

Industrial Pumps and Accessories





Flojet



FLOJET'S commitment to quality and customer support accounts for our exceptional success and growth from a two-man operation to a 300person effort. Through years of experience in design and development, Flojet has established itself as a leader in the small pump industry. In addition to our global headquarters in Southern California, Flojet operates a large sales, assembly and distribution facility in the United Kingdom to serve the European community. A significant part of the company's sales are exports throughout Europe, Asia, Africa and Latin America. Flojet has continued to vertically integrate its manufacturing capabilities to the point where it now produces a majority of its own product components, injection molded parts, motors, and designs its own assembly equipment.

TABLE OF CONTENTS **PAGE** Introduction1-2 **Developing Pump Specifications**3 Pump Selection4 Duplex II Series Pumps5-6 Quad Series Pumps......7 LF Series Pumps8 Oscillating Pumps9 Air Operated Pumps10-11 5100 Series10 G57 Series11 Permanent Magnet Motors.....12 **Accessories**13 Product Specification Form14 Engineering Data......15 Conversion Data16 Chemical Resistance Guide17-22

This catalog shows only the standard models of Flojet's industrial line of pumps. Other models are available upon request.

ENGINEERING SUPPORT

FLOJET has a dedicated team of research and development engineers and designers assigned to work on application specific projects. This ensures a better understanding of the customer's application and development of the best suited pump to fit the application. The pumps represented in this catalog are the result of application-specific design and development effort.

Our technical support, which includes professionals from our marketing and engineering departments, collaborates closely with you to design and apply the right pump for your application. Flojet also assists in performing qualification tests and establishing its criteria. We assure on-time delivery of quality tested products through stringent manufacturing process controls. You can count on the user friendly support literature for installation, service and trouble shooting to make the entire experience very simple and easy. Service, support and assistance from FLOJET are only a toll-free call away for all our customers.

PRODUCT VERSATILITY

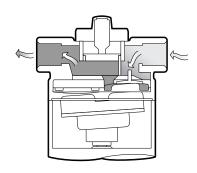
FLOJET CORPORATION makes a wide range of positive displacement diaphragm pumps that can be driven by air, electric motor or solenoid. Flojet becomes an obvious choice for pumps with flows up to 5 GPM and pressures up to 100 PSI, owing to diverse styles that suit most applications. These are available in different voltages in both AC and DC configurations. The selection of materials of construction make our pumps capable of handling a wide range of the industrial and other commonly used chemicals. The "sealless" design eliminates costly, difficult to service dynamic shaft seals.

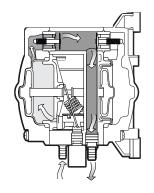
The positive displacement diaphragm design of Flojet pumps makes them ideal for use in conditions that require self-priming and dry running capability for short periods of time. Additionally, the compact size of our pumps makes them very useful in tight spaces where you cannot ensure a flooded suction. Flojet pumps are the choice of OEMs where low power consumption is critical. That is because of our pumps' superior design and higher efficiency.

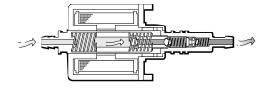
Our motor driven pumps use permanent magnet motors manufactured in-house by Flojet. We install a heavy duty ball bearing for the offset cam assembly that moves a reciprocating two, four or five-piston plate. A diaphragm, clamped between the inner and outer pistons, seals the pumping chamber and when actuated creates an alternating suction and pressure condition that opens and closes the inlet and outlet check valves. Flojet provides these pumps with no switch and no bypass for transfer or recirculating types of applications. Demand pumps are supplied with a pressure-actuated switch to provide on demand flow. Flojet provides pumps with an external bypass system for applications that are likely to see closed or partially closed discharge lines.

Our compact and lightweight air operated pumps can deliver up to 5 GPM of flow and 100 PSI pressure. Due to the self-priming capacity of these pumps, they can be located above the liquid level. Flojet designs these pumps for general, commercial and industrial markets. They have the ability for quick adaptation to a diverse array of applications. Our patented shuttle valve design virtually eliminates stalling. Finally, the availability of different port sizes eliminates the need for extra fittings and adapters.

The solenoid pumps are self-priming, double insulated and built to draw low amps for cool operation. These pumps deliver fluids from 0 to 0.4 GPM with pressures up to 230 PSI and are capable of handling a broad range of liquids. They are also available in various port sizes and elastomer options.







HOW TO SPECIFY A PUMP

The first step towards applying the right pump is to develop the specifications for the pump. It involves knowledge of the application and the chemical solution for pumping. The following tips will be helpful in collecting the required information to select the right pump for the application. Please refer to the Engineering Data and Tables at the end of this catalog to assist you in this process.

Flow

"Flow" is defined as the rate at which you want the liquid pumped. There are several factors that dictate the flow requirements in an application. Some of these are the size of the nozzle for spraying, cycle time for transferring and volume of the liquid per cycle for dispensing applications. In case you have a choice it is always advisable to choose a lower flow rate, which will increase the life and reliability of the pump.

Head/Pressure

Head or pressure in combination with the flow rate determine the size of a pump. This is a simple calculation in cases where the discharge is at a higher level than suction, and is determined by the differential height between the liquid level on the suction and discharge side. The flow required through a nozzle or an orifice determines the pressure required to deliver it. (Refer to page 17.) The same principle applies where there is a long narrow tube on the discharge. The frictional loss through the tube and the fitting dictates the pressure required at a certain flow. (Refer to page 17.) The required pressure also includes difference in the pressure of the suction and the discharge vessel when pumping into a higher-pressured vessel or from a vacuum. Here again the lower the pressure the better it will be for the life and reliability of the pump and the system. The chance of leakage also increases with the increase in pressure. Do not overlook the fact that high pressure requires pressure-rated tubing and fittings adding to the cost of your overall system.

Control

What turns the pump on and off is an important consideration since running the pump longer than required reduces pump life. For applications where there is a closed valve or a spray wand with a trigger, it is advisable to use a demand pump with a pressure switch to shut the pump off when the valve is closed. Running a positive displacement pump against a dead head could cause immediate failure. For other applications, it is useful to have a bypass system to prevent failure. More complicated pump controls may involve sensors and electronics.

Pump Driver

The decision to choose the right driving source is generally dictated by availability. If the pump is to be motor or solenoid driven, you will need to know the voltage and the frequency of the power source. AC or DC governs the kind of motor needed. The oscillating pumps that run on the cycling of the AC supply cannot work with DC voltages. If you have air available and choose an air driven pump, you need to know the pressure and means of regulating the incoming air to the pumps. In flammable atmospheres, Flojet recommends using an air driven pump properly grounded to prevent the potential of explosion.

Chemical Compatibility

It is essential to get all the details including the exact composition, temperatures and the concentration of the chemicals to be pumped. This information helps you choose the material of construction for the pumps for chemical compatibility. Corrosion causes leakage and failure. Refer to the chemical compatibility sheet in the back of the catalog as a guide. However, an actual soak test of the materials is strongly recommended before applying the pump. Flojet offers a free chemical compatibility test kit (F100-168) which will walk you through this process.

Priming

The pump needs to be primed when it is located above the level of the liquid or where a flooded suction can not be provided. Most positive displacement pumps can self prime as long as you stay within the limit of its priming capability. If that limit is exceeded, the pump will not prime and hence will not pump. This will lead to a condition where the pump runs without any liquid. This dry running will lead to early failure of the pump if it happens frequently and over extended periods of time.

Other important considerations, such as the duty cycle, plumbing and ambient temperature all have a direct bearing on the performance of a pump and need to be clearly understood and defined. The specification sheet at the back will help cover all the information needed for proper pump applications.

PUMP SELECTION

After establishing the specifications, you need to choose the right type of pump for your application. There are various styles of small pumps, i.e., pump flows under 20 GPM. These are broadly categorized as centrifugal, metering and positive displacement pumps.

Centrifugal

In small pumps, centrifugal is the predominant non-positive displacement pump. The principle used is to impart high velocity to the fluid with an impeller and convert the kinetic energy to head (or pressure). The head generated is directly proportional to the diameter of the impeller and hence the size of the pump. That means for a given pressure requirement, a centrifugal pump is more likely to be larger than a positive displacement pump. Centrifugal pumps need flooded suction as they cannot self-prime or tolerate dry running.

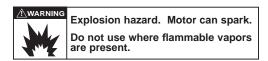
Metering pumps

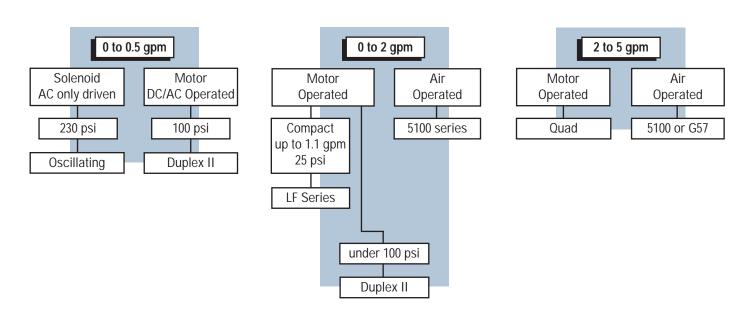
They pump precise volumes of liquid in a specified time period to give accuracy and repeatability of + or - 2% or better. These work on the principles of positive displacement and could be piston, bellows or diaphragm pumps.

Positive Displacement

In small pumps this is the most popular category, simply because of the advantages it offers with self-priming, dry run capacity, and compact size, among others. There are several styles of positive displacement pumps including air driven, bellows, diaphragm, flex vane, oscillating, and rotary vane. Diaphragm pumps are perhaps the most versatile of the positive displacement pumps as they offer more benefits than any other style. These pumps are also capable of being used in some metering applications where the repeatability is not very stringent.

Hence, after you have determined the specifications and decided that you do not need a centrifugal or metering pump, you can refer to the selection chart as follows to choose the right model of positive displacement pump.





DUPLEX II

DUPLEX II SERIES PUMPS

The Duplex II series of pumps incorporate the best technology and features developed by FLOJET. Everything from the back flow preventer, check valves, bearings and diaphragm assembly to the motor, have been designed to make this truly the most advanced and reliable diaphragm pump available. Higher efficiency of the pump is evident in the longer life of the motor pump unit. The new diaphragm design combined with the new valves makes the pump capable of pulling higher dry vacuum. Duplex II is available in various performance ranges, voltages and with a choice of elastomers, making it easily adaptable to a diverse range of applications.

SPECIAL FEATURES

- Self priming up to 8 feet (2.4 m).
- Can run dry without damage.
- Chemical resistant material.
- Internal bypass standard.
- Built-in back flow preventer.
- Heavy duty ball bearing drive system.
- UL, CSA and CE models available.

SPECIFICATIONS

Pump: Positive Displacement two piston design

Flow Rate: 2.2 GPM (8.32 L/min) for high pressure models

1.6 GPM (6.05 L/min) for medium and low pressure models

Pressures: Up to 100 PSI (6.89 bar)

Ports: 3/8" NPT female

Motor: Permanent Magnet with solid state rectifier

Voltages: 12 & 24 V DC, 115 & 230 V AC

Cycle: 50/60 hertz for AC models

Dry Vacuum: Up to 8 feet (2.4 M)

Pressure Switch Setting: 15, 30, 45, 60, 80, and 100 PSI

Wetted Parts: Polypropylene, Viton®, Buna or EPDM

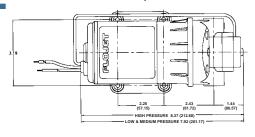
Net Weight: 4 to 5 lbs. (2.28 kgs)

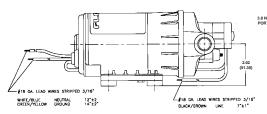
Maximum Operating Pressure: 100 PSI (6.8 bar)

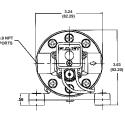


DIMENSIONS inches (mm)

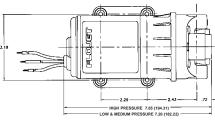
Demand Pump

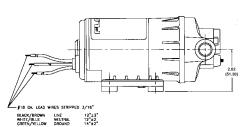


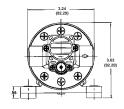




Bypass Pump



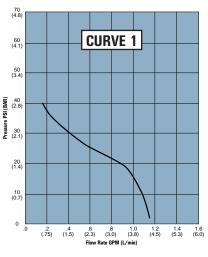


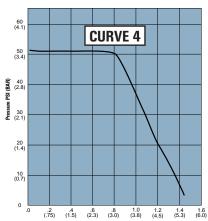


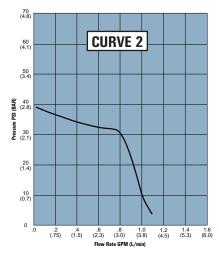
DUPLEX II

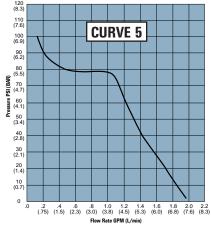
To choose a pump model number, fill in the desired voltage code for 'x' and the compatible elastomers code for 'y'. Hence, for a medium pressure demand pump where a 115 V AC motor is required and Viton is chosen, the model number becomes D3631V5011.

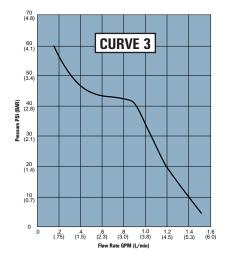
	Duplex II Standard Models					
Low Pressure	Demand Pump	D3	21* _			(Reference Curve #1)
(Up to 40 psi)	Bypass Pump	D3(x)	21* .	(y)	_ 1211	(Reference Curve #2)
Medium Pressure	Demand Pump	D3	31* _	(v)	_ 5011	(Reference Curve #3)
(Up to 60 psi)	Bypass Pump	D3(x)	31* _	(y) (y)	_ 1311	(Reference Curve #4)
High Pressure	Demand Pump	D3			7011	(Reference Curve #5)
(Up to 100 psi)	Bypass Pump	D3	35 _		_ 1411	(Reference Curve #6)
	6 for 115 v 7 for 230 v	VAC, 50/60 HZ VAC, 50/60 HZ		(V B	iton not ava for Buna C	Check Valves and Viton® Diaphragm ailable in high pressure diaphragm pump; heck Valves and Buna Diaphragm Check Valves and EPDM Diaphragm
Contact Flojet for 2	(See 230 V Notes) E for EPDM Check Valves and EPDM Diaphragm Note: All 230 V pumps have CE mark and full RFI suppression. This is denoted by the "RL" suffix in the model number. Contact Flojet for 230 V pumps with partial and no suppression. * Replace "1" with "2" for 230 V pumps.					

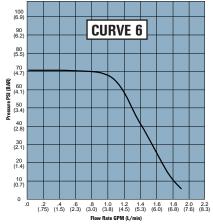












QUAD PUMPS

4000 SERIES PUMPS

Flojet developed the quad pumps to deliver higher flows up to 5 GPM using a four-piston design with excellent self-priming capability.

SPECIAL FEATURES

- Built-in pressure switch automatically starts and stops pump instantaneously when discharge valve opens and closes.
- Compact design and plug-in port fittings make installation easy.
- Can run dry without damage and handle liquids up to 130° F (54° C).
- No metal contact with liquid being pumped.
- Ball bearing drive throughout pump and motor assures longer pump life.
- Excellent self-priming capability. Pump may be located above the liquid level.

Flow Rate: 3.5 to 5.0 GPM (13.2 and 18.9 L/min) Nominal

Powerful, permanent magnet motor with low current draw and long life brushes.

SPECIFICATIONS

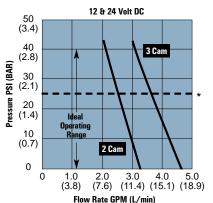
Pump Design: Diaphragm		
Shaft Seal: None		
Motor: TEFC Permanent Magne	et Motor	
Voltage: 12 & 24 Volt DC, 115 &	230 Volt AC	
Cycle: 50/60 hertz for AC Model	S	
Current: 1.5 amp max. (115 V)		
Pressure Switch Setting: 45 PS	I (3.2 bar) cut out	
Maximum Operating Pressure: 40 PSI (2.8 bar)		
Self-Priming: Up to 8 ft. (2.4 m) Vertical Height		
Ports: Plug-In Ports 1/2" or 3/4" Hose Barb Standard		
(Consult Factory for other type of Port Fittings)		
Wetted Parts: Housing	Modified Polypropylene - Standard	
Elastomers	Santoprene® and Buna - Standard	
Net Weight: 4 lbs. (2 kg)		

	STANDARD I	MODELS	CAM NO.		
	115 VOLT 3.5 GPM	1 1/2" HOSE BARB			
Г	4300-042	Santo/EPDM, Switch at 45 PSI (3.2 bar)	2		
	4100-500	Santo/EPDM, No Pressure Switch	2		
	115 VOLT 5.0 GPM	1 3/4" HOSE BARB			
	4300-043	Santo/EPDM, Switch at 45 PSI (3.2 bar)	3		
	4100-512	Santo/Viton®, No Pressure Switch	3		
	12 VOLT 3.5 GPM	1/2" HOSE BARB			
Г	4300-142	Santo/EPDM, Switch at 45 PSI (3.2 bar)	2		
	4100-505	Santo/EPDM, No Pressure Switch	2		
	12 VOLT 5.0 GPM 3/4" HOSE BARB				
Г	4300-143	Santo/EPDM, Switch at 45 PSI (3.2 bar)	3		
	4100-143	Santo/FPDM. No Pressure Switch	3		

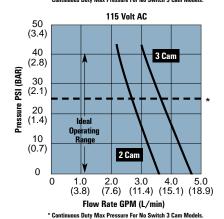
Note: All Motors Are Fan Cooled With A Thermal Switch Used On All Non-Pressure



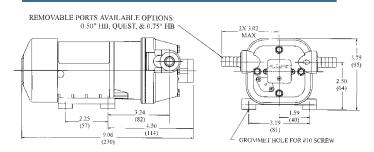
PUMP PERFORMANCE



us Duty Max Pressure For No Switch 3 Cam Models

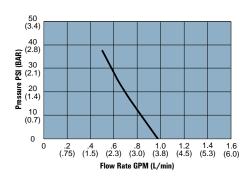


DIMENSIONS inches (mm)



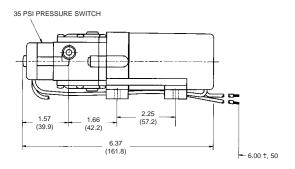


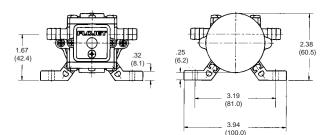
PERFORMANCE - LF12 AND LF11 SERIES



DIMENSIONS inches (mm)

LF12





LF PUMPS

LF SERIES

This ultra compact pump uses the duplex diaphragm design to deliver flow and pressure comparable to much larger pumps.

SPECIAL FEATURES

- Sealed pressure switch automatically starts and stops pump when discharge valve opens and closes.
- Self-priming so pump can be located above supply tank.
- Can run dry for extended periods of time without damage.
- Built-in thermal protector.
- Low amp draw for battery powered applications.

OPTIONAL FEATURES

- Sealed motor with protective metal cooling finned cover.
- Integral 5 amp in-line fuse with cover.
- Manual on/off switch with protective cap to turn off pump when supply tank is empty.

Specifications - LF12 and LF11 Series

Specifications - LF12 and LF11 Series
Pump Design: Reciprocating Diaphragm
Flow Rate: 1.0 GPM (3.8 L/min) Nominal @ Open Flow
Duty Cycle: Intermittent
Wetted Parts Housing: Polypropylene
Diaphragm: Santoprene®
Check Valve: Viton® or EPDM
Check Valve Spring: 316 Stainless Steel
Minimum Tip Size: #8 Tip, .072" (1.83 mm) Diameter
Port Type: 3/8" (9.5 mm) Hose Barb
Operating Pressure: 25 PSI (1.7 bar) Maximum
Pressure Switch Setting: 35 PSI (2.4 bar) Off
25 PSI (1.7 bar) On
Self-Priming: Up to 2.5 ft (.76 m) Vertically
Liquid Temperature: 110° F (43° C) Maximum
Motor Type: Permanent Magnet Motor
Motor Voltage: 12 V DC
Current: 2.5 Amp Nominal @ 25 PSI (1.7 bar)

Model No.	Diaphragm	Check Valve	Pressure Switch Setting PSI (bar)	Manual On/Off Housing	Motor	Protection
LF112201	Santoprene	Viton®	35 (2.4 bar)	Yes	Metal Finned	Fuse
LF122201	Santoprene	Viton®	35 (2.4 bar)	No	Plastic	Thermal
LF122202	Santoprene	EPDM	35 (2.4 bar)	No	Plastic	Thermal
LF122002	Santoprene	EPDM	No Switch	No	Plastic	Thermal

OSCILLATING PUMPS

OSCILLATING PUMPS

Flojet oscillating pumps are designed for general consumer, commercial and industrial applications. All models are self-priming double insulated and built to draw low amps for cool operation and can run dry for extended periods of time without damage.

SPECIFICATIONS

Technical Data:

Type of Pump	ET508-LP	ET508-HP	ET500	ET200
Temperature	Max. 160° F/71° C	Max. 160°F/71°C	Max. 160° F/71° C	Max. 176° F/80° C
Open Flow Rate	.32 GPM/73 LPH	.40 GPM/90 LPH	.18 GPM/40 LPH	3.8 GPH/240 cc/min.
Maximum Pressure	38 PSI/2.6 Bar	55 PSI/3.8 Bar	230 PSI/16 Bar	20 PSI/1.4 Bar
Self-Priming (up to)	6 (inHg)	6 (inHg)	2.6 (inHg)	1.3 (inHg)
Standard Voltage	115V/60Hz and 230V/50Hz, other voltages available upon request.			
Power Consumption (nominal)	37 Watts	46 Watts	53 Watts	18.5 Watts
Insulation Class	F (155° C)	F (155° C)	F (155° C)	H (180° C)
Elastomers	EPDM, Viton and Buna			
Piston and Spring	Stainless Steel for all models			
Filtering	4/1000 Mesh			
Approvals	U.L. and CSA Recognized, CE Certified*			

^{*} Approvals vary within the Product Line. Contact a Flojel Pepresentative for specific model listings recognitions and certifications.

Includes internal diode (except ET200 which requires an external diode). Standard Model Numbering System

ET508

ET508-ABC			
A Model Type	B Voltage	C Port - Elastomer	
1=LP Low Pressure	2=115/60Hz	1=Std. Port - EPDM	
2=HP High Pressure	4=230/50Hz	2=Std. Port - Viton	
3=HF High Flow		3=Threaded Port 1/8" F - EPDM	
		4=Threaded Port 1/8" F - Viton	

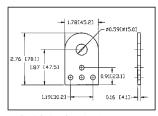
ET500

ET500-ABC			
A Model Type	B Voltage	C Port - Elastomer	
2=HP High Pressure	2=115/60Hz	3=Threaded Port 1/8" F - EPDM	
	4=230/50Hz	4=Threaded Port 1/8" F - Viton	

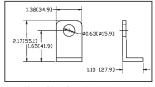
ET 200

£1 200			
ET200-ABC			
A Model Type	B Voltage	C Port - Elastomer	
0=LF Low Flow	2=115/60Hz	1=Std. Port - EPDM	
	4=230/50Hz		

Mounting Brackets

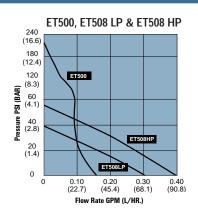


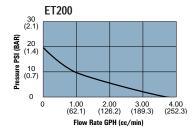
Straight Bracket - Part No. 20900000 • For ET508, ET500



'L' Shaped Bracket - Part No. 20890000
• For ET508, ET500

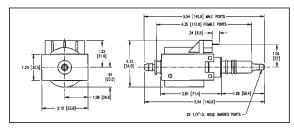
PERFORMANCE



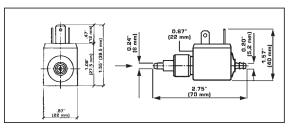


DIMENSIONS inches (mm) & MOUNTING BRACKETS

508/500 Series

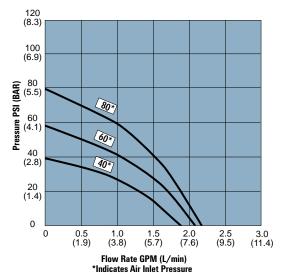


200 Series





PUMP PERFORMANCE



AIR OPERATED PUMPS

5100 SERIES

SPECIAL FEATURES

- Compact design with plug-in hose connections for quick installation.
- Variety of elastomers to ensure chemical compatibility.
- Variable capacity from zero to the maximum flow.
- No pressure relief or bypass plumbing required.
- Excellent self-priming. Pump may be located above the liquid level.

SPECIFICATIONS

Pump: Air-operated positive displacement double diaphragm pump Flow Rate: Up to 2.0 GPM (7.57 L/min)

Pressure: 20 to 75 PSI (1.38 to 5.51 bar)

Ports: Liquid 3/8' Air 1/4"

Wetted Parts: Buna, Santoprene®, Geolast® or Viton® for

diaphragms and valves

Acetal copolymer for housing

Self-Priming: 28 ft. (8.5 mm) Dry, 32 ft. (9.8 mm) Wet

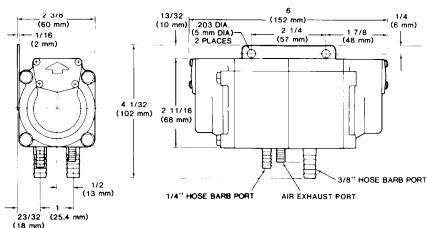
Gas/Air Consumption: Air Supply must be oil-free and dry

40 PSI at 1 GPM - 0.45 C.F.M.

60 PSI at 1 GPM - 0.58 C.F.M.

80 PSI at 1 GPM - 0.77 C.F.M.

DIMENSIONS inches (mm)



AIR OPERATED PUMPS

G57 SERIES

SPECIAL FEATURES

- Highest flow rate for any air pump of comparable size.
- Stall proof design with patented shuttle valve.
- Easy installation with all quick disconnect ports.
- Robust design with durable integral mounting.
- Sanitary design with inset molded diaphragm.
- Leak resistant radial seals, no critical O-ring seals.
- Quiet operation with large exhaust muffler.

SPECIFICATIONS

Pump: Air operated positive displacement double diaphragm pump Flow Rate: Up to 5 GPM (26.49 L/min)

Pressure: 20 to 100 PSI (1.38 to 8.27 bar) (Same as inlet air pressure)

Ports: Liquid 3/8", 1/2" and 3/4" Air 1/4"

Barb Port Fittings of 3/8" and 1/2" NPT

Wetted Parts:

Body: Polypropylene

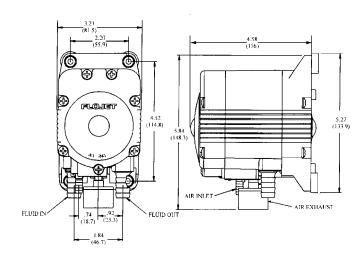
Diaphragm: Santoprene® or Viton®

Check Valves: Santoprene® or Viton®

Springs: Hasteloy C

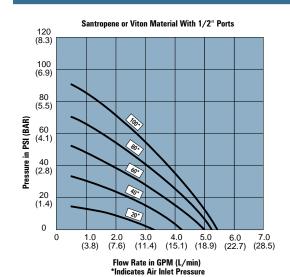
Net Weight: 1.2 pounds (0.54 kg.)

DIMENSIONS inches (mm)





PUMP PERFORMANCE



PERMANENT MAGNET MOTORS



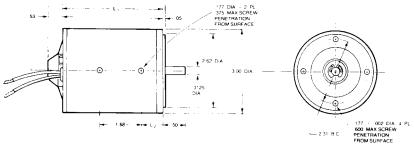
FLOJET MOTOR SERIES

Flojet manufactures a wide range of 3" diameter permanent magnet motors. These are designed as a more cost-effective alternative to larger series wound or induction type motors. They also offer flexibility of speed in the range of 1000 to 5000 rpm. Low heat rise and high efficiency ensures long and reliable service life. The ease with which these motors can be adapted to any application is enhanced by the availability of various motor lengths and shaft configurations. The fact that the motors are bidirectional increases their versatility. Most of our motors have the appropriate agency approvals including UL, CSA and CE.

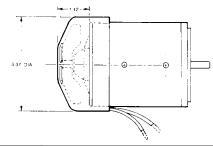
Motor Shaft Configurations Standard "D" Drive Threaded

DIMENSIONS inches (mm)

Totally Enclosed (TENV)



Fan-Cooled (TEFC)



STACK Lg (Approx.)	L,	L ₂	M.H.P.
.500	2.87	.56	20
.875	3.25	.56	50
1.250	3.70	.81	75
1.875	4.40	.81	100

Explosion ha

Do not use ware present.

Explosion hazard. Motor can spark.

Do not use where flammable vapors are present.

SPECIAL FEATURES

- Highly efficient permanent magnet design.
- Combines advantages of low amp draw heat rise with high torque and low speed.
- Diamond-turned commutator.
- Delivers up to 1/8 H.P. in compact 3-inch diameter.
- 6, 12, 24, 32, 36, 115, 230 and 240 volt AC or DC.
- Lightweight double insulated armatures.
- High starting torque up to 600% of rated torque.
- Speed control capability.
- Available with internal solid state rectifier (AC models only).
- Instant reversibility (DC voltages).
- Thermo protection available.
- Dynamic braking capability.
- UL recognized (115 Volt AC models only).
- Partial or full suppression available with CE certification.

SPECIFICATIONS

SPECIFICATIONS
Motor Design: Permanent Magnet
Size: 3 in. (76.1 mm) Diameter
Stack Length: 1/2 in 2 in. (12.7 - 50.8 mm)
Horsepower: Up to 1/40 - 1/8 H.P.
Duty: Continuous or Intermittent
Speed: 1100-5000 R.P.M.
Voltage: 6-230 Volt DC or Rectified AC
Insulation: Class B Standard
Bearings: Sleeve or Ball Bearing
Enclosure: Totally Enclosed / Totally
Enclosed Fan-Cooled

ACCESSORIES & FITTINGS



1720/1740 SERIES

Inlet Strainers

- Low profile design for space saving installation.
- Very strong reinforced plastic base with clear cover.
- Wide variety of port configurations from 3/4" to 3/8."

SPECIFICATIONS

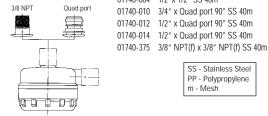
Materials	Base	Polypropylene, black
	Cover	Polysulfane, smoke tinted
	Screen	Stainless Steel, 20 and 40 mesh
		Polypropylene Screen, 20 mesh
	O-rings	Buna-N FDA Compound
Tomporatura	140°F (70°C) may	

Temperature: 160°F (70°C) max.

Dimensions: 2.75" (70 mm) diameter x 2.25" (57 mm) high 4.75" (121 mm) max. port to port (3/4" hose barb) Plug-in style, 3.75" (96 mm) max. length

Styles Available

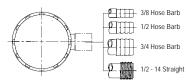
Model No.	Description	Model No.	Description
01720-000	3/4" x 3/4" hose barb SS 20m	01720-112	1/2" x Quad port 90° PP 20m
01720-002	1/2" x 1/2" hose barb SS 20m	01720-123	3/8" hb x 3/8" NPT (m) 90° PP
01720-023	3/8" hb x 3/8" NPT (m) 90° SS 20m	01720-375	3/8" NPT(f) x 3/8" NPT(f) SS 2
01720-102	1/2" x 1/2" hose barb PP 20m	01740-000	3/4" x 3/4" hose barb SS 40m
01720-103	3/8" x 3/8" hose barb PP 20m	01740-002	1/2" x 1/2" hose barb SS 40m



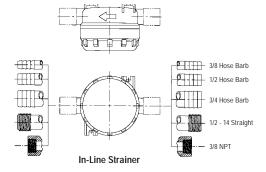
Model No. Description

01720-123	3/8" hb x 3/8" NPT (m) 90° PP 20m
01720-375	3/8" NPT(f) x 3/8" NPT(f) SS 20m
01740-000	3/4" x 3/4" hose barb SS 40m
01740-002	1/2" x 1/2" hose barb SS 40m
01740-003	3/8" x 3/8" hose barb SS 40m
01740-004	1/2"x 1/2" SS 40m
01740-010	3/4" x Quad port 90° SS 40m
01740-012	1/2" x Quad port 90° SS 40m
01740-014	1/2" x Quad port 90° SS 40m

SS - Stainless Steel PP - Polypropylene m - Mesh



Inlet Strainer (Plugs into Quad pump port)



ELECTRIC PUMP FITTINGS

Nylon Barbed Straight/Elbow

■ For use with all Duplex II Series Pumps (3/8" NPT only).



Part Number Straight	Part Number Elbow	r Description
91010-032	91010-033	3/8" NPT Male x 1/4" Barb
91010-004	91010-003	1/4" NPT Male x 3/8" Barb
91010-002	91010-001	3/8" NPT Male x 3/8" Barb
91010-034	91010-025	1/4" NPT Male x 3/8" Barb
91010-006	91010-005	3/8" NPT Male x 1/2" Barb
91010-053	91010-052	1/4" NPT Male x 1/4" Barb

Plastic (Polypropylene, EPDM)* Inlets & Outlets







Part Number Straight	Part Numbe Elbow	r Description
20381-000	20381-008	Quad Port x 1/2"-14 Male Straight
20381-002	20381-009	Quad Port x 1/2" Hose Barb
20381-006	20381-010	Quad Port x 3/4" Hose Barb
20381-007		Quad Port x Garden Hose Adapter
		<u> </u>

^{*} Other Flastomers Available

GAS PUMP FITTINGS

Stainless Steel Inlets & Outlets (Liquid Fittings)



■ For use with all Quad Series Pumps.

Part Number Straight	Part Number Elbow	Description
20324-030	20607-100	1/4" Hose Barb
20325-030	20608-100	3/8" Hose Barb
20606-100		1/2" Hose Barb

Brass CO₂/Air Inlets with Shutoff Valve (Air Fittings)



■ For use with all 5100 and G Series Pumps.



Description
1/4" Hose Barb, Straight
1/4" Hose Barb, Tee
1/4" Hose Barb, Elbow



Plastic (Celcon) CO₂/Air Inlets

■ For use with all 5100 and G Series Pumps.



Part Number	Description
20325-033	1/4" Hose Barb, Straight

^{* *} Packaged 2 per bag.

PRODUCT SPECIFICATION FORM

	CUST0	MER DATA
Company:		Date:
Address:		
City:	State:	Country:
Phone:	Fax:	E-mail:
Contact:	Title:	Annual Unit Sales:
Samples Requested:	Agency Approvals Red	
	, , , , , , , , , , , , , , , , , , ,	ATION DATA
Flow Pater Point (
Flow Rate: Point (,	Operating Pressure: Point (A)
Point (Point (B) Point (C)
Point (<u>(</u>	· · ·
Fluid Being Pumped:	Tanananatura Danas	Concentration:
PH Rating:	Temperature Range:	Viscosity:
Specify Gravity:	Suspended Solids:	Size:
Horizontal Mounting Position		al, Pump Head Down:
Suction Plumbing Type:	Size:	Length:
Vertical Distance:		ontal Distance:
Fittings/Elbows:		Disconnects: Size:
Discharge Plumbing Type:	Size:	Length:
Vertical Distance:		ontal Distance:
Fittings/Elbows:		Disconnects: Size:
Nozzle/Orifice Oty:	Size:	
Solenoid Controlled:		al Controlled:
Intermittent Duty:		nuous Duty:
Time On:	Time Off:	Hrs./Day: Days/Week:
Environmental Conditions:	Temperature Range:	Humidity Range:
	Noise Limitations:	Exposure To Sun:
	PRODUCT DATA	MOTOR INFORMATION
Voltage:	Minimum:	Maximum:
AC:	DC:	Source:
Torque Required:*	Speed Require	ed:* Max Amps:
Cord:	Special Leads	: Length:
Thermal Protection:	Temperature F	Range:
RFI Suppression:	Full:	Partial:
Base Plate:	Sealed Housir	ıg:
Other:		
	PUMP IN	FORMATION
Housing Materials:	Polypropylene	: Nylon:
Diaphragm Elastomers:	Santoprene®	
	Buna:	Viton®:
Check Valve Elastomers:	Santoprene:	EPDM:
THE STATE STATE OF THE STATE OF	Buna:	Viton:
Vented Body:	Vented Check	
		ss Required: Max. PSI:
Automatic Control:	PSI On:	PSI Off:
Completed By	*To be completed when spe	cifying/buying motor only. Date
completed by	to be completed when spe	onymy/baying motor only. Date

COMMON VISCOSITIES

MATERIAL	TEMPERATURE (F°)	VISCOSITY (cp)			
Water	70	1			
Gasoline	70	8			
Sulfuric Acid	70	10			
Kerosene	70	12			
Phenol	70	16			
Diethylene					
Glycol	70	30			
Corn Oil	130	34			
Water glass	100	60			
Water Soluble					
Oil	70	60			
Oil SAE 10	70	110			
SAE 20	70	150			
SAE 40	70	260			
SAE 60	70	740			
SAE 70	70	1050			
Asphalt	300	1000			
Tomato Catsup	70	3000			
Butter	70	10,000			
Mayonnaise	70	40,000			
Molasses	70	100,000			
Confectionary					
Glucose	70	1,000,000			
Asphalt	100	3,000,000			

NOMINAL DIMENSIONS OF STD SIEVES

Sieve Opening (mm)	USA std ASTM E 11-61	Sieve Opening (mm)	USA std ASTM E 11-61		
0.037 0.044	400 325	0.250 0.297	60 50		
0.045	-	0.300	-		
0.053	270	0.354	45		
0.063 0.074	230 200	0.355 0.420	- 40		
0.074	200	0.420	35		
0.088	170	0.595	30		
0.090	-	0.600	-		
0.105	140	0.707	25		
0.125 0.149	120 100	0.710 0.841	20		
0.150	-	1.00	18		
0.177	80	1.19	16		
0.180	- 70	1.20	-		
0.210	70	1.41	14		

TEMPERATURE LIMITATIONS

PLASTICS	MIN.	MAX.
Polypropylene	45°F	160°F
	(7°C)	(71°C)
Nylon	45°F	200°F
	(7°C)	(93°C)
Celcon	40°F	200°F
	(5°C)	(60°C)
ELASTOMERS	MIN.	MAX.
Viton®	50°F	200°F
	(13°C)	(93°C)
Buna-N	45°F	200°F
	(7°C)	(93°C)
EPDM	40°F	200°F
	(5°C)	(93°C)
Santoprene®	40°F	180°F
	(5°C)	(82°C)

FLOW DATA - NOZZLES

DISCHARGE HEAD					PROXI			THROUGH NOZZLES IN GPM (L/M) er of nozzles in inches (mm)					1 (L/M)
					072	1 1	078	.094 .140			.156		
PSI	(BAR)	FEET	METERS	((1.8)		2.0)	(2	2.4)	(3	.6)	(4.0)	
10	(0.7)	23.1	(.7)	.40	(1.5)	.50	(1.9)	.75	(2.8)	1.5	(5.7)	2.0	(7.6)
20	(1.4)	46.2	(14)	.56	(2.1)	.71	(2.7)	1.1	(4.2)	2.1	(8.0)	2.8	(10.6)
30	(2.1)	69.3	(21)	.69	(2.6)	.86	(3.3)	1.3	(4.9)	2.6	(9.8)	3.5	(13.3)
40	(2.8)	92.4	(28)	.80	(3.0)	1.0	(3.8)	1.5	(5.7)	3.0	(11.4)	4.0	(15.1)
50	(3.5)	115.5	(35)	.90	(3.4)	1.1	(4.2)	1.7	(6.4)	3.4	(12.9)	4.5	(17.0)
60	(4.2)	138.6	(42)	.98	(3.7)	1.2	(4.5)	1.8	(6.8)	3.7	(14.3)	4.9	(18.6)
80	(5.6)	184.8	(56)	1.1	(4.2)	1.4	(5.3)	2.1	(8.0)	4.2	(15.9)	5.7	(21.6)
100	(7.0)	230.9	(70)	1.3	(4.9)	1.6	(6.1)	2.4	(9.1)	4.7	(17.8)	6.3	(23.9)

When sizing a pump, be sure to account not only for the desired outlet pressure but also for a pressure drop due to friction losses. The table at right gives pressure drops in psi per 100 feet of pipe and tube. Use pipe friction losses when calculating discharge pressures. Pipe sizes shown apply to standard weight, Schedule 40 pipe. Tube is based on standard copper tubing.

PIPE FRICTION LOSSES (WATER)

			N	lominal	sizes (in	side dia	meters)			
GPM	1/4"OD tube	1/8" pipe	3/8"OD tube	1/4" pipe	1/2" pipe	3/8" pipe	1/2" pipe	3/4" pipe	1" pipe	1 1/2" pipe
	(0.21)	(0.27)	(0.36)	(0.36)	(0.43)	(0.49)	(0.62)	(0.82)	(1.05)	(1.61)
0.2 0.5 1 2 3 4 5 6 8 10 15 20 25 30 40 50 60 70 80 90	2" pipe (2.067) 0.073 0.108 0.224 0.375 0.561 0.786 1.35 2.03 2.87 4.97 6.20	1.86 10.5 37.2 134 2 1/2" pipe (2.469) 0.094 0.158 0.234 0.327 0.556 0.839 1.18 2.03 2.53 3.09	0.591 3.92 14.8 50.1 102 169 3" pipe (3.068) 0.083 0.114 0.192 0.288 0.406 0.540 0.687 0.861	0.359 2.39 8.28 30.1 64.1 111 4" pipe (4.026) 0.052 0.076 0.107 0.143 0.180 0.224	0.134 0.853 3.38 11.5 23.2 23.2 38.5 56.9 78.4 130 5" pipe (5.047) 0.035 0.047 0.060 0.072	0.042 0.539 1.85 6.58 13.9 23.9 36.7 51.9 91.1	0.167 0.602 2.10 4.33 7.42 11.2 15.8 27.7 42.4 93.2	0.033 0.155 0.526 1.09 1.83 2.75 3.84 6.60 9.99 21.6 37.8 58.1 86.3	0.050 0.164 0.336 0.565 0.835 1.17 1.99 2.99 6.36 10.9 16.7 23.8 41.5 66.4 92.8	0.043 0.071 0.104 0.145 0.241 0.361 1.28 1.93 2.72 4.65 7.15 10.2 13.7 17.6 22.0 26.9

TEMPERATURE CONVERSION FOR
FAHRENHEIT AND CENTIGRADE
SCALES

SCA	LES
DEGREES FAHRENHEIT	DEGREES CENTIGRADE
+212°F	+100°C
+203	+95
+194°F	+90°C
+185	+85
+176°F	+80°C
+167	+75
+158°F	+70°C
+149	+65
+140°F	+60°C
+95	+35
+122°F	+50°C
+113	+45
+104°F	+40°C
+95	+35
+86°F ———	+30°C
+77 —	+25
+68°F ———	+20°C
+59 ——	+15
+50°F ———	+10°C
+41 ——	+5
+32°F ———	0°C
+23 ——	-5
+14°F	-10°C
+5	-15
-4°F —	-20°C
-13 —	-25
-22°F ———	-30°C
-31 ——	-35
-40°F ———	-40°C

CONVERSION DATA

TO CONVERT	TO	MULTIPLY BY	TO CONVERT	TO	MULTIPLY BY
BAR	PSI	14.5	Grams	Milligrams	103
CENTIMETERS	Inches	0.3937	Grams	Ounces	0.03527
Centimeters	Feet	0.03280	Grams	Ounces (troy)	0.03215
Centimeters	Meters	0.01	Grams	Pounds	2.205x10 ⁻³
Centimeters	Millimeters	10	HORSE-POWER	B.T. Units/min.	42.44
CUBIC CENTIMETERS	Cubic feet	3.53x10 ⁻⁵	Horse-power	Foot-lbs./min.	33.000
Cubic Centimeters	Cubic inches	6.102x10 ⁻²	Horse-power	Foot-lbs./sec.	550
Cubic Centimeters	Cubic meters	10-6	Horse-power	Horse-power (metric)	1.014
Cubic Centimeters	Cubic yards	1.308x10 ⁻⁶	Horse-power	Kg-calories min.	10.70
Cubic Centimeters	Gallons	2.642x10 ⁻⁴	Horse-power	Kilowatts	0.7457
Cubic Centimeters	Liters	10-3	Horse-power	Watts	745.7
Cubic Centimeters	Pints (liq.)	2.113x10 ⁻³	INCHES	Centimeters	2.540
Cubic Centimeters	Quarts (liq.)	1.057x10 ⁻³	Inches	Millimeters	25.4
CUBIC FEET	Cubic centimeters	2.832x10 ⁴	Inches	Meters	0.0254
Cubic Feet Cubic Feet	Cubic inches Cubic meters	1728 0.02832	Inches INCHES OF MERCURY	Feet	0.0833 0.03453
Cubic Feet Cubic Feet		0.02832		Kgs./sq. cm.	70.73
Cubic Feet	Cubic yards Gallons U.S.	7.48052	Inches of Mercury Inches of Mercury	Lbs./sq. ft. Lbs./sq. inch	0.4912
Cubic Feet	Imperial gallons	6.23	INCHES OF WATER	Atmosphere	0.4912
Cubic Feet	Liters	28.32	Inches of Water	Inches of Mercury	0.002438
Cubic Feet	Pints (liq.)	59.84	Inches of Water	Kgs./sq. cm.	0.002450
Cubic Feet	Quarts (liq.)	29.92	Inches of Water	Ounces/sq. inch	0.5781
CUBIC FOOT WATER	Pounds	62.4	Inches of Water	Lbs./sq. ft.	5.202
Cubic Foot Water	Ounces	998.8	Inches of Water	Lbs./sq. inch	0.03613
Cubic Foot Water	Kilograms	28.315	KILOGRAMS	Pounds	2.205
CUBIC INCHES	Cubic centimeters	16.39	Kilograms	Tons (short)	1.102x10 ⁻³
Cubic inches	Cubic feet	5.787x10 ⁻⁴	Kilograms	Grams	103
Cubic inches	Cubic meters	1.639x10 ⁻⁵	LITERS	Cubic centimeters	10 ³
Cubic inches	Cubic yards	2.143x10 ⁻⁵	Liters	Cubic feet	0.03531
Cubic inches	Gallons	4.329x10 ⁻³	Liters	Cubic inches	61.02
Cubic inches	Liters	1.639x10 ⁻²	Liters	Cubic meters	10-2
Cubic inches	Pints (liq.)	0.03463	Liters	Cubic yards	1.308x10 ⁻³
Cubic inches	Quarts (liq.)	0.01732	Liters	Gallons	0.2642
FEET	Centimeters	30.48	Liters/min.	Gallons/mins.	0.264
Feet	Inches	12	Liters	Pints (liq.)	2.113
Feet	Meters	0.3048	Liters	Quarts (liq.)	1.057
Feet	Yards	1/3	METERS	Centimeters	100
FEET OF WATER	Atmospheres	0.02950	Meters	Feet	3.281
Feet of Water	Inches of Mercury	0.8826	Meters	Inches	39.37
Feet of Water	Kgs. sq. cm.	0.03048	Meters	Kilometers	10-3
Feet of Water	Lbs. sq. ft.	62.43	Meters	Millimeters	103
Feet of Water	Lbs. sq. inch	0.4335	Meters	Yards	1.094
GALLONS, U.S.	Cubic centimeters	3785	MILLIMETERS	Centimeters	0.1
Gallons, U.S.	Cubic feet	0.1337	Millimeters	Inches	0.03937
Gallons, U.S.	Cubic inches	231	POUNDS (AVOIR.)	Ounces	16
Gallons, U.S.	Cubic meters	3.785x10 ⁻³	Pounds (avoir.)	Drams	256
Gallons, U.S.	Cubic yards	4.951x10 ⁻³	Pounds (avoir.)	Grains	7000
Gallons, U.S.	Fluid ounces	128	Pounds (avoir.)	Tons (short)	0.0005
Gallons, U.S.	Liters	3.785	Pounds (avoir.)	Grams	453.5924
Gallons, U.S.	Pints (liq.)	8	Pounds (avoir.)	Pounds (troy)	1.21528
Gallons, U.S.	Quarts (liq.)	4	Pounds (avoir.)	Ounces (troy)	14.5833
Gallons, U.S.	Imperial gallons	0.83267	Pounds (avoir.)	Kilograms	0.454
GALLONS (IMP)	U.S. gallons Pounds of water	1.20095	POUNDS OF WATER	Cubic feet Cubic inches	0.01602
GALLONS, U.S.		8.3453	Pounds of Water		27.68
Gallons, U.S.	Kilograms Cubic feet/sec.	3.785 2.228v10-3	Pounds of Water Pounds of Water	Gallons	0.1198 0.10
GALLONS/MIN Gallons/Min.	Liters/sec.	2.228x10 ⁻³ 0.06308	Pounds of Water POUNDS/SQ. INCH	Imperial gallon	0.10
Gallons/Min.	Liters/Min.	3.785	l .	Atmospheres Feet of Water	2.307
Gallons/Min.	Cu. ft. hr.	8.0208	Pounds/Sq. Inch Pounds/Sq. Inch		2.307
GRAMS	Dynes	980.7	Pounds/Sq. Inch	Inches of Mercury Kgs. sq. cm.	2.036 0.07031
Grams	Grains	15.43	Pounds/Sq. Inch	Rys. sq. ciii. Bars	0.07031
OI UIII I	JIUIIIJ	10.70	i Uulius/Ju, IIIUII	ט וט ט	0.00073

CHEMICAL RESISTANCE GUIDE

This Chemical Resistance Guide is offered to assist in selecting pump materials that are most resistant to the chemicals that may be used with a FLOJET pump.

The information is based on FLOJET laboratory tests, field testing programs and general data from industry sources. It should be used only as a guide in the selection of pump materials. Suitability for the application should be determined by actual use and is the full responsibility of the customer. No warranty, expressed or implied, can be extended by FLOJET where failure is caused by chemical attack on pump materials. Temperature, aeration, concentration and other factors may change the effect of the specific fluid on the pump materials. Data shown is based on results at ambient temperatures, unless otherwise noted. Flojet recommends the use of our Soak Test kit number F100-168, available for free upon your request.

RATING SYSTEM

The "A" rating indicates little effect on the physical properties of the material (Generally Satisfactory).

The "B" rating indicates minor to moderate effect (Generally Satisfactory But Should Be Qualified By Testing).

The "C" rating indicates a change in the physical properties in excess of acceptable tolerances could occur (Generally Not Satisfactory, Must Be Qualified By Testing).

The "D" rating indicates rapid physical deterioration, swelling of check valves, diaphragm or chemical attack on the pump housing material (Not Satisfactory).

Where no rating is shown data is not currently available, pump materials should be qualified by testing.

It is recommended that the pump be thoroughly flushed with water or other neutralizing agent after each use whenever possible.

_	ΡI	LAS	TIC:	S	El	LAS	TON	/IERS	5	ALL	.OYS		Р	LAS	STIC	S	Е	LAS	TON	1ER:	S	ALL	LOYS
	YLENE		LENE	COPOLYMER					ENE	LESS STEEL	λ(PYLENE		LENE	COPOLYMER					ENE	LESS STEEL	λ(
	POLYPROPYLENE	NATON	POLYETHYLENE	ACETAL C	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS	HASTELLOY		POLYPROPYLENE	NATON	POLYETHYLENE	ACETAL C	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS	HASTELLOY
	A	Α	D		С	D	A	В		Α	Α	Ammonium Flouride, 25%	Α	Δ.	Λ	0	D	0	۸	^		^	_
	A D	A	A		B D	A D	В	A V		A		Ammonium Hydroxide Ammonium Metaphosphate	A	Α	A	С	B A	C A	Α	A		Α	В
	D	A	В		D	D	С	В		A		Ammonium Nitrate	A	В	Α		A	A		A		Α	D
	A	D	A		D	C	В	В		A	Α	Ammonium Oxalate		В				Α				A	_
Acetic Acid, 10%	Α	С	Α		С	В		В		Α	_	Ammonium Persulfate	Α	С	Α		В	С		В		Α	D
<u>-</u>	A	В	Α		С	В	В	В		Α		Ammonium Phosphate, Dibasic	Α	С	Α		Α	Α	Α	Α		С	
	A	D	Α		С	A	_	В		Α		Ammonium Phosphate,										0	
	В	D	Α		С	С	В	A	Λ	Α		Monobasic	A_	В	Α		Α	Α	Α	A		С	_
<u> </u>	A C	D A	A C		D D	C D	V	V	Α	A	A	Ammonium Phosphate, Tribasic Ammonium Sulfate	A	B A	A		A	A	A	A		ВВ	В
	A	A	С	Α	D	D	В	A		A		Ammonium Thiosulfate			A			A				A	
	С		_		D	C		Α		В	_	Amyl Acetate	С	Α	Α		D	D	D	Α		Α	A
	D	D	D		Α	D	С	D		В	_	Amyl Alcohol	В	Α	В		В	В	D	Α		Α	
	A	Α	Α		Α	В	В	Α		Α		Amyl Chloride	D	С	D		В	D	D				Α
	A		Α		Α	D				Α		Anniline	С	С	В	В	D	D	D	В	Α	В	В
	A	A	Δ.		_		_		Δ.	A		Anti-Freeze	D	D	0	Α	A	A	_		Α	A	_
	A	Α	Α		D	D A	D	D	Α	В		Aqua Regia Arochlor	B D	D A	C B		B A	D C	D B	D		D B	D A
Adipic Acid Aero Lubriplate	-				Α	A	В					Aromatic Hydrocarbons	D	А	D		A	C	D	B D		В	A
Aero Safe 2300	-				D	D	С					Arsenic Acid	A		В		Α	A	A	A		В	В
	Α	Α	В		С	В	D	Α				Asphalt	В	Α	С		Α	В	D	D		A	
	Α	D	D		Α	D		В		Α	Α	Barium Carbonate	Α	Α	В		Α	Α		Α		В	В
	A	Α	Α		Α	Α	В	В		Α	Α	Barium Chloride	Α	Α	Α		Α	Α	Α	Α		В	Α
	A	Α	В		С	D	D	Α		A	Α	Barium Cyanide	D		В		Α	С	^	Α		В	_
Alcohol - Ethyl Alcohol - Hexyl	A	A	B A		B B	C A	B B	Α		A	A	Barium Hydroxide Barium Nitrate	B A	A	B B		A	B A	Α	A		ВВ	B
	A	A	A		А	В	А	Α		A	A	Barium Sulfate	A	A	А		A	A	Α	A		А	С
	A	В	Α		Α	В	Α	Α		A	A	Barium Sulfide	В	A	Α		Α	A	Α	A		/ \	_
Alcohol - Methyl	Α	Α	Α		С	Α	Α	Α		Α	Α	Beer	Α	Α	Α	Α	Α	Α	Α	Α		Α	Α
	Α	Α	Α		В	В	В	Α		Α	Α	Beer Sugar Liquid	В	Α			Α	Α	Α	Α		Α	
	A	В	Α		Α	Α	Α	Α		Α	Α	Benzaldehyde	С	С	D		D	D	D	С		Α	Α
			В		Α	Α	В	Α		С		Benzalkonium Chloride	0	Λ	D	Λ	Λ	<u>D</u>	D			D	_
Aluminum Chloride Aluminum Citrate	A	D	В		Α	Α	В	Α		С	В	Benzene Benzoic Acid	C B	A C	D C	Α	A	D D	D B	D C		B B	B
	A	Α	Α		С	Α	В	Α		С		Benzol	A	D	С		A	D		В		A	
Aluminum Formate					D	D						Benzyl Benzonte			Ť		Α	D		С			
	Α	Α	Α		В	Α		Α		Α		Benzyl Chloride					D	D	D	D			
	A		Α		В	Α						Black Liquor	Α	Α		Α	Α	Α	В	В			
	A				D	Λ						Bleach	Α	С	Α		Α	D	В	Α		Λ	_
Aluminum Phosphate Aluminum Potassium Sulfate 10%	Λ	D	Α		A	A	Α	Α		В	С	Borax Boric Acid	A	A B	A		A	C A	B A	A		A B	A
	A	D	A		A	A	A	A		A		Brake Fluid	А	В	А	Α	D	C	C		Α	В	A
		A	Α		Α	A	Α	Α		В	В	Brewery Slop				,,	A	A				Α	
	В	D			D	D	В	В			_	Brine	Α				Α	Α					
	A	Α	С		С	D			Α			Brine Acid	Α		Α		Α	Α		Α			
. ,	A	A	Α		D	С	D	Α		Α	В	Bromic Acid	D				Α			В			_
	A	В			D	С		Α		A		Bromine Dry Bromine Gas		D D			Α	D	D	D			A
Ammonium Acetate	A	D			D A	C A		A		Α		Bromine Liquid	D	D D	D		A	D D	D D	D D		D	A
Ammonium Alum	+					В						Bromine Water	C	D	D		A	С	D	D			A
Ammonium Bichromate	1					A		Α			_	Bromobenzene			Ť				D				Ë
Ammonium Biflouride	Α		Α		Α	В		Α			_	Bromotoluene	D										
	Α											Butadiene	С	Α	D		Α	С	D	С		Α	
	A	Α	В		Α	С	Α			В	В	Butane	Α	Α	С		Α	Α	D	С		Α	В
Ammonium Casenite	Λ	0	Λ		Λ	D		Λ		A		Butanediol			Α		Α	Λ	Р	D		Δ.	_
Ammonium Chloride Ammonium Dichromate	A	С	Α		Α	B A		Α		С	В	Butter Buttermilk	Α	В	A		A	A	В	Α		Α	A
Ammonium Flouride	+					В						Butylene		В	C		A	В	D	D		A	_
	A				Α	A					_	Butyl Acetate	В	A	С		D	D	D	В	Α	В	Α
												-											I

	P	LAS	STIC	S	E	LAS	TON	/IERS	S	ALL	.OYS		F	LAS	STIC	S	EI	LAS	TON	/IER	S	ALL	OYS
	POLYPROPYLENE	NATON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS STEEL	HASTELLOY		POLYPROPYLENE	NATON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS STEEL	HASTELLOY
Butyl Acrylate Pure	D				D			Α				Copper Chloride	Α	Α	В		Α	Α	Α	Α		С	В
Butyl Acrylate Saturated	D D				D D	С	D	D			D	Copper Cyanide	Α	Α	Α		Α	A	Α	Α		A	В
Butyl Amine Butylebenzine	D				A	C D	В	D			В	Copper Fluoborate Copper Nitrate	Α	D	В		A	B A				D B	В
Butyl Benzorte					A	D		Α				Copper Culfate	A	С	В		A	A	Α	Α		В	В
Butyric Acid	С	В	С		С	D		В		В	В	Cream	A	A			Α	A		-, -		A	
Calcium Bisulfate							Α			Α		Cresols	D	D	С		Α	D	D	D		Α	В
Calcium Bisulfide	Α	Α			Α	Α		С		В		Cresylic Acid	D	D	В		Α	D	D	D		Α	В
Calcium Bisulfite	В	Α	Α		Α	Α	Α	D		Α	В	Cyanic Acid					Α	С					
Calcium Carbonate	Α	Α	В		Α	Α	Α	Α		В	В	Cyclohexane	С	Α	В		Α	В	D	D	D	Α	В
Calcium Chlorate	Λ	Λ	D		Α	С	Λ	Α				Detergents	В	Α	Α	В	Α	A	Α	Α		Α	В
Calcium Chloride Calcium Hydroxide	A	Α	B B		A	A B	Α	A		B B	B A	Diacetone Alcohol Diazo Salts	A		Λ		D	D	D	Α			_
Calcium Hyprochloride	A	A C	В		A	В	A B	В		С	В	Diazo Salis Dibutyl Amine	Α		Α		С	С	С	D			_
Calcium Sulfate	A	D	В		A	A	ь	A		В	В	Dibutyl Ether					С	C	D	C			_
Calgon	A	A		В	A	A		A		A		Dibutyl Phthalate	В	Α			В	D	В	A			В
Cane Juice	C	Α			Α	A	Α	Α		A		Dibutyl Sebacate		, ,			С		В	В			_
Carbolic Acid	В	D	В		Α	С	D	В		В		Dichlorethane	Α	С	С		С					В	
Carbon Bisulfide	С	Α	D		Α	С		D		В		Dichloromethane					В	D		D			_
Carbon Dioxide (wet or dry)	Α	Α	В		Α	С	В	В		Α	Α	Diesel Fuel	В		С	Α	Α	Α	D	D		Α	В
Carbon Monoxide	Α	Α	Α		Α	Α	Α	Α		Α	Α	Diethylamine	В	Α	D		С	С	В	В		В	
Carbon Tetrachloride	D	С	D		В	С	D	D		В	В	Diethyl Ether	В			Α	С	D	D	С	Α		В
Carbonated Water	В	Α	Α		Α	A	Δ.	Δ.		A		Diethyl Oxide	^	۸	_		D	В	<u> </u>	D		^	
Carbonic Acid Casein	Α	Α	Α		A	B A	Α	A		В	<u>A</u>	Diethylene Glycol Diglycolic Acid	A	Α	В		A	Α	D	A		Α	_
Castor Oil	Α		С		A	A	Α	В				Diisobutyl Ketone					D			D			
Catsup	A	Α			A	A	/ \		С		Α	Diisobututylene					A		D	D			_
Caustic Lime					В	Α		Α				Diisooctyl Phthalate					В			В			
Caustic Potash	Α				D	Α		Α			В	Diisopropyl Ketone					D		D	В			
Caustic Soda	Α				В	С		Α			Α	Dimethyl Amine	Α				D	В		С			
Chloral Hydrate	Α	D			Α	С						Dimethyl Benzene					Α	D		D			
Chloracetic Acid	С	D	С		D	С		В		С	A	Dimethyl Ether					В	В	_	В			
Chloric Acid		D				D				С		Dimethyl Formamide	Α	Α		Α	С	В	В	В	Α		
Chloric Acid, 20% Chlorinated Glue	D				Λ	С		В		A	_	Dimethyl Ketone Dimethyl Phthalate					D B	D C		A B			_
Chlorine Dioxide	С				A D	C		D		А		Dimethylamine	Α				D	C		D			_
Chlorine Dry	C	D	В		С	D	D	В		В	В	Dioctyl Phthalate	D		D		A	D	С	В			
Chlorine Gas Dry	D		Ė		В	С		D			_	Dioxane	В	Α			D	D	D	В			_
Chlorine Gas Wet	D				С	С		D				Diphenyl Oxide	D		D		Α	D	С	D		В	
Chlorine Liquid	С	D	С		Α	С				D		Dyes		Α			Α					Α	
Chlorine Water	С		Α		Α	С		В		С	В	Epsom Salts	Α	Α	Α		Α	Α	Α	Α		В	Α
Chlorobenzene (Mono)	С	В	С		A	D	D	D		В		Ethane	С	D	D		Α	Α	D	D		Α	A
Chloroform	С	D	С		A	D	D	D		A	A	Ethanolamine	В	Α	0		D	В	В	В		A	В
Chlorosulfonic Acid Chlorox Bleach	D D	D A	D B		D A	D B	D	D B		D A	Α	Ether Ethyl Acetate	D B	A	C B	Α	C D	D D	D B	В		ВВ	B A
Chocolate Syrup	A	A	В		A	A		D		A	_	Ethyl Chloride	C	A	В		A	A	D	A		A	В
Chresylic Acid, 50%		7.	D		A	D				-, -		Ethyl Sulfate		7.			Α	A		- ' '		D	
Chrome Alum			Α		Α	Α	Α					Ethylene Chloride	С	В	С		В	D	D	D		Α	В
Chromic Acid, 05%	С	D	В		Α	D	С	Α		Α	Α	Ethylene Dichloride	В	В	С	Α	Α	D	D	С		Α	Α
Chromic Acid, 10%	В	D	Α		В	D	С	В		В	Α	Ethylene Glycol	Α	В	Α	В	Α	Α	Α	Α		Α	В
Chromic Acid, 20%	С	D	Α		В	С	С	В				Ethylene Oxide	С	Α	С		D	D	D	С		С	_
Chromic Acid, 30%	С	D	Α		Α	D	С	В		В		Fatty Acids	В	A	В		D	D	D	С		A	A
Chromic Acid, 50%	С	D	С		Α	D	С	В		В	<u>D</u>	Ferric Chloride Ferric Nitrate	В	C	A		Α	В	В	A		С	С
Chromium Alum Cider	A		В		A	A		Α		A		Ferric Nitrate Ferric Sulfate	B B	A	B A		A	A	В	A		A	ВВ
Citric Acid	A	Α	А	Α	A	A	Α	Α		A	A	Ferrous Chloride	A	С	A		A	A	D	А		C	D
Citric Oils	A	71			A	A	М	В		A		Ferrous Sulfate	A	С	A		A	A		Α		В	В
Cobalt Chloride					A	A	В	A				Flouboric Acid	A	D	В		Α	A		A		С	A
Coconut Oil	Α		Α		Α	Α	Α	Α		Α		Fluorine	С	D	С		В	С	D	Α		С	В
Coffee	Α	Α			Α	Α	Α	Α		Α		Fluosilic Acid	Α	D	В		Α	Α	В	Α		В	

	P	LAS	STIC	S	Е	LAS	TON	/IER	S	ALI	.OYS		P	LAS	STIC	S	Е	LAS	TON	/IER	S	ALL	.OYS
	POLYPROPYLENE	NAFON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS STEEL	HASTELLOY		POLYPROPYLENE	NAFON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS STEEL	HASTELLOY
Formaldehyde	С	D	В		D	С	В	Α		Α	В	Jet Fuel JP-4	В	Α	С		Α	В	D	D		Α	A
Formaldehyde, 40% Formic Acid	A	C	A B		A C	B B	В	A		A C	B B	Jet Fuel JP-5 Kerosene	B A	A	C	Α	A	A	D D	D D		A	A
Freon 11	D	D	С		A	В	D	D	С	A	В	Ketones	В	A	С	A	D	D	U	C		A	В
Freon 12	D	D	С		В	A	D	В		A	_	Laquer	В	Α	С		D	D	D	D		Α	Ď
Freon 22	Α	В	Α		D	D	D	A		Α	_	Laquer Thinner	В	Α	В		D	D	D	A		Α	
Freon 113	D		D		В	Α	D	D		Α		Lactic Acid	Α	С	В		Α	Α	Α	В		Α	В
Freon T.F.	D	D	D		В	Α	D	D		Α		Lard	Α	Α	В		Α	Α	В	С			Α
Fructose	Α		Α		Α	Α		Α		Α		Latex	Α	Α	Α		Α	Α		В		Α	
Fruit Juice	Α	Α	В		Α	Α				Α		Lead Acetate	Α	В	В		D	В	D	Α		В	В
Fruit Pulp	A	Λ	A		Α	Λ	0	D		Α	_	Lead Chloride	A				Α	Λ	D	A			
Fuel Oils Furan Resin	B D	Α	D D		A D	A D	C D	D C		A	B A	Lead Nitrate Lead Sulfamate	A	В	Α		A	A B	B B	A		ВВ	В
Furfural	С	В	D		D	D	D	В		A	В	Ligroin	B	D	C		A	A	D	C		А	_
Gallic Acid	A	В	D		A	A	U	A		В	В	Lime	A	A	В		A	A	В	C		A	_
Gasoline	D	A	D	Α	В	A	D	D		A	A	Linoleic Acid	A	,,			В	В	В	D		Α	_
Gelatin	Α	Α	Α		Α	Α	Α	Α		Α	В	Linseed Oil	Α	Α	D	Α	Α	Α	Α	В		Α	Α
Glucose	Α	В	Α		Α	Α	Α	Α		Α		Lubricants	Α	Α	D		Α	Α	D	D		Α	В
Glue		Α	Α		Α	Α	Α	Α		Α		Magnesium Carbonate	Α		Α		Α	Α		Α		Α	В
Glycerin	Α	Α	Α		Α	Α	Α	Α	Α	Α	Α	Magnesium Chloride	Α	Α	Α		Α	Α	Α	Α			Α
Glycerol	Α	Α	Α		Α	Α	Α	Α	Α	Α	A	Magnesium Hydroxide	Α	В	Α		Α	Α	Α	Α		Α	В
Glycolic Acid	Α		Α	С	Α	Α	Α	Α		Α	В	Magnesium Nitrate	A	Α	Α		Α	Α		Α		Α	В
Gold Monocyanide		Λ	D		A	Α				Α		Magnesium Oxide	Λ	Λ	Λ		۸	Α	Λ	Λ		A	
Grape Juice Grease		Α	В		A	A D				A	_	Magnesium Sulfate Maleic Acid	A A	A B	A B		A	A D	A B	A D		ВВ	A B
Heptane	С	Α	С	Α	A	A	D	D		A	В	Maleic Anhydride	D	D	Ь		A	D	Ъ	D		D	A
Hexane	C	A	C	71	Α	A	D	D		A	В	Mash		Α			Α	A		A		Α	
Honey	Α	Α	В		Α	Α				Α		Mayonnaise		Α	В		Α	Α				Α	
Hydraulic Oil (Petroleum)	D	Α	D		С	Α	С	D		Α		Melamine	Α	Α			Α	С		Α		D	
Hydraulic Oils (Synthetic)	D	Α	Α		Α	С				Α		Mercuric Chloride	Α	D	Α		Α	Α				С	D
Hydrazine	С				Α	В	С	Α		Α		Mercuric Cyanide	Α	Α	Α		Α	Α				В	D
Hydrobromic Acid 20%	Α	D	В		Α		D	Α		D	В	Mercury	В	Α	Α		Α	Α		Α		Α	В
Hydrobromic Acid	A		Α		Α	D	D	A		D		Methyl Acetate	D	Α			D	D	D	В		Α	В
Hydrochloric Acid dry gas Hydrochloric Acid, 20%	В	A	Α	D	Λ	C		С	Λ	D	A	Methyl Acrylate	D	Λ	В		D	D	D	В		Λ	_
Hydrochloric Acid, 37%	B B	D D	A C	U	A	В	C B	A	Α	D D	B A	Methyl Acetone Methyl Bromide	С	A C	D		A	D D			D	A	
Hydrochloric Acid, 100%	D	В	_		Α	D	D	C		D	A	Methyl Butyl Ketone	D	D	A		D	D	D	Α			В
Hydrocyanic Acid	Α	С	Α		Α	В	С	A		В	Α	Methyl Cellosolve	В	С	В		D	С	D	В		Α	
Hydrocyanic Acid (Gas 10%)	Α				Α	В		Α				Methyl Chloride	D	С	С		Α	D	D	С		Α	В
Hydrofluoric Acid, 20%	Α	С	Α		Α	С	D	Α		С	В	Methyl Dichloride	D	С			Α	D	D	D			
Hydrofluoric Acid, 50%	Α	D	Α		Α	С	D	Α		D	В	Methyl Ethyl Ketone	Α	Α	В		D	D	D	Α	Α	Α	В
Hydrofluoric Acid, 75%	С	D	С		Α	D	D	С		D	В	Methyl Isobutyl Ketone	С	Α	Α		D	D	D	С		Α	
Hydrofluosilicic Acid	A	D	В		Α	В	D	Α		D	В	Methyl Isopropyl Ketone	D	D	D		D	D	D	В		Α	_
Hydrogen Gas Hydrogen Peroxide, 10%	A B	A C	A	Α	A	Α	C B	Α		A B	A D	Methyl Methacrylate Methylamine	D D				D D	D D	С	D A		Α	_
Hydrogen Peroxide, 30%	В	D	C	А	A		В			В	D	Methylene Chloride	В	С	С		В	D	D	D		В	A
Hydrogen Peroxide, 50%	В	D	С		A		В			A	C	Milk	В	A	A		A	A	A	A		A	A
Hydrogen Peroxide, 100%	В	D	С		Α	В	В	Α		A	A	Mineral Oil	A	Α	D	Α	Α	A	В	D		Α	<u> </u>
Hydrogen Sulfate (aqua)	Α	С	Α		D	D	С	Α		С	Α	Molasses	Α	Α			Α	Α		С			Α
Hydrogen Sulfide (dry)	Α	С	Α		D	Α	С	Α		В	В	Motor Oil	С			Α	Α	Α		D			
Hydroxyacetic Acid			Α		Α	Α		Α				Mustard	Α	Α	Α		D	С	Α	Α		Α	Α
Hydroxyacetic Acid (70%)			Α		Α	Α		Α			_	Naptha	С	Α	Α		Α	С	D	D		Α	В
Hydroxylamine Sulfate	A		Α.		Г	D		A		D	_	Napthalene	В	Α	Α		Α	D	D	D	Α	В	
Hypochlorous Acid	A	C	A D		В	D		В		D	<u> </u>	Natural Gas	A				Α	Α	Α	D			_
Ink Iodine	A B	C D	В		A	A B		В		A C	В	Neon Nickle Chloride	Α	С	В		A	A	A	A		С	A
Isotane	D	D	ט		A	A		ט		C	ט	Nickle Chloride Nickle Sulfate	A	A	В		A	A	A	A		В	В
Isopropyl Acetate	В	В	В		D	D	D	В		В	В	Nitric Acid (5-10%)	A	C	В	D	A	D	C	$\frac{\Delta}{D}$			D
Isopropyl Ether	C	A	С		D	В	D	D		A	_	Nitric Acid (20%)	A	D	С		Α	D	D	В		Α	D
Jet Fuel JP-3	Α	Α	С		Α	Α	D	D		Α	Α	Nitric Acid (50%)	D	D	С		Α	D	D	D			D
											l												I

	P	LAS	STIC	S	Ε	LAS	TON	1ERS	S	ALL	.OYS		P	LAS	TIC	S	El	LAS	TON	1ERS	S	ALL	OYS
	POLYPROPYLENE	NATON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS STEEL	HASTELLOY		POLYPROPYLENE	NATON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS STEEL	HASTELLOY
Nitric Acid (Concentrated) Nitrobenzene	D	D B	C		A B	D D	D D	D D	Λ	A		Plating Solutions - Antimony	Α	Λ			Α	Α				Α	
OILS	В	В	C		В	D	υ	U	Α	А	С	Plating Solutions - Arsenic Plating Solutions - Brass	A	A	В		A	A				A	_
Aniline	Α	Α			С	D	D	В		Α	_	Plating Solutions - Bronze	A	A			Α	Α		Α		A	_
Anise		Α								Α		Plating Solutions - Cadrium	Α	С			Α	Α					Α
Bay					Α					Α		Plating Solutions - Chrome	Α	D			Α		D				
Bone	Α				Α	Α				Α		Plating Solutions - Copper	Α	С			Α	Α					Α
Castor Cinnamon	Α	Α			Α	Α	Α	В		Α		Plating Solutions - Gold	A	A			Α	Α				Α	
Citric		A			A					Α	_	Plating Solutions - Indium Plating Solutions - Iron	A	D D			A	A				A	A
Clove		A			A	Α				Α	_	Plating Solutions - Lead	A	D			A	A				А	A
Coconut	Α	A			A	A	Α	С		A	_	Plating Solutions - Nickel	A	С			Α	Α					A
Cod Liver	Α				Α	Α	В	Α		Α		Plating Solutions - Silver	Α	Α			Α	Α		Α		Α	
Corn	Α	Α	С		Α	Α	Α	С		Α		Plating Solutions - Tin	Α	D			Α	Α					Α
Cotton Seed	Α	Α	В		Α	Α	Α	С		Α		Plating Solutions - Zinc	Α	D			Α	Α					A
Creosote	С	D	С		Α	В	D	D		В		Potash	A	Α	В		Α	Α				A	_
Diesel Fuel Fuel	A C	Α	C		A	A B	D C	D D		A		Potassium Bicarbonate Potassium Bromide	A	Α	Α		Α	A				B B	B
Ginger	C	A	C		A	A	C	A		A		Potassium Carbonate	A	A	A		A	A				В	A B
Hydraulic	D	A	С		A	A	С	D		A	_	Potassium Chlorate	A		A		A					В	В
Lemon		A	Ů		A	,,		D		A	_	Potassium Chloride	A	В	Α		Α	Α	Α	Α		В	В
Linseed	Α	Α	С		Α	Α	Α	С		Α		Potassium Chromate	Α	Α	Α		Α	Α				В	Α
Mineral	В	Α	В		Α	Α	С	D		Α		Potassium Cyanide Solutions	Α	Α	Α		Α	Α	Α	Α		В	В
Olive	Α	Α	Α		Α	Α	D	В		Α		Potassium Dichromate	Α	D	Α		Α	Α	Α	Α		В	В
Orange Palm		A			A	A	D			A	_	Potassium Ferrocyanide	Α	В	A		A B	A B	C		Λ	B B	<u>В</u> В
Peanut	D	A			A	A	Α	С		A	_	Potassium Hydroxide Potassium Iodide	A	С	Α		А	А	С	Α	Α	В	A
Peppermint		A			A	D	/\			A	_	Potassium Nitrate	A	В	В		В	A	Α	A		В	D
Pine	D	Α			Α	В	D	Α		Α	_	Potassium Perborate	Α		Α								_
Rape Seed	D				Α	В	D	Α		Α		Potassium Perchlorate	Α		Α			Α		Α			
Rosin	Α	Α	В		Α	Α				Α		Potassium Permanganate	Α	D	Α		В	Α		Α		В	В
Sesame Seed		Α			Α	Α	_			Α		Potassium Persulfate	A	•	Α			Α	•	Α			
Silicone Soybean	A	A	A		A	A D	C A	A C		A		Potassium Sulfate Potassium Sulfide	A	A	Α		A	A	A	A		B A	_
Sperm	А	А	А		A	A	А	<u> </u>		A	_	Potassium Thiosulfate	А	А	Α		A	A	А	A		А	_
Tanning					A	A				A	_	Propane	В	Α			Α	Α	D	D		Α	_
Oil, Turbine	В		С		Α	В	D	D		Α	_	Propanol					Α	Α		Α	Α		_
Oleic Acid	Α	В	D	Α	В	В	D	С		В	В	Propargyl Alcohol	Α		Α								
Oleum	D	D	Α		D	D	D			В		Propyl Acetate					D	D	D	В			
Oxalic Acid	A	В	Α		Α	В	В	A		В	В	Propylene			_		Α	D	D	D			
Oxygen Gas Ozone	A C		С		A	C D	B A	A				Propylene Dichloride Propylene Glycol	C A		C B		D A	D A		D A		Α	В
Palmitic Acid	A		В		A	A	D	В			_	Pyridine Pyridine	A	A	В		D	D	D	В	Α		A
Paraffin	A	Α	В		В	A		D		Α	Α	Pyrogalic Acid	A	7 (A	D			/ \	В	В
Pentane	D	Α	D		Α	Α	D	D		С		Rosins	Α	Α	В		Α	Α				Α	
Perchloroethylene	С	С	D		Α	D	D	D		Α	В	Rum	Α	Α			Α	Α		Α		Α	
Petrolatum	С	D	В		Α	Α	С	С		Α		Rust Inhibitors	Α				Α	Α				Α	
Phenols 10%	В	D	Α	В	В	D	D	С		В		Salad Dressing	Α	Α			Α	Α				Α	_
Phenols 100%	A	D	В		D	D	D	D		Α		Sea Water	Α	Α	Α		Α	Α	A	A	Α		A
Phosgene Gas Phosgene Liquid	C D				D D	D D		A				Sewage Shellac (Bleached)	A	Α	Α		Α	A	В	В		A	_
Phosphoric Acid < 40%	A	D	В		A	С	D	В		Α	Α	Shellac (Orange)	A	A	A		-	A				A	_
Phosphoric Acid > 40%	A	В	A		A	C	С	В		В		Silicic Acid	A		Α		Α	Α					
Phosphoric Acid (crude)	В	В	С		Α	С	С	В		С		Silicone	Α	Α			Α	Α	С	Α		Α	
Phosporic Acid (molter)	D										С	Silver Bromide										В	В
Phosphoric Acid Anhydride	A											Silver Cyanide	Α				Α	_		Α		_	
Phosphorus Trichloride	С		A		С	D	Λ	С		A	D	Silver Nitrate Silver Salts	Α	Α	В		A	В	Α	Α		В	 R
Photographic Developer Phthalic Acid	A D	В	В		A	Α	Α	B A		А	В	Silver Salts Silver Sulfate	A		Α		A	A C		A		Α	
Phthalic Anhydride	D	U			A	С		A		В		Soap Solutions	A	Α	В		A	A	Α	A		В	В
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	F	PLAS	TIC	S	Ε	LAS	TON	/IER	S	ALL	.OYS
	POLYPROPYLENE	NATON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS STEEL	HASTELLOY
Sodium Acetate	Α	В	В		D	В	D	Α		В	
Sodium Aluminate	Α	Α	Α		Α	Α		Α		Α	В
Sodium Bicarbonate	Α	Α	Α		Α	В	D	Α		В	В
Sodium Bisulfate	A	Α	Α		Α	В	Λ	Α		В	В
Sodium Bisulfide Sodium Borate	A	A	A		A	A	A	A		B	
Sodium Carbonate	A	В	В	Α	A	A	A	A		A	В
Sodium Chlorate	A	D	В	-, -	Α		- ' '	A		В	
Sodium Chloride	Α	Α	Α	В	Α	Α	Α	Α	Α	В	Α
Sodium Chromate		D			Α	Α				В	
Sodium Cyanide	Α	Α	Α		Α	A	Α	Α		Α	
Sodium Hydroxide 20%	A	A	A	A B	B B	B B	B B	A	Λ	A B	A
Sodium Hydroxide 50% Sodium Hydroxide 80%	A	А	В	С	В	В	В	A	Α	В	B
Sodium Hypochlorite < 20%	В	D	A	D	A	В	В	В		С	
Sodium Hypochlorite 100%	В	D	В		Α	В	В	В	D		
Sodium Hyposulfate									Α	Α	
Sodium Metaphosphate	Α	Α	Α		Α	Α		Α		Α	
Sodium Metasilicate	A				Α	Α	_	Α		A	A
Sodium Nitrate Sodium Perborate	A	A B	A		A	B B	D B	A		B	ВВ
Sodium Perborate Sodium Peroxide	B	A	A		A	В	D	A		A	С
Sodium Phosphate Alkaline	A	A			A	A		A			В
Sodium Phosphate Neutral	Α	Α			Α	Α		Α			В
Sodium Polyphosphate	Α	Α	Α		Α	Α	D	Α		В	
Sodium Silicate	Α	Α	Α		Α	Α		Α		Α	С
Sodium Sulfate Sodium Sulfide	A	A	A		A	A	A	A		B	ВВ
Sodium Sulfite	A	D	В		A	A	A	A		В	D
Sodium Tetraborate		A	A		A	A				A	
Sodium Thiocyanate			Α		Α		Α	D			_
Sodium Thiosulfate	Α	В	Α	Α	Α	В		Α		Α	
Sorghum		Α			Α	Α				Α	
Soy Sauce		Α	•		Α	Α		•		Α	
Soybean Oil Stannic Chloride	Α	В	A		A	Α	В	A		A D	В
Stannic Fluoborate	А	D	А		A	A	D	A		A	
Stannous Chloride	Α	С	В		A	A	В	В		A	В
Starch	Α	A	В		Α	С		A		Α	_
Stearic Acid	Α	Α	В		Α	В	В	С		Α	С
Stoddard Solvent	С	Α	С		Α	Α	D	D		Α	
Styrene	^	Α			С	D	D	D		Α	
Sugar (liquids) Sulfate Liquors	A	A B	Α		A	A	Α	A		A B	B B
Sulfur	D	A	В		A	C		C		Ь	Ь
Sulfur Chloride	С	Α	С		Α	D	С	D		D	A
Sulfur Dioxide Dry	Α	В	Α		Α	D	В	Α		Α	В
Sulfur Dioxide Wet	Α	С	В		Α	D	В	Α		Α	D
Sulfur Trioxide	D	A	С		Α	D	В	С		Α	
Sulfuric Acid (to 10%)	A	C	A	C D	A	D D	D D	В		B D	C
Sulfuric Acid (10-75%) Sulfuric Acid (75-95%)	C	D D	A B	D	A	D D	D	A		D D	C
Sulfuric Acid (75-7376)	C	D	В	D	A	D	D	D	Α	D	A
Sulfurous Acid	A	D	В		Α	В	D	В		С	C
Syrup	Α				Α	Α				Α	
Tallow	Α	Α	С		Α	Α				Α	
Tannic Acid	Α	С	В		Α	Α	В	A		Α	В
Tanning Liquors Tartaric Acid	A	A B	A		A	A	Α	B B		A C	B B
Tetrachlorethane	C	СВ	А		A	D	D	D		A	ט
	9	J			, ,					, ,	

	POLYPROPYLENE	NATON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS STEEI	HASTELLOY
Tetrahydrofuran	С	Α	С		D	D	В	D		Α	В
Toluene, Tuluol	С	Α	С	Α	Α	D	D	В		Α	Α
Tomato Juice	Α	Α	Α			Α		D		Α	Α
Trichloroethane	С	С			Α	D	D	D		Α	
Trichloroethylene	С	С	С		Α	С	D	D	D	В	В
Trichloropropane					Α	Α				Α	Α
Tricresylphosphate	Α	Α	В		В	D	С	Α		Α	
Triethylamine	D	Α			Α	Α		Α		Α	
Turpentine	В	Α	С		Α	Α	D	D	С	Α	В
Urine	Α	Α	Α		Α	Α		Α		Α	
Varnish	Α	С	С		Α	В	D	D		Α	Α
Vegetable Juice		Α			Α	С				С	
Vinegar	Α	С	В		Α	В	Α	Α		Α	В
Vinyl Acetate					D	D		В			
Vinyl Chloride		Α			Α	D		С			Α
Water Acid Mine	Α	В	Α		Α	Α	В	Α		Α	Α
Water Deionized	Α		Α		Α	Α		Α		Α	В
Water Distilled	Α	Α	Α	В	Α	Α		Α		Α	Α
Water, Fresh	Α	Α	Α		Α	Α	В	Α	Α	Α	Α
Water, Salt	Α	Α	Α		Α	Α		Α	Α	Α	Α
Weed Killers		Α			Α	В				Α	
Whey					Α	Α		Α		Α	
Whiskey & Wines	Α	Α				Α	Α	Α		Α	
Xylene	С	Α	С		В	D	D	D	С	Α	В
Xylol	D				Α	С	D	D			
Yeast	Α		Α		Α	Α					
Zeolite					Α	Α		В			
Zinc Acetate	Α				С	В		Α		В	
Zinc Chloride	Α	С	Α		Α	Α	D	Α	Α	С	В
Zinc Hydrosulphite		Α				Α		Α		Α	
Zinc Sulfate	Α	С	В		Α	Α	Α	Α		Α	В
Zirlite	А		В		С	В		Α			

PLASTICS

ELASTOMERS | ALLOYS

Santoprene is a trademark of Monsanto.

Viton is a trademark of E.I. duPont de Nemours & Co. Inc.





Car Wash Equipment Pumps and Accessories













ITT - FLOJET has been an expert in special application pumps for over 20 years, emerging as a leading global supplier for the car wash industry. Emphasizing quality and design, Flojet is ISO 9001 certified. Flojet is also proud to be the first ITT company in California to achieve certification under the ISO environmental standard 14001. With a worldwide customer service network and manufacturing facilities in both the United States and the United Kingdom, Flojet is committed to providing you with the finest products for your car wash equipment needs wherever you are.

TABLE OF CONTENTS	PAGE
Foam Arch System Pumps	
G57 Series, Automatic Demand Control	1
G57 Series, Dual and Quatro Pumps	2
Foam Applicator System Pumps	
5100 Series, Automatic Demand Control	3
Chemical Spray Pumps	
Duplex II Series, Automatic Demand 115V AC	4
Transfer/Dispensing Pumps	
4000 Series, Automatic Demand 115V AC	5
LF Series, Automatic Demand 115V AC	6
ET Series, Bypass 115V AC	6
Compressed Air Filter/Dryer	7
Accessories	
Fittings	9

This catalog shows only the standard model pumps in Flojet's car wash line. Other models of are available. Flojet manufactures a complete line of small pumps to fit most applications. Contact us for special requests and additional information.

FOAM ARCH AND BRUSH SYSTEM PUMPS



Santropene or Viton Material With 1/2" Ports 120 (8.3) 100 (6.9) 80 (5.5) 60 (4.1) 0 1.0 2.0 3.0 4.0 5.0 6.0 7.0 (3.8) (7.6) (11.4) (15.1) (18.9) (22.7) (28.5) Flow Rate in GPM (L/min) *Indicates Air Inlet Pressure



G57 SERIES AIR OPERATED DIAPHRAGM PUMPS

Automatic Demand Control

FEATURES

- Chemical resistant Polypropylene housing with Viton® and Santoprene® elastomers
- Quiet operation with large exhaust muffler
- Easy installation with quick disconnect ports
- Duplex diaphragm design
- Patented shuttle valve, eliminates stalling
- Compact size

Standard Model Numbers, Santoprene® fitted									
Model No.	Fittings Description								
G575205	3/8" barb port, 1/4" brass air inlet port								
G575215	1/2" barb port, 1/4" brass air inlet port								
G575225	3/4" barb port, 1/4" brass air inlet port								
G575208	3/8" barb port, 1/4" plastic air inlet port								
G575218	1/2" barb port, 1/4" plastic air inlet port								
G575228	3/4" barb port, 1/4" plastic air inlet port								
	Standard Model Numbers, Viton® fitted								
Model No.	Fittings Description								
G573205	3/8" barb port, 1/4" brass air inlet port								
G573215	1/2" barb port, 1/4" brass air inlet port								
G573225	3/4" barb port, 1/4" brass air inlet port								
G573208	3/8" barb port, 1/4" plastic air inlet port								
G573218	1/2" barb port, 1/4" plastic air inlet port								
G573228	3/4" barb port, 1/4" plastic air inlet port								

Specifications

Pump Design: Positive Displacement Double Diaphragm
Flow Rate: 5.0 GPM (11.9 L/min) Open Flow
Operating Pressure: 20 to 100 PSI (1.4 to 6.0 bar)
Liquid Inlet Pressure: 30 PSI (2.1 bar) Max.
Liquid Temperature: Min. 40° F (4.4° C)
Max. 140° F (60.0° C)
Priming: Dry 15ft. (4.5 m)
Wet 20ft. (6.1 m)
Air Supply Pressure: 20 to 100 PSI (1.4 to 6.9 bar)
Noise: Max 90 dB

FOAM ARCH, BRUSH AND BOOSTER PUMPS

G57 SERIES DUAL AND QUATRO HIGH FLOW DIAPHRAGM PUMPS

Air Operated Diaphragm Pumps

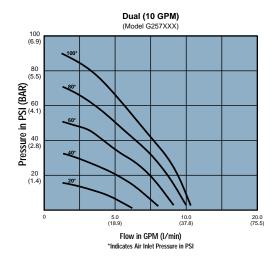
FEATURES

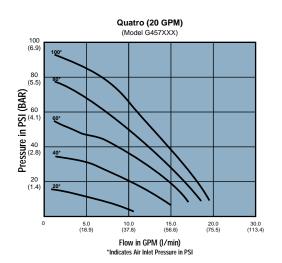
- Flows to 10 GPM (3.8 L/min) or 20 GPM (7.6 L/min)
- Chemical resistant Polypropylene housings with Viton® and Santoprene® elastomers
- Easy installation with 1/2" (12.7 mm) Dual and 3/4" (19.1 mm) Quatro pump manifolds
- Duplex diaphragm design
- Patented shuttle valves, eliminates stalling
- Compact size

• Compact size		
Standard Model No.	Fittings Description	
G257301A	Dual 10 GPM AOD Pump Viton [®] Elastomers, 1/2" NPTF Manifold Liquid, 1/4" Barb Air	
G257302A	Dual 10 GPM AOD Pump Viton [®] Elastomers, 1/2" NPTF Manifold Liquid, 1/4" Quick Disconnect Elbow Air	
G257501A	Dual 10 GPM AOD Pump Santoprene $^{\circledR}$ Elastomers, 1/2" NPTF Manifold Liquid, 1/4" Barb Air	
G257502A	Dual 10 GPM AOD Pump Santoprene® Elastomers, 1/2" NPTF Manifold Liquid, 1/4" Quick Disconnect Elbow Air	
G457311A	Quatro 20 GPM AOD Pump Viton® Elastomers, 3/4" NPTF Manifold Liquid, 1/4" Barb Air	
G457312A	Quatro 20 GPM AOD Pump Viton [®] Elastomers, 3/4" NPTF Manifold Liquid, 1/4" Quick Disconnect Elbow Air	
G457511A	Quatro 20 GPM AOD Pump Santoprene [®] Elastomers, 3/4" NPTF Manifold Liquid, 1/4" Barb Air	
G457512A	Quatro 20 GPM AOD Pump Santoprene [®] Elastomers, 3/4" NPTF Manifold Liquid, 1/4" Quick Disconnect Elbow Air	

Specifications
Pump Design: Positive Displacement Double Diaphragm
Flow Rate (Dual): Up to 10.0 GPM (37.8 L/min)
Flow Rate (Quatro): Up to 20.0 GPM (75.6 L/min)
Operating Pressure: 20 to 100 PSI (1.4 to 6.0 bar)
Liquid Inlet Pressure: 30 PSI (2.1 bar) Max.
Liquid Temperature: Min. 40° F (4.4° C)
Max. 140° F (60.0° C)
Priming: Dry 15ft. (4.5 m)
Wet 20ft. (6.1 m)
Air Supply Pressure: 20 to 100 PSI (1.4 to 6.9 bar)
Noise: Max 90 dB



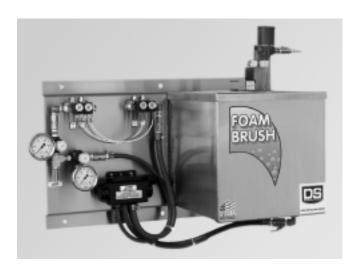




FOAM APPLICATOR SYSTEM PUMPS



120 (8.3) 100 (6.9) (80 (5.5) 60 (4.1) 40 (2.8) 20 (1.4) 0 0 0.5 1.0 1.5 2.0 2.5 3.0 (1.9) (3.8) (5.7) (7.6) (9.5) (11.4) Flow Rate GPM (L/min) *Indicates Air Inlet Pressure



5100 SERIES AIR OPERATED DIAPHRAGM PUMPS

Automatic Demand Control

FEATURES

- Oil resistant Acetyl copolymer housing with Santoprene[®], Viton[®], Geolast[®] and Buna elastomers
- Flow rates to 1.9 GPM (7.2 L/min)
- Operating pressures to 75 PSI (5.2 bar)
- Duplex diaphragm design
- Compact size

Standard Model No.	Description
5100-010	Buna Elastomers, 3/8" barb port fittings, 1/4" straight plastic air inlet port fittings
5100-020	Viton [®] Elastomers, 3/8" barb port fittings, 1/4" straight plastic air inlet port fittings
5100-040	Santoprene [®] Elastomers, 3/8" barb port fittings, 1/4" straight plastic air inlet port fittings
5100-050	Geolast [®] Elastomers, 3/8" barb port fittings, 1/4" straight plastic air inlet port fittings

Specifications

Specifications
Pump Design: Positive Displacement Double Diaphragm
Flow Rate: 1.9 GPM (7.2 L/min) Open Flow
Operating Pressure: 20 to 75 PSI (1.4 to 5.2 bar) Max.
Liquid Inlet Pressure: 15 PSI (1.03 bar) Max.
Liquid Temperature: Min. 40° F (4.4° C)
Max. 140° F (60.0° C)
Priming: Dry 15 ft. (4.5 m)
Air Supply Pressure: 20 to 100 PSI (1.4 to 6.9 bar)

CHEMICAL SPRAY PUMPS

DUPLEX II SERIES DIAPHRAGM PUMPS

Automatic Demand 115 Volt AC

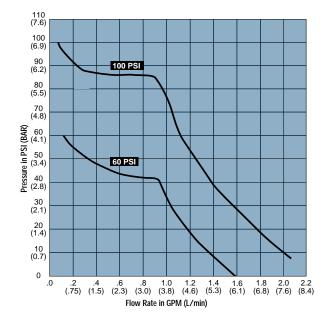
FEATURES

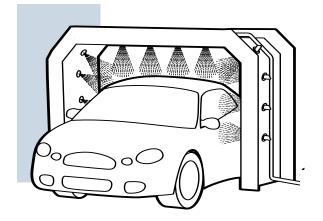
- Self priming up to 8 feet (2.4 m)
- Can run dry without damage
- Chemical resistant materials
- External bypass system standard
- Built-in back flow valve
- Heavy duty ball bearing drive system
- Optional sealed motor

Standard Model No.	Description
D1631H5011	Low Pressure Pump, EPDM CVA, Santoprene [®] Diaphragm 60 PSI (4.1 bar), Demand Switch, External Bypass
D1631F5011	Low Pressure Pump, Viton [®] CVA, Santoprene [®] Diaphragm 60 PSI (4.1 bar), Demand Switch, External Bypass
D1635E7011	High Pressure Pump, EPDM CVA, EPDM Diaphragm 100 PSI (6.9 bar), Demand Switch, External Bypass
D1635J7011	High Pressure Pump, Viton [®] CVA, EPDM Diaphragm 100 PSI (6.9 bar), Demand Switch, External Bypass

Specifications			
Pump Design: Positive Displacement, Two-Chamber Diaphragm			
Flow Rate: Low Pressure 1.6 GPM (6.0 L/min)			
High Pressure 2.2 GPM (8.3 L/min)			
Ports: 3/8" NPT Female			
Motor: Permanent Magnet with Solid State Rectifier			
Cycles: 50/60 Hz			
Amps: Low Pressure 0.8 Amps (Max.)			
High Pressure 1.0 Amps (Max.)			
Liquid Temperature: Min. 40° F (4.4° C)			
Max: 140° F (60.0°C)			
UL, CUL Recognized			



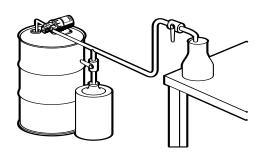




TRANSFER PUMPS



70 (4.8) 60 (4.1) 50 (3.4) 40 (2.8) 40 (2.1) 10 (0.7) 0 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 (3.8) (7.6) (11.4) (11.5) (11.9) (2.3) (2.7) (3.0) Flow Rate in GPM (L/min)



4000 SERIES DIAPHRAGM PUMPS

Automatic Demand 115 Volt AC

FEATURES

- Self priming up to 8 feet (2.4 m)
- Can run dry without damage
- Chemical resistant materials
- Built-in back flow valve
- Heavy duty ball bearing drive system
- Fan cooled motor standard

Standard Model No.	Description
4300-042	Medium Flow Pump, EPDM Valves, Santoprene® Diaphragm, 45 PSI (3.1 bar), Demand Switch
4300-501	Medium Flow Pump, Viton [®] Valves, Santoprene [®] Diaphragm, 45 PSI (3.1 bar), Demand Switch
4300-513	Medium Flow Pump, Viton [®] Valves, Santoprene [®] Diaphragm, 45 PSI (3.1 bar), Demand Switch, 6' Cord
4300-043	High Flow Pump, EPDM Valves, Santoprene [®] Diaphragm, 45 PSI (3.1 bar), Demand Switch
4300-515	High Flow Pump, Viton [®] Valves, Santoprene [®] Diaphragm, 45 PSI (3.1 bar), Demand Switch
4300-525	High Flow Pump, Viton [®] Valves, Santoprene [®] Diaphragm, 45 PSI (3.1 bar), Demand Switch, 6' Cord

Specifications

Pump Design: Positive Displacement, Two Chamber Design			
Flow Rate: Low Flow Models 3.5 GPM (13.3 L/min) Open Flow			
	High Flow	/ Models 5.0 GPM (18.9 L/min) Open Flow	
Ports: 1/2" and 3/4"Hose Barb			
Motor: Fan Cooled Permanent Magnet with Solid State Rectifier			
Cycles: 50/60 Hz			
Amps: Low Flow 0.9 Amps (Max.)			
	High Flow	1.2 Amps (Max.)	
Liquid Temperature: Min. 40° F (4.4° C)			
Max: 140° F (60.0°C)			

DISPENSING PUMPS

LF SERIES DIAPHRAGM PUMPS

Automatic Demand 115 Volt AC

FEATURES

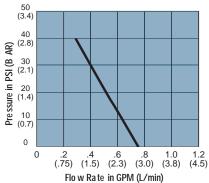
- Self priming up to 2.5 feet (0.76 m)
- Can run dry without damage
- Chemical resistant materials
- Compact design measuring 6.4" (164 mm) in length
- Sealed pressure switch and motor standard

Standard Model No.	Description
LF521401	Low Pressure Pump, Viton® CVA, Santoprene® Diaphragm, 40 PSI (2.8 bar), Demand Switch
LF521402	Low Pressure Pump, EPDM CVA, Santoprene [®] Diaphragm, 40 PSI (2.8 bar), Demand Switch

Specifications

Pump Design: Positive Displacement, Two Piston Design
Flow Rate: 0.8 GPM (xx L/min)
Ports: 3/8" Male Hose Barb
Motor: Rectified DC Motor
Cycles: 50/60 Hz
Amps: 0.30 Amps (Max.)
Liquid Temperature: Min. 40° F (4.4° C)
Max: 140° F (60.0°C)





ET SERIES SOLENOID PUMPS

Automatic Bypass 115 Volt AC

FEATURES

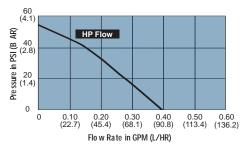
- Self priming
- Includes internal diode
- UL and CSA recognized

Standard Model No.	Description
ET508221	EPDM Elastomer, 1/4" Hose Barb Ports
ET508223	EPDM Elastomer, 1/8" NPTF Ports
ET508224	Viton® Elastomer, 1/8" NPTF Ports
I	

Specifications

opecinications -					
Pump Design: Oscillating, Solenoid Coil with Diode					
Flow Rate:	Flow Rate: 0.40 GPM (90.8 L/H), Open Flow				
Ports: 1/4" Ho	Ports: 1/4" Hose Barb or 1/8" NPT Female				
Cycles: 50/60 Hz					
Power Consumption: Nominal 46 Watts					
UL Recognized					





FILTER/DRYER



COMPRESSED AIR FILTER/DRYER

Extractor/Dryer® Series FJ520B

FEATURES

- Easy to install and maintain without removal
- Lightweight aluminum housing
- Immediate cost savings from decreased downtime
- Standard inlet and outlet NPT sizes
- Improved equipment performance and life
- Standard five micron rating
- Standard weep drain

Standard	
Model No.	Description
FJ520B	Extractor/Dryer
FJ0155K	Service Kit

Specifications

Material: Aluminum Housing
Port Size: 1/4" NPT Female
SCFM: 15 CFM
Maximum Pressure: 250 psi (17.2 bar)
DP: 6 psi (0.4 bar)
Size: 7 1/8" x 3" x 1 1/4"
Weight: 2.0 lb (0.91 kg)

The patented Extractor/Dryer® is a two-stage filter with a lightweight anodized aluminum housing. Designed primarily for the final usage of air, it will remove water, oil, and other contaminants from compressed air lines.

ACCESSORIES



Strainers

- Keep debris and particles from entering your FLOJET pump.
- Low profile design, for space saving installation.
- Threaded bowl makes cleaning quick and easy.

Part Number	Inlet	Outlet	Screen		
01720-000	3/4" Barb	3/4" Barb	20 Mesh SS		
01720-002	1/2" Barb	1/2" Barb	20 Mesh SS		
01720-023	3/8" Barb 90°	3/8" Barb 90°	20 Mesh SS		
01720-102	1/2" Barb	1/2" Barb	20 Mesh PP		
01720-103	3/8" Barb	3/8" Barb	20 Mesh SS		
01720-112	1/2" Barb	Quad Port 90°	20 Mesh PP		
01720-123	3/8" Barb	3/8" NPT 90°	20 Mesh PP		
01720-375	3/8" NPT(f)	3/8" NPT(f)	20 Mesh SS		
01740-000	3/4" Barb	3/4" Barb	40 Mesh SS		
01740-002	1/2" Barb	1/2" Barb	40 Mesh SS		
01740-003	3/8" Barb	3/8" Barb	40 Mesh SS		
01740-010	3/4" Barb	Quad Port 90°	40 Mesh SS		
01740-012	1/2" Barb	Quad Port 90°	40 Mesh SS		
01740-375	3/8" NPT(f)	3/8" NPT(f)	40 Mesh SS		
SS=Stainless Steel PP=Polypropylene					



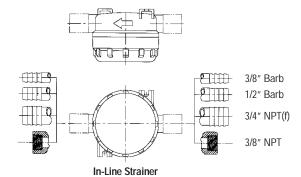
Universal Mounting Bracket

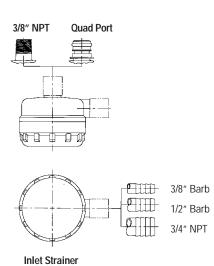
- Single brackets snap together easily for multiple pump installations.
- No additional hardware needed to mount pumps on bracket.

Applications

- For use with G Series, 5100 Series and Shurflo® air driven pumps.
- Ideal for mounting on rack or wall.

Part Number	Description
20982-100A	Single Pump Mounting Bracket





(Plugs into Quad pump port)

FITTINGS

AIR PUMP - LIQUID FITTINGS

Plastic (Celcon) Inlets & Outlets - Liquid

For use with all 5100 Series Pumps.



Part Number	Description	
20325-031	3/8" Hose Barb, Straight	
Packaged 1 per	bag.	

Plastic (Polypropylene) Inlets & Outlets

■ For use with all G57 Series Pumps.









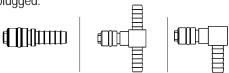
Part Number	Description	O-ring Mtl.
20381-026	10-13 mm (3/8"-1/2") Hose Barb, Straight	EPDM
20381-002	1/2" Hose Barb, Straight	EPDM
20381-006	3/4" Hose Barb, Straight	EPDM
20381-024	10-13 mm (3/8"-1/2") Hose Barb, 90° Elbow	EPDM
20381-009	1/2" Hose Barb, 90° Elbow	EPDM
20381-010	3/4" Hose Barb, 90° Elbow	EPDM
20381-070	10-13 mm (3/8"-1/2") Hose Barb, Straight	Viton [®]
20381-015	1/2" Hose Barb, Straight	Viton®
20381-014	3/4" Hose Barb, Straight	Viton®
20381-017	1/2" Hose Barb, Elbow	Viton®
20381-018	3/4" Hose Barb, Elbow	Viton [®]
20381-058	3/8" O.D. Tube, Straight, Push In Fitting	EPDM
20381-060	3/8" O.D. Tube, Straight, Push In Fitting	Viton®
20381-061	1/2" O.D. Tube, Straight, Push In Fitting	EPDM
20381-063	1/2" O.D. Tube, Straight, Push In Fitting	Viton®
20381-042	3/8" NPT Straight	EPDM
20381-043	3/8" NPT Straight	Viton®
20381-050	3/8" NPT Elbow	EPDM
20381-052	3/8" NPT Elbow	Viton®
20381-039	1/2" NPT Straight	EPDM
20381-040	1/2" NPT Straight	Viton®
20381-047	1/2" NPT Elbow	EPDM
20381-049	1/2" NPT Elbow	Viton®
	Packaged 2 per bag.	

AIR PUMP - AIR FITTINGS

Brass CO2/Air Inlets with Shutoff Valve

■ For use with all 5100 Series and G57 Series Pumps.

Automatically shuts off CO2 supply to pump, when unplugged.



Part Number	Description
01510-000	1/4" Hose Barb, Straight
01520-000	1/4" Hose Barb, Tee
01521-000	1/4" Hose Barb, Elbow

Plastic (Celcon) CO₂/Air Inlets

■ For use with all 5100 Series and G57 Series Pumps.



Part Number	Description
20325-033	1/4" Hose Barb, Straight
Packaged 1 per bag.	

ELECTRIC PUMP FITTINGS

Nylon Barbed Elbow

■ For use with all Duplex II Series (3/8" NPT only).



Part Number	Description
91010-001	3/8" NPT Male x 3/8" Barb
91010-005	3/8" NPT Male x 1/2" Barb
91010-033	3/8" NPT Male x 1/4" Barb

Nylon Barbed Straight

■ For use with all Duplex II Series (3/8" NPT only).



Part Number	Description
91010-002	3/8" NPT Male x 3/8" Barb
91010-006	3/8" NPT Male x 1/2" Barb
91010-032	3/8" NPT Male x 1/4" Barb



FLOJET®

Agriculture Pumps and Accessories











To access our 24 Hour Technical Data Assistance Via Fax, Call (800) 337-4083 For DFAX #1000 series and (800) 297-3904 for DFAX #2000 series

Simply enter the Docufax number (under the DFAX# column) shown opposite the product model number and instantly receive by fax the technical data sheet you requested - Day or Night!

Use 9-digit numbers on all purchase orders and communication.



Series	Page No.	DFAX #	Description	Data Sheet No.
11810 Series	16	1001	Bronze Utility Pump	43000-0068
16400	21	1014	Series Pump Tube Poly	43000-0572
16410	21	1015	Series Pump Tube SS	43000-0573
16450	21	1019	Drum Pump Motor	43000-0707
16510	21	1020	Series Pump Tube Hyg SS	43000-0585
16520	21	1021	Series Pump Tube Kynar	43000-0586
17860	22	1033	Oil and Fluids Changing System	950-0095
17830-1012	14	1031	DC Water Puppy Reversible	43000-0708
18590	18	1043	Extended Run Dry DC Macerator	43000-0745
18660 Series	14	1053	DC Water Puppy	43000-0737
18670 Series	15	1054	Commercial Duty Water Puppy	43000-0738
18690	18	1058	Macerator AC	43000-0186
23920 Series	17	1284	Extended Run Dry DC Flex Pump	43001-0511
30140	17	1115	Extended Run Dry AC Flex Pump	43000-0693
30180	17	1116	Extended Run Dry AC Flex Pump	43000-0694
4100-521	9	2040	Quad Commercial Duty	81000-351
4100-xxx	10	2035	Quad Standard Duty	81000-176
4300-529	9	2096	Quad AC Commercial Duty	81000-350
4300-530	9	2040	Quad Commercial Duty	81000-351
4300-xxx	10	2041	Quad Standard Duty	81000-084
5100	13	2050	Air Operated Diaphragm Pump	81000-131
59500	20	1255	Magnetic Drive Centrifugal	43001-0515
6050 Series	16	1260	Bronze Uitlity Pump	43000-0074
D21XX Series	4	2060	Duplex II Low Pressure Pumps	81000-338
D21XX Series	5	2061	Duplex II High Pressure Pumps	81000-339
G57	12	2069	Air Operated Diaphragm Pump	82000-014
JSP03, JSP07	19	1276	Sump Pump SS AC	43000-0765
LF & RLF Series	2	2073	LF Series Diaphragm Pumps	81000-312
R4400 Series	9	2039	Quad Variable Speed Drive	81000-352
	· ·			



Explosion hazard. Do not pump gasoline or other flammable liquids with any of the pumps shown in this catalog. Explosion and death can occur.

PRODUCT RATING: The data given in this catalog are approximate values based on the latest information available when this catalog was printed. English and metric performance data and dimensions are rounded to the approximate decimal point accuracy. Jabsco flexible impeller pumps, except motor pump units, are flow rated at 1750 RPM at 10 ft. (3m) of head. Unless otherwise noted, Jabsco flexible impeller motor pump units are rated at motor speed with 10 ft. (3m) of head. Centrifugal motor pump units are rated at 5 ft. (1.5m) of head. Manual pumps are rated in strokes/gallon with normal pumping action. Diaphragm motor pump units are flow rated at open flow. Blowers are rated at open flow. Searchlight

bulb characteristics are taken from the latest bulb manufacturer's literature available.



CONTENTS Electric Diaphragm Pumps LF Series Pumps (2 Piston) 2-3 **Duplex II Series Pumps** (2 Piston) 4-5 **Triplex Series Pumps** (3 Piston) 6 7 High Pressure Triplex Series Pumps (3 Piston) **Quad Series Pumps** (4 Piston) 8-10 6000 Series Pumps (5 Piston) 11 **Air-Operated Diaphragm Pumps G57 Series Pumps** 12 5100 Series Pumps 13 Flexible Impeller Pumps 17830 Bronze Flex Pump DC Reversible 18660 Bronze Flex Pump DC 14 18670 Bronze Flex Pump DC Commercial Duty 15 11810 Bronze Flex Pump AC Utility 6050 Bronze Flex Pump AC Utility 16 23920 Bronze Flex Pump DC Extended Run Dry 30140 Bronze Flex Pump AC Extended Run Dry 30180 Bronze Flex Pump AC Extended Run Dry 17 18590 Macerator Run Dry DC 18690 Macerator Run Dry AC 18 **General Purpose Pumps** JSP Stainless Steel Centrifugal Sump Pumps 19 59500 Magnetic Drive Centrifugal Pumps 20 21 16450 Drum Pumps 17860 Oil and Fluids Changing System 22 Accessories & Fittings 23 Chemical Data 24

Product Specification Form



25

LF Series Pumps (2 Piston)



Flow Rate (GPM)

Far and away the best selling small pump in the industry. Choose from standard models or configure to meet the special needs of your OEM application. Long-life (2000 hours typical) motors have either a chemically resistant plastic housing or a metal finned housing for maximum motor cooling. Flojet's new demand switch plus bypass configuration provides optimum operation and extended cycle-life under any field condition.

OEM's appreciate features that save time and reduce cost. Features like built-in hose barb ports, flexible mounting feet, inline fuse, power connector, and manual on-off power switch.

Need a reliable demand switch? Then it has to be completely sealed! Flojet's one-piece welded body design with epoxy potted spade terminals keep reliability in and the elements out. No other switch in the industry meets these stringent design criteria.

SPECIFICATIONS

Pump Design Open Flow Voltage Body Material Diaphragm Material Check Valve Material Spring Material	1.0 gpr 0.7 gpr 12V or Polypro Santop Viton o 316 Sta	rene or Geolast r EPDM iinless Steel			
Port Size	3/8" (9.	5mm)Hose Barb			
Motor Recommended Fuse	PMDC Ball Bearing type with internal fan 5 amps for 12V models 3 amps for 24V models				
Approvals Maximum Pressure Duty Cycle at 70°F Liquid Temp	CE on RLF models 35 psi (2.4 bar) Intermittent 30 psi (2.0 bar) 110°F (43°C) Maximum				
Size	LF11	2.6" H x 3.5"w x 6.8"L			
Ship Wt.	LF12 LF11 LF12	(66 x 89 x 173 mm) 2.3" H x 3.5"w x 6.2"L (58 x 89 x 157 mm) 1.9 lb (.9 kg) 1.3 lb (.6 kg)			

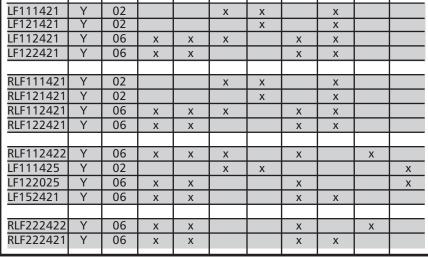


Electric Diaphragm Pumps



PUMP SPECIFICATIONS						PUMP FEATURES						
Mode	Supply Voltage	Diaphragm Material	Check Valve	Cam	Demand Switch	Bypass Pressure	Motor Housing	Manual on/off	Inline Fuse	Power Connector	Thermal Protection	Approvals
LF111421	12	Santo	Viton	LO	40	55	metal fins	Υ	Υ	Υ		
LF121421	12	Santo	Viton	LO	40	55	plastic				Υ	
LF112421	12	Santo	Viton	HI	40	55	metal fins	Υ	Υ	Υ		
LF122421	12	Santo	Viton	HI	40	55	plastic				Υ	
RLF111421	12	Santo	Viton	LO	40	55	metal fins		Υ	Υ	Υ	CE
RLF121421	12	Santo	Viton	LO	40	55	plastic				Υ	CE
RLF112421	12	Santo	Viton	HI	40	55	metal fins		Υ	Υ	Υ	CE
RLF122421	12	Santo	Viton	HI	40	55	plastic				Υ	CE
RLF112422	12	Santo	EPDM	LO	40	55	metal fins		Υ	Υ	Υ	CE
LF111425	12	Geolast	Viton	LO	40	55	metal fins	Υ	Υ	Υ		
LF122025	12	Geolast	Viton	HI		55	plastic				Υ	
LF152421	12	Santo	Viton	HI	40	55	plastic	Υ	Υ	Y		
RLF222422	24	Santo	EPDM	HI	40	55	plastic				Υ	CE
RLF222421	24	Santo	Viton	HI	40	55	plastic				Υ	CE

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Duplex II Series Pumps (2 Piston)



The Duplex II pump incorporates many new design innovations: half-spherical check valves for improved priming and efficiency, an external bypass system that is located outside of the pumping chamber, and the demand models feature a sealed pressure switch and back flow preventer to reduce pulsations.

Unique bypass system provides near-constant pressure to drive a wide range of nozzles for all your lawn, garden and agricultural spraying needs.

SPECIFICATIONS

Pump Design 2 Chamber Diaphragm
Open Flow 2.0 gpm (7.6 lpm) max.
Voltage 12V DC and 115V AC
Body Material Polypropylene

Diaphragm Material Santoprene, EPDM, Viton

Check Valve Material Viton
Port Size 3/8" NPT(F)

Motor permanent magnet, totally enclosed non-vented

Maximum Pressure 90 psi (6 bar)
Duty Cycle Intermittent

Suction Lift Up to 8ft. (2.4m) vertical height

Liquid Temp 130°F (54°C) maximum

Size 100 & 80 psi demand pump

7.6" x 3.24" x 3.63" (193 x 82 x 92 mm)

70 psi bypass pump

7.6" x 3.24" x 3.63" (193 x 82 x 92 mm)

60 psi demand pump

8.0" x 3.31" x 3.26" (203 x 84 x 83 mm)

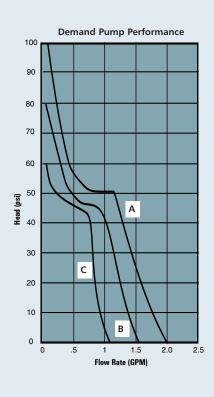
Ship Wt. 4.5 lb. (2.0 kg) typical



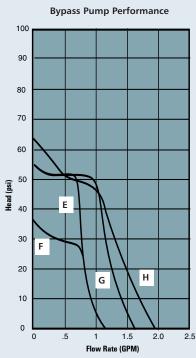
Electric Diaphragm Pumps







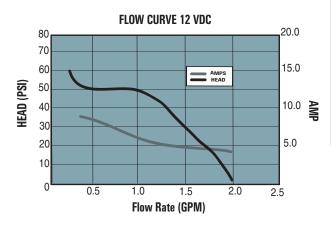
PUMP SPECIFICATIONS								
Model	Supply Voltage	Diaphragm Material	Check Valve	Cam Angle	Demand Switch	Bypass Pressure	Motor Speed	Motor Length
D2135J7011	12V DC	EPDM	Viton	high	100 psi		high	med
D2125F6011	12V DC	Santo	Viton	med	80 psi		high	med
D2125F5011	12V DC	Santo	Viton	med	60 psi		high	med
D2135F5011	12V DC	Santo	Viton	high	60 psi		high	med
D2124F5011	12V DC	Santo	Viton	med	60 psi		high	short
D2121F5011	12V DC	Santo	Viton	med	60 psi		low	short
D2132F1311	12V DC	Santo	Viton	high		50 psi	low	med
D2135F1311	12V DC	Santo	Viton	high		50 psi	high	med
D2121F1311	12V DC	Santo	Viton	med		50 psi	low	short
D2121F1211	12V DC	Santo	Viton	med		30 psi	low	med
D3835V5011	115V AC	Viton	Viton	high	60 psi		high	med
D3835V1311	115V AC	Viton	Viton	high		50 psi	high	med
D21X005	12V DC	Santo	Viton	high	60 psi		high	short
D21X007	12V DC	Santo	Viton	high		50 psi	high	short

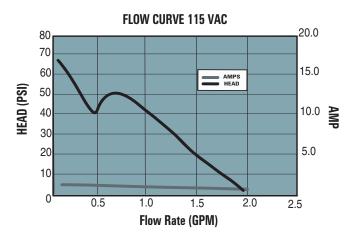


	PUMP FEATURES							
Model	Open Flow gpm	Flow Curve	Manual On/Off	Inline Fuse	Power Connection			
D2135J7011	2.0	Α			wires			
D2125F6011	1.4	В			wires			
D2125F5011	1.4	В			wires			
D2135F5011	2.0	Α			wires			
D2124F5011	1.5	В			wires			
D2121F5011	1.1	С			wires			
D2132F1311	1.5	G			wires			
D2135F1311	2.0	Н			wires			
D2121F1311	1.2	E			wires			
D2121F1211	1.2	F			wires			
D3835V5011	2.0	Α			6' cord			
D3835V1311	2.0	Н			6' cord			
D21X005	1.5	В	yes		2 pin plug			
D21X007	2.0	Н			2 pin plug			

Triplex Series Pumps (3 Piston)







The Triplex Series pump was designed specifically for the Ag market. Flojet's new three chamber design and versatile fetures make it ideal for sprayers and many other transfer and dispensing applications.

This automatic demand pump comes with a sealed pressure switch and motor, is self-priming, can run dry, and can be installed in compact spaces.

SPECIFICATIONS

Pump Design		Motor Operated 3 Chamber
		diaphragm
Motor Design	Permanent M	agnet TENV (non-ventillated)
Voltage		12 VDC, 115 VAC, 230 VAC
Cycles:		50/60 Hz
Amp Draw:		8 amp max for 12 VDC
		0.65 amp max for 115 VAC
Pump Head:		Reinforced Polypropylene
Elastomers	Diaphragm	Santoprene™
	Check Valve	EPDM or Viton
Max. Flow Rate:		2.0 GPM (7.6 LPM)
Maximum Press	ure	50 psi (3.4bar)
Duty Cycle:		Intermittent
Weight		3.4 lb (1.5 Kg)
Certifications:		CE, NSF components
Port Size Inlet/ou	tlet	3/8" NPTF

FEATURES

- Compact automatic demand pump
- Sealed pressure switch and motor
- Self-priming; pump can be located above supply tank
- Can run dry for extended periods of time without damage
- Flow rates to 2.0 GPM (7.6 l/min) and operating pressure to 50 psi (3.4 bar)

APPLICATIONS

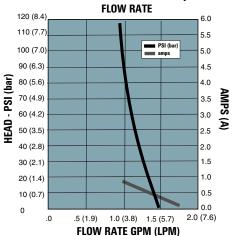
- Small Boom and Spot Spraying
- Foam Marking
- Silage Treatment
- Estate Spraying
- Livestock and Poultry Cooling
- Dispensing
- Transfer of liquids



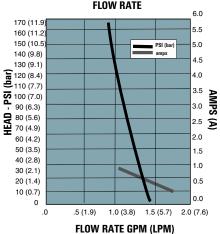
High Pressure Triplex Pumps (3 Piston)



HEAD-FLOW CURVE 100 psi



HEAD-FLOW CURVE 150 psi FLOW RATE



Flojet Triplex High Pressure diaphragm pumps are self-priming and can 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.

SPECIFICATIONS

Pump Design Motor Operated 3 Chamber diaphragm Motor Design Permanent Magnet DC and rectified (PMDC) AC

Voltage 12, 24 VDC 115, 230 VAC Cycles: 50/60 Hz

Cycles: 50/60 Hz
Amp Draw: 9 amp max for 12 VDC
0.95 amp max for 115 VAC

Pump Head:Glass filled NylonElastomersDiaphragmSantoprene™Check ValveEPDM or Viton

Max. Flow Rate: 2.0 GPM (7.6 LPM)

Maximum Pressure 150 psi (10.3 bar) switch cutoff

140 psi (9.7 bar) max running pressure

Max. Liquid Temp: 40° F (4° C) Min

Duty Cycle: Intermittent
Weight 7.6 lb (3.5 Kg)
Certifications: CE, NSF components
Port Size Inlet/outlet 3/8" NPTF

FEATURES

- Constructed from a selection of materials suitable for handling a broad range of chemicals.
- Sealed pressure switch and motor
- Self-priming; pump can be located above supply tank
- Can run dry for extended periods of time without damage
- Flow rates to 2.0 GPM (7.6 l/min) and operating pressure to 150 psi (10.3 bar)

APPLICATIONS

- Designed for wide range of applications
- Small Boom and Spot Spraying
- Silage Treatment
- **■** Estate Spraying
- Livestock and Poultry Cooling
- Dispensing
- Transfer of liquids



Quad Sensor VSD Pumps



Solid State microcontroller and firmware allow VSD pumps to provide constant pressure within their pumping range regardless of the number or size of nozzles operating at any time. Simulates a constant city-water-pressure type supply. Soft-start feature prevents splash. Unlike conventional pumps, the VSD is very quiet and draws very little current at low flow rates. Handles variable tip nozzles from full flow to shut off as well as multi-nozzle spray bars. VSD automatically shuts off if supply voltage falls below 8 volts to protect the vehicle battery.

SPECIFICATIONS

Pump Design Four piston diaphragm type Open Flow R4400-503 0-3.7 gpm (14 lpm) R4400-504 0-4.5 gpm (17 lpm) Voltage 12-24V DC **Body Material** Polypropylene Diaphragm Material Santoprene Check Valve Material Viton Port Size R4400-503 1/2" hose barb straight and elbow R4400-504 3/4" hose barb straight and elbow

Motor Permanent magnet DC totally enclosed non-vented double ball bearing thermal protection EMI filter

Regulated Pressure

R4400-503 25 psi (1.7 bar)
R4400-504 30 psi (2.1 bar)

Duty Cycle

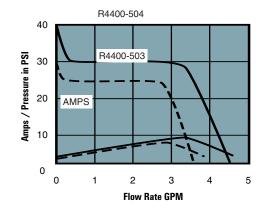
intermittent
Suction Lift Dry
Liquid Temp.

Approvals

R4400-503 25 psi (1.7 bar)
R4400-504 30 psi (2.1 bar)

intermittent
8' vertical lift nominal
Liquid Temp.
CSA, CE

Size R4400-503 3.75" x 6.3" x 9.0"
(95 x 160 x 228 mm)
R4400-504 3.75" x 6.3" x 10.3"
(95 x 160 x 261 mm)
Ship Wt. R4400-503 4.3 lbs (2 kg)
R4400-504 6.3 lbs (3 kg)



FLOJET®



Electric Diaphragm Pumps

Quad Commercial Duty Pumps

Models 4300-530 12VDC S/V 3C SW40 4100-521 12VDC S/V 3C No Switch

Quad DC Commercial Duty

SPECIFICATIONS

Pump Design Four piston diaphragm type Open Flow 3.3 gpm (12.5 lpm)

Voltage 12V DC **Body Material** Polypropylene Diaphragm Material Santoprene Check Valve Material Viton

Port Size 1/2" hose barb port

and Quest, see accessories

PMDC, totally enclosed Motor

non-vented, weather coating, thermal protection,

metal baseplate 30 psi maximum

Pressure **Duty Cycle** Continuous

Suction Lift Dry 6' (1.8m) vertical lift 130° F (54° C) maximum Liquid Temp.

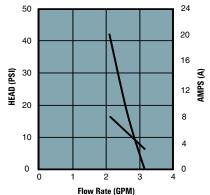
Approvals

10.3" x 4.0" x 3" Size

(261mm x 101mm x 76mm)

Ship Wt. 7 lbs (3.2 kg)





Quad AC Commercial Duty

Models 4300-529 115V AC S/V 3C SW40

SPECIFICATIONS

Four piston diaphragm type Pump Design

Open Flow 3.3 gpm (12.5 lpm)

Voltage 115V AC **Body Material** Polypropylene Diaphragm Material Santoprene Check Valve Material Viton

Port Size 1/2" hose barb ports see accessories

Motor Permanent split capacitor

AC type

totally enclosed fan cooled thermal protection 6' power cord with

3 prong plug 30 psi maximum

Pressure **Duty Cycle** Continuous 25 psi (1.7 bar)

> at 70° F (21° C) 8' (2.4m) vertical lift

Suction Lift Dry 130° F (54° C) maximum Liquid Temp.

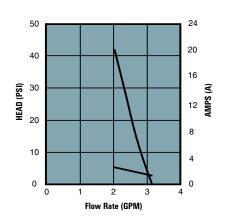
Approvals

10.9" x 5.4" x 5.7" Size

(276mm x 137mm x 145mm)

Ship Wt. 12 lbs (5.5 kg)





Quad Standard Duty Pumps



10 (Y) Salwy 8 4 0 Flow Rate (GPM)

SPECIFICATIONS

Pump Design	Four piston diaphragm type				
Open Flow	4.8 gpm (18.2 lpm)				
	3.3 gpm (12.5 lpm)				
Voltage	12 or 24V DC 115V AC				
Body Material	Polypropylene				
Diaphragm Material	Santoprene or Geolast				
Check Valve Material	Viton or EPDM				
Port Size	1/2" or 3/4" hose barb				
	see accessories				
Motor	PMDC				
	totally enclosed fan cooled				
Pressure	30 psi maximum				
Duty Cycle	Intermittent				
	30 psi (2.1 bar) at 70° F (21° C)				
	continuous				
	15 psi (1.0 bar) at 70° F (21° C)				
Suction Lift Dry	3 cam 8' (2.4m) vertical lift				
	2 cam 6' (1.8m) vertical lift				
Liquid Temp.	130° F (54° C) maximum				
Size	9.0" x 3.2" x 3.8"				
	(228 x 81 x 96 mm)				
Ship Wt.	4 lbs (1.8 kg)				

	PUMP SPECIFICATIONS								
Model	Supply Voltage	Diaphragm Material	Check Valve	Open Flow	Cam Size	Off Pressure	Motor Type	Port Fittings	Thermal Protection
4100-143	12V DC	Santo	EPDM	4.5	3		TEFC	3/4" Hose Barb	Yes
4100-502	12V DC	Santo	Viton	4.5	3		TEFC	3/4" Hose Barb	Yes
4100-142	12V DC	Santo	EPDM	3.2	2		TEFC	1/2" Hose Barb	No
4100-505	12V DC	Santo	Viton	3.2	2		TEFC	1/2" Hose Barb	No
4300-143	12V DC	Santo	EPDM	4.5	3	45	TEFC	3/4" Hose Barb	No
4300-504	12V DC	Santo	Viton	4.5	3	45	TEFC	3/4" Hose Barb	No
4300-142	12V DC	Santo	EPDM	3.2	2	45	TEFC	1/2" Hose Barb	No
4300-500	12V DC	Santo	Viton	3.2	2	45	TEFC	1/2" Hose Barb	No
4300-342	24V DC	Santo	EPDM	3.2	2	45	TEFC	1/2" Hose Barb	No
4300-343	24V DC	Santo	Viton	4.5	3	45	TEFC	3/4" Hose Barb	No
4100-343	24V DC	Santo	EPDM	4.5	3		TEFC	3/4" Hose Barb	No
4300-513	115V AC	Geolast	Buna	3.2	2	45	TEFC	1/2" Hose Barb	No

6000 Series Pumps



6000 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 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,

SPECIFICATIONS

5 chamber diaphragm **Pump Design Motor Design** Permanent Magnet DC Voltage 12, 24 VDC Motor rating: IP 54 (splash proof) 13.5 amp @ 10 psi for 12 VDC Amp Draw: 6.8 amp @ 10 psi for 115 VAC Fuse Size (A): 30 amp for 12 VDC 15 amp for 24 VDC **Pump Body:** Glass filled Nylon **Elastomers** Diaphragm Santoprene™ **Check Valve EPDM** Max. Flow Rate: 7.5 GPM (28 LPM) **Maximum Pressure:** 60 psi (4.2 bar) **Liquid Temp:** 40° F (5°C) max 140° F (60° C) max **Duty Cycle:** Intermittent Weight

9.5 lb (4.3 Kg) max

CE 3/4" HB

HEAD-FLOW CURVE (12V & 24V) 70 (4.9) 70 60 (4.2) 60 PSI (bar) 50 (3.5) 50 12 V AMP 24 V AMP 40 (2.8) HEAD PSI (bar) 30 (2.1) 20 (1.4) 20 10 (0.7) 10 5.0 6.0 3.0 4.0 7.0 (3.8) (7.6) (11.4) (15.2) (19.0) (22.8) (26.6) (30.4) FLOW RATE GPM (LPM)

FEATURES

Certifications:

Port Size Inlet/outlet

- Breakthrough performance for high flow and pressure applications
- 7.5 GPM flow
- AC and DC motor options
- Self priming, runs dry
- Low amps at low flow





G57 Air-Operated Diaphragm Pumps



Innovative compact design features a patented shuttle valve that eliminates stalling. Chemically resistant Polypropylene body with a choice of Santoprene or Viton elastomers. Over-size exhaust muffler provides quiet operation. Quick disconnect liquid and gas port fittings for easy installation. Do not pump gasoline or other flammable liquids.

SPECIFICATIONS

Rated Flow Max Open Flow Gas/Air Pressure Gas/Air Supply **Body Material** Diaphragm Material Check Valve Material Spring Material Liquid Port Size Gas Port Size Dry Prime Wet Prime Liquid Temp Range Liquid Inlet Pressure Maximum Air Pressure Ship Wt.

3.5 gpm (13.3 lpm) 5.0 gpm (19.0 lpm) 20 to 100 psi (1.4 to 7 bar) clean, dry, oil free Polypropylene Santoprene or Viton Santoprene or Viton Hastelloy 3/8" or 1/2" or 3/4" barb 1/4" poly or brass barb 15 ft (4.5m) 20 ft (6.1m) 40-120° F (4-49° C) 30 psi (2.1 bar) Max 100 psi (6.9 bar) 1.2 lbs (.6 kg)

Model	Liquid Elastomer	Gas Ports	Muffler Ports	Size
G575205	Santo	3/8" plastic	1/4" brass barb	Large
G575215	Santo	1/2" plastic	1/4" brass barb	Large
G575225	Santo	3/4" plastic	1/4" brass barb	Large
G575208	Santo	3/8" plastic	1/4" plastic barb	Large
G575218	Santo	1/2" plastic	1/4" plastic barb	Large
G575228	Santo	3/4" plastic	1/4" plastic barb	Large
G573205	Viton	3/8" plastic	1/4" brass barb	Large
G573215	Viton	1/2" plastic	1/4" brass barb	Large
G573225	Viton	3/4" plastic	1/4" brass barb	Large
G573208	Viton	3/8" plastic	1/4" plastic barb	Large
G573218	Viton	1/2" plastic	1/4" plastic barb	Large
G573228	Viton	3/4" plastic	1/4" plastic barb	Large



Air-Operated Diaphragm Pumps

5100 Air-Operated Diaphragm Pumps



Flojet air operated diaphragm pumps offer excellent self-priming capability. Pumps can be located above the supply tank. Suction-side foot valve is recommended for best operation. Liquid pressure is regulated by supply air pressure. No bypass or pressure relief plumbing is necessary. Choice of Santoprene, Buna, or Viton elastomers provide a wide range of chemicalcompatibility. Quick disconnect liquid and gas port fittings provided for easy installation. Do not pump gasoline or other flammable liquids.

SPECIFICATIONS

Rated Flow 1 gpm (3.8 lpm) 1.9 gpm (7.2 lpm) Max Open Flow Gas/Air Pressure 20 to 75 psi (1.4 to 5.3 bar) Gas/Air Consumption .45 CFM at 40 psi at 1 gpm .58 CFM at 60 psi at 1 gpm Gas/Air Supply clean, dry, oil free Liquid Inlet Pressure 15 psi (1 bar) max **Body Material** Acetal Copolymer Diaphragm Material Santoprene, Buna or Viton Check Valve Material Santoprene, Buna or Viton Port Size liquid ports 3/8" barb gas ports 1/4" barb Dry Prime 28 ft (8.5m) Wet Prime 32 ft (9.8m) Max Liquid Temp 120° F (49° C) 4 1/32" x 2 3/8" x 6" Size (102 x 60 x 152 mm) Ship Wt. .6 lbs (.3 kg)

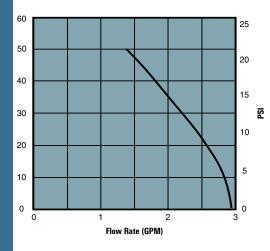
Model	Elastomer	Liquid Ports	Gas Ports
5100-010	Buna	3/8" plastic barb	1/4" plastic barb
5100-020	Viton	3/8" plastic barb	1/4" plastic barb
5100-040	Santo	3/8" plastic barb	1/4" plastic barb







17830-1012



17830 Reversible DC Water Puppy

Models 17830-1012

Especially suited for viscous fluids and engine oil transfer where self-priming and 3 gpm flow is required. Pump oil from crankcase to storage container, and from storage container to waste container automatically using the manual flow reverse switch. No need to remove or re-attach hoses to reverse oil flow direction. Oil temperature should be 100-140°F. Use 12V DC from vehicle battery. Do not pump gasoline or other flammable liquids. DO NOT RUN DRY.

SPECIFICATIONS

Open Flow 3 gpm (11.4 lpm) Voltage 12V DC **Body Material** bronze Impeller Material Nitrile **Shaft Material** stainless steel Shaft Seal Buna lip type Port Size 3/8" NPT(F) PMDC, TENV with manual reverse switch Motor

10 amps nominal 15 amps fuse

Approvals CE

Maximum Pressure 8.7 psi or 20 ft of lift

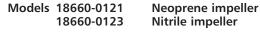
Prime Dry, Wet 3-4 ft (.9-1.2 m), 15-20 ft (4.6-6.1 m)

Liquid Temp. 45-180°F (7-82°C) Nitrile

4 7/16" x 3 1/4" x 7 7/8" (113 x 83 x 200 mm) Size

Ship Wt. 9 lbs (4.1 kg)

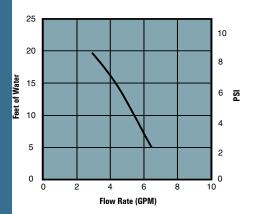
18660 DC Water Puppy



For general transfer pumping where self-priming, 6 gpm flow and debris tolerance are required. Use optional oil-resistant nitrile impeller 6303-0003 if oil or diesel fuel are present. Do not pump gasoline or other flammable liguids. DO NOT RUN DRY.



18660-0121



SPECIFICATIONS

6.3 gpm (24 lpm) Open Flow 12V DC Voltage **Body Material** bronze

Impeller Material Neoprene or Nitrile **Shaft Material** stainless steel Shaft Seal lip type **Shaft Seal Material** Nitrile

Port Size 1/2" NPT(F) 3/4" male garden hose adapter

PMDC, TENV Motor 8.0 amps nominal

15 amps fuse

Maximum Pressure 8.7 psi or 20 ft of lift

Prime Dry, Wet 2-4 ft (.6-1.2 m), 15-20 ft (4.6-6.1 m)

45-180°F (7-82°C) Neoprene Liquid Temp.

3 3/8" x 4 3/4" x 6 1/2" (86 x 121 x 165 mm) Size

Ship Wt. 4.5 lbs (2. kg)



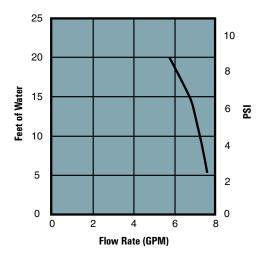
18670 Commercial Duty DC Water Puppy

Model 18670-0123 12V Nitrile Seal 18670-0923 12V CE Nitrile Seal 18670-0943 24V CE Nitrile Seal

Commercial Duty Water Puppy has 25% more flow than the standard model and a heavy duty PMDC motor. For general transfer pumping where self-priming, 8 gpm flow and debris tolerance are required. Oil-resistant nitrile impeller is standard. Do not pump gasoline or other flammable liquids. DO NOT RUN DRY.



18670-0123



SPECIFICATIONS

Open Flow 8 gpm (30.4 lpm)
Voltage 12 or 24V DC
Body Material bronze
Impeller Material Nitrile

Shaft Material 316 stainless steel

Shaft Seal lip type

Port Size 1/2" NPT(F) and 1" hose barb 3/4" male garden hose adapter

Motor PMDC, TENV

Amp Draw 11.5 amp at 12V, 5 amp at 24V Fuse Size 20 amp for 12V, 10 amp for 24V

Maximum Pressure 8.7 psi or 20 ft of lift

Prime Dry, Wet 4-6 ft (1.2-1.8 m), 15-20 ft (4.6-6.1 m)

Liquid Temp. 50-180°F (10-82°C) Nitrile

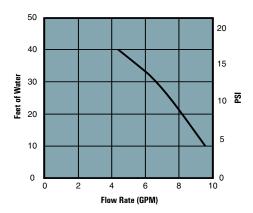
Maximum Pressure 8.7 psi or 20 ft of Head Size 8.7 ysi or 20 ft of Head 3" x 4 3/4" x 6 7/8" (76 x 120 x 175 mm)

Ship Wt. 6.0 lbs (2.7 kg)





11810-0003



11810 Bronze AC Utility Pump

Models 11810-0003 Nitrile impeller ODP motor Nitrile seal 11810-0011 Neoprene impeller TEFC motor Nitrile seal 11810-0013 Nitrile impeller TEFC motor Nitrile seal

For general transfer pumping where self-priming, 10 gpm flow, debris tolerance and portable 115V AC operation is desired. Nitrile for oil based products. Neoprene for water and general purpose pumping. Do not pump gasoline or other flammable liquids. Do not run dry. Motor is not explosion proof.

SPECIFICATIONS

Open Flow 10 gpm (38 lpm)

Voltage 115V AC 60Hz single phase

Body Material bronze Impeller Material Nitrile

Shaft Material 316 stainless steel

Shaft Seal lip type Shaft Seal Material Nitrile

Port Size 1/2" NPT(F) and 3/4" male garden hose thread 1/3 hp, TEFC or ODP AC induction type Motor

8 ft power cord with 3 prong grounded plug

thermal overload protected

7 amps nominal 10 amp fuse

17 psi, 39 ft of Head Maximum Pressure Prime Dry, Wet 8 - 10 ft, 16 - 20 ft

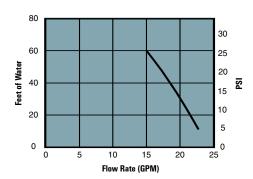
45-180°F (7-82°C) Neoprene Liquid Temp. 50-180°F (10-82°C) Nitrile

7 3/4" x 7 1/4" x 10 1/2" (197 x 184 x 267 mm) Size

20 lbs (9.1kg) ODP, 25 lbs (11.3kg) TEFC Ship Wt.



6050-0003



6050 Bronze AC Utility Pump

Models 6050-0003 **ODP Motor** 6050-0013 **TEFC Motor**

For general transfer pumping using 115V AC power where self-priming, 23 gpm flow and debris tolerance are required. Oil-resistant nitrile impeller is standard. Do not pump gasoline or other flammable liquids. DO NOT RUN

SPECIFICATIONS

Open Flow 23 gpm (87 lpm)

115V AC 60Hz single phase Voltage

Body Material bronze Impeller Material Nitrile

Shaft Material 316 stainless steel

Shaft Seal lip type **Shaft Seal Material** Nitrile Port Size 1" NPT(F)

Motor 3/4 Hp TEFC or ODP AC induction type

8 ft. power cord with 3 prong grounded plug

thermal overload protected

Maximum Pressure 26 psi or 60 ft lift

Prime Dry, Wet 8-10 ft (2.4-3 m), 20-22 ft (6.1-6.7 m)

Liquid Temp. 50-180°F (10-82°C) Ship Wt. 35.5 lbs (16.1 kg)

8 19/32" x 7 3/4" x 13 1/32" (218 x 197 x 331 mm) Size



NEW 23920 Extended Run Dry DC Flexible Impeller Pump

Models 23920-9403 12VDC 8 gpm 23920-9213 12VDC 11 gpm

For general purpose pumping where self-priming and extended run dry capability are required. Liquid stored in the specially designed pumphead provides 10 minutes or more of run dry operation after liquid supply tank is empty. Heavy duty 12V DC motor. Upgraded carbon-ceramic mechanical shaft seal standard. Do not pump gasoline or other flammable liquids.



23920-9403

SPECIFICATIONS

Open Flow 8 or 11 gpm (30 or 42 lpm)

Voltage 12V DC
Body Material bronze
Impeller Material Nitrile
Shaft Material stainless steel

Shaft Seal mechanical, Carbon Ceramic/Nitrile

Port Size 3/4" NPT(F) Motor PMDC, TENV

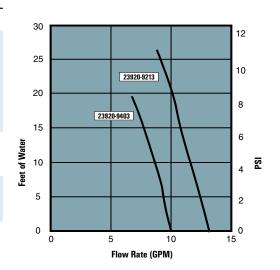
23920-9403 15 amp fuse 23920-9213 25 amp fuse

Liquid Temp. 45-180°F (7-82°C) Maximum Pressure 8 psi, 19 ft of lift

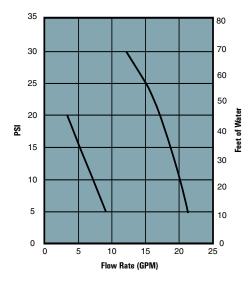
Dry Prime 23920-9403 3-4 ft, 23920-9213 6-8 ft

Size 23920-9403 7 1/2" x 4 3/4" x 3 1/2" (190 x 121 x 89 mm) 23920-9213 8 1/2" x 4 3/4" x 3 1/2" (216 x 121 x 89 mm)

Ship Wt. 23920-9403 8.2 lbs (4 kg) 23920-9213 9.7 lbs (3.4 kg)



30140-0003



30140 & 30180 Run Dry AC Flexible Impeller Pump

Models 30140-0003 9 gpm 30180-0003 23 gpm

For general transfer pumping where self-priming, debris tolerance and extended run dry capability are required. Liquid stored in the specially designed pumphead provides 10 or more minutes of operation after supply tank is empty. Oil-resistant nitrile impeller is standard. Do not pump gasoline or other flammable liquids. EXTENDED RUN DRY CAPABILITY.

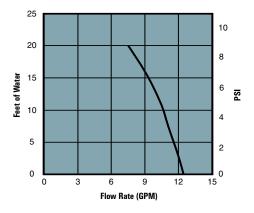
SPECIFICATIONS

Open Flow Voltage Body Material Impeller Material Shaft Material Shaft Seal Port Size	30140 9 gpm (34 lpm) 30180 23 gpm (87 lpm) 115V AC 60Hz single phase bronze Nitrile 316 stainless steel Nitrile, lip type 1" NPT(F) 30140 1 1/2" NPT(F) 30180
Motor	1/3 Hp capacitor start type, ODP, 8 ft. power cord 3 prong grounded plug, thermal overload protected 7 amps 30140, 11 amps 30180, fuse 10 amps 30140, 15 amps 30180, fuse
Maximum Pressure Prime Dry, Wet Liquid Temp.	30140 20 psi or 46 ft lift 30180 30 psi or 69 ft lift 30140 8-10 ft (2.4-3 m) 30180 15-22 ft (4.6-6.7 m) 50-180° F (10-82° C)
Size Ship Wt.	30140 7 9/16" x 7 3/8" x 10 1/8" (192 x 187 x 257 mm) 30180 8 1/2" x 8 1/8" x 11 11/16" (216 x 206 x 297 mm) 30140 23.0 lbs (10.4 kg) 30180 31.0 lbs (14.1 kg)
	30100 31.0 lb3 (14.1 kg)

17



18590-1000



18590 Macerator Run Dry DC Flexible Impeller Pump

18590-1000 18590-1090 **12V CE**

Run-dry protected macerator pump combines a self-priming flexible impeller pump with a high speed macerator blade to grind soft waste and debris down to 1/8" diameter for pumping. Ideal for animal waste and plant material slurry. Not for pumping stringy objects such as rags or solid objects like large fruit pits. Can empty a 30-gallon waste tank in approximately 3 minutes. Designed for intermittent operation. Run-dry protection circuit turns pump off after approximately 20 seconds of dry-run operation. Reactivation after run-dry shutdown occurs automatically the next time the pump is turned on. Reliance on the run-dry protection circuit to turn the pump off will significantly shorten impeller life. Do not pump gasoline or other flammable liquids. DO NOT RUN DRY.

SPECIFICATIONS

Open Flow 12 gpm (46 lpm) 12V DC Voltage **Body Material** Polypropylene Impeller Material Nitrile **Shaft Material** stainless steel Macerator Blade stainless steel Shaft Seal Nitrile lip type Inlet Port Size 1 1/2" NPT(M) or 1 1/2" hose barb

Outlet Port Size 1" Hose Barb

Motor PMDC, TENV run dry protected

> 14 amps nominal 20 amps Fuse

Maximum Pressure 8.7 psi or 20 ft of lift

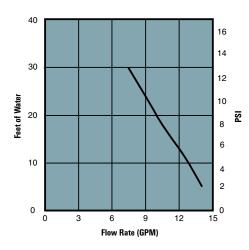
Prime Dry 4 ft (1.2 m) 45-120° F (7-49° C) Liquid Temp.

3 5/8" x 4 3/4" x 11 3/8" (92x 121 x 289 mm) Size

Ship Wt. 5.0 lbs (2.3 kg)



18690-0000



18690 Macerator AC

18690-0000 Model 115V

Pump combines a self-priming flexible impeller pump with a high speed macerator blade to grind soft waste and debris down to 1/8" diameter for pumping. Ideal for animal waste and plant material slurry. Not for pumping stringy objects such as rags or solid objects like large fruit pits. Can empty a 30-gallon waste tank in approximately 3 minutes. Designed for intermittent operation. Do not pump gasoline or other flammable liquids. DO NOT RUN DRY.

SPECIFICATIONS

Size

14 gpm (53 lpm) Open Flow Voltage 115V AC **Body Material** Polypropylene Impeller Material Nitrile **Shaft Material** stainless steel Macerator Blade cast bronze Shaft Seal Nitrile lip type Inlet Port Size

1 1/2" NPT(M) or 1 1/2" hose barb

Outlet Port Size 1" Hose Barb

Motor TENV, AC induction type, thermal overload protected

nominal amp draw 7.2 amps

Maximum Pressure 13 psi or 30 ft of lift Prime Dry 4 ft (1.2 m)

45-120° F (7-49° C) Liquid Temp. 14 7/8" x 7 1/4" x 8 " (378 x 184 x 203 mm)

Ship Wt. 19 lbs (8.6 kg)



JSP03 & JSP07 Pumps

Models JSP0311ATF 35 gpm JSP0711ATF 55 gpm

Submersible sump pumps with float switch for automatic operation. Pumps are lightweight, portable and easy to service. Will handle up to 3/8" diameter solids. Motor is permanently lubricated for extended service and rated for continuous operation. Stainless steel housing and pump shaft.

SPECIFICATIONS

Open Flow 35 gpm (133 lpm) & 55 gpm (209 lpm)

Voltage 115V AC 60Hz single phase
Body Material glass-filled thermoplastic
Impeller Material glass-filled thermoplastic
Shaft Material 416 stainless steel
Discharge Port Size 1 1/2" NPT(F)

Maximum Head JSP03 - 20 feet (6.1 m) JSP07 - 34 feet (10.4 m)

Max. Liquid Temp 104°F (40°C)

Min. ON Level JSP03 11" (277 mm), JSP07 12 1/2" (318 mm) Min. OFF Level JSP03 5" (126 mm), JSP07 6 1/2" (165 mm)

Minimum Basin Level 5" (127 mm)
Minimum Basin Diam. 12" (305 mm)
Float Style piggyback wide angle

Motor 1/3 Hp permanent split capacitor type, JSP03

3/4 Hp permanent split capacitor type, JFP07 overload protected with automatic reset class F insulation, continuous duty heavy duty ball bearing construction

Cord Length 20 feet (6 m)

Maximum Amp JSP03, 1/3 HP, 115V 2.8 amps

JSP07, 3/4 HP, 115V 6.6 amps

Approvals cCSAus, UL

Liquid Temp. 50-104° F (10-40° C) Maximum Pressure 30 psi or 70 ft lift

Size JSP03 9 3/4" x 6 1/8" x 6 1/8"

(248 x 156 x 156 mm)

JSP07 11 1/4" x 6 1/8" x 6 1/8"

(286 x 156 x 156 mm)

Ship Wt. JSP07, 11.5 lbs (5.2 kg)

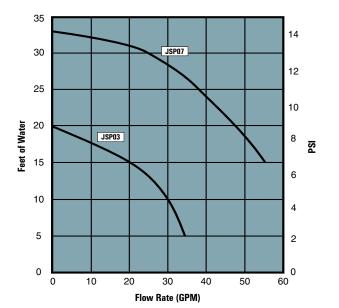
JSP07, 15.5 lbs (7.0 kg)



35. 05

Consult factory for 220vac models.





19

JABSCO°



59500-0012

59500 Mag Drive Centrifugal Pump

Model 59500-0012 12V DC 59500-0024 24V DC

Compact, robust, high flow, long life circulating pump for use with hot water systems, heating systems, windshield washing and applications where re-circulation is required. Direct replacement for Johnson CO10P5-2 and CM10P7-1 Pumps.

SPECIFICATIONS

Open Flow 3.9 gpm (14.8 lpm) at 4 feet of lift

Pump Type centrifugal

Voltage 12V DC or 24V DC

Body Material plastic

Coupling magnetic drive

Port Size 3/4" (19 mm) hose barb

Motor PMDC, 2500 hour nominal life

IP53 enclosure rating

3 amps Fuse for 12V model1.5 amps Fuse for 24V model

Liquid Temp. 212° F (100° C)

Maximum Pressure 2.8 psi, 6.5 ft of lift

Size 5 1/4" x 3 3/8" x 2 1/2" (133 x 86 x 63 mm)

Ship Wt. 1.5 lbs (.7 kg)





Drum Pump Motor

The new and improved 16450 Series drum pump motor is compatible with all Jabsco 16000 Series drum pump tubes. Jabsco drum pumps quickly and easily transfer and dispense liquids from drums and tanks. Drum pump tubes are available in polypropylene, stainless steel, hygienic stainless steel, and Kynar to be compatible with most liquid chemicals.

SPECIFICATIONS

Motor Type 115V AC 60Hz, 600 Watts

Fan Cooled, Thermal Protection

Motor Brushes Replaceable 5.8 amps Nominal Amp Draw **Duty Cycle** Intermittent Enclosure Weather Protected Ambient Temperature 40-120° F (4-53° C)

9" x 5" x 10 1/4" (228 x 127 x 260 mm)

Wt. 7.5 lbs (3.4 kg)



16450-0115

Motors	Voltage	Features
16450-0115	115VAC 60 Hz	Circuit Breaker
16450-2115	115VAC 60 Hz	Circuit Breaker, Low Voltage Safety Protection, CE approved

Drum Pump Tubes

35 1/2" tubes are designed for standard US 55 gallon drums. They handle a wide range of chemicals from strong acids and caustics to severe solvents and oils. Kynar is our most chemically resistant drum pump material. Hygienic models can handle food and beverage grade liquids and are built with USDA approved materials. Not recommended for viscosities over 3500 SSU. Sealless design provides up to 30 minutes of run-dry operation. Designed for gloved operation, self-aligning motor coupling makes pump easy to use.

Pump Tubes	Tube Material	Length	Shaft	Impeller	Weight
16400-3350	Polypropylene	35.5"	Carpenter 20	Tefzel	2.25 lbs
16410-3350	Stainless Steel	35.5"	316 SS	Tefzel	7.5 lbs
16510-3350	Hygienic SS	35.5"	316 SS	Tefzel	7.5 lbs
16520-3350	Kynar	35.5"	Hastelloy C	Tefzel	2.75 lbs



18753-0077 Adjustable Nozzle Chemically Resistant Plastic material



Wall Mount Drum Pump Storage Bracket For easy storage when pump is not in use.



18753-0080

Drum Pump Bung Adapter 2" allows pump tube to fit snugly in 2" bung hole.





16471-0000 Safety Ground Strap

16490-1000 Polypro Strainer - Gray 16490-1001 Tefzel Strainer - Black

Blocks debris entry and protects pump impeller.



Oil Change System

Flat Tank Oil & Fluid Changing System

The Oil & Fluid changing System reduces time for and simplifies the fluid changing process. It is ideal for Automotive and heavy duty diesel service, construction, agricultural and industrial vehicles, boats and RV's

- 3 1/2 gallon (13 liter) self-contained unit
- Convenient Dipstick suction tube
- Powerful 12 VDC motor makes oil changing quick & simple
- 7-foot (2.1 m) electrical wire for easy usage
- Battery clamp leads and an on-off switch to make the pumping process simpler and easier



178601012

SPECIFICATIONS

Model 178601012

Pump Body: Polypropylene

Diaphragm: Geolast ®, oil resistant

Valves: Viton ®, oil resistant

Motor: 12 VDC with integral power switch

Receiver: Plastic with 14 quart max. capacity tank

Weight: 3.5 lb (1.6 Kg)

Accessories and Fittings



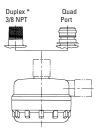
Inlet Strainers 1745 Series PETG Viton

- New PETG cover for improved chemical resistance.
- Viton o-ring is standard.
- Low profile design for space saving installation.
- Very strong reinforced plastic base with clear cover.
- Wide variety of port configurations from 3/8" to 3/4."

SPECIFICATIONS

Materials	Base	Polypropylene, black
	Cover	PETG, Glycol-modified
		polyester terephthalate
	Screen	Stainless Steel 40 mesh
	O-rings	Viton
Tomporaturo	160°E /7	0°C) may

Styles Available

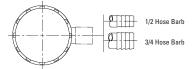


Model No. Description

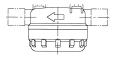
01745-010 Quad x 3/4" hose barb, Viton o-ring, PETG cover 01745-012 Quad x 1/2" hose barb, Viton o-ring, PETG cover 01745-023 3/8" NPT (M) x 3/8" hose barb,

Viton o-ring, PETG cover

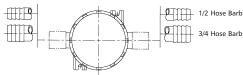
*3/8" NPT (M) fits all Duplex II models



Inlet Strainer (Plugs into Quad pump port)



In-Line Strainer



Model No.	Description
01745-000	Inline strainer, 3/4" hose barb x 3/4" hose barb, Viton o-ring, PETG cover
01745-002	Inline strainer, 1/2" hose barb x 1/2" hose barb. Viton o-ring, PETG cover

Electric Pump Fittings Nylon Barbed Straight/Elbow

For use with all Pentaflex Series (3/8" NPT only) and Duplex II Series Pumps (3/8" NPT only).



Part No.	Part Numbe	r
Straight	Elbow	Description
91010-032	91010-033	3/8" NPT Male x 1/4" Barb
91010-004	91010-003	1/4" NPT Male x 3/8" Barb
91010-002	91010-001	3/8" NPT Male x 3/8" Barb
91010-034	91010-025	1/4" NPT Male x 3/8" Barb
91010-006	91010-005	3/8" NPT Male x 1/2" Barb
91010-053	91010-052	1/4" NPT Male x 1/4" Barb

Plastic (Polyproylene Body, Viton O-ring) Inlets & Outlets

For use with all Quad Series Pumps.



Part No.	
Straight	Description
20381-015	Quad x 1/2" hose barb straight, Viton o-ring
20381-033	Quad x 5/8" hose barb straight, Viton o-ring
20381-014	Quad x 3/4" hose barb straight, Viton o-ring
20381-017	Quad x 1/2" hose barb elbow, Viton o-ring
20381-018	Quad x 3/4" hose barb elbow, Viton o-ring
20381-032	Quad x3/4" garden hose adapter, Viton o-ring

Other Elastomers Available Packaged 2 per bag. ALSO AVAILABLE IN 3/8" & 1/2" NPT (M).

Gas Pump Liquid Fittings

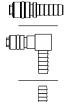
Stainless Steel Inlets & Outlets For use with all 5100 Series Pumps.



Part No. Straight	Part Number Elbow	Description
20324-030	20607-100	1/4" Hose Barb
20325-030	20608-100	3/8" Hose Barb
20606-100		1/2" Hose Barb

Gas Pump Air Fittings

Brass CO2/Air Inlets with Shutoff Valve For use with all 5100 and G57 Series Pumps.



Part No.	Description
01510-000	1/4" Hose Barb, Straight
01520-000	1/4" Hose Barb, Tee
01521-000	1/4" Hose Barb, Elbow



Plastic (Celcon) CO₂/Air Inlets

For use with all 5100 and G57 Series Pumps.



Part No.	Description			
20325-033	1/4" Hose Barb, Straight			

CHEMICAL RESISTANCE TEST DATA

AG CHEMICAL	AG CHEMICAL ELASTOMER					
	PDM Com)	EPDM (FDA)	EPDM (Fab)	SANTO	VITON	BUNA
Diazinon	С	С	С	В	А	С
Chickweed Killer	Α	Α	Α	Α	Α	А
Triox Veg Killer	C	C	C	C	В	C
Round-Up Conc	Α	А	Α	А	А	А
Sevin	Α	Α	Α	Α	Α	В
Malathion	Α	C	В	Α	В	C
Spectracide	Α	Α	Α	Α	Α	Α
Ortho Weed-B-Gon	Α	Α	Α	Α	Α	А
Ortho Weed & Grass Killer	Α	Α	Α	Α	Α	Α
Home Orchard Spray	Α	Α	Α	Α	Α	В
Lasso MT	Α	Α	Α	Α	Α	Α
Round-Up Super Conc. Grass & Weed Killer	Α	А	Α	Α	Α	Α
Wipe-Out Weed Killer	Α	Α	Α	Α	Α	Α
Lasso EC	Α	В	Α	Α	В	C
Ortho Malathion 50 P	Α	C	В	Α	В	C
Super K-Gro (Dursban)	C	C	C	C	Α	C
Ortho Liquid Sevin	Α	Α	Α	Α	Α	Α
2,4-D Amine 4	Α	Α	Α	Α	Α	Α
Dursban 4E	C	C	В	В	Α	C
Dursban 2E	C	C	В	C	Α	C
Dow Elanco 2,4,D Bee	C	В	Α	В	Α	C
Lorsban 4E	В	C	В	В	Α	C
Dursban 50W	Α	Α	Α	Α	А	А
CARRIER						
Acetone	Α	Α	Α	Α	C	C
Xylene	C	C	C	C	В	C

Kerosene

A - No Significant Effect

B - Moderate Effect, Generally Satisfactory

C - Major Effect, Not Satisfactory

PRODUCT SPECIFICATION FORM

• • •	ODUCT 3F	LCIIICAII			
	CUS	TOMER DATA			
Company:		Date:			
Address:					
City:	State:	Country:			
Phone:	Fax:		E-mail:		
Contact:	Title:		Annual Un	it Sales:	
Samples Requested:	Agency Appro	vals Required:			
		CATION DATA			
Flow Rate: Point (Оре	erating Pressu		
Point (•			Point (B)	
Point (C)			Point (C)	
Fluid Being Pumped:					
Horizontal Mounting Pos	ition:	Vertical, Pu	ump Head Do	wn:	
Suction Plumbing Type:	S	ize:		Length:	
Vertical Distance:	ŀ	Iorizontal Distar	ice:		
Fittings/Elbows:	C	uick Disconnect	:s:	Size:	
Discharge Plumbing Type	: S	ize:		Length:	
Vertical Distance:		lorizontal Distar	ice:	_	
Fittings/Elbows:		uick Disconnect		Size:	
Nozzle/Orifice Qty:		ize:			
Solenoid Controlled:		Manual Co	ntrolled:		
Intermittent Duty:		ontinuous Duty			
Time On:	Time Off:	Hrs./Day:		s/Week:	
Environmental Condition			Hum	nidity Range:	
	Noise Limitation			osure To Sun:	
	PRC	DUCT DATA	MOTOR INFOR	MATION	
Voltage:	Minimu	Minimum:			
AC: DC:			Source:		
Torque Required:			Max Amps:		
Cord:		Special Leads:		Length:	
Thermal Protection:	Temperature Range:				
RFI Suppression:	Full:	J -	Partial:		
Base Plate:					
Other:		<u> </u>			
	PUMP	INFORMATIO	N .		
Vented Body:	\	ented Check	Valve:	Anti-Drip	

Bypass Required: PSI On: Max. PSI: PSI Off:

Completed By

Automatic Control:

S.S. Screws:

Valve:

Screen: