



**Oasis Pumps Manufacturing Co.
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REPAIR AND ASSEMBLY MODEL NO. WP2

REMOVE PLUNGER AND COMPONENTS:

Remove handle and link assembly. (bolts are 5/16" X 1- 1/2" and 5/16" X 2" and may be replaced with any common/standard bolt) Remove 2 cap screws.

Place the mounting cap lug in a vise with pump body in a horizontal position. (a cloth or rag should be used on the jaws of vise to prevent marking the lug)

In the field, if no vise is available this may be accomplished by inserting a screwdriver or other tool through the bolt hole in lug and holding by hand.

With lug held securely, place both hands on pump body, then turn counter-clockwise pulling body away from cap.

Note: Model No WP2 has an "O" ring seal that fits tightly.

With cap and plunger assembly removed, place flat head of plunger rod in a vise using a cloth for protection. Again, a screwdriver may be used by inserting it through the hole in the plunger rod.

Holding the plunger rod in place, use a wrench or pliers on the bottom plunger nut, then turn counter clockwise to remove. Pull the plunger components off the rod observing the order of assembly.

REMOVING CHECK VALVE:

Use any socket extension (minimum length 10") and a 7/16" socket. Hold or secure the extension in a vertical position (socket up) and place pump body upside down over socket. Locate hex head on check in the socket. With wrench or pliers, remove the check valve nut turning it counter clockwise. With the check valve assembly removed, the seating ring can be replaced by pulling it off the poppit. (slip fit)

RE-ASSEMBLY:

In reverse order, out on check valve should be flush with end of stem. Do not run the top nut on the plunger rod past the threads. Align the location pin on the plunger valves. With this assembly in proper order, tighten the bottom nut "snug" do not over tighten.

Place the bottom of the pump body on a flat, solid surface and insert the plunger assembly with the cap. Be careful to align the cap with the body to prevent damage to the "O" ring. With a turning motion, press down until the cap is seated. Align the cap screw holes in the body with those in the cap.

OASIS Hand Lift Pumps Model Numbers WP2, are positive displacement suction lift pumps. They will give good performance on any depth well or pumping application where the suction lift vertical distance (pumping level) does not exceed 28-30 feet (9 meters).

These pumps may be attached directly to a 2" or smaller diameter wellhead, PVC or steel pipe and pumped by the straight suction method. Teflon tape is recommended as a thread sealant. Hand tighten all fittings, or tighten enough to prevent leakage. No air leaks in the suction pipe.

A small amount of water may be added to the pump for initial prime. Pump handle until all air is eliminated and pump is fully primed.

These pumps may also be installed with a drop pipe or tubing of suitable length and diameter with a foot valve. Lower to the desired depth, (below water) raise and lower in short strokes until suction pipe fills with water and the pump is primed. The use of a foot valve will maintain a permanent prime.

When using flexible suction tubing, we suggest using a 1" SCH. 80 threaded PVC nipple and adapter attached to the pump. This will enter a 2" well and add rigidity at the pump.

Our optional base mount may also be used for mounting these pumps to flat surface for a more secure attachment.

ON PRESSURE APPLICATIONS:

The discharge on these pumps is 1-1/2". (Schedule 40 PVC Slip size) and may be used as a slip-fit or solvent welded with a universal cement to pipe or adapters for most any plumbing configuration. These are available most anywhere locally or we can supply them with the pump.

We normally use a 1-1/2" SPIG X 1-1/4". FIPT at the pump. This allows the use of a threaded adapter, bushing or union on your application, which is easily removed. A pipe solvent welded to the pump will be permanently attached or must be cut for removal.

Note: The WP2 and WP2D are designed to be pressure application with a packing nut on the plunger rod and an "O" ring seal on the mounting cap. On permanent installations a tee must be installed at or near the pump for priming.

Hand-tighten the packing nut, do not over-tighten. Leave the handle and plunger bolts loose for movement.

ON ALL PUMPS the use of our optional discharge fittings will improve performance. The 1-1/2" SPIG X 1-1/4" FIPT PVC bushing will press fit into the discharge and can be removed. (or solvent welded permanently) This adapts the discharge to standard 1-1/4" pipe thread for a variety of applications.

With the above adapter in place, the 1-1/4" insert XMIPT adapter ell will screw into it. Turning in an up position makes priming easier. Turn down to pump or divert water in any direction or attach discharge pipe or hose.

We can furnish adapter-to-hose thread or almost any size pipe or plumbing. These inexpensive fittings are a standard and are available most places locally.

If you have any questions about pumps or you are having problems with an application, please don't hesitate to contact us. 812-783-2146