

DUPLEX DIAPHRAGM BYPASS PUMP



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- Flojet 2100 Delivers Flows up to 2.0 GPM (7.6 *l/min.*) and Operating Pressures up to 50 PSI (3.5 bar)
 - Built-in Internal Recirculating Bypass to Protect Pump
 - Can Run Dry Without Damage
 - Excellent Self-Priming Capability
 - Powerful Permanent Magnet Motor with Low Current Draw
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FLOJET

DUPLEX DIAPHRAGM BYPASS PUMP

SPECIAL FEATURES

FLOJET 2100 delivers working pressures up to 50 PSI (3.5 bar). See model 2135 or 2130 for applications up to 70 & 100 PSI (4.8 & 6.9 bar) respectively.

Built-in internal recirculating bypass to protect pump and system from excessive pressure. Also available as basic pump (no bypass, no switch).

Duplex Diaphragm Design eliminates troublesome shaft seal.

Can run dry without damage to the pump and handle liquids up to 130°F (54°C).

Ball-bearing drive in 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.

U.L. recognized (115 Volt AC only).

Available in 12 to 230 Volts.

SPECIFICATIONS

| | |
|-------------------------------|---|
| Flow Rate | 1.0 to 2.0 GPM (3.8 to 7.6 <i>l/min.</i>) Nominal |
| Pump Design | Duplex Design |
| Shaft Seal | None |
| Motor | Permanent Magnet Motor (with solid state rectifier on 115 & 230 Volt) |
| Standard | TENV (non-ventilated) |
| Optional | TEFC (fan-cooled) |
| Voltage | 12 & 24 Volt DC, 115 & 230 Volt AC |
| Cycle | 50/60 hertz for AC Models |
| Current | |
| 12 Volt | 8.0 amp max. |
| 24 Volt | 3.5 amp max. |
| 115 Volt | 0.55 amp max. |
| 230 Volt | 0.25 amp max. |
| Maximum Total Bypass Pressure | 70 PSI (4.8 bar) |
| Maximum Operating Pressure | 50 PSI (3.5 bar) |
| Maximum Liquid Temperature | 130°F (54°C) |
| Self-Priming | Up to 5 ft. (1.5 m) Vertical Height |
| Ports | 3/8" NPT, May be rotated in 90° increments |
| Wetted Parts | |
| Housing | Reinforced Polypropylene - Standard Nylon - Optional |
| Elastomers | Santoprene® Viton® and Buna |
| Net Weight | 3.8 lbs. (1.7 kg) |

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PUMP PERFORMANCE

BYPASS PUMP - WITH NO. 2 CAM

| CAPACITY, Gallons Per Minute (Liters Per Minute) | | | | | | |
|--|------------|-----------------|------------------|------------------|------------------|------------------|
| 115 & 230 Volt | | | | | | |
| Model No. | Max. Flow | 10 psi (.7 bar) | 20 psi (1.4 bar) | 30 psi (2.1 bar) | 40 psi (2.8 bar) | 50 psi (3.5 bar) |
| 2100-973 | 1.75 (6.6) | 1.51 (5.7) | 1.35 (5.1) | 1.16 (4.4) | .90 (3.4) | .50 (1.9) |
| (2100-965) | 1.61 (6.1) | 1.39 (5.26) | 1.24 (4.7) | 1.07 (4.05) | 0.83 (3.14) | 0.46 (1.74) |
| 12 Volt | | | | | | |
| Model No. | Max. Flow | 10 psi (.7 bar) | 20 psi (1.4 bar) | 30 psi (2.1 bar) | 40 psi (2.8 bar) | 50 psi (3.5 bar) |
| 2100-697 | 2.0 (7.5) | 1.35 (5.1) | .55 (2.0) | 0 | 0 | 0 |
| 2100-737 | 2.2 (8.3) | 1.90 (7.2) | 1.55 (5.9) | 1.15 (4.4) | .70 (2.6) | 0 |

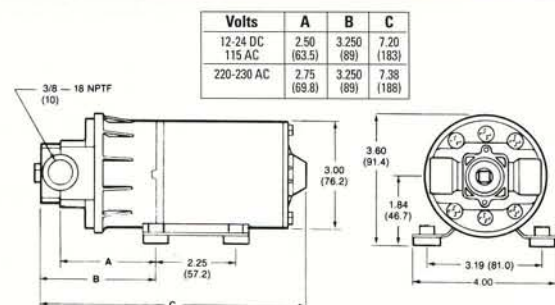
Above models with 30 and 55 PSI total bypass, Santoprene elastomers. Optional Buna and Viton® Elastomers available. Consult factory for special flow requirements.

BASIC PUMP - (NO SWITCH, NO BYPASS) WITH NO. 2 CAM

| CAPACITY, Gallons Per Minute (Liters Per Minute) | | | | | | |
|--|-------------|-----------------|------------------|------------------|------------------|------------------|
| 115 & 230 Volt | | | | | | |
| Model No. | Max. Flow | 10 psi (.7 bar) | 20 psi (1.4 bar) | 30 psi (2.1 bar) | 40 psi (2.8 bar) | 50 psi (3.5 bar) |
| 2100-515 | 1.85 (7.0) | 1.51 (5.7) | 1.34 (5.0) | 1.19 (4.5) | 1.05 (4.0) | .94 (3.6) |
| (2100-613) | 1.68 (6.36) | 1.37 (5.19) | 1.22 (4.62) | 1.08 (4.01) | 0.96 (3.63) | 0.86 (3.24) |
| 12 Volt | | | | | | |
| Model No. | Max. Flow | 10 psi (.7 bar) | 20 psi (1.4 bar) | 30 psi (2.1 bar) | 40 psi (2.8 bar) | 50 psi (3.5 bar) |
| 2100-573 | 2.15 (8.1) | 1.90 (7.2) | 1.70 (6.4) | 1.64 (6.2) | 1.50 (5.7) | 1.39 (5.2) |

For complete flow data, request head-flow curve A-1 for 115 Volt pumps and A-2 for 12 Volt pumps.

DIMENSIONS Inches (mm)



FLOJET

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P/N F100-065 Rev. 2/96