

DPL60 Diaphragm Pump

Specification sheet



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1 Appearance and Dimensions

1.1 DPL60-24(12)DB

Unit: mm

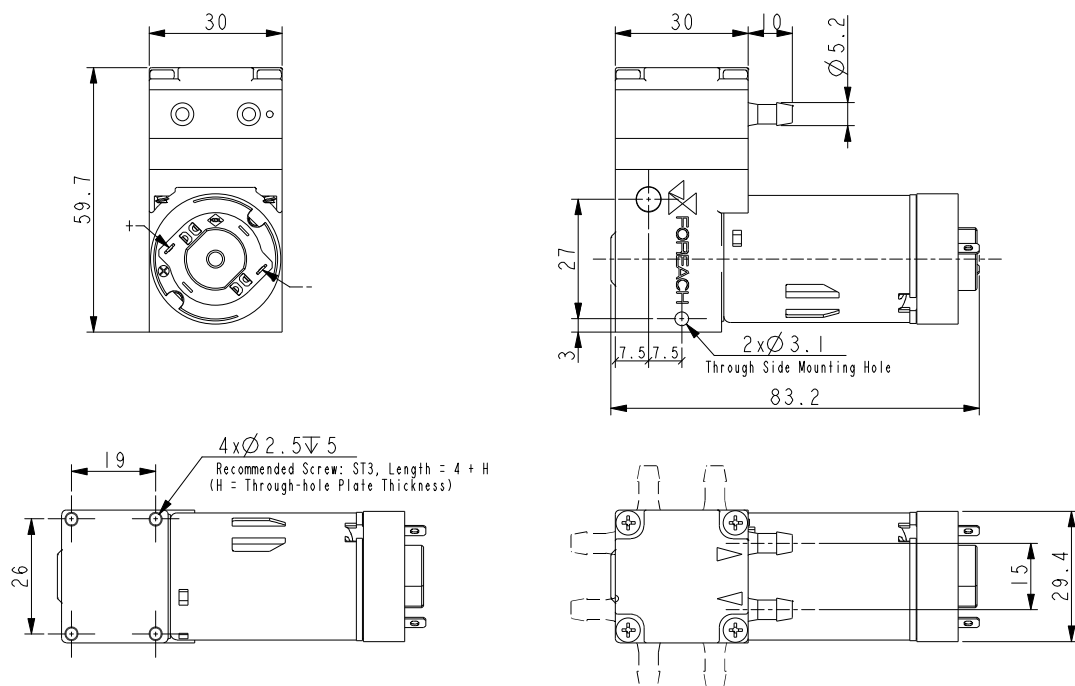


Figure 1 DPL60-24(12)DB Outline Dimensions

Table 1 Electrical Specifications

Electrical Specifications	
Label	Function Description
+	Positive Terminal
None	Negative Terminal

Note:

The information in this specification is based on nominal unit technical data and test results. It is considered accurate and reliable, and is provided as an aid in selecting Foreach products. Customers are responsible for determining product suitability for their intended applications and for conducting necessary tests prior to use.

1.2 DPL60-24(12)BB

Unit: mm

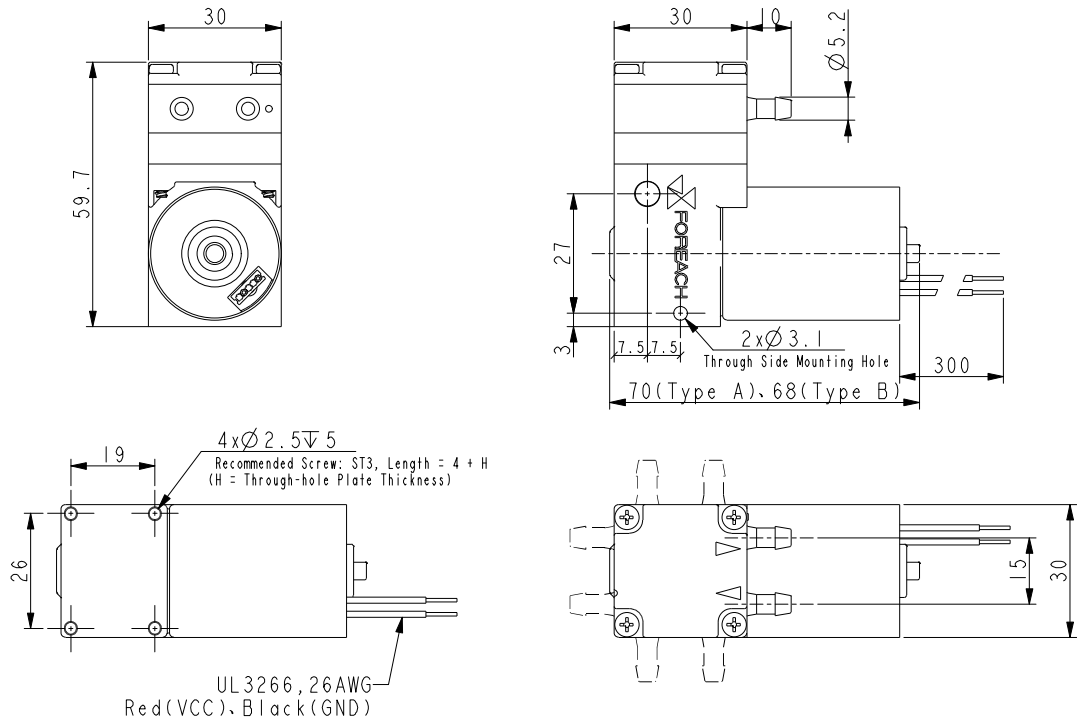


Figure 2 DPL60-24(12)BB Outline Dimensions

Note:

This product is compatible with two equivalent motor variants (A/B). The two variants feature identical electrical parameters and output performance, with differences only in their mechanical dimensions and mounting configurations.

Table 2 Electrical Specifications

Wire Functions		
Wiring	Color	Function Description
VCC	Red	Positive Power Supply
GND	Black	Ground Wire
Other Wire Functions (Optional)		
PWM	Blue	Speed Control Signal
DIR	Yellow	Direction Control Signal
FG	Green	Speed Feedback Signal

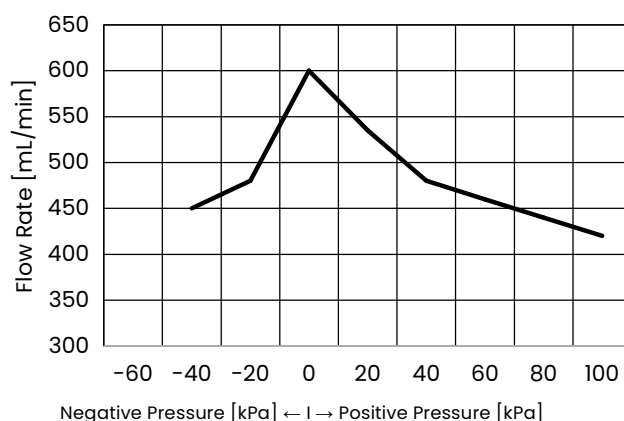
Note:

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2 Specifications

Table 3 Technical Specifications

Technical Specifications				
Model	DPL60-24DB	DPL60-12DB	DPL60-24BB	DPL60-12BB
Motor Type	Brushed DC	Brushed DC	Brushless DC	Brushless DC
Rated Voltage	DC 24V ±10%	DC 12V ±10%	DC 24V ±10%	DC 12V ±10%
Rated Power	≤8.4W			
No-load Flow Rate	600mL/min			
Rated Pressure	100kPa			
Self-priming Height	3 mH ₂ O			
Application Parameters				
Working Medium	Purified Water (Other liquid medium needs to be evaluated by the customer.)			
Medium Temperature Range	+5℃ ~ +80℃			
Weight	170g		195g	
Tubing Connection	Ø3.2mm ID Hose			
Lifespan	3000h(Rated Voltage, Continuous Operation)		10000h(Rated Voltage, Continuous Operation)	
Noise	≤80dB			
Operating Temperature	+5℃ ~ +40℃			
Operating Humidity	30%-85% RH (non-condensing)			
Storage Temperature	-10℃ ~ +40℃			
Storage Humidity	10%-90% RH (non-condensing)			
Material Options				
Pump Head	PPS			
Diaphragm	EPDM/PTFE			
Valves	EPDM/FFKM			
Flow Rate - Pressure Curve				



3 Ordering Information

Table 4 Order List

Product Model Information List							
No.	Product Code	Product model	Motor Type	Rated Voltage	Diaphragm	Valve	pump head
1	459003	DPL60-24DB-EP/PS	Brushed DC	24V	EPDM	EPDM	PPS
2	459004	DPL60-24BB-EP/PS	Brushless DC	24V	EPDM	EPDM	PPS
3	459015	DPL60-12DB-EP/PS	Brushed DC	12V	EPDM	EPDM	PPS
4	459016	DPL60-12BB-EP/PS	Brushless DC	12V	EPDM	EPDM	PPS
5	459030	DPL60-24DB-FF/PS	Brushed DC	24V	PTFE	FFKM	PPS
6	459031	DPL60-24BB-FF/PS	Brushless DC	24V	PTFE	FFKM	PPS
7	459032	DPL60-12DB-FF/PS	Brushed DC	12V	PTFE	FFKM	PPS
8	459033	DPL60-12BB-FF/PS	Brushless DC	12V	PTFE	FFKM	PPS

DPL60-	24	D	2	B	C	-EP/PS	-X
Product Series	Operating Voltage	Motor Type	Cable Outlet Type	Connection Type	Connection port direction	Diaphragm/ Housing material	Special Customization
	24: DC 24V	D: Brushed DC	3: 3-wire cable	B: Barbed	3 - Right	EP/PS: EPDM/PPS	X: Custom
	12: DC 12V	B: Brushless DC	5: 5-wire cable	Port	6 - Down	FF/PS: PTFE+FFKM/PPS	Code
		C: Coreless Motor	2: 2-wire cable	S: Threaded	9 - Down		
		BP: Brushless DC Motor (External PWM Control)	(Default ignored)	Port	C - Up (Default ignored)		

For example:

DPL60-24DB-EP/PS: Flow rate: 600 mL/min; Rated voltage: 24V DC; Motor type: Brushed DC motor; Cable outlet: Straight tube connector; Connector orientation: Right side; Diaphragm material: EPDM; Pump head material: PPS.

4 Appendices

4.1 Appendix : Tables and Figures

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Figure 1 DPL60-24(12)DB Outline Dimensions..... 3

Figure 2 DPL60-24(12)BB Outline Dimensions..... 4

Flowchart area with 24 horizontal dotted lines for drawing.