



Instruction & Assembly

Flojak FP-50 thru FP-150

UNDERSTAND THOROUGHLY PRIOR TO INSTALLATION

Thank you for purchasing the FloJak PLUS™.

Although capable of greater lift, this pump is warranted and recommended for general, non-commercial use at pumping depths requiring up to 150 feet of lift. It is guaranteed to be free of material and workmanship defects impacting operation for two years from the date of purchase. If you have questions, please feel free to contact us online at www.flojak.com, or call our helpful customer care line toll free at 855-4FLOJAK, M-F, 8:30-4:30 CST.

Please take 10 minutes or so to familiarize yourself these instructions thoroughly before you assemble and install your FloJak. You may also want to watch a short assembly video on the "Installation" page at FloJak.com. FloJak is easy to assemble but requires that you follow specific steps and pay close attention to detail. Assembly requires a few additional items:

1. PVC cleaner, primer and medium bodied PVC glue (any hardware store or home-center)
2. Clean, disposable rag for glue clean up
3. String, weight and tape measure for determining depth to static water
4. 9/16" wrench for the hanging bracket,
5. Additional rope as needed for lowering deeper than 50 feet
6. Coated rubber grip gloves for lowering the system into the well, plus two or three friends to help with the weight of lowering longer systems.

ATTENTION-*The directions provided by your PVC cleaner, primer glue maker must be followed strictly, particularly if you are attempting to glue your FloJak in extreme heat or cold. Your pump must be glued 24 hours prior to handling or exposure to water and weight. Failed glue joints are avoidable with care, and are your responsibility. For more information on glue application, go to www.oatey.com and click on the "How to Use" link to helpful YouTube Videos.*

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WARNING-*When lowering the FloJak into your well, the pump and piping assembly weighs approximately 41 lbs per 50 feet. You must lower the unit into your well utilizing a firm grip in the piping, plus the lowering rope. Rubber gripping gloves are highly recommended.*

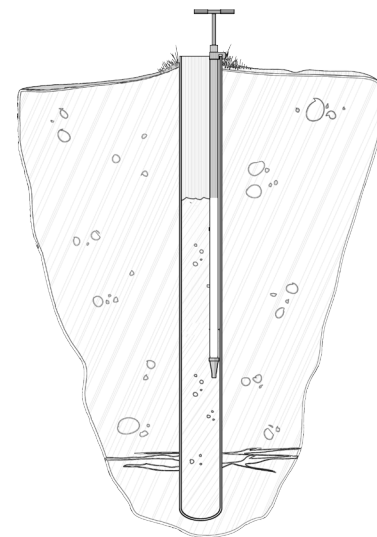
NOTE:*Your FloJak comes from the factory with about 60 feet of lowering cord. If you are lowering the pump more than 50 feet, you will need additional rope or cable with a working load rating of at least three times the weight of your pump assembly.*

FloJak must be assembled in 5-foot sections to an "ideal length". The ideal length of an assembled FloJak, will reach from the surface, to a depth of 10-20 feet below the "static water level" while staying at least 10 feet from the bottom of the well. Static water level is the distance from the surface to water. It is usually much less than the drilled depth of the well itself. Prior to assembly, determine the "ideal length" by gathering some information about the well.

NOTE-*to avoid the possibility of electrical shock ensure that all power to the existing pump and well area, has been disconnected at the main distribution panel, and the pump breaker. It is recommended that you use a qualified, licensed electrician who is a certified well technician! It is your responsibility to ensure that all applicable local and state regulations, requirements and codes are adhered to.*

The FloJak system may be inserted into most wells without removing the existing pump. To install the hanging bracket as it comes, the casing must be at least 4" (inside diameter).

If there is a submersible pump in your well, the first step is to ensure an adequate clearance in the well casing. Insert the flared end of one of the 1 1/4" x 5' sections of pipe into the well casing. If there is clearance, determine the static water level and well depth using the drop-line supplied with your kit as a measuring device. To use the cord, tear it through the blue FloJak label (which MUST be removed prior to pump installation).



1. Lower the metal ring-end of the drop line into the well until you hear it "splash" which indicates the static water level. Mark the line with a knot, pull it up, and measure the distance from the knot to the ring. This will be the distance from the surface to the static water level below. Your assembled FloJak needs to be assembled at least 10-20 feet longer.
2. Remove the knot and lower as much of line into the well as possible to ensure that your FloJak will be at least 10 feet above the silty/sandy bottom of the well.

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TIP-*If the drop line goes slack when checking for well-depth, then the weight is either on the bottom, or has hit an obstruction. Gently pull up so as not to tangle the cord with existing pump wires or plumbing and then retry. If your weighted line hangs straight at 110 feet, (for example) then you have adequate clearance for a 100 foot FloJak pump.*

Note-*If you require additional pipe lengths to accommodate a deeper static water level, then you may order 50' kits at www.flojak.com. Do not attempt to use "off the shelf" PVC. The FloJak is capable of lifting water over the 150 foot rating. Doing so is an understandable choice in emergency, but will void the warranty.*

Record the static water level and the information you gathered about well depth, and then determine the "ideal length" of the pump...in 5 foot increments.

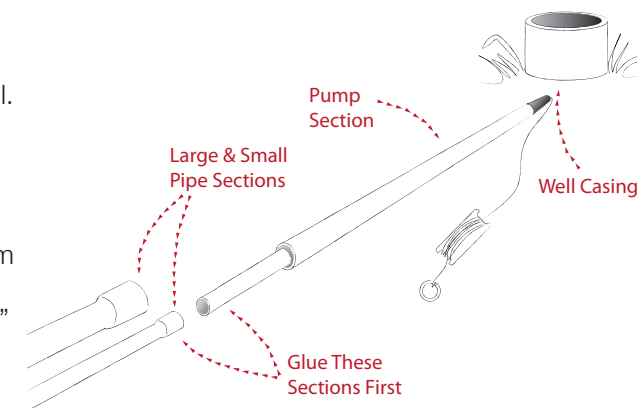
EXAMPLE:*Say your static water level is 24 feet from the surface, and the well bottom is 56 feet. The "ideal length" for your pump assembly will be 35, 40 or 45 feet...which is at least 10 feet below static water level, and at least 10 feet from the bottom. Do not feel that you must use every section of pipe. What you need is "ideal length." If you are using a well-seal, read and understand the well seal instructions prior to assembling the Flojak Plus kit.*

GLUE UP AND ASSEMBLY

The glued and assembled pump assembly will need a roomy place to lay straight and cure for 24 hours. A reasonably level yard is a perfect spot. The first step is to lay the components out in the order that they will be assembled. Start by placing the pump section, pointed toward your well opening. It comes pre-assembled from the factory and will go into the well first. The other end of the layout (away from your well) will be the top section. It has a stainless steel handle and a metal hanging bracket pre-attached. This is assembled from the factory as a set.

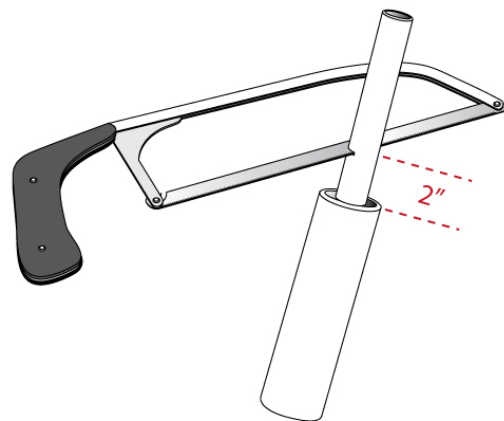
Lay your "Pump Section" on the ground with the foot-valve pointed toward the well. Step off the "ideal length" of your pump and lay the "Top Section" (with the hanging bracket) on the ground with the handle pointed away from your well. Between the pre-assembled "pump" and "top" sections, you will lay out the rest of the 5 foot sections in pairs of small and large pipe. Both the small and large pipe sections should point "flared-end" toward the well.

CRITICAL-*Before gluing anything, read, understand and follow the instructions for your PVC cleaning and priming solutions, and the adhesive. Glue joints are critical, and are your responsibility. Both the male and female parts of each joint must be cleaned, primed and glued. Short cuts could result in pump failure or dropping your pump into the well. Also, the factory-knots on the drop-line are for positioning only, and must be checked and re-tied adequately.*



Gluing can ONLY occur one section at a time. Do not try to pre-glue multiple 5 foot sections. The pump must be assembled by gluing “one” 5 foot section of small pipe first, followed by quickly sliding and attaching a glued section of larger pipe over the small pipe. The glue-up will start at the pump end nearest your well as follows:

1. Remove the label from the pump.
2. To make assembly easier, extend the small (3/4”) pump rod section from the pump housing roughly 12” from the top of the pump.
3. Prep and quickly glue the flared end of one five foot length of the smaller pipe onto the extended pump rod section.
4. Next prep and glue a larger diameter 5 foot section of pipe. Prep and glue the top end of the pump and the inside flare of the next pipe. Quickly slide the large pipe (before the glue sets) over the small pipe (which was just glued in step 3), and onto the glued end of the pump.
5. Repeat steps 3 and 4, until you have assembled enough sections to reach the “ideal length” for your well.
6. Before attaching the handle-end of the assembly, firmly push the extended 3/4” pipe back into the assembly toward the pump, until it bottoms out. Cut the excess 3/4” pipe off at approx. 2” above the end of the larger pipe. (See illustration)
7. Cement the small and large pipes of the top section onto the pump assembly.
8. Ensure that the metal hanging bracket is secured tightly to the top section. Check the collar bolts for tightness with a 9/16” wrench.
9. Check to ensure that the lowering cord is secured adequately to both the foot valve and the ring.
10. Wait 24 hours without moving the assembly, prior to installing into the well.



INSTALLING FLOJAK INTO THE WELL

The FloJak is easier to install with two or three extra people...one to lift the center of the arch, one to guide and lower the pump into the well and another to carry the top section. The drop-line is a critical safety measure that will help you lower your FloJak into the well while reducing the risk of dropping it. The ring-end must be anchored securely to a point close to the well head.

- 1)Carefully guide the FloJak into the well. DO NOT FORCE IT. If you encounter resistance, lift it a few feet and try a different route.
- 2)When FloJak is fully inserted, secure the hanger over the top edge of your well casing by tightening the 4 bolts with a 9/16” wrench. BE CAREFUL NOT OVER TIGHTEN or you could crack the well casing.
- 3)Pull the lowering rope up until tight and secure it to the metal loop welded to the side of the hanger bracket. The rope can assist you if you decide to remove the pump in the future for any reason.
- 4)If using a Well-Bonnet, slip it over the well-cap or any wires, and close up the gaps using the Velcro fastener. Cinch the base of your bonnet in place around the well casing using the drawstring.

If you are using a PowerJak lift-assist (recommended for deeper wells over 70 feet to static water level or when pumping into your home) or a MiniJak lift assist lever, follow the installation directions included with your lift-handle kit.



PUMP OPERATION

Prior to operating your pump, it is recommended that you decontaminate your well and newly installed pump by pouring one gallon of clear, unscented bleach into the well opening. Wait an hour or so and then pump several gallons of chlorinated water through your FloJak and any piping or hoses used to transport water. Within a day or two, fresh water will replace the chlorinated water in your well, and the smell will dissipate. If you need to use the water immediately, use smaller quantities of bleach until you can just begin to smell it in the pumped water. You can filter chlorine with the right filters, and bleach dissipates in air. A large surface area container for storage will help.

Operating FloJak is simple. Lift the Tee-handle to a comfortable pumping height and stroke up and down to produce water through the handle, on the down stroke. Initial priming from 50 feet below the surface (for example) will require about ten 22-24” strokes. If you are using a PowerJak, the strokes will be shorter (but will require much less effort). Without the PowerJak, it takes about 7 average strokes to produce a gallon of water.

FloJak Plus comes with a brass hose fitting on the handle. You may attach an optional 6-foot or 50-foot “GatorHyde” hose capable of 200 PSI pumping pressures. The longer hose can be attached to any unrestricted outdoor faucet for supplying water for sinks, tubs or flushing.

The “prime” in the top of your pump should leak down to at least the “weep hole” which is approximately 4 feet below the surface (marked by the yellow label). This will help avoid freezing in colder temperatures.

If you are concerned about extreme cold conditions, you may drill another 1/16” weep hole further down the 3/4” PVC pipe.

***Note-**FloJak comes with a weep hole for self draining the handle section during cold weather. It is located about 4.5 feet from the top. If you feel that it is important to weep lower in the well, drill a 1/16” hole in the side of 3/4” pipe, further down from the top. If you would like more information, please call FloJak customer care or e-mail the factory.*