PITCHER PUMP

Part Number: HPP10

INSTALLATION

Pitcher pumps are great for shallow wells with a water level of less than 20 feet from the bottom of the pump. (This is where the water is actually being pulled from.) The pitcher pump can be used to pump water from rain barrels or ponds. It can also be used as a drinking water pump to draw water from a well 20' deep or less. It attaches to common plumbing connectors, it is very easy to install, and it will provide years of trouble-free use with minimal maintenance.

CAUTION:

1. Carefully read and follow all safety instruction.
2. Do not allow pump to freeze. Doing so **will** void the warranty.
3. Only pump water with this pump.
4. Periodically inspect the pump.

Drop Pipe Installation

You will need a 1 1/4" steel pipe with threads or a 1 1/4" PVC pipe with a 1 1/4" male adapter.

- Screw a drop pipe to the bottom of the pump (drop pipe should be the same size as the connections on the pump.) Thread tape or a good quality thread sealant should be used on all pipe threads. (NOTE: Do not use thread tape with PVC pipe)
- Drop pipe should be submerged in at least 5 ft.
- Tighten drop pipe enough to prevent leaks. NOTE: Any small leaks will prevent the pump from priming.

Sealing Pipe Joints

- Use only thread tape or PTFE based joint compound for making metal to metal connection on the pump itself.
- Make sure that all pipe joints in the suction pipe are air tight as well as water tight.
- If the suction pipe can suck air, the pump will not be able to pull water from the well.

Priming the Pump

Never operate the pump while it is dry. Operating the pump without water may cause damage to the leather cup.
Always fill the pump with water before starting the pump.

- To prime the pump, pour water in the top of the pitcher pump until it runs out the spout.
- Wait 5 minutes until the cup leather swells enough to make contact with the pump wall.
- Raise and lower the handle in short strokes until suction pipe fills with water. NOTE: Any leak on the suction side will prevent the pump from priming.
- The use of a foot valve will maintain permanent prime. We suggest using a foot valve if your water is 8' down or more.

Freezing Protection

In freezing weather, the internal flapper valve and plunger (both made of leather) may freeze to the pump body.
If you start pumping, these two pieces may tear, making the pump inoperable.

- The pitcher pump will self drain if the handle is left in the 'up' position and the foot valve is removed.
- If you use a foot valve, you can prevent the pump and pipe from freezing only by removing the pump from the well and keeping the water in the well below the frost line.

Troubleshooting - If your pump does not pump:

- Open the pump (see maintenance section). Make sure the flapper valve is not broken and is centered over the hole.
- Make sure leathers are not damaged. If damaged, replace.
- Reassemble the body and ensure the bolts are tightened enough to prevent air from leaking around the base.
- Check for leaks around the joints. Tighten clamps or add thread tape as needed. Replace defective connectors.
- Make sure the pipe end is submerged in water.
- Use plenty of clean water when priming. The plunger will expand as it absorbs water. Let the plunger absorb water for a few hours and try again.
- Make sure you are not trying to lift water more the 20' (measured from the water surface to the spout.
- At higher elevations, the distance water can be lifted is reduced. As sea level and under ideal conditions, the pump will lift to a maximum of about 20'.

MAINTENANCE

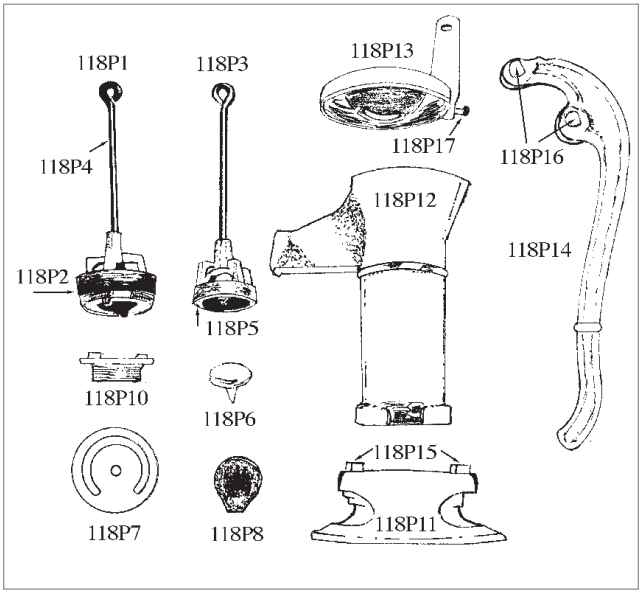
Replacing the CUP Leather

- Loosen the hexagon bolt and lift the plunger assembly out of the pump.
- Unscrew the cup leather holder.
- Remove the old cup leather and put on new cup leather.
- Screw leather cup holder back into original position.
- Reinstall plunger assembly and top cap.
- Insert hexagon bolt and tighten.

Replacing the VALVE Leather

- Unscrew the hexagon bolts and flat washer.
- Remove the pump body from the flange base.
- Lift the valve leather assembly from the flange. Unscrew hexagon nut and flat washer. Remove the valve leather from weight. Attach new valve leather to weight. Tighten hexagon nut and flat washer.
- Before placing valve assembly on flange, clean the flange by removing dirt/debris that could be left over.
- Reattach the valve leather assembly of hexagon nut, weight, valve leather, hexagon nut and flat washer on the flange.
- Reattach the pump body to the flange by tightening hexagon bolts and flat washer. Make sure to soak the valve leather before next use.

PITCHER PUMP REPLACEMENT PARTS



Part Number	Description
118P1	Complete Plunger Assembly (includes *)
118P2 *	Cup Leather for Plunger only
118P3	Plunger Rod and Cage (no cup leather)
118P4 *	Plunger Rod
118P5 *	Plunger Cage
118P6 *	Plunger Weight
118P7	Flat Leather for Base Valve
118P8	Weight and Screw for Flat Valve
118P9	Flat Valve Leather and Weight
118P10 *	Threaded Nut for Plunger Cage
118P11	Pump Base with Bolts (118P15)
118P12	Pump Cylinder
118P13	Pump Top with Set Screw (118P17)
118P14	Pump Handle with Two Bolts (118P16)
118P15	3/8 x1-1/4 Bolts for Pump Base
118P16	3/8 x 2 bolts for Pump Handle
118P17	Set Screw for Pump Top

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