ITT

Installation Guide

R7000

FR Guide d'installation

DE Einbauanleitung

IT Guida all'installazione

NL Installatiegids

SE Installationsmanual

ES Guía de instalación

CE

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Flojet Pentaflex Series

DIAPRAGM PUMP
80 PSI (5.5 BAR) / 7.0 GPM (26.5 LPM)
SPECIFICATIONS

Pump Design:	5 chamber diaphragm
Motor Design:	Permanent magnet DC
Voltages:	12, 24 VDC
Motor rating:	IP 54 (splash proof)
Amp Draw:	13.5 amps @ 10 psi for 12 VDC 6.8 amps @ 10 psi for 24 VDC
Fuse Size (A):	35 for 12 VDC 20 for 24 VDC
Pump Body:	Glass filled Nylon
Elastomers:	
Diaphragm	Santoprene™
Check valves	EPDM or Viton
Max. Flow Rate:	7.0 GPM (26.5 LPM)
Max. Pressure:	80 psi (5.5 bar)
Liquid Temp:	40° F (5° C) Min 140° F (60° C) Max*
Duty Cycle:	Intermittent
Weight:	14 lbs (6.3 kg) max.
Certifications:	CE
Port Size inlet/outlet:	3/4" HB ST

WARNING – FIRE AND EXPLOSION HAZARD

Installation site must be well vented and free of all flammable materials and fluids (fuel, oil, kerosene, etc) from area. Failure to comply may result in fire, damage to the pump and /or personal injury or death.

DANGER – REDUCE THE RISK OF ELECTRIC SHOCK

Disconnect power from the system before working on the unit to avoid personal injury, damage to the surrounding environment and/or damage to the unit.

CAUTION – BURN HAZARD

Motor case could get hot during extended operation. Prolonged contact with skin may cause a burn.

Model No	Voltage	Fittings	Open Flow GPM (LPM)	Switch Max PSI (bar)	Diaphragm	Valves
R7300142A	12v	3/4" HB ST	7.0 (26.5)	80 (5.5)	Santoprene	EPDM
R7300342A	24v	3/4" HB ST	7.0 (26.5)	80 (5.5)	Santoprene	EPDM
R7300132A	12v	3/4" HB ST	7.0 (26.5)	80 (5.5)	Santoprene	Viton
R7300332A	24v	3/4" HB ST	7.0 (26.5)	80 (5.5)	Santoprene	Viton

INSTALLATION & SERVICE INFORMATION

FLOJET 7000 Series pumps are designed for a wide range of applications and are constructed from a selection of materials suitable for handling a broad range of chemicals. The 5 chamber high flow pumps are self-priming and can run dry without harm. They are intended for intermittent duty cycles but can be run continuously for short periods of time. The higher the duty cycle, the shorter the expected life of the pump. Typical uses include transfer, delivery, spraying, cooling, filtration, dispensing, and pressure boosting.

OPERATION

To start and prime the pump, the discharge line must be opened to allow trapped air to escape, thus avoiding the potential of airlock. For demand models, the pressure switch will shut off the pump automatically when the discharge valve is closed and the pressure has risen to the switch OFF set point. The pressure switch will restart the pump when a valve is opened and the discharge line pressure drops to the ON set point of the pressure switch. For bypass models, apply power to the pump, and open the discharge valve to expell air in the line.

DEMAND OPERATION (intermittent duty)

Pump models fitted with a pressure switch are known as demand pumps. The pressure switch is preset to shut off the pump motor automatically when a specific pressure is reached, such as in closed discharge conditions. The pressure switch turns the pump motor on automatically as the pressure drops, such as when the discharge is opened. Demand operation is considered an "intermittent duty" application. The maximum intermittent duty cycle is that which will cause the motor to reach its maximum thermal limits. Once the maximum thermal limit is reached, the motor must be allowed to settle to a lower (ideally ambient) temperature, before resuming operation. Running the pump at or near the maximum thermal limit for an extended period of time will shorten the life of the pump and may result in immediate pump failure. Demand pump models feature an integral pressure switch that automatically turns the pump off/on in response to open/closed discharge conditions.

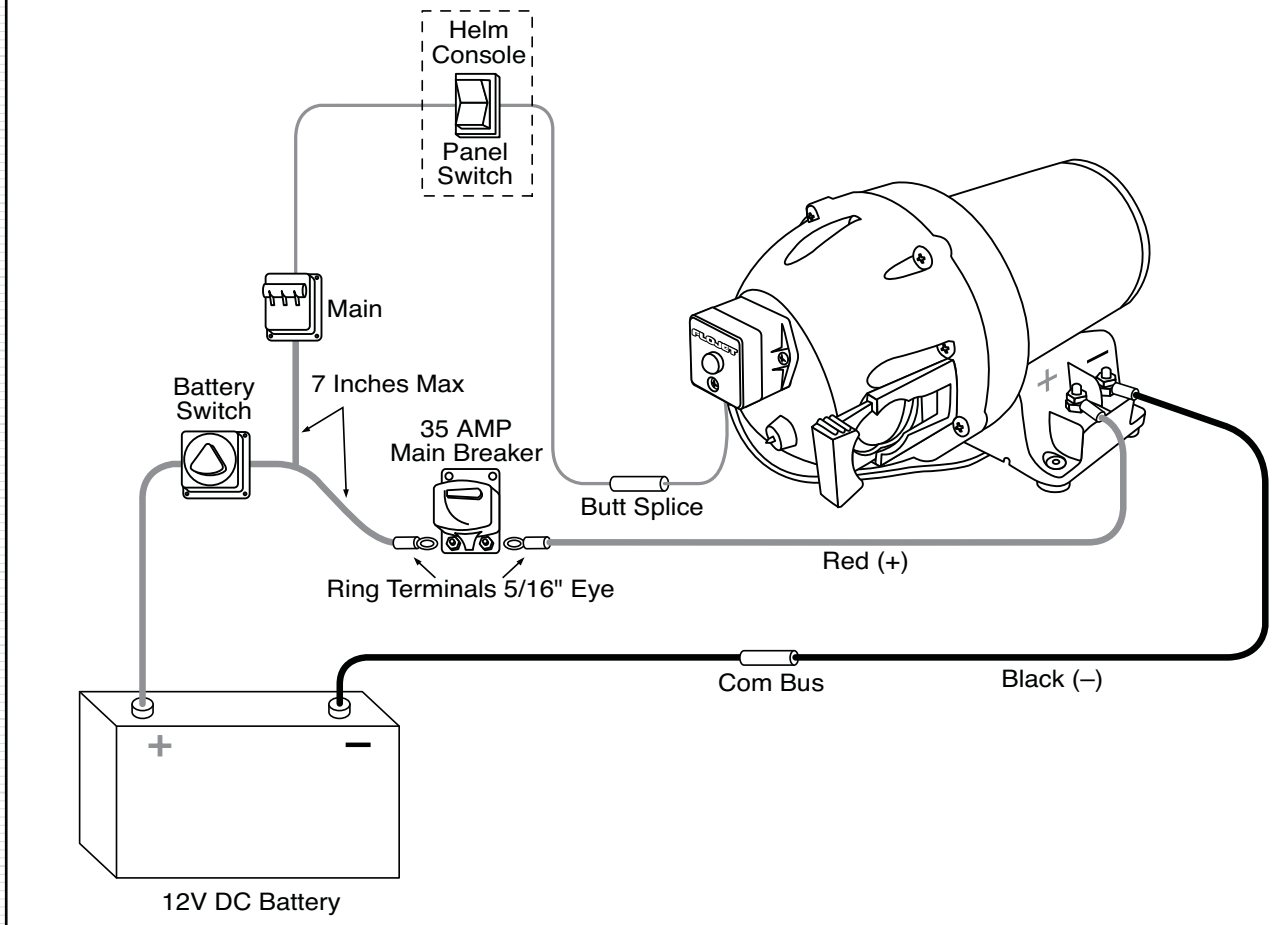
BYPASS OPERATION (if equipped)

Models equipped with an external bypass system are designed to pump at high pressures while at low or high flow rates. Models equiped with bypass only must be turned off/on manually, or by an independent control device. Models equipped with a bypass only will continue to run until the power is manually turned off.

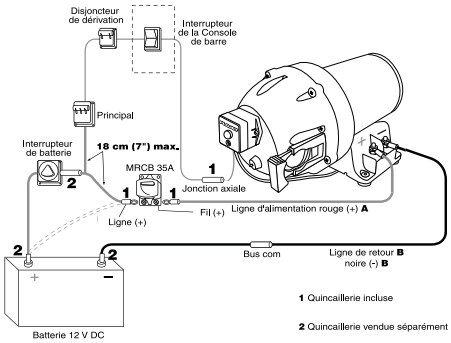
The 6000 Series pumps are not recommended for continuous duty service due to limited motor brush life. Operation at lower pressures and temperatures, however, will extend overall pump service life.

MOUNTING

The 7000 Series pumps are self-priming and may be located above or below the water supply in a dry location. To vertically mount these units, it is best to do so with the motor on top. This will prevent water dripping on the motor in the event of a leak. Place pump on a solid surface and secure with the four mounting screws; be careful not to compress the rubber grommets, which act as vibration dampers.



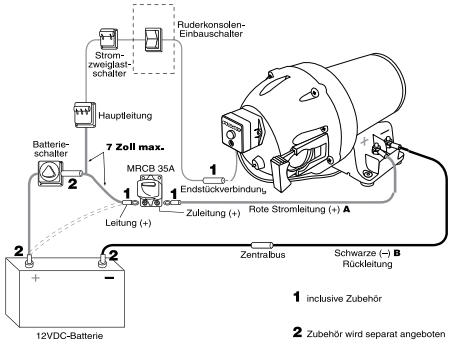
FR



1 Quincaillerie incluse

2 Quincaillerie vendue séparément

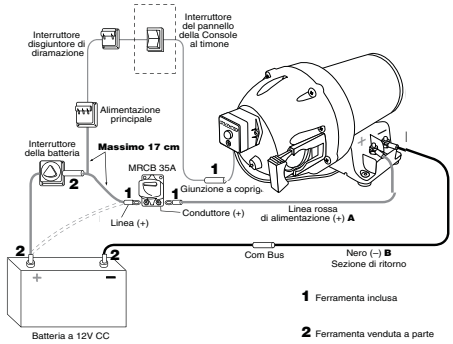
DE



1 inclusive Zubehör

2 Zubehör wird separat angeboten

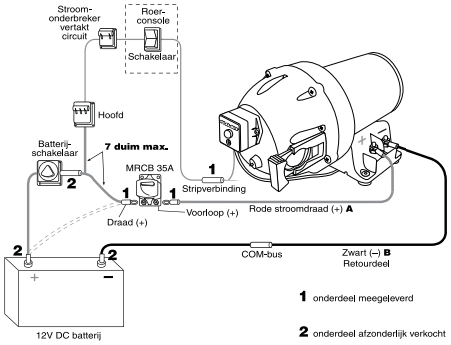
IT



1 Ferramenta inclusa

2 Ferramenta venduta a parte

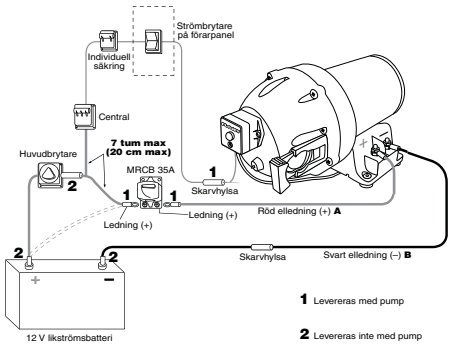
NL



1 onderdeel meegeleverd

2 onderdeel afzonderlijk verkocht

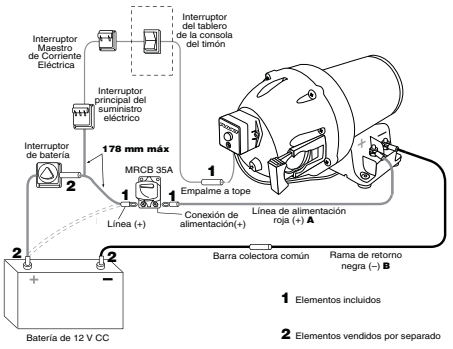
SE



1 Levereras med pump

2 Levereras inte med pump

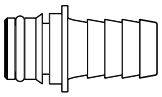
ES



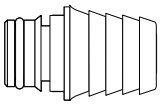
1 Elementos incluidos

2 Elementos vendidos por separado

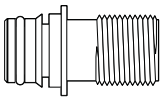
FITTINGS



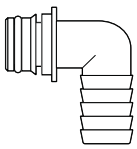
20381-700
(1 PAIR)
PORT
3/4" (19 mm)
HOSE BARB
STRAIGHT-EP



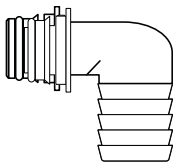
20381-701
(1 PAIR)
PORT
1" (25 mm)
HOSE BARB
STRAIGHT-EP



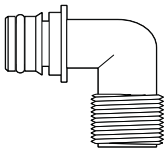
20381-704
(1 PAIR)
PORT
1/2" - 14 QEST
STRAIGHT-EP



20381-710
(1 PAIR)
PORT
3/4" (19 mm)
HOSE BARB
90° ELBOW-EP

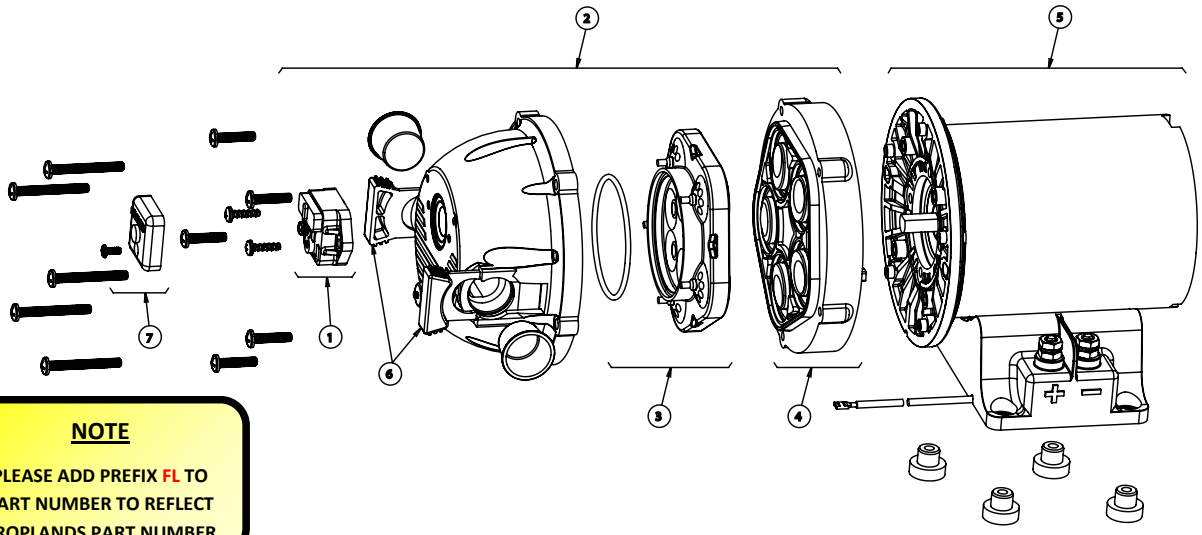


20381-711
(1 PAIR)
PORT
1" (25 mm)
HOSE BARB
90° ELBOW-EP



20381-714
(1 PAIR)
PORT
1/2" - 14 MALE QEST
90° ELBOW-EP

EXPLODED VIEW



NOTE

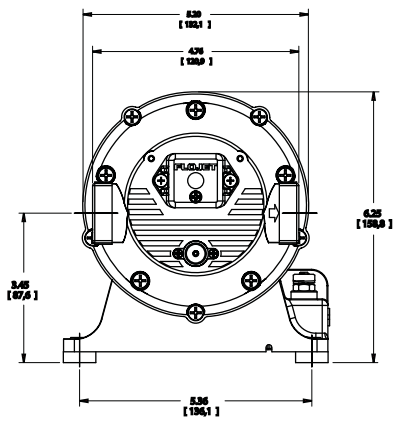
PLEASE ADD PREFIX FL TO PART NUMBER TO REFLECT CROPLANDS PART NUMBER

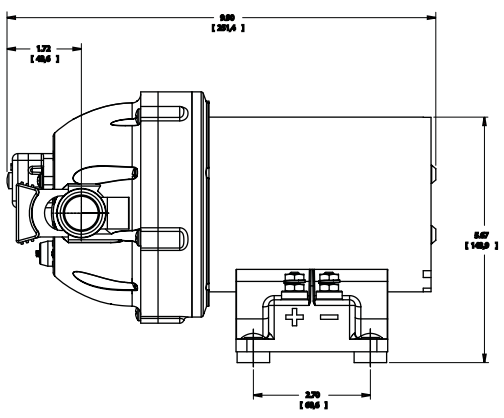
Key	Description	Part Number	Key	Description	Part Number
1	Pressure Switch	02090780	5	Motor With Baseplate 12V	R2009209
2	Pump Head Kit	20406780	5	Motor with Baseplate 24V	R2019086
3	Check Valve Assembly (EPDM)	20419730	6	Port Clips (2)	20408700
3	Check Valve Assembly (Viton)	20407720	7		
4	Lower Housing Assembly (Santoprene)	20407730			

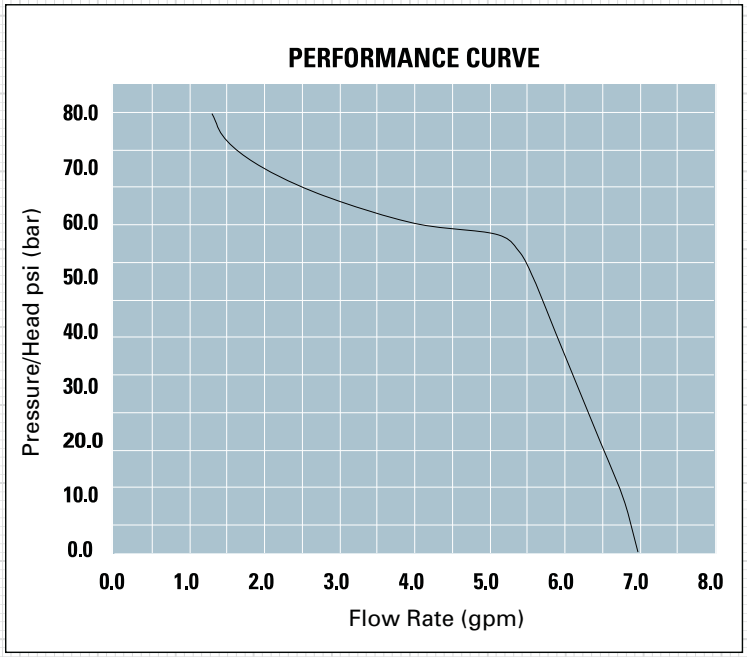
NOTE

SOME PARTS ARE NON-STOCK ITEMS AND MAY NEED TO BE ORDERED

DIMENSIONAL DRAWING







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