

PRODUCT DATA SHEET

Series 30 Quart Stroke Pump

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FILL-RITE

Description of Included Models

Model Number	Description
31	Basic pump with 2" Bung Adapter(1/2" inlet), Telescoping suction tube and Swing Return Drain Tube

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Available Options

Option	Description	Shipping Weight (lbs.)	Shipping Weight (kgs.)
--	No options available for this pump except as included in the Models as noted.	10.0	4.54

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Accessories

Part Number	Description
30F5301	Telescoping steel suction pipe. Extends from 21" to 36".

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Performance

Adjustable Output Range	31.0 to 35 Ounces (0.916 to 1.03 Liters) per Stroke.
Maximum Viscosity of fluid pumped	Pourable fluid
Maximum ambient operating temperature	150 °F (66 °C)*
Minimum ambient operating temperature	-15 °F (-26 °C)*

* Consult factory for extreme temperature applications outside this range.

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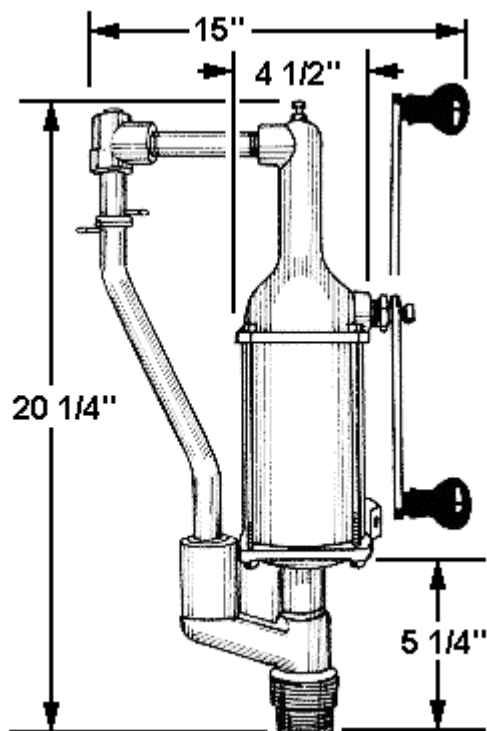
Fluid Compatibility

The Series 30 pumps are designed for petro products of all types and have been found to work well with printer's press cleaning solvents. If there is a question for a particular fluid, check the affects of that fluid on the following wetted materials.

Cast Iron Steel Zinc Plated Steel
Acetal Viton® Vellumoid

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Dimensions



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Repair

The Model 30 is designed for long years of trouble free service. A number of the more common situations that have been noted are included in the frequently asked questions. If it becomes necessary to take your pump to a service center, always thoroughly flush with a compatible solvent, water for water based fluids and kerosene or diesel fuel for petro products, before packing.

Refer to the Parts and Technical Service Guide packed with the new pump for additional service and repair ideas.

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Maintenance

To keep the pump running at its best, periodically perform the following procedures:

1. Thoroughly flush using a compatible solvent, kerosene or diesel fuel, if the pump is to be stored unused for any period of time.
2. if leakage is noted around piston shaft, tighten packing nut in 1/4 turn increments until leakage stops. Over tightening will make pumping more difficult than is necessary.

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Frequently Asked Questions

The questions below are linked to the answers for that particular question. Point and click on the question of interest and you will be move to the answer to that question. Buttons are provided to allow you to move back to this question list or to the original INDEX.

1. [My pump is leaking between the cylinder and the casting. What should I do?](#)
2. [I only get the pump about half full in a stroke. What's going on?](#)
3. [I always pump a little more than a quart with one stroke. How do I adjust the pump output?](#)
4. [My pump is leaking around the handle shaft and tightening the packing nut doesn't help. Why?](#)

1. My pump is leaking between the cylinder and the casting. What should I do?

First try tightening the four tie bolts 1/4 turn. Use EXTREME caution as over tightening of these bolts can break the casting. If tightening does not stop the leaking remove the bolts and examine the gasket in the casting channel and the cylinder edge for damage. A new gasket may be required. See the parts listing in the Service Guide for the part number of the gasket.

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2. I only get the pump about half full in a stroke. What's going on?

The pump depends on developing a near perfect vacuum to function properly. Any air leakage in the suction tube, pump base, piston or the ball valve will allow leakage and affect your pump's accuracy. It is increasingly critical as the viscosity of the fluids being measured increases. If your pump only half fills, a significant leak is indicated. Check the suction tube installation to insure the threads are tight and a good grade of resistive sealant has been used on those threads. Check the sliding joint in the suction tube to make sure the gasket is in good condition and the tube that gasket contacts is clean, free of corrosion and undamaged.

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3. I always pump a little more than a quart with one stroke. How do I adjust the pump output?

There is an adjustment screw in the pump top which serves to limit the travel of the rack during a stroke. Loosen the locking nut and screw the adjustment in to decrease the amount of fluid being dispensed. The calibration is trial and error so move the adjustment screw in 1/4 turn increments and dispense a quart into a calibration container after each adjustment. Once adjusted the pump retains accuracy year after year as long as the same fluid is pumped. A change in the type (viscosity) of the fluid or the measure desired, would necessitate a recalibration.

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4. My pump is leaking around the handle shaft and tightening the packing nut doesn't help. Why?

The nut retaining the handle shaft is NOT a packing nut. in the classical sense. It serves as a shaft guide and sealing surface for the pinion o-rings, but no longer serves to "crush" a packing to get a seal. If there is a leakage around the handle shaft the O-rings may be damaged or some foreign materials may be preventing a seal. Remove the handle, "packing" nut and pull out the pinion. Check for damage, corrosion or foreign materials. Replace any defective parts. Carefully clean and reassemble.

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