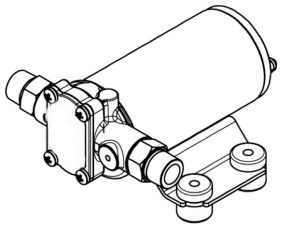


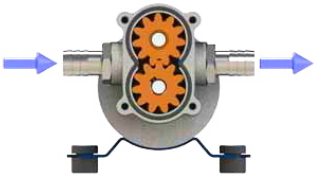
GP-201-12/24L PUMPS

Installation/Operating Instructions

Do not substitute other fittings for the ones supplied with the pump. They can damage the pump and void warranty. Pump is supplied with **3/8 BSPP** to **3/8 NPT** custom adapters. The length of the BSPP part is critical. We have available on our web store, 1/2" hose barb fitting to connect directly to the pump. Part No. HBF/8
It is recommended that a screen of some kind be installed on the suction side of the pump to prevent debris from entering the gears and stalling the motor. Care must be taken not to operate the pump with either the suction or discharge sides closed. Ensure that all system valves are open prior to pump operation. *Use a minimum of 3/8" ID hose for all suction and discharge plumbing.*
Do Not Operate the pump above its maximum rated pressure of 20 PSI. Gear pumps can generate extremely high pressures, and could damage plumbing and the pump.

Pump Speed Control
In case you need to control the speed of the electric motor, the recommended method is to use a **PWM DC motor speed controller** with appropriate Amp rating. They are very inexpensive on eBay or Amazon.
DO NOT try to control the speed of the motor by reducing the Voltage. It will overheat and burn the motor.

Electrical Connection
Make sure that the power source and wire gauge used, matches the power requirements for this product model. On longer wire runs, if the wire used is of very light gauge, voltage drop may occur and the pump motor will overheat, or will not perform adequately. AWG 12 or AWG 14 is a safe bet.
Do not try to run the pump connected directly to a battery charger.



With the red wire connected to Plus and Black to Minus, the direction of flow is illustrated on the left

GP-201 is reversible by switching the polarity of the wires and can operate in both directions, or it can be connected to a reversing switch.

System Priming
To avoid unnecessary wear on the gears by running them dry for more than 30 minutes. It is necessary to prime the pump before initial use. Follow the procedure below to prime the system.

Pour a small amount of liquid to be pumped (about 3 oz.) into the suction hose.

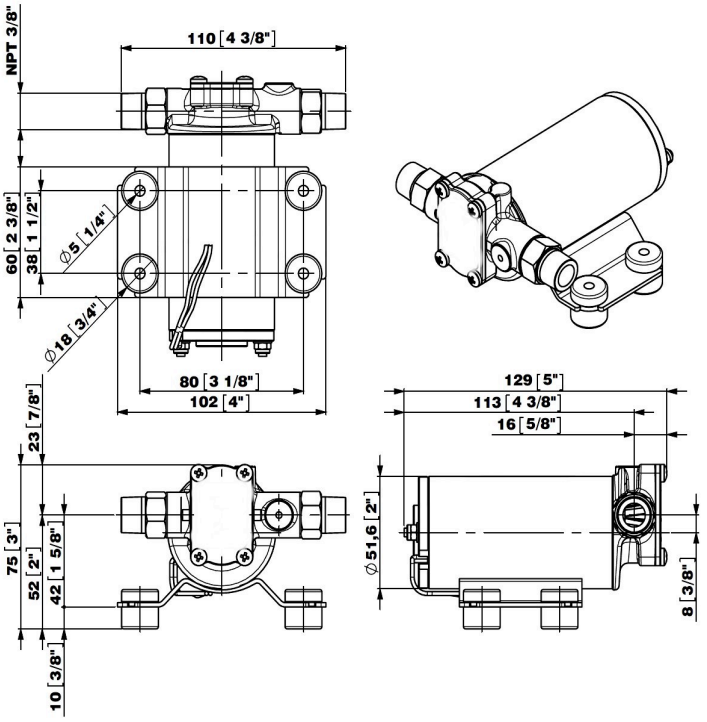
Operate the pump for a few seconds to draw this liquid into the pump.

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.

More info on the back page

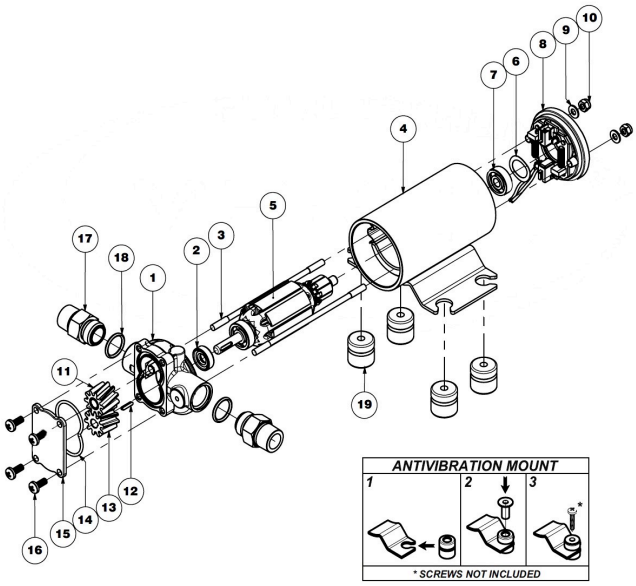
O DIMENSIONS

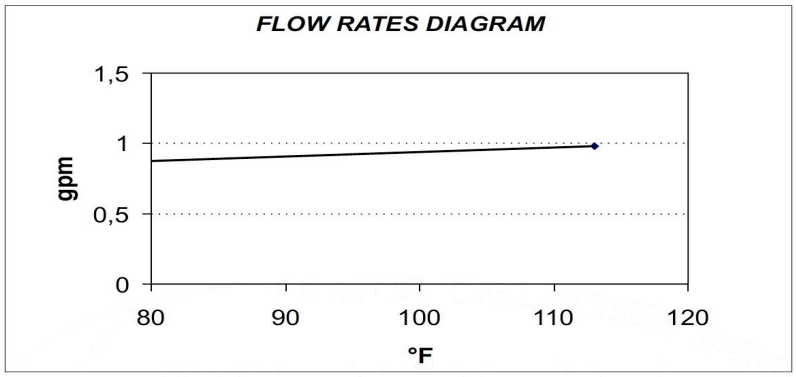


EXPLODED VIEW N

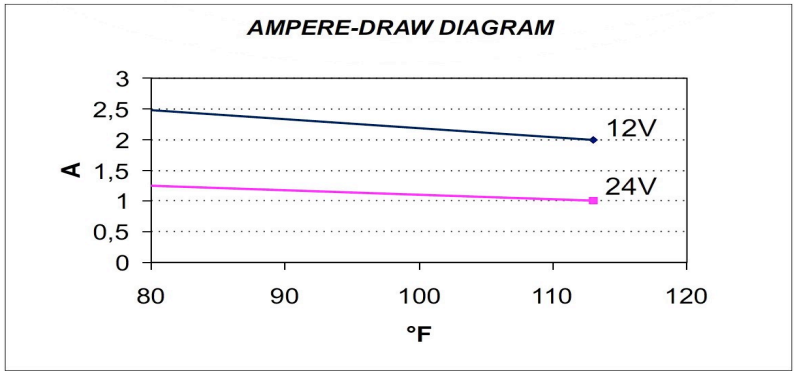
Pos.	Q.ty	Description
1	1	PUMP BODY
2	1	SEAL
3	2	ROD
4	1	PUMP FRAME
5	1	ARMATURE
6	1	COMPENSATION SPRING
7	1	BALL BEARING
8	1	BRUSH HOLDER
9	2	WASHER
10	2	NUT

Pos.	Q.ty	Description
11	1	IDLE GEAR
12	1	KEY
13	1	DRIVING GEAR
14	1	O-RING
15	1	TOP PLATE
16	4	SCREW
17	2	TUBE OUTLET
18	2	O-RING
19	4	ANTIVIBRATION MOUNT





* Flow rates are for ASE-30 motor oil @ 70F



www.enginegearonline.com
info@enginegearonline.com
+1 954-557-1019