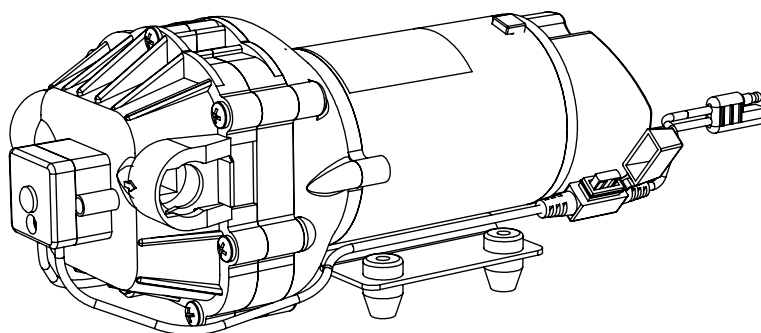


# High-Flo Gold Series

12 Volt Diaphragm Pump Model: 5277982/5275088



## Product Information

Fimco High-Flo Gold Series pumps are designed to pump water and aqueous solutions of common pesticides. They are not designed to pump petroleum products or other flammable materials. They are not designed to pump bleach solutions. **Use of this pump for petroleum products or bleach solutions will void the warranty.** When pumping liquids other than water, the pump should be flushed out with clean water after each use to prolong pump life.

High-Flo Gold Series pumps are equipped with a demand switch that reacts to outlet pressure and shuts the pump motor off at a factory set pressure limit of 45 PSI. When the pressure drops below this preset limit the switch allows the pump motor to start again.

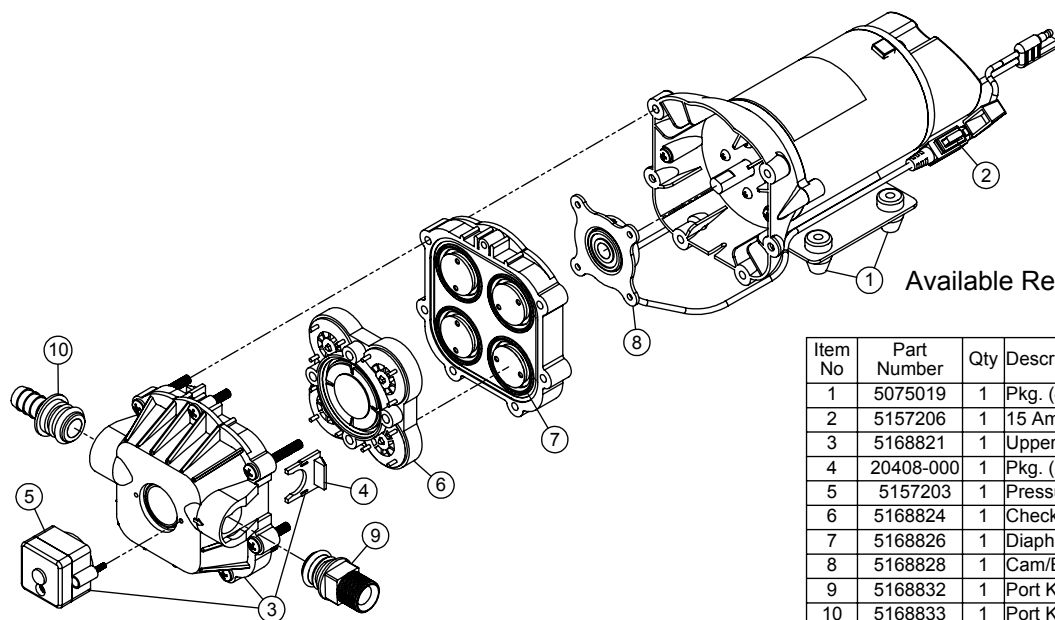
High-Flo Gold Series pumps are self-priming. Vertical prime will depend on the viscosity of the liquid and suction line size. Minimum recommended suction line size is 3/8 inch. All hose connections need to be tight or air leakage will break the prime and disrupt water flow. The installation of a 50 mesh strainer is recommended to prevent debris or other foreign material from entering the pump and causing pump failure. The pump should be mounted in a dry and adequately ventilated area. The pump can be mounted horizontally or vertically. If mounted vertically, the pump head should be down and the motor should be up. Your pump will come with adapters which will allow you to hook up to various plumbing configurations. These fittings push into the ports of the pump, and a slide mechanism 'locks' them into place. Use flexible hose or tubing to connect to the inlet and outlet ports on the pump. This minimizes stress on the pump head. Never use rigid pipe connections. Do not compress the feet. Overtightening will reduce the ability to isolate vibration & noise.

Your pump is rated at 3.8 GPM @ open flow. If the discharge plumbing is very restrictive or nozzle tips are undersized, the back pressure will cause the pump to cycle rapidly. This rapid cycling will increase the operating temperature of the motor and the amperage draw on the power supply. Extended use with this cycling will cause premature failure of the pump.

Your pump is designed to run off of the battery of your ATV, lawn tractor, or other vehicle with a 12V system. If using a stand alone battery, use a deep cycle RV or marine battery.

The pump should be winterized before storage, by pumping a solution of RV antifreeze through it, and the entire plumbing system.





Available Replacement Parts

Item No	Part Number	Qty	Description
1	5075019	1	Pkg. (4) Grommets
2	5157206	1	15 Amp 'Mini Blade' Fuse
3	5168821	1	Upper Housing w/Pressure Switch
4	20408-000	1	Pkg. (2) Clips (Port Fitting)
5	5157203	1	Pressure Switch Assembly
6	5168824	1	Check Valve w/O-Ring
7	5168826	1	Diaphragm Kit w/Pistons & (4) Screws
8	5168828	1	Cam/Bearing Kit, w/Set Screw
9	5168832	1	Port Kit Fitting, 1/2" MNPT
10	5168833	1	Port Kit Fitting, 1/2" Hose Barb

## Troubleshooting the Pump:

### Motor does not run:

- Check for loose wiring connection(s).
- Make sure the 'ON/OFF' switch in the lead wire assembly is in the 'ON' position. "I" is the 'ON' position and 'O' is the 'OFF' position.
- Check for defective pressure switch. Make sure you are connected to a good 12 volt power source. Make sure any on/off switches are in the 'on' position. Remove the cap to the pressure switch. Pull both red wires off of their terminals, and touch the two ends together. If your pump runs when you do this, your pressure switch will need to be replaced.
- Check the fuse.
- Check for low voltage at the power supply.

### Pump does not prime:

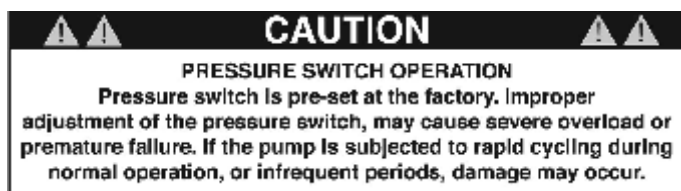
- Check for air leaks in supply line.
- Check for debris in the check valve assembly.
- Check for defective check valve.
- Check for clogged strainer/filter.
- Check for cracks in the pump housing.
- Check for empty product supply.

### Pulsating flow (surging):

- Check for defective pressure switch.
- Check for leaks in the discharge line.
- Check for restriction in the discharge line.
- Check for debris in nozzle orifice.
- Discharge hose may be too long.
- Check for clogged strainer.

### Motor continues to run after discharge is shut off:

- Check for empty product supply.
- Check for open bypass valve. (if equipped)
- Check for low voltage.
- Check for leak in discharge line.
- Check for defective or dirty check valve.
- Check for defective pressure switch.



Pump Specifications	
Flow Rate:	3.8 GPM @ Open Flow
Current:	7.4 Amps @ 40 PSI
Check Valve:	Viton
Port Type:	Plug-In Port
Motor Voltage:	12 Volts DC
Wetted Parts Housing:	Polypropylene
Diaphragm:	Santoprene
Liquid Temperature:	130° F max.

GPM = Gallons Per Minute  
PSI = Pounds per Square Inch  
DC = Direct Current

