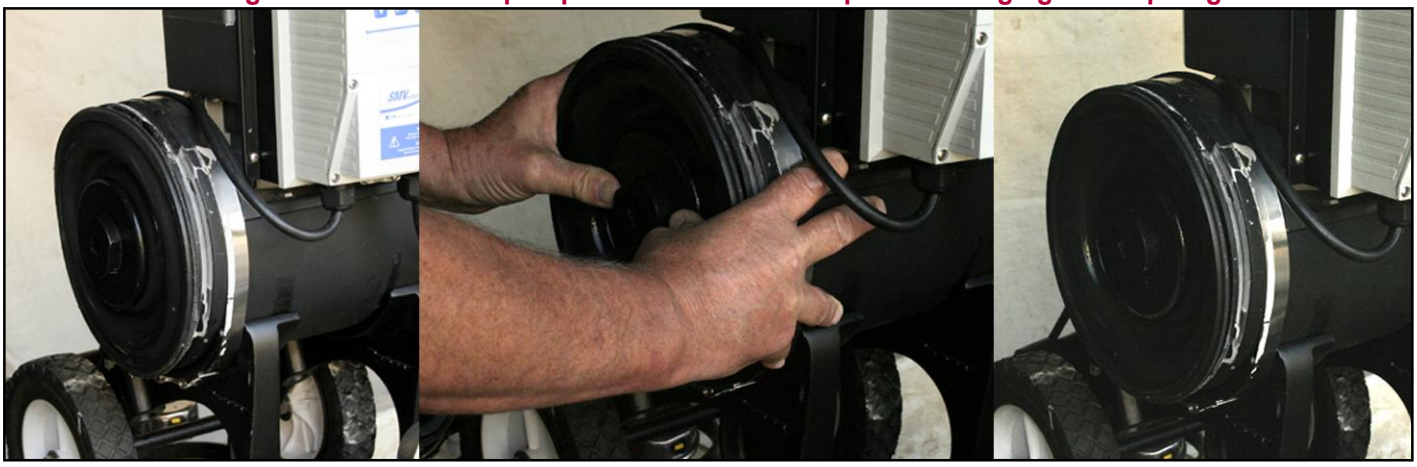
Changing The Diaphragms Of The Model 25200

Step 1. Using a strap wrench to loosen the 4 check valve unions, remove the suction and discharge port assemblies.

Rule 1. **Change only one diaphragm at a time.**

Step 2. Remove the Pump Base V Clamp by unscrewing the Tee Handle all the way.

Rule 2. **Before removing the old and installing the new diaphragm, make sure the piston is pushed back all the way into the pump frame. You can also use the VDF drive on slow speed to do it. This is important. It makes it easier to align and reattach the pump base and the V clamp after changing the diaphragm.**



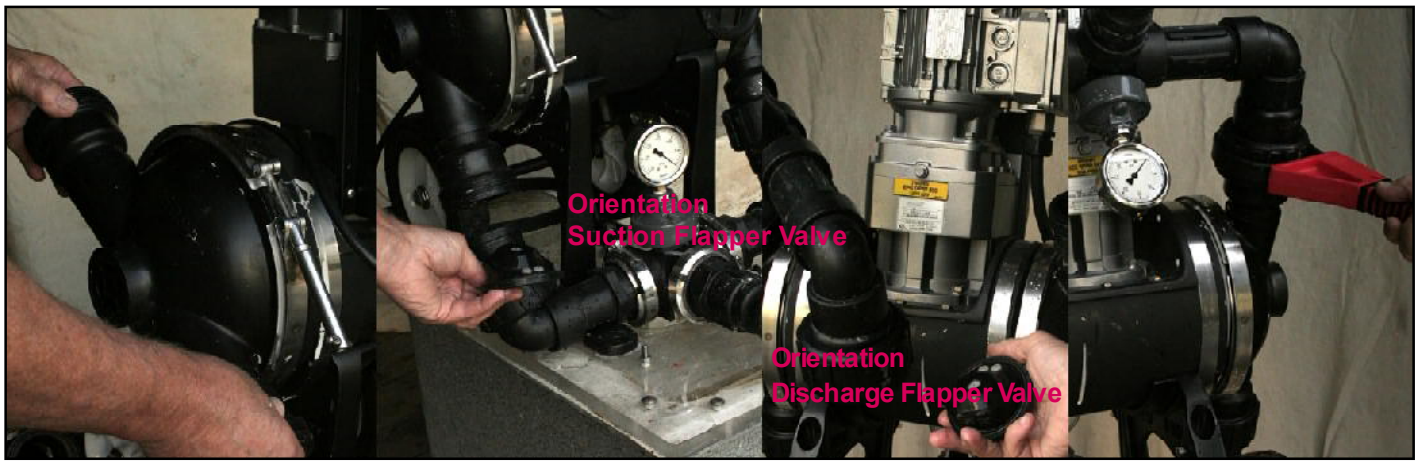
Step 3. Remove the Pump Base. Lay out all these parts for reassembly.

Step 4. Using a 1/2” drive or a crescent wrench unscrew the diaphragm retaining nut. Replace the old with the new diaphragm and reassemble the lower standard and retaining nut before screwing the assembly back onto the piston. Tighten the nut with the 1/2” drive or wrench.

Step 5. Clamp the pump base back in place. Using your body to hold the pump base in position will leave your hands free to install the V Clamp. Secure the V Clamp just tight enough to keep it in place but also allow rotation of the base.

Step 6. Repeat Steps 2-5 for the 2nd diaphragm.

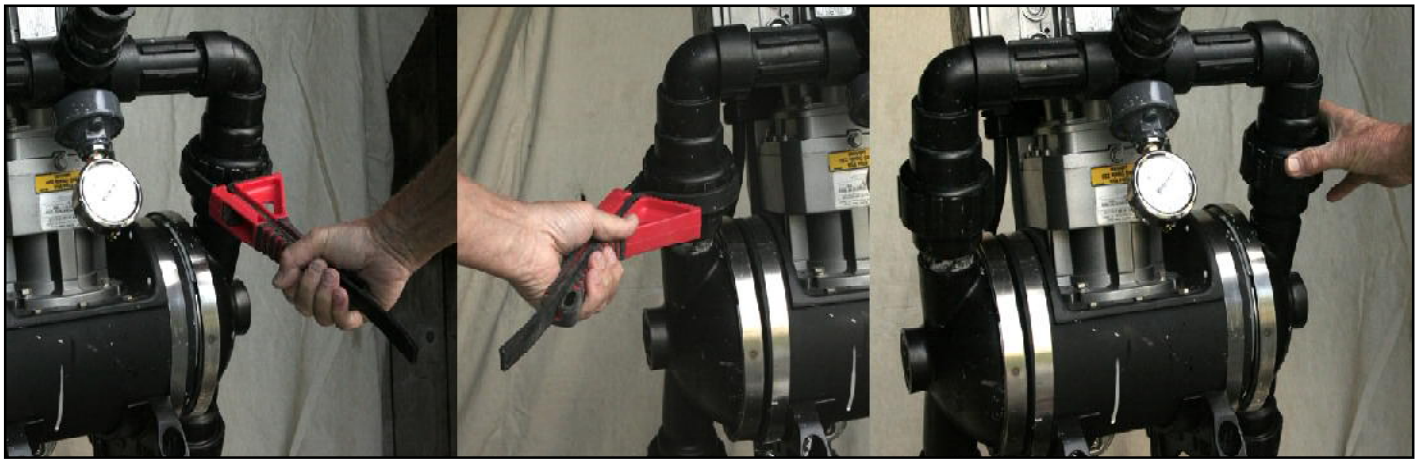
Rule 3. Make sure the flapper valves for all check valves are installed in the correct orientation.



Step 7. Align the 2 pump bases so the suction and discharge ports are parallel and install the suction and discharge port assemblies with the flapper valves oriented to open in the direction of flow and the flapper hinge at the vertical high point.

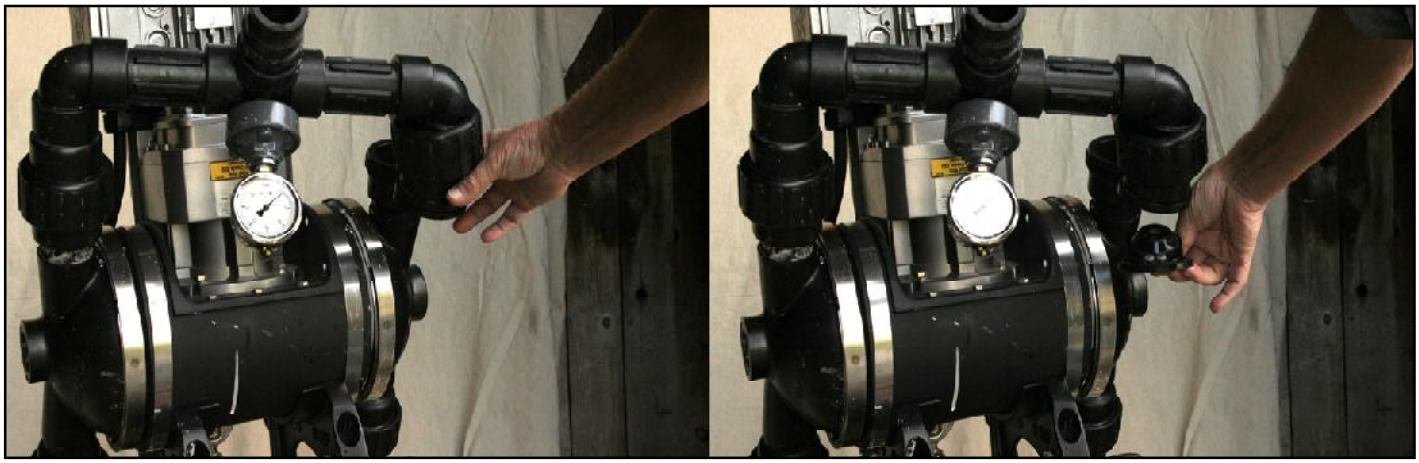
Rule 4. Don’t forget to tighten all check valve unions and completely tighten the V Clamps.

Changing The 160-G-302 Flapper Valves



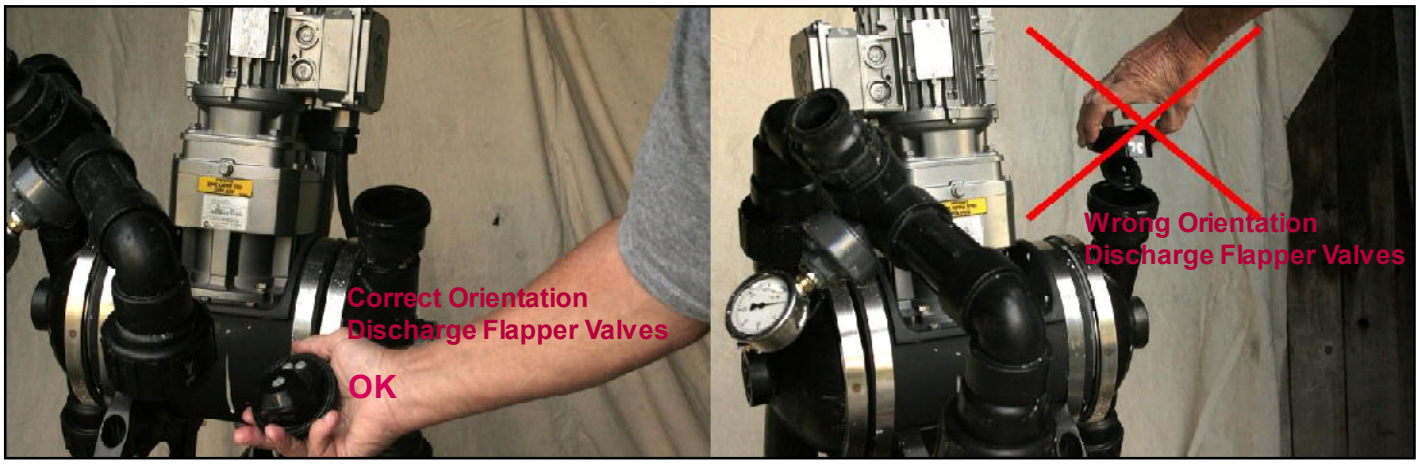
Step 1. Using a strap wrench, loosen all check valve unions.

Rule 1. **Change only one flapper valve at a time. Complete Step 2 for each valve before moving on to the next.**

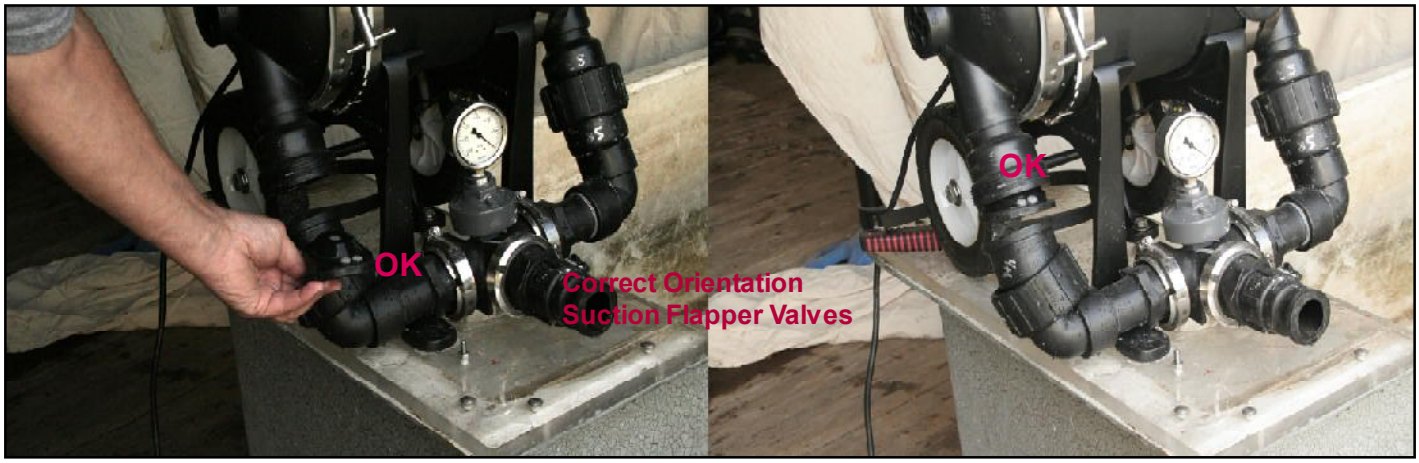


Step 2. Unscrew completely only one union at a time. Remove the old flapper and install the new one, securing the union before repeating the steps with another valve.

Rule 2. **Make sure you install the new valve oriented correctly.**



All flapper valves are installed so they open in the direction of flow and so the flapper hinge is at the high point of the valve.



Step 3. Repeating Step 2 for the suction check valve assemblies. Note the flapper orientation.

Step 4. Tighten all check valve unions with a strap wrench..

269P-150 Check Valve Assembled For Suction and Discharge

Important: In order for the pump to work the 269P-150 Check Valves must have the flapper valve oriented so it opens in the direction of flow and the flapper hinge is at the high side of the valve. Since the same check valve is used on the suction and discharge of the pump, the 160-G-302 replaceable flapper assembly was designed so it can be placed in the check valve oriented to open in either direction. When changing the flapper use the following pictures as a guide.

Pump Base

Suction Side

269P-150 Check Valve Assembled With Flapper Valve Oriented For Suction Side Of The Pump Base

Suction Port

Discharge Port

Discharge Side

269P-150 Check Valve Assembled With Flapper Valve Oriented For Discharge Side Of The Pump Base

Pump Base