the pump for the outlet valve.

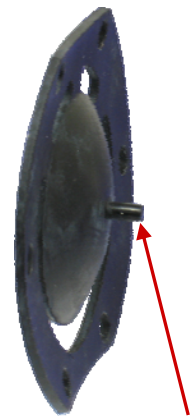
- 4) Push the screws through the inlet flange and through the holes in the flapper valve.
 - 5) Place the flapper valve against the body and screw the nuts onto the six attaching screws.
- Note:** Do not overtighten these screws, as it will cause the flapper valve to warp and not seal tightly against the pump flange. A snug fit (~15 in-lbs of torque) is sufficient.
- 6) Repeat these steps to replace the flapper valve for the outlet flange.



Questions

“How do I install the flapper valves in a “500” series pump?”

Does it matter which way the flapper valves are oriented?”



“500” Series flapper valve showing nib on one end.