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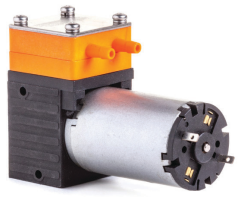
Diaphragm Liquid Pumps

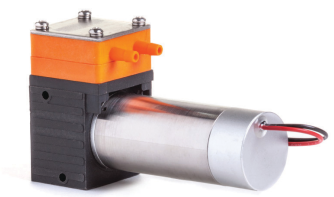
LP-3 Mini Diaphragm Liquid Pumps are a series of motor driven pumps for liquids. The unique design uses advanced technologies allowing these small liquid pumps to operate longer & harder than most other pumps. These mini liquid pumps work on the simple principal of the oscillating displacement pump. These liquid pumps can be mounted in any orientation. A wide range of DC motors, voltages & materials are available for specific needs. With proprietary brushless DC motors, pump life of 10,000 hours or higher is possible for certain models. These small diaphragm liquid pumps are most suitable for Analytical, Medical, Ink jet printers & Laboratory products. Dual head pumps can be used in different modes including in Series or in Parallel or as two independent pumps.

FEATURES

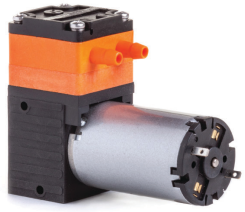
- Long Life
- Small & Compact
- Self Priming
- Dry Running
- Chemical Resistance
- Maintenance-Free



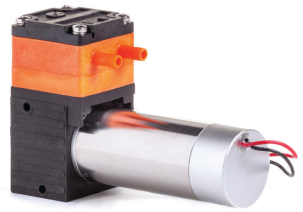
LP-3A



LP-3A-BL (brushless)



LP-3B

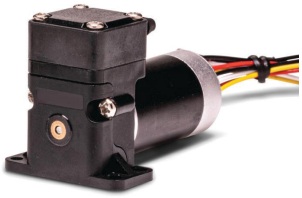


LP-3B-BL (brushless)

LP-3C

LP-3D

LP-3E



LP-3E-BL (brushless)

LP-3 Small Diaphragm Liquid Pumps

Model	Flow (mL/min)	Pressure (PSI)	Voltage (DC)	Power (mA)	Weight (g)	Dimensions (mm)
LP-3A	400	25.0	12/24	450/300	210	75x55x32
LP-3A-BL	400	25.0	12/24	450/300	210	75x55x32
LP-3B	700	30.0	12/24	500/300	210	75x65x32
LP-3B-BL	700	30.0	12/24	500/300	210	75x65x32
LP-3C	1,400	30.0	12/24	1,000/500	340	100x90x32
LP-3D	320	7.0	12/24	250/150	40	50×25 Ø
LP-3E	160	40.0	12/24	500	80	58x36x35
LP-3E-BL	160	40.0	12/24	500	80	58x36x35

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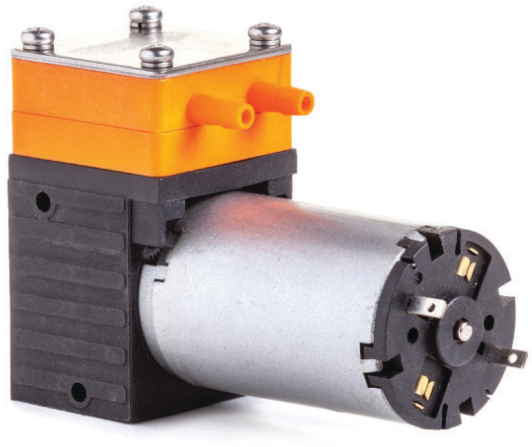
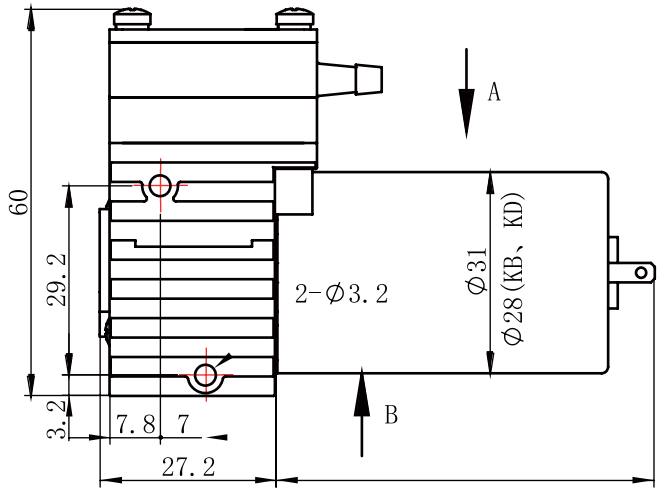
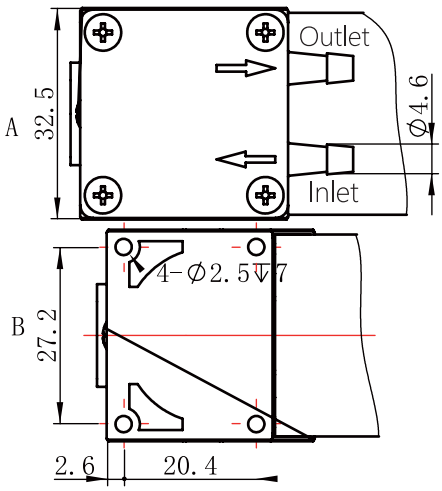
LP-3A Liquid Pump

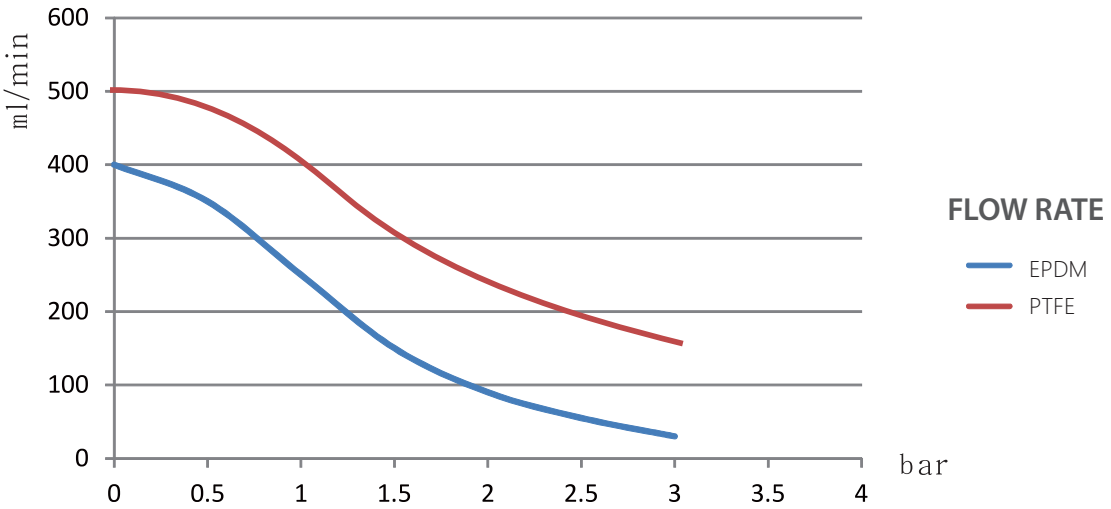


TECHNICAL DATA

- Flow (mL/min): 400
- Pressure (PSI): 25.0
- Voltage (DC): 12/24
- Power (mA): 450/300
- Weight (g): 210
- Dimensions (mm): 75x55x32







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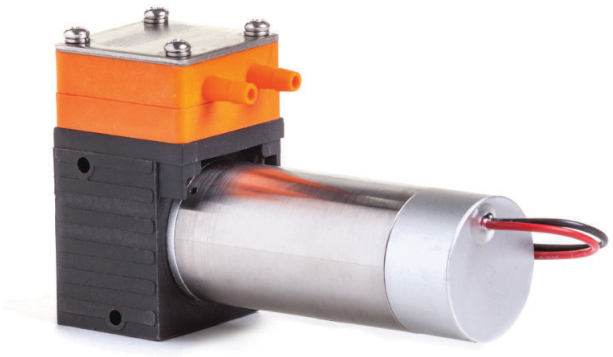
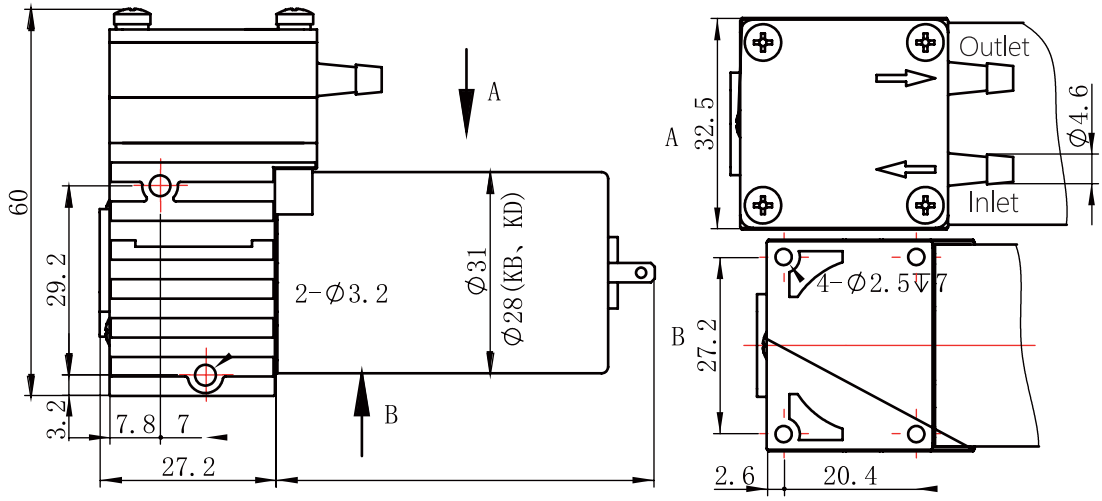
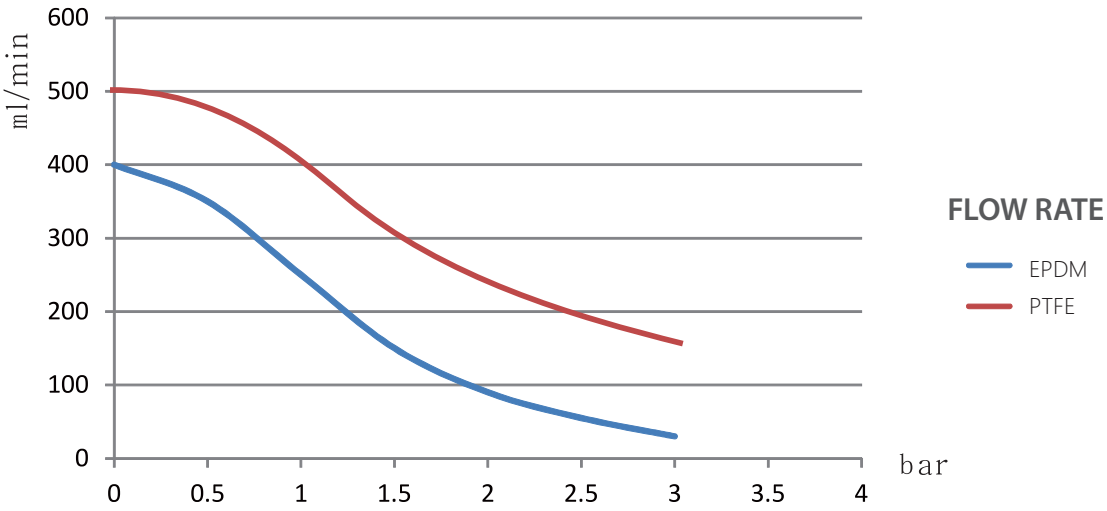
LP-3A-BL Liquid Pump (brushless)



TECHNICAL DATA

- Flow (mL/min): 400
- Pressure (PSI): 25.0
- Voltage (DC): 12/24
- Power (mA): 450/300
- Weight (g): 210
- Dimensions (mm): 75x55x32





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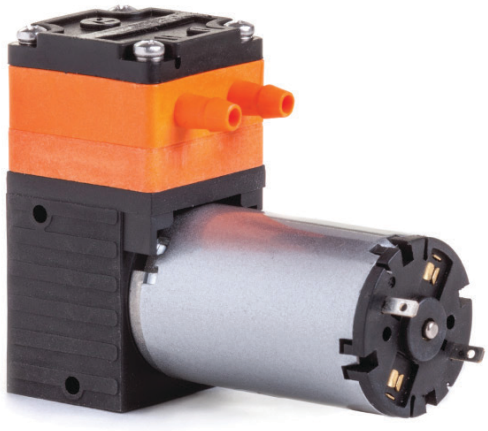
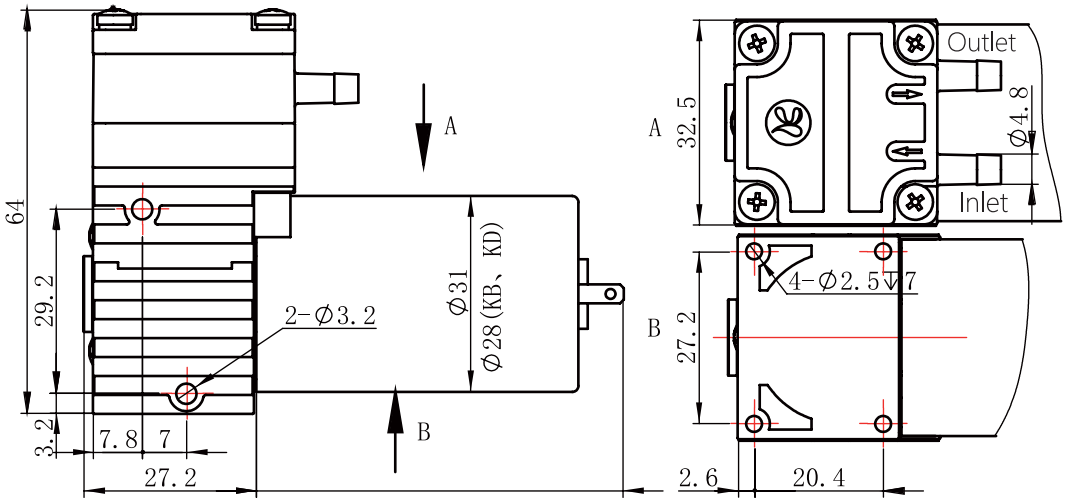
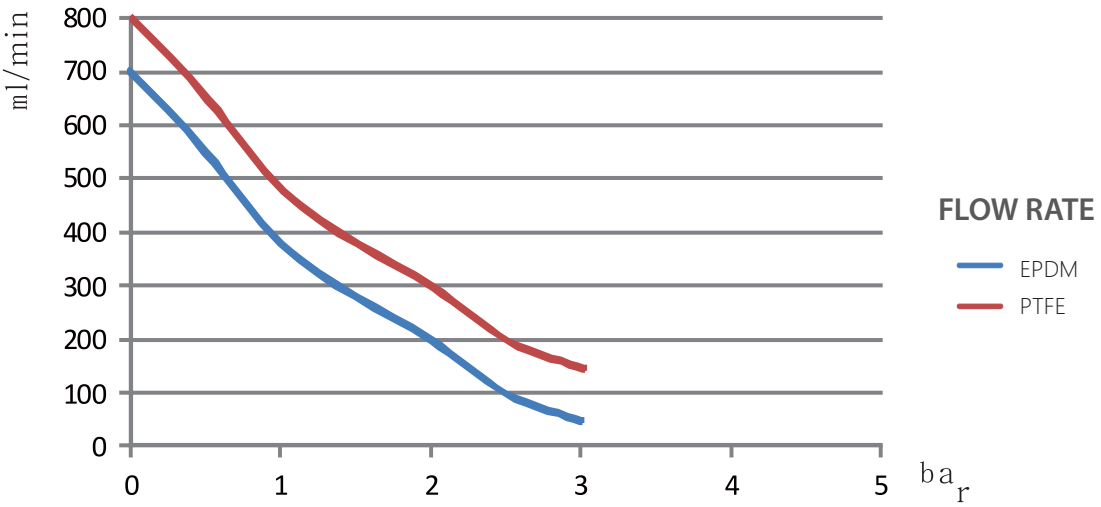
LP-3B Liquid Pump



TECHNICAL DATA

- Flow (mL/min): 700
- Pressure (PSI): 30.0
- Voltage (DC): 12/24
- Power (mA): 500/300
- Weight (g): 210
- Dimensions (mm): 75x65x32





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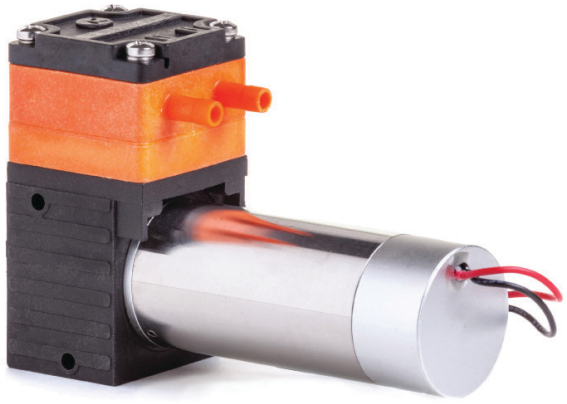
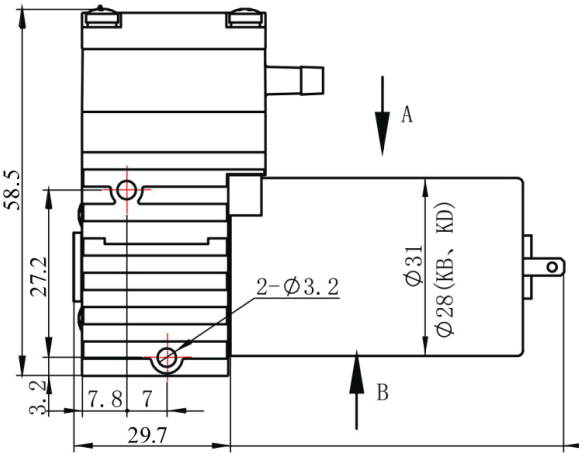
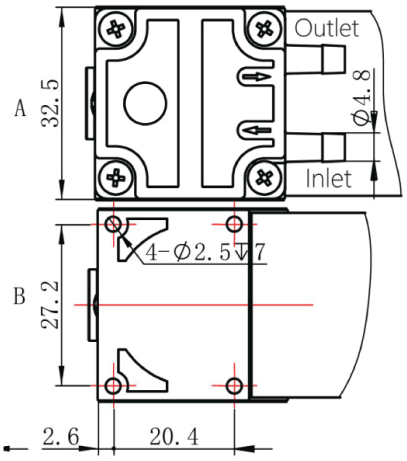
LP-3B-BL Liquid Pump (brushless)

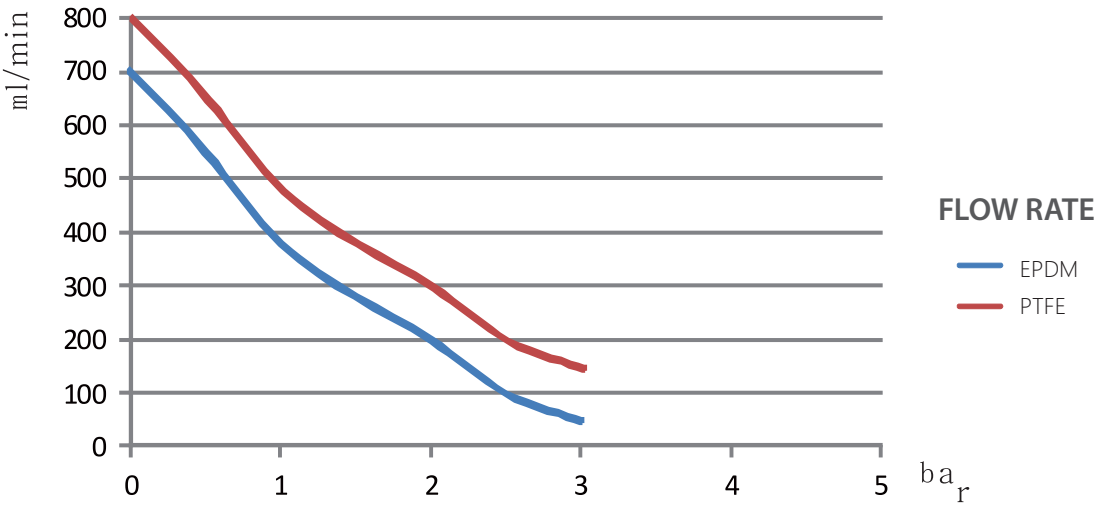


TECHNICAL DATA

- Flow (mL/min): 700
- Pressure (PSI): 30.0
- Voltage (DC): 12/24
- Power (mA): 500/300
- Weight (g): 210
- Dimensions (mm): 75x65x32







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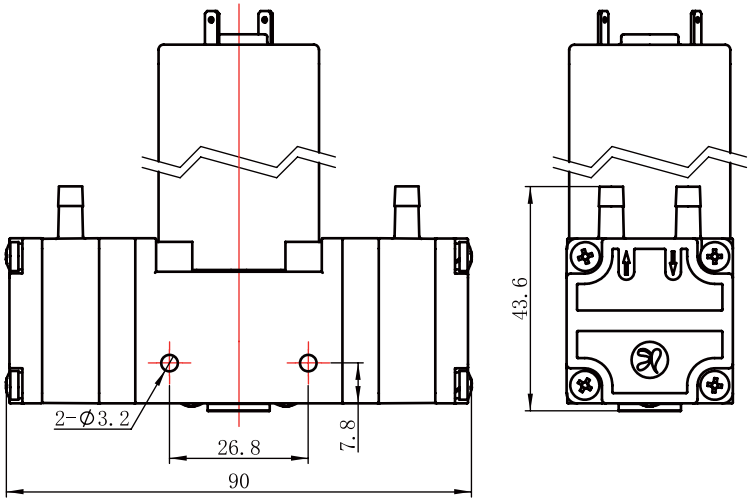
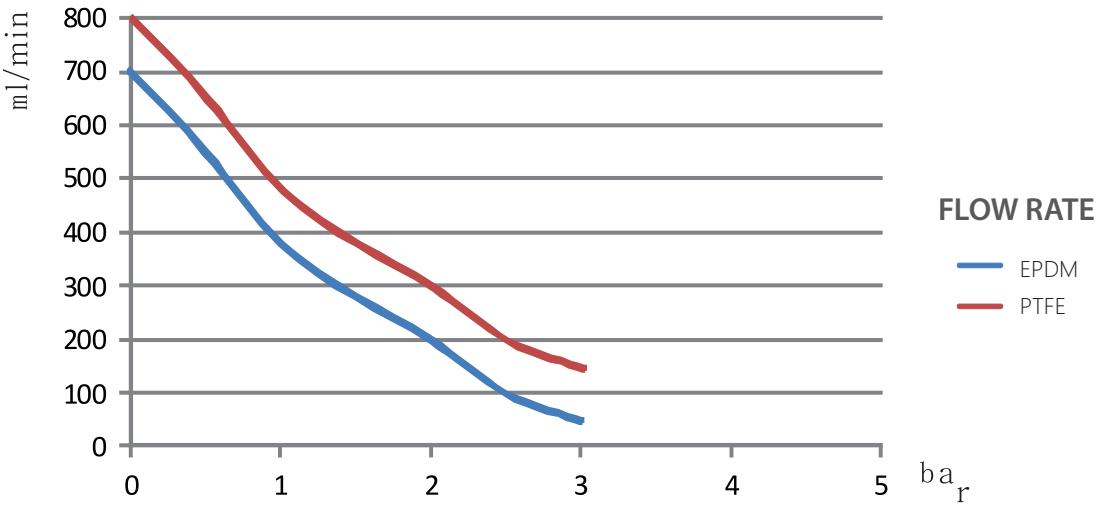
LP-3C Liquid Pump

TECHNICAL DATA

- Flow (mL/min): 1,400
- Pressure (PSI): 30.0
- Voltage (DC): 12/24
- Power (mA): 1,000/500
- Weight (g): 340
- Dimensions (mm): 100x90x32





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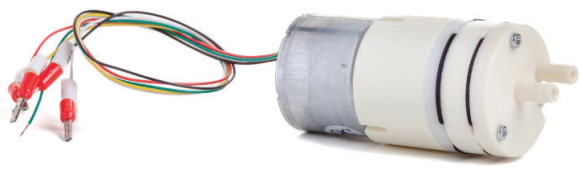
LP-3D Liquid Pump

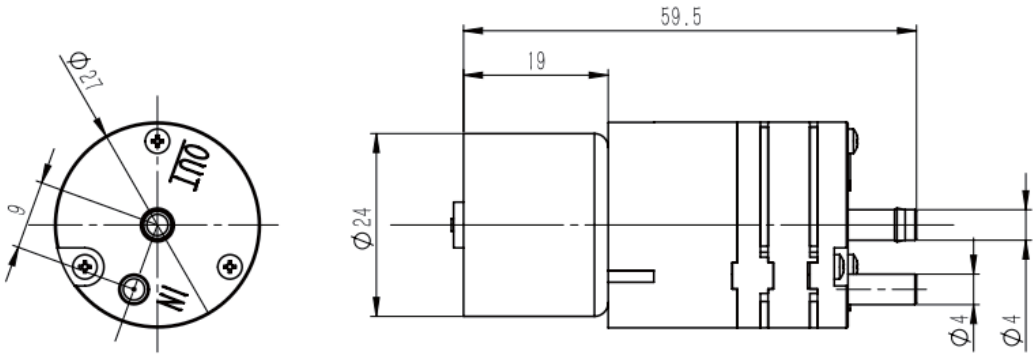


TECHNICAL DATA

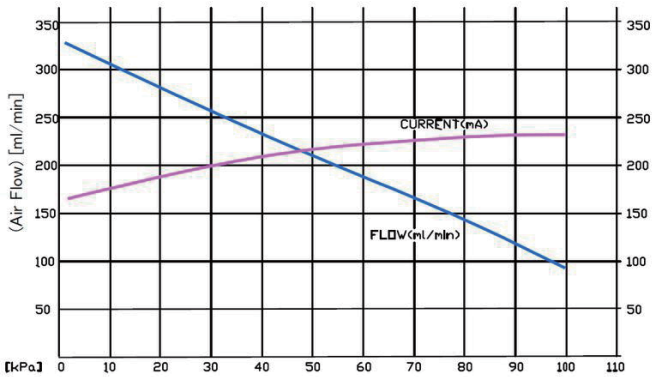
- Flow (mL/min): 320
- Pressure (PSI): 7.0
- Voltage (DC): 12/24
- Power (mA): 250/150
- Weight (g): 40
- Dimensions (mm): 50×25 Ø

WIRING INSTRUCTIONS FOR BRUSHLESS MOTOR:

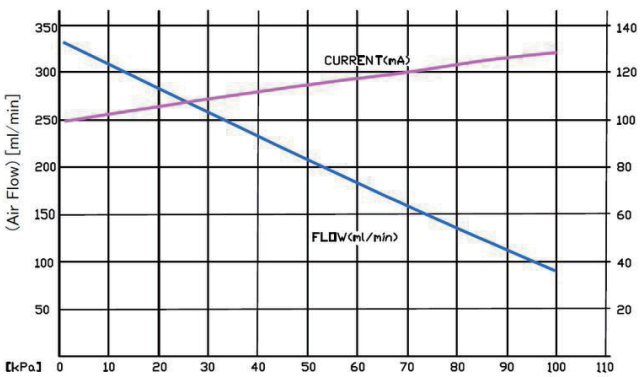
RED: +ve
BLACK: -ve
WHITE: PWM (Pulse Width Modulation) 5-20 kHz, 0-5 V
* Black and White wires may be joined together if PWM function is not needed.



FLOW RATE: 12 VDC



FLOW RATE: 24 VDC



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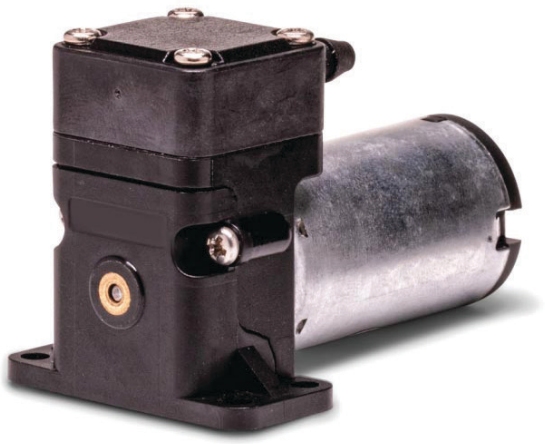
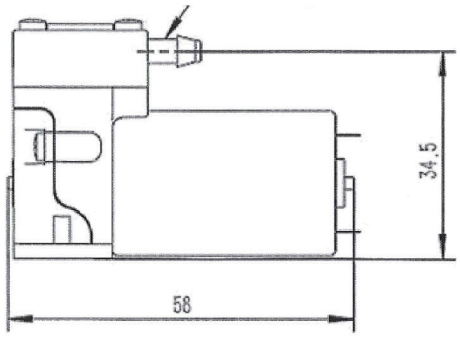
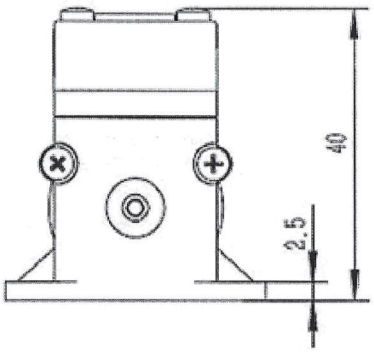
LP-3E Liquid Pump

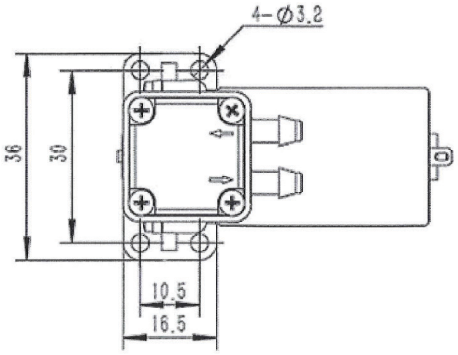


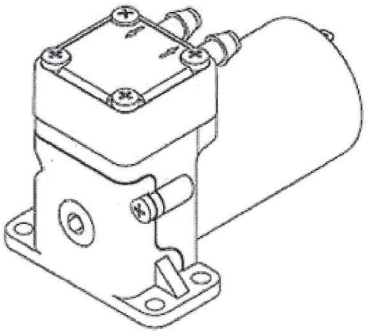
TECHNICAL DATA

- Flow Rate up to 160 mL/min
- Pressure (PSI): 40.0
- Voltage (DC): 12/24
- Weight (g): 80
- Dimensions (mm): 58x36x35
- Standard DC motor or Brushless DC motor with PWM for longer life.









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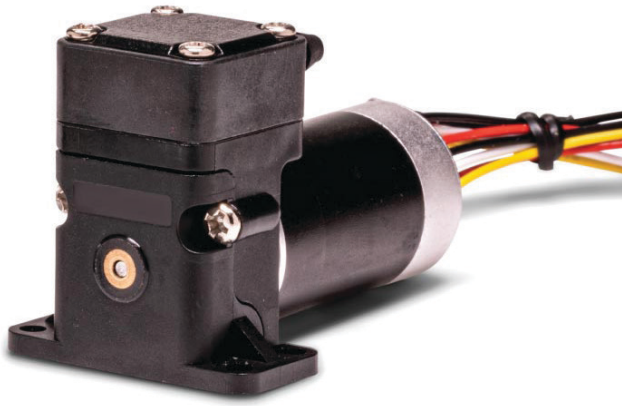
LP-3E-BL Liquid Pump



TECHNICAL DATA

- Flow Rate up to 160 mL/min
- Pressure (PSI): 40.0
- Voltage (DC): 12/24
- Weight (g): 80
- Dimensions (mm): 58x36x35
- Standard DC motor or Brushless DC motor with PWM for longer life.

WIRING INSTRUCTIONS FOR BRUSHLESS MOTOR:

Red: +ve
Black: -ve
White: PWM (0-5V), 10kHz-30kHz
Yellow: Speed feedback. 1 pulse/turn
Red and White wires may be joined together if PWM function is not needed.