

WELCOME TO FLOJET

MOTOR DRIVEN PUMPS

FLOJET
MOTOR DRIVEN

FEATURES AND BENEFITS

Expect only the best. With over 30 years of pump design and manufacturing experience, ITT Flojet is committed to delivering the hardest working and longest lasting pumps. No matter the application, ITT Flojet can provide a superior pump to match all your requirements.

SELF-PRIMING EVEN WHEN DRY

Dry vertical lift from 6.0 ft (1.8m) up to an outstanding 10.0 ft (9.0m).

CAN RUN DRY WITHOUT DAMAGE

- ITT Flojet diaphragm pumps can run dry for extended periods with no damage even when the liquid supply is exhausted
- Compatible with a wide range of chemicals
- Seal-less design (no shaft seal, so less leak issues)

COMPACT SIZE AND LIGHTWEIGHT

- Highest flow rates for its size
- Plug-in ports for easy installation and servicing
- ITT Flojet pumps can be mounted easily anywhere with functional mounting platforms and simple connections - fit it anywhere and plumb up

EASY, LOW-COST AND CONVENIENT SERVICING

- Modular design
- Low cost, low maintenance design means a trouble free service life
- Spare parts and accessories are readily available and easy to install

THE PRINCIPAL BEHIND POSITIVE DISPLACEMENT DIAPHRAGM PUMPS



Self-priming design allows pumps to create suction to draw fluid into pump without manual priming.



Fluid enters inlet port and is drawn through inlet check valve when piston moves away from the check valve.



As piston moves toward the check valve assembly, the fluid is forced through the outlet check valve and out of the pump.

QUAD 4000 SERIES PUMPS | FOR INTERNATIONAL & US MARKETS

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



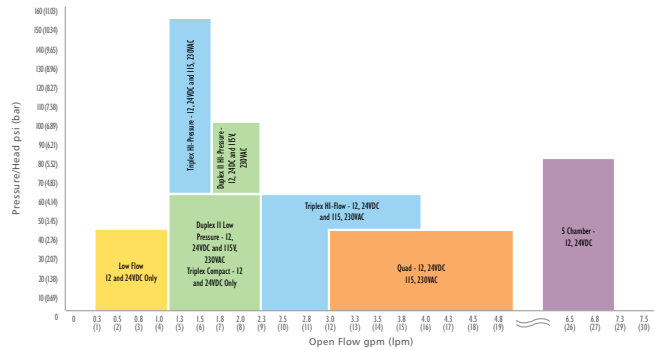
FEATURES

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

SPECIFICATIONS

| | |
|----------------------------|---|
| Flow Rate | 3.5 to 5.0 GPM (13.2 and 18.9 L/min) Nominal |
| Pump Design | Diaphragm |
| Motor | TEFC/TEWP Permanent Magnet Motor |
| Voltage | 12 & 24 Volt DC, 115 & 230 Volt AC |
| Cycle | 50/60 hertz for AC Models |
| Current | 1.5 amp max. (115 V) |
| Pressure Switch Setting | 45 PSI (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" (12.7mm) or 3/4" (19mm) Hose Barb Standard |
| Wetted Parts | Housing Modified Polypropylene - Standard, Elastomers Santoprene™ and Buna - Standard |
| Net Weight | 4 lbs. (2 kg) |

DIAPHRAGM PUMP PRODUCT RANGE



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Featuring the New Motor Driven
7.0 GPM Pentaflex Diaphragm Pump

Flojet Series High Performance Diaphragm Pumps



Engineered for life

PENTAFLEX SERIES | FOR INTERNATIONAL & US MARKETS

Flojet Pentaflex® Series 7.0 GPM High Pressure Pumps – the industry’s most powerful diaphragm pumps in it’s class and price range.

The Flojet Pentaflex pumps are engineered and constructed with the latest co-injection mold diaphragm technology, which virtually eliminates potential leak paths. This latest innovation offers unequalled pump performance and life.

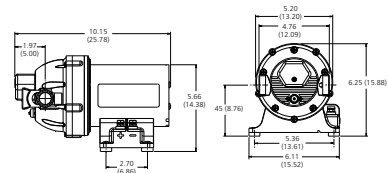
Also, Flojet’s unique five chamber design allows these pumps to operate at exceptional flow rates and pressures. With operating pressures exceeding 60 psi and self-priming capabilities exceeding 10 ft., Flojet Pentaflex pumps are designed to be the most versatile pumps on the market today.

The Flojet Pentaflex Series High Pressure Pumps are available now in 12 and 24 VDC models, and being made from Santo/EPDM and Santo/Viton makes them capable of handling some tough chemicals without corroding.



DIMENSIONAL DRAWING

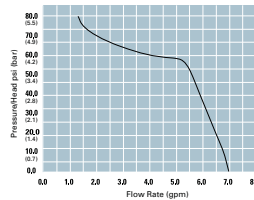
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MODELS

| MODEL #S | CE | VOLTAGE | SWITCH PSI (BAR) | BYPASS PSI (BAR) | DIAPHRAGM | CHECK VALVE | OPEN FLOW GPM (LPM) | FITTINGS |
|-----------|-----|---------|------------------|------------------|------------|-------------|---------------------|------------|
| R7300142A | Yes | 12 | 80 (5.5) | Yes | Santoprene | EPDM | 7.0 (26.5) | 3/4" HB ST |
| R7300142B | Yes | 24 | 80 (5.5) | Yes | Santoprene | EPDM | 7.0 (26.5) | 3/4" HB ST |
| R7300122A | Yes | 12 | 80 (5.5) | Yes | Santoprene | Viton | 7.0 (26.5) | 3/4" HB ST |
| R7300322A | Yes | 24 | 80 (5.5) | Yes | Santoprene | Viton | 7.0 (26.5) | 3/4" HB ST |

PERFORMANCE



SPECIFICATIONS

| | |
|--------------|--|
| Pump Body | Glass Filled Nylon |
| Pump Design | 5 Chamber Diaphragm |
| Suction Lift | Self Priming to 8 ft. (2.5 m) |
| Ports | (2) -3/4" (19 mm) Hose Barb (2) -3/4" (19 mm) Hose Barb 90° Elbow |
| Motor | Permanent Magnet |

LF SERIES | FOR INTERNATIONAL & US MARKETS

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



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

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, .027" (0.83 mm) Diameter |
| Port Type | 3/8" (9.5 mm) Hose Barb |
| Operating Pressure | 35 PSI (2.4 bar) Maximum |
| Pressure Switch Setting | 35 PSI (2.4 bar) ON, 25 PSI (1.7 bar) On |
| Self-Priming | Up to 2.5 ft. (26 m) Vertically |
| Liquid Temperature | 110° F (43° C) Maximum |
| Motor Type | Permanent Magnet Motor |
| Motor Voltage | 12 V DC, 24VDC, 115VAC |
| Current | 2.5 Amp Nominal @ 25 PSI (1.7 bar) |

DUPLEX II SERIES PUMPS | FOR INTERNATIONAL & US MARKETS

The Duplex II series of pumps incorporate the best technology and features developed by ITT 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.



SPECIFICATIONS

| | |
|----------------------------|--|
| Pump | Positive Displacement two piston design |
| Flow Rate | 2.2 GPM (8.32 L/min) for high pressure models 1.6 GPM (6.02 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 |
| Pump Design | 5 Chamber Diaphragm |
| Cycle | 50/60 hertz for AC models |
| Dry Vacuum | Up to 8 feet (2.4 m) |
| Pressure Switch Setting | 15, 30, 45, 60, 90, and 100 PSI |
| Wetted Parts | Polypropylene, Viton®, Buna or EPDM |
| Net Weight | 4 to 5 lbs. (2.28 kg) |
| Maximum Operating Pressure | 100 PSI (6.8 bar) |

FEATURES

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

TRIPLEX SERIES | FOR INTERNATIONAL & US MARKETS

TRIPLEX COMPACT RANGE PUMPS - These pumps are designed specifically for the Agricultural market. ITT Flojet's new three chamber design and versatile features make them ideal for sprayers and many other transfer and dispensing applications. These automatic demand pumps are fitted with a sealed pressure switch and motor, is self-priming, can run dry, and can be installed in compact spaces.



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 60 psi (4.1 bar)

SPECIFICATIONS

| | | | |
|----------------------|--|------------------------|--------------------|
| Motor Design | Permanent Magnet TERN (non-ventilated) | Max. Flow Rate | 2.0 GPM (7.6 LPM) |
| Voltage | 12 VDC | Maximum Pressure | 60 psi (4.1 bar) |
| Amp Draw | 8 amp max for 12 VDC | Duty Cycle | Intermittent |
| Pump Head | Reinforced Polypropylene | Weight | 3.4 lb (1.5 kg) |
| Elastomers Diaphragm | Santoprene™ | Certifications | CE, NSF components |
| Check Valve | EPDM or Viton | Port Size Inlet/outlet | 3/8" NPTF |

TRIPLEX HI-PRESSURE PUMPS - These pumps are capable of pressures up to 160 PSI (11 Bar), some of the highest pressures available in the diaphragm pump industry. This is ideal for applications such as spraying, misting, filtration, cooling, dispense and pressure boosting.



FEATURES

- Constructed from a selection of materials suitable for handling a broad range of chemicals.
- Self-priming up to 8 feet (2.4m); pump can be located above supply tank
- Sealed pressure switch and motor
- Can run dry for extended periods of time without damage
- Flow rates to 1.4 GPM (5.5 LPM) and operating pressure to 160 psi (11 bar)

| | | | |
|----------------------|--|------------------------|---|
| Motor Design | Permanent Magnet DC and rectified (PMDC) AC | Max. Flow Rate | 1.4 GPM (5.3 LPM) |
| Voltage | 12, 24 VDC, 115, 230 VAC | Maximum Pressure | 140 psi (10 bar) switch cutoff 140 psi (9.7 bar) max running pressure |
| Cycles | 50/60 Hz | Max. Liquid Temp | 40° F (4° C) Min., 140° F (60° C) Max. |
| Amp Draw | 9 amp max for 12 VDC, 0.95 amp max for 115 VAC | Duty Cycle | Intermittent |
| Pump Head | Glass filled Nylon | Weight | 7.6 lb (3.5 kg) |
| Elastomers Diaphragm | Santoprene™ | Certifications | CE, NSF components |
| Check Valve | EPDM or Viton | Port Size Inlet/outlet | 3/8" NPTF |

TRIPLEX HIGH FLOW PUMPS - These 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 Triplex High Flow pumps are self-priming and can run dry without harm.



| | | | |
|----------------------|--|--------------------------|---|
| Motor Design | Permanent magnet DC | Check valves | Viton, EPDM |
| Voltages | 12, 24 VDC, 110VAC, 230VAC | Max. Flow Rate | 4 GPM (15.1 LPM) |
| Pump Rating | IP 54 (splash proof) | Max. Pressure | 60 psi (4.1 bar) switch cutoff 50 psi (3.4 bar) max running pressure |
| Amp Draw | 5 amps @ 10 psi for 12 VDC 3 amps @ 10 psi for 24 VDC 9 amps @ 10 psi for 12 VDC 6 amps @ 10 psi for 24 VDC 9 amps @ 40 psi for 12 VDC 6 amps @ 40 psi for 24 VDC | Max. Liquid Temp | 40° F (4° C) Min., 140° F (60° C) Max* |
| Pump Head | Polypropylene | Duty Cycle | Intermittent** |
| Elastomers Diaphragm | Santoprene® | Weight | 5.05 lbs (2.29 kg) max. |
| | | Wiring Options | Standard 18 AWG leads |
| | | Port Size inlet / outlet | 3/4" (19 mm), 3/8" NPTF |