

EXCELSIOR E2

TYPICAL HOOK UP INSTRUCTIONS

- 1- Remove plugs from inlet and outlet ports in pump.
- 2- Install the flanges (19) and gaskets (18) with the hardware supplied (21,12,22 & 23)
- 3- Install the handle (35) with the hardware supplied.
Note the handle can be installed pointing up, down, left, or right as preferred .
- 4- Mount the pump on a strong vertical surface with the letters **No. 2** (outlet port) at the top, the left or the right, **but not at the bottom**.
- 5- Connect the waterline from the water source to the inlet port (opposite No. 2 port).
NOTE: use teflon tape on all pipe threaded fittings.
- 6- Install a foot valve on the end of the waterline, but do not allow it to come in contact with the bottom where sediment or abrasives can be sucked up.
Our Waterline Anchor Bracket is excellent for this.
- 7- Prime the pump by filling it with water through the outlet port.
- 8- Operate the pump until a steady stream of water is being discharged, you may have to repeat step 7 on long waterlines.
- 9- Connect the waterline to the outlet port, a check valve should be used if you are filling an overhead tank or a pressure tank.

CAUTION!

Whenever the pump will be unused for an extended period of time, or there is risk of freezing, the pump must be drained.

Disconnect the inlet and outlet waterlines, operate the pump until all the water is pumped out.

An AGI union or Philmac fitting makes it easy to do this, or you can use the fittings shown on the next page.

Since the body of the pump is made of cast iron it must be protected from internal rusting, mineral oil is non toxic and can be poured into the pump after it has dried. Moving the handle back and forth will distribute the mineral oil inside the unit.

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EXCELSIOR E2 – HAND PUMP

AN EMERGENCY HAND OPERATED BACK UP FOR A SUBMERSIBLE PUMP

NOTE:

In this application the pumping depth must be no more than 22 feet.
This is the vertical distance from the location of the hand pump to the surface of the water .

The Excelsior E2 can used in two ways:

1 - To simply pump water into a separate container.

2 - To pump water back into your pressure tank so that you will have water at most of the fixtures in the building.

The pumping effort is easier if you bleed off the pre charge of air in your diaphragm or bladder type tank. Remember to recharge it with a tire pump (2 PSI less than the pump start up pressure) when you are using your submersible pump again.

The inlet and outlet flanges of the Excelsior E2 are threaded with 1 inch female pipe thread, which is easily adapted to whatever size of plumbing you have.

The unit must be mounted on a strong vertical surface with the letters No.2 (or E2) at the top, to the left or the right - No.2 (or E2) identifies the outlet port and the inlet port is on the opposite side of the pump.

CAUTION:

The body of the pump is made of cast iron and must be protected from internal rusting whenever it is unused for extended periods of time.

This process can be simplified by adding a garden hose tap (C) at the inlet of the pump to quickly drain it and a shut off valve (D) at the outlet to pour in a few ounces of U.S.P. heavy mineral oil, available at a pharmacy (NOT MINERAL SPIRITS WHICH IS TOXIC.)
See attached drawing.

INITIAL ASSEMBLY:

1 - Remove and discard the plugs in the inlet and outlet flanges.

2 - Slide the handle on to the pump shaft in the desired position (pointing up, down, left or right) and tighten the bolt.

NOTE:

1 - Before doing anything else turn off the electricity to the submersible pump.

2 - Open a tap and drain all the pressure out of the system.

INSTALLATION PROCEDURE: Use Teflon tape or pipe joint compound on all connections.

1 - Connect the inlet side (bottom) of the Excelsior E2 to the water pipe coming into the pressure tank from the well.

Two "T" fittings (1), one shut off valve (2), one garden hose tap (C) and the necessary length of pipe are required - see drawing in brochure.

2 - Connect one "T" fitting (1) and one shut off valve (2) to the outlet flange (top) of the pump.

3 - If you just want to fill a separate container, simply connect a piece flexible hose or rigid pipe to this "T" fitting.

3A - If you want to fill your pressure tank, simply install a piece of flexible hose or rigid pipe between this "T" fitting and the water pipe going into the pressure tank.

One "T" fitting (1), one check valve (3) and the necessary length of hose or pipe are required - see drawing in brochure.

The check valve (3) will allow the water to flow into the tank but not back into the Excelsior E2.

OPERATION:

When your submersible pump is being used, valve (A) will be open and valve (B) will be closed.

To use the Excelsior E2, turn off the electricity to the submersible pump, close valve (A), open valve(B), close tap (C), open valve(D) and operate the unit until water appears at (D). You might have to pour some water into the unit through (D) to prime it.

Once you have water at (D), close it and pump the water into your separate container or into your pressure tank.

When you no longer need to use the Excelsior E2, close (B), open (A) and turn on the electricity.

STORAGE:

Open (C) and (D) to drain the pump body then operate the handle to expel any remaining water.

After the unit has dried for an hour or so, close (C), pour a few ounces of U.S.P. heavy mineral oil (available at a pharmacy) into the pump body through valve (D), and operate the handle to disperse the oil inside the body.

Close (D) to keep the inside of the Excelsior E2 clean.

Before using the unit the next time you can drain the excess oil out through (C) and flush the body by pumping water out through (D).

A short piece of flexible hose can be attached to (D) to catch the water.

EXCELSIOR E2 - HAND PUMP

AN EMERGENCY HAND OPERATED BACK UP FOR A SHALLOW WELL JET PUMP

NOTE:

In this application the pumping depth must be no more than 22 feet. This is the vertical distance from the location of the hand pump to the surface of the water .

The Excelsior E2 can used in two ways:

1 - To simply pump water into a separate container.

2 - To pump water back into your pressure tank so that you will have water at most of the fixtures in the building.

The pumping effort is easier if you bleed off the pre charge of air in your diaphragm or bladder type tank. Remember to recharge it with a tire pump (2 PSI less than the pump start up pressure) when you are using your jet pump again.

The inlet and outlet flanges of the Excelsior E2 are threaded with 1 inch female pipe thread, which is easily adapted to whatever size of plumbing you have.

The unit must be mounted on a strong vertical surface with the letters No. 2 (or E2) at the top, the left or right - No. 2 (or E2) identifies the the outlet port and the inlet port is on the opposite side of the pump.

CAUTION:

The body of the pump is made of cast iron and must be protected from internal rusting whenever it is unused for extended periods of time.

This process can be simplified by adding a garden hose tap (C) at the inlet of the pump to quickly drain it and a shut off valve (D) at the outlet to pour in a few ounces of mineral oil. (NOT MINERAL SPIRITS WHICH IS TOXIC.)

See attached drawing.

INITIAL ASSEMBLY:

Remove and discard the plugs in the inlet and outlet flanges.

Slide the handle on to the pump shaft in the desired position (pointing up, down, left or right) and tighten the bolt.

NOTE:

1 - Before doing anything else turn off the electricity to the jet pump.

2 - Open a tap and drain all the pressure out of the system.

INSTALLATION PROCEDURE: Use Teflon tape or pipe joint compound on all threaded connections.

1 - Connect the inlet flange of the Excelsior E2 to the water pipe coming into the jet pump from the well.

Two "T" fittings (1), one shut off valve (2), one garden hose tap (C) and the necessary length of pipe are required - see the attached drawing.

2 - Connect one "T" fitting (1) and one shut off valve (2) to the outlet flange (top) of the pump.

3 - If you just want to fill a separate container, simply connect a piece flexible hose or rigid pipe to this "T" fitting.

3A - If you want to fill your pressure tank, simply install a piece of flexible hose or rigid pipe between this "T" fitting and the water pipe going into the pressure tank.

One "T" fitting (1), one check valve (3) and the necessary length of hose or pipe are required - see attached drawing.

The check valve (3) will allow the water to flow into the tank but not back into the Excelsior E2.

OPERATION:

When your jet pump is being used, valve (A) will be open and valve (B) will be closed.

To use the Excelsior E2, turn off the electricity to the jet pump, close valve (A), open valve(B), close tap (C), open valve(D) and operate the unit until water appears at (D).

You might have to pour some water into the unit through (D) to prime it.

Once you have water at (D), close it and pump the water into your separate container or into your pressure tank.

When you no longer need to use the Excelsior E2, close (B), open (A) and turn on the electricity to the jet pump.

STORAGE:

Open (C) and (D) to drain the pump body then operate the handle to expel any remaining water. After the unit has dried for an hour or so, pour a few ounces of mineral oil into the pump body through valve (D), and operate the handle to disperse the oil inside the body. Close (C) and (D) to keep the inside of the Excelsior E2 clean.

Before using the unit the next time you can drain the excess oil out through (C) and flush the body by pumping water out through (D).

A short piece of flexible hose can be attached to (D) to catch the water.

