

GP-302-12L/24L Pumps

Installation / Operating Instructions

Installation

The pump can be installed in any orientation.

Care must be taken not to operate the pump with either the suction or discharge sides blocked. Insure that all system valves are open prior to pump operation. Do not substitute the adapters supplied with the pump with other

Thread length is critical. The pump is provided with male 3/8" NPT (National Pipe Tapered) threaded adapters.

The thread size on the pump head is 3/8 BSPP.

It is critical not to thread in a different fitting that can deform the pump head and cause irreparable damage.

1/2" Hose Barb and -8 (1/2") male flare fittings are also available on our web store.

It is recommended that a screen or filter be installed on the suction side of the pump to prevent debris from entering the gears and stalling the motor or damaging the gears. Care must be taken not to operate the pump with either the suction or discharge sides closed. *Use a minimum of 1/2" ID hose for all suction and discharge plumbing. Do Not Operate the pump above its maximum rated pressure of 30 - 40 PSI.* Gear pumps can generate extremely high pressures, and could damage plumbing and the pump.

Electrical Connection



With correct polarity (RED + BLACK -) the flow will be left to right while facing the pump head.

Be sure that the power source and wire gauge used, matches the power requirements for this product model. AWG 16 size wire for runs up to 15 feet is recommended. The pump is reversible and could operate in either direction without damage to the pump. Reversing the polarity of the power leads will reverse the flow direction. The pump can be used with a reversible switch if needed.

Speed Control

In case you need to control the speed of the pump, please use PWM DC Motor speed controller with the appropriate AMP rating. They can be bought at eBay or Amazon. **DO NOT** use reduced Voltage to control the speed of the motor.

System Priming

To avoid unnecessary wear on the gears by running them dry, it is necessary to prime the pump before initial use. Follow the procedure below to prime the system.

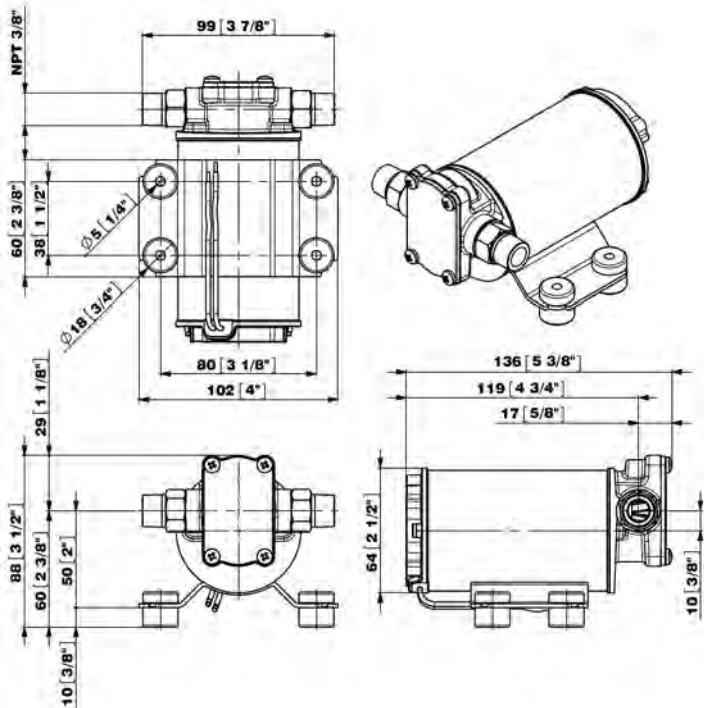
1. Pour a small amount of liquid to be pumped into the suction hose.
2. Operate the pump for a few seconds to draw this liquid into the pump.

Once the system is primed, this procedure does not have to be repeated again. The residual oil in the lines is sufficient to lubricate the gears for subsequent use.

IMPORTANT NOTICE:

This pump is not designed to pump gasoline.

DIMENSIONS



EXPLODED VIEW

Pos.	Q.ty	Description	Pos.	Q.ty	Description
1	1	PUMP BODY	12	2	WASHER
2	1	SEAL	13	2	NUT
3	2	ROD	14	1	IDLE GEAR
4	1	GASKET	15	1	KEY
5	1	PUMP FRAME	16	1	DRIVING GEAR
6	1	ARMATURE	17	1	O-RING
7	1	COMPENSATION SPRING	18	1	TOP PLATE
8	1	BALL BEARING	19	4	SCREW
9	1	BRUSH HOLDER	20	2	TUBE OUTLET
10	1	O-RING	21	2	O-RING
11	2	O-RING	22	4	ANTIVIBRATION MOUNT

