SP SERIES...built to last

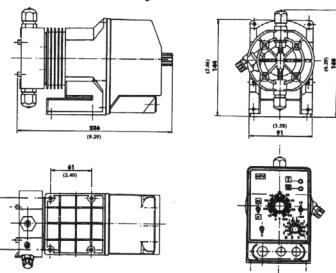
TEXSTEAM

FRED C. GILBERT CO.
P.O. BOX 5534
1615 BEDFORD WAY #A
BAKERSFIELD, CA 93308
(661) 399-9569

Flows rated up to .26 GPH (1 LPH) at Pressures to 260 psi (18 bar)

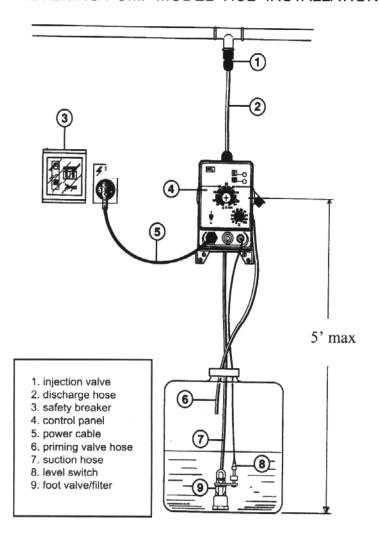
All Texsteam electronic metering pumps have PTFE diaphragms designed for long life and durability. The HCL is available with a foot mount configuration. This unit is available in two voltages, 115vac and 230vac. The dual controls adjust both the pump stroke speed as well as the stroke length for ultimate metering control. This higher pressure unit, like the FCL is available with the level control, which when mounted on the foot valve, protects the pump from dry runs. The liquid end is polypropylene, and also features a priming valve to aid in start up. The injection valve also serves as a line check valve to protect the unit.

"H" Series Physical Dimensions



Bold Values : mm Parenthesis values : Inch

METERING PUMP MODEL "HCL" INSTALLATION



HCL SPECIFICATIONS Maximum Injection Pressure 260 psi (18 bar) **MAXIMUM STROKES PER MINUTE- 120** MAXIMUM VISCOSITY-60 cps VOLTAGE-115 or 230 vac **HCL Performance** 1.2 Flow (GPH) 0.8 0.4 0.2 150 200 Pressure (PSI) **Materials of Construction** Case-Polypropylene Pump Head-Polypropylene Diaphragm-PTFE Valve Balls-Glass Suction/Discharge Tubing-Polyethylene Valve Body-Polypropylene O-rings-Viton

SP SERIES...built to pump

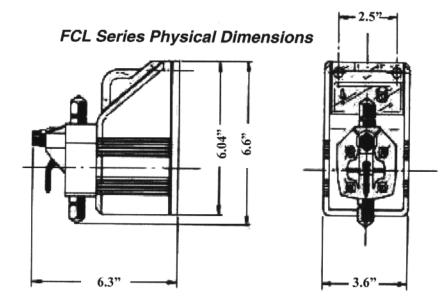
FRED C. GILBERT CO. P.O. BOX 5534 1615 BEDFORD WAY #A BAKERSFIELD, CA 93308 (661) 399-9569



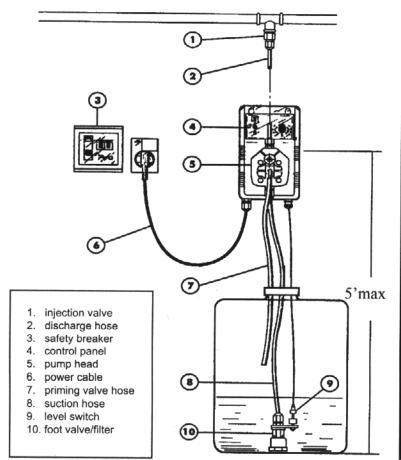
Flows rated up to .4 GPH (1.5 LPH) at Pressures to 175 psi (12 bar)

The FCL Series can be vertically wall mounted or it can be mounted on the bracket supplied with the pump. This series provides the ideal solution for problems encountered with the metering of small quantities at low pressures. Behind the simple and effective design, there is a product of high quality and supreme reliability. An all plastic housing (glass-filled polypropylene) is resistant to attack by corrosive chemical agents.

The transparent cover and front panel is made of polycarbonate. The piston is actuated by magnets with a class II rating insulation. This FCL metering pump is energized by an electronic circuit packaged on a durable double sided PCB with a protective coating of epoxy insulation varnish.



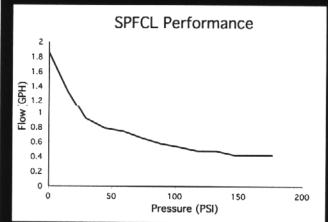
METERING PUMP MODEL "FCL" INSTALLATION



FCL SPECIFICATIONS

Maximum Injection Pressure 175 PSI (12 bar)

MAXIMUM STROKES PER MINUTE-140 MAXIMUM VISCOSITY-60 VOLTAGE-115 vac



Materials of Construction

Case-Polypropylene
Control Panel Cover-Polycarbonate
Pump Head-Polypropylene
Diaphragm-PTFE
Valve Balls-Glass
Suction/Discharge Tubing-Polyethylene
Valve Body-Polypropylene
O-rings-Viton

SP SERIES

FRED C. GILBERT CO. P.O. BOX 5534 1615 BEDFORD WAY #A BAKERSFIELD, CA 93308 (661) 399-9569



INSTALLATION NOTES:

The pump arrives with all the materials needed for the installation. To start up all Texsteam SP Series metering pumps, first mount it on a bracket or any other horizontal surface in a well ventilated and easily accessible location. The distance between the pump head and the suction filter should not be more than 4-1/2'. Connect the suction line (transparent line) to the suction fittings at the bottom of the pump head. Be sure the o-ring in the suction line is in place. Remembering that no suction line can work with an air leak, don't forget to tighten the nut, but not too tight, you are working with engineered plastics, not steel. Place the suction filter on the bottom of the product tank. The suction line should be as short as possible in the vertical position in order to avoid air bubbles.

Install the injection valve in the discharge line. By using this fitting, you also benefit by having another check valve in the discharge, so use the injection valve whenever possible. Connect one end of the discharge line (opaque line) to the discharge fitting on the top of the pump head, and the other end to the injection valve.

PRIMING:

Proceed as follows with pump priming. Always avoid direct contact with the product being pumped.

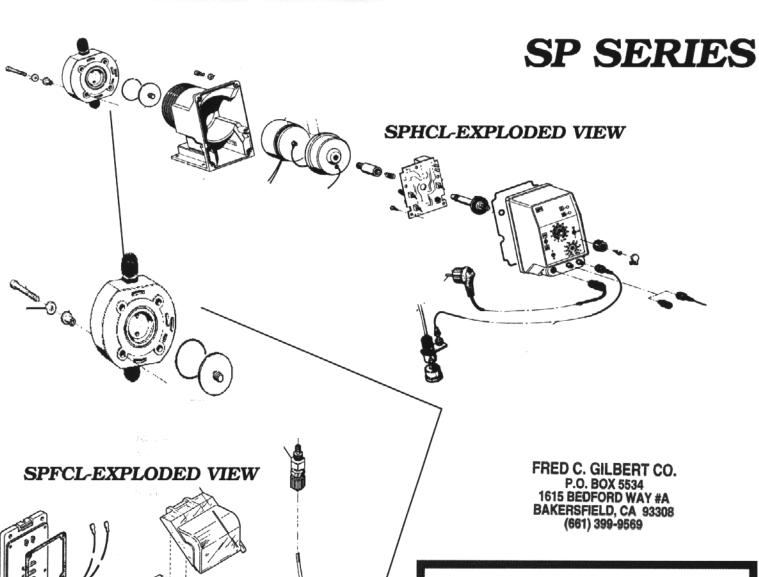
- -connect the transparent hose to the priming valve outlet on the left side of the pump head and insert the other end of the hose in the product tank.
- --open the priming valve by turning the knob counter-clockwise
- --adjust the piston displacement to 100%
- --air in the pump head will escape through the priming valve. When all air stops escaping from the priming valve, close the valve by turning it clockwise.

ELECTRICAL NOTES:

- --Always check and verify the pump has a safe grounding system.
- --Install a disconnect switch or breaker to assure safe operation of the pump.
- -230 vac units do not come with plugs; they must be safely wired into a disconnect box.
- --Solenoid pumps operate equally as well at 50 or 60 hz.
- Power supply range for 230 vac units----- 198-242 volts
- Power supply range for 115 vac units----- 99-121 volts

Power consumption @ 115 vac---18 watts

@ 230 vac---15 watts



SP SERIES REPAIR KITS

ALL KITS INCLUDE:

1-DIAPHRAGM O-RING

1-DIAPHRAGM

2-CHECK VALVES

SPHCL18012000

SPFCL12152000

(SUCTION & DISCHARGE)

QUICK TROUBLESHOOTING GUIDE

IF...pump doesn't work and green LED is off:

- check and verify power supply
- verify provided power is the same as the pump name plate
- check the fuse

IF...pump doesn't work and red LED is on:

- check to see if product tank is not empty
- check level switch floater, clean and replace

IF...pump doesn't work and the green LED flashes:

- check the foot valve/filter for obstuctions clean where needed
- some air can be in the pump head reprime if necessary
- check suction and discharge lines for obstructions
- verify the o-rings in the check valves are not swollen or damaged