

# 03 Diaphragm Pumps

MOTOR DRIVEN



## Duplex II Series



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

### FEATURES

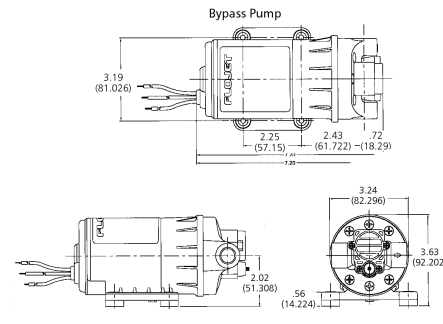
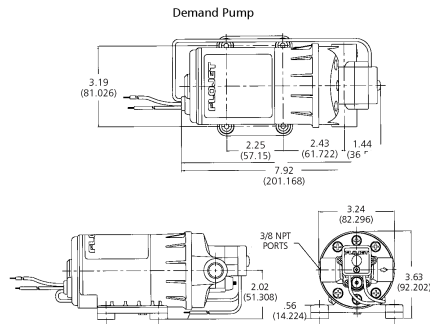
- Self-priming up to 8' (2.4m)
- Can run dry without damage
- Chemically resistant materials
- Internal bypass standard
- Built-in back-flow preventer
- Heavy duty ball bearing drive system
- UL, CSA and CE models available

### SPECIFICATIONS

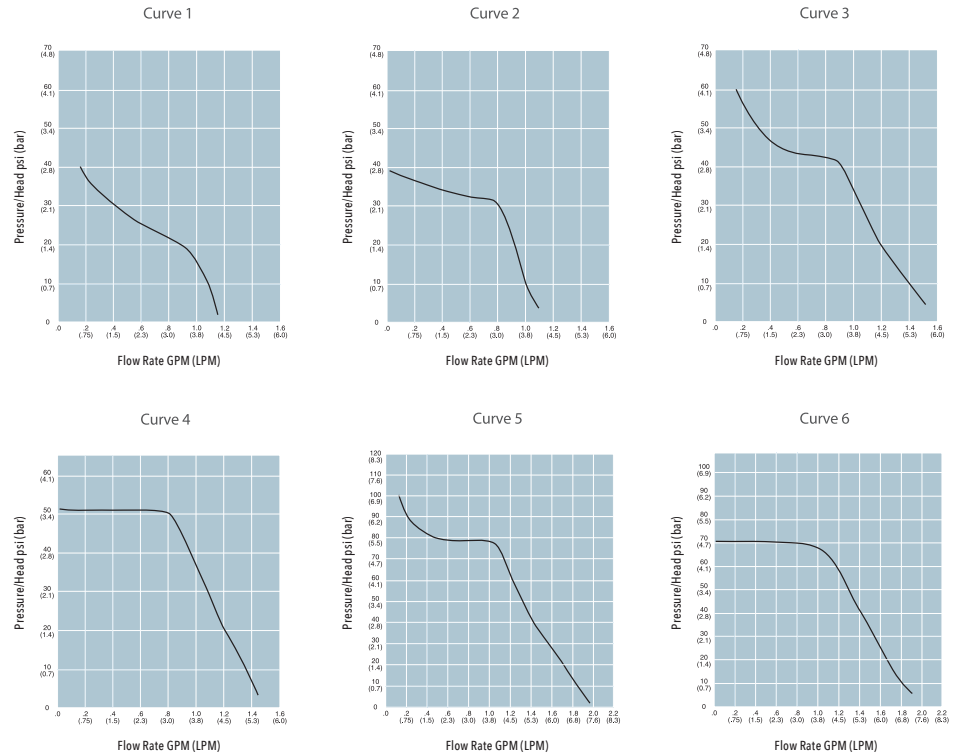
<b>PUMP DESIGN</b>	Positive displacement two-piston design
<b>VOLTAGE</b>	12V DC, 24V DC, 115V AC, 230V AC
<b>MAX FLOW RATE</b>	High Pressure – 2.2 GPM (8.3 LPM) Medium and Low Pressure – 1.6 GPM (6.1 LPM)
<b>CYCLE</b>	50/60Hz for AC models
<b>MAX PRESSURE</b>	100 psi (6.9 bar)
<b>PRESSURE SWITCH SETTING</b>	15 psi (1.3 bar), 30 psi (2.1 bar), 45 psi (3.1 bar), 60 psi (4.1 bar), 80 psi (5.5 bar) and 100 psi (6.8 bar)
<b>SELF-PRIMING</b>	Up to 8' (2.4m)
<b>PORTS</b>	3/8" (10mm) NPT female
<b>MOTOR</b>	Permanent magnet with solid state rectifier
<b>WETTED PARTS</b>	Polypropylene, FKM, buna or EPDM
<b>WEIGHT</b>	4-5lb (1.8-2.3kg)

### DIMENSIONAL DRAWINGS

Unless otherwise stated, dimensions are in inches and (mm).



### PERFORMANCE



See following pages for model specification charts.

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**FLOJET®**

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MODEL #	CE	VOLTAGE	OPEN FLOW	SWITCH	BYPASS	MAX AMP DRAW	DIAPHRAGM	CHECK VALVE	CURVE #	NOTES
D3631B1311	N/A	115V AC	1.6 GPM (6.1 LPM)	No	50 psi (3.4 bar)	0.6A	Buna	Buna	4	
D3631B5011	N/A	115V AC	1.6 GPM (6.1 LPM)	60 psi (4.1 bar)	40 psi (2.8 bar)	0.6A	Buna	Buna	3	
D3631V1311	N/A	115V AC	1.6 GPM (6.1 LPM)	No	50 psi (3.4 bar)	0.6A	FKM	FKM	4	
D3631V5011	N/A	115V AC	1.6 GPM (6.1 LPM)	60 psi (4.1 bar)	40 psi (2.8 bar)	0.6A	FKM	FKM	3	
D3635B7011	N/A	115V AC	2 GPM (7.6 LPM)	100 psi (6.9 bar)	80 psi (5.5 bar)	0.8A	Buna	Buna	5	
D3835B5011	N/A	115V AC	2 GPM (7.6 LPM)	60 psi (4.1 bar)	40 psi (2.8 bar)	0.6A	Buna	Buna	3	6' cord
D3835H5011	N/A	115V AC	2 GPM (7.6 LPM)	60 psi (4.1 bar)	40 psi (2.8 bar)	0.6A	EP/PP blend	EPDM	3	6' cord
D3835V5011	N/A	115V AC	2 GPM (7.6 LPM)	60 psi (4.1 bar)	40 psi (2.8 bar)	0.6A	FKM	FKM	3	6' cord
D21X003	N/A	12V DC	1.6 GPM (6.1 LPM)	No	No	9A	EP/PP blend	FKM	6	Inline fuse and rocker switch
D21X005	N/A	12V DC	2 GPM (7.6 LPM)	60 psi (4.1 bar)	40 psi (2.8 bar)	7A	EP/PP blend	FKM	3	Inline fuse and rocker switch
D3131B1311	D3131B1311R	12V DC	1.6 GPM (6.1 LPM)	No	50 psi (3.4 bar)	7A	Buna	Buna	4	
D3131B5011	D3131B5011R	12V DC	1.6 GPM (6.1 LPM)	60 psi (4.1 bar)	40 psi (2.8 bar)	7A	Buna	Buna	3	
D3131H1311	D3131H1311R	12V DC	1.6 GPM (6.1 LPM)	No	50 psi (3.4 bar)	7A	EP/PP blend	EPDM	4	
D3131H5011	D3131H5011R	12V DC	1.6 GPM (6.1 LPM)	60 psi (4.1 bar)	40 psi (2.8 bar)	7A	EP/PP blend	EPDM	3	
D3131V1311	D3131V1311R	12V DC	1.6 GPM (6.1 LPM)	No	50 psi (3.4 bar)	7A	FKM	FKM	4	
D3131V5011	D3131V5011R	12V DC	1.6 GPM (6.1 LPM)	60 psi (4.1 bar)	40 psi (2.8 bar)	7A	FKM	FKM	3	
D3135B7011	D3135B7011R	12V DC	2 GPM (7.6 LPM)	100 psi (6.9 bar)	80 psi (5.5 bar)	9A	Buna	Buna	5	
D3135H7011	D3135H7011R	12V DC	2 GPM (7.6 LPM)	100 psi (6.9 bar)	80 psi (5.5 bar)	9A	EP/PP blend	EPDM	5	
D3121V1211	D3121V1211R	12V DC	1.1 GPM (4.3 LPM)	No	30 psi (2.1 bar)	3A	FKM	FKM	1	
D3121V3011	D3121V3011R	12V DC	1.1 GPM (4.3 LPM)	30 psi (2.1 bar)	No	3A	FKM	FKM	2	
D3135B1411	D3135B1411R	12V DC	2 GPM (7.6 LPM)	No	70 psi (4.8 bar)	7A	Buna	Buna	6	
D71X000	N/A	12V DC	2 GPM (7.6 LPM)	No	50 psi (3.4 bar)	8A	Buna	Buna	6	Heavy duty motor
D71X001	N/A	12V DC	2 GPM (7.6 LPM)	No	50 psi (3.4 bar)	8A	Buna	Buna	6	Heavy duty motor and discharge left
D2131F5011	N/A	12V DC	1.6 GPM (6.1 LPM)	60 psi (4.1 bar)	40 psi (2.8 bar)	0.6A	EP/PP blend	FKM	3	
D2131F5011	N/A	12V DC	1.6 GPM (6.1 LPM)	60 psi (4.1 bar)	40 psi (2.8 bar)	0.6A	EP/PP blend	FKM	3	Heavy duty motor
D27X007	N/A	12V DC	1.6 GPM (6.1 LPM)	No	50 psi (3.4 bar)	10A	Buna	FKM	4	Inline fuse and rocker switch
D3732B1311	D3732B1311RL	230V AC	1.6 GPM (6.1 LPM)	No	50 psi (3.4 bar)	0.4A	Buna	Buna	4	
D3732B5011	D3732B5011RL	230V AC	1.6 GPM (6.1 LPM)	60 psi (4.1 bar)	40 psi (2.8 bar)	0.6A	Buna	Buna	3	
D3732H1311	D3732H1311RL	230V AC	1.6 GPM (6.1 LPM)	No	50 psi (3.4 bar)	0.4A	EP/PP blend	EPDM	4	

MODEL #	CE	VOLTAGE	OPEN FLOW	SWITCH	BYPASS	MAX AMP DRAW	DIAPHRAGM	CHECK VALVE	CURVE #	NOTES
D3732H5011	D3732H5011RL	230V AC	1.6 GPM (6.1 LPM)	60 psi (4.1 bar)	40 psi (2.8 bar)	0.6A	EP/PP blend	EPDM	3	
D3732V1311	D3732V1311RL	230V AC	1.6 GPM (6.1 LPM)	No	50 psi (3.4 bar)	0.4A	FKM	FKM	4	
D3732V5011	D3732V5011RL	230V AC	1.6 GPM (6.1 LPM)	60 psi (4.1 bar)	40 psi (2.8 bar)	0.6A	FKM	FKM	3	
D3735B7011	D3735B7011RL	230V AC	2 GPM (7.6 LPM)	100 psi (6.9 bar)	80 psi (5.5 bar)	0.5A	Buna	Buna	5	
D3735H7011	D3735H7011RL	230V AC	2 GPM (7.6 LPM)	100 psi (6.9 bar)	80 psi (5.5 bar)	0.5A	EP/PP blend	EPDM	5	
D3231B1311	D3231B1311R	24V DC	1.6 GPM (6.1 LPM)	No	50 psi (3.4 bar)	3.5A	Buna	Buna	4	
D3231B5011	D3231B5011R	24V DC	1.6 GPM (6.1 LPM)	60 psi (4.1 bar)	40 psi (2.8 bar)	3.5A	Buna	Buna	3	
D3231H1311	D3231H1311R	24V DC	1.6 GPM (6.1 LPM)	No	50 psi (3.4 bar)	3.5A	EP/PP blend	EPDM	4	
D3231H5011	D3231H5011R	24V DC	1.6 GPM (6.1 LPM)	60 psi (4.1 bar)	40 psi (2.8 bar)	3.5A	EP/PP blend	EPDM	3	
D3231V1311	D3231V1311R	24V DC	1.6 GPM (6.1 LPM)	No	50 psi (3.4 bar)	3.5A	FKM	FKM	4	
D3231V5011	D3231V5011R	24V DC	1.6 GPM (6.1 LPM)	60 psi (4.1 bar)	40 psi (2.8 bar)	3.5A	FKM	FKM	3	
D3235B7011	D3235B7011R	24V DC	2 GPM (7.6 LPM)	100 psi (6.9 bar)	80 psi (5.5 bar)	4.5A	Buna	Buna	5	
D3235H7011	D3235H7011R	24V DC	2 GPM (7.6 LPM)	100 psi (6.9 bar)	80 psi (5.5 bar)	4.5A	EP/PP blend	EPDM	5	
D3221V1211	D3221V1211R	24V DC	1.1 GPM (4.3 LPM)	No	30 psi (2.1 bar)	1.5A	FKM	FKM	1	
D3221V3011	D3221V3011R	24V DC	1.1 GPM (4.3 LPM)	30 psi (2.1 bar)	No	1.5A	FKM	FKM	2	
D1335E7011	N/A	36V DC	2 GPM (7.6 LPM)	100 psi (6.9 bar)	80 psi (5.5 bar)	0.5A	EPDM	EPDM	5	