DPL30H High-Pressure Diaphragm Pump

Specification sheet

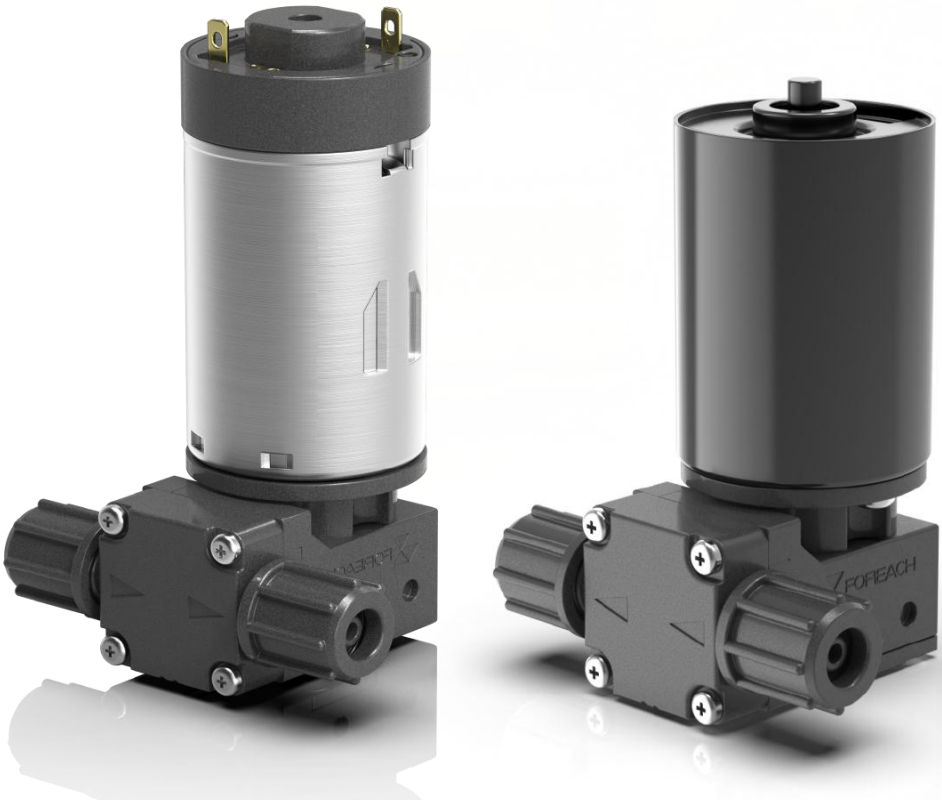


Table of Contents

1 Appearance and Dimensions 3

1.1 DPL30H-24(12)DS 3

1.2 DPL30H-24(12)BS 4

2 Specifications 5

3 Ordering Information 6

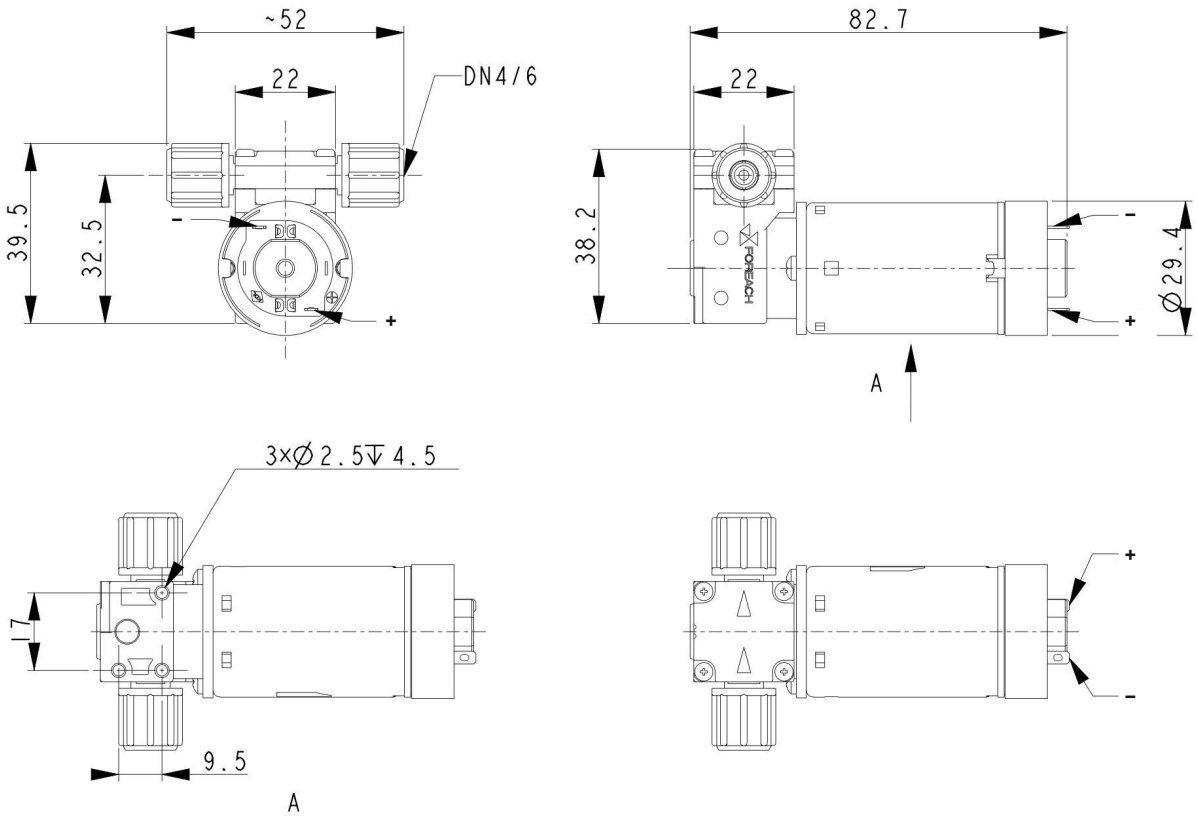
4 Appendices 7

4.1 Appendix: Tables and Figures 7

1 Appearance and Dimensions

1.1 DPL30H-24(12)DS

Unit: mm



Note: "~52" indicates an approximate length of 52 mm. DN4/6 indicates compatibility with tubing of 4 mm and 6 mm nominal diameter.

Figure 1 DPL30H-24(12)DS Outline Dimensions

Table 1 Brushed Motor Electrical Specifications

Electrical Specifications	
Label	**Function Description**
+	Positive terminal
Unmarked	Negative terminal

Note:

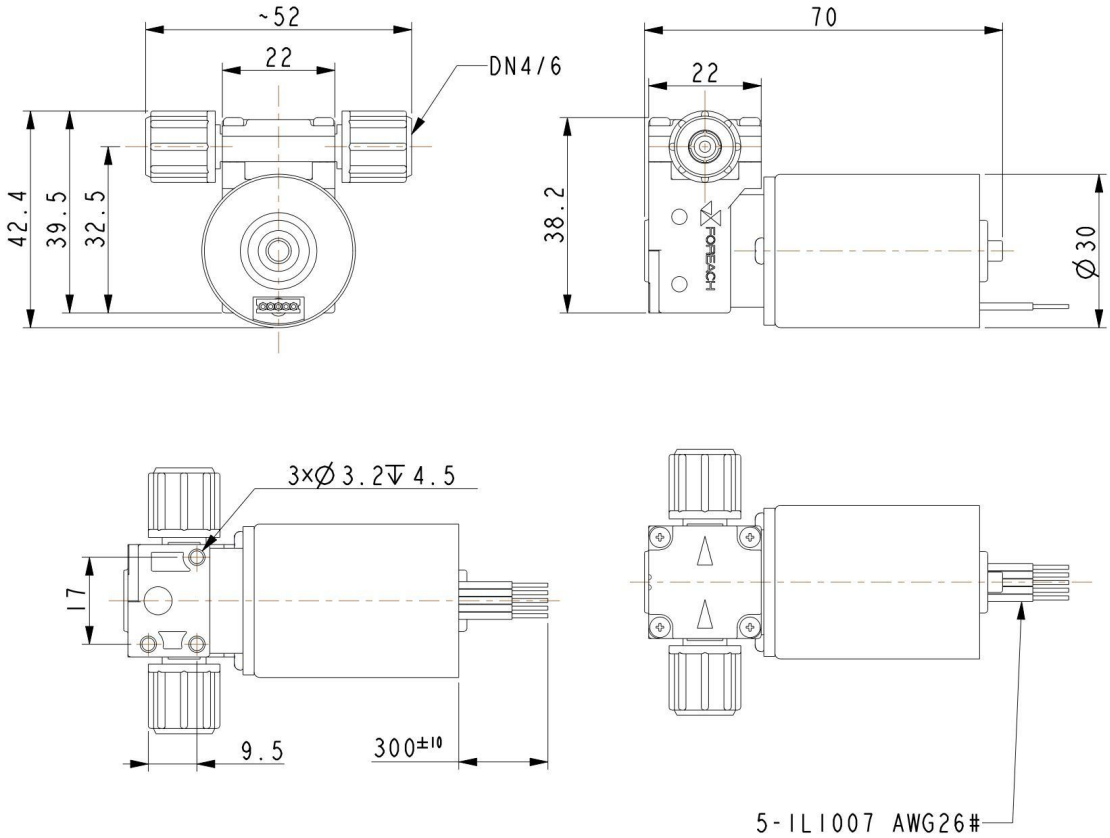
The information in this specification is based on technical data and test results from nominal units.

It is considered accurate and reliable and is provided as an aid in selecting FOREACH products.

Customers are responsible for determining suitability for the intended use and for testing before use.

1.2 DPL30H-24(12)BS

Unit: mm



Blue (PWM), Black (GND), Yellow (DIR), Green (FG), Red (VCC)

Note: "~52" indicates an approximate length of 52 mm. DN4/6 indicates compatibility with tubing of 4 mm and 6 mm nominal diameter.

Figure 2 DPL30H-24(12)BS Outline Dimensions

Table 2 Brushless Motor Electrical Specifications

Electrical Specifications		
Wiring	**Color**	**Function Description**
VCC	Red	Positive supply
GND	Black	Ground
DIR	Yellow	High or open: clockwise (CW). Low: counterclockwise (CCW).
FG	Green	Speed feedback output: three square-wave pulses per rotor revolution.
PWM	Blue	0-0.25 V: stopped. Open or 4.5-5 V: full speed. Speed can be set by PWM or 0-5 V. Speed is proportional to PWM duty cycle.

Note:

The information in this specification is based on technical data and test results from nominal units.

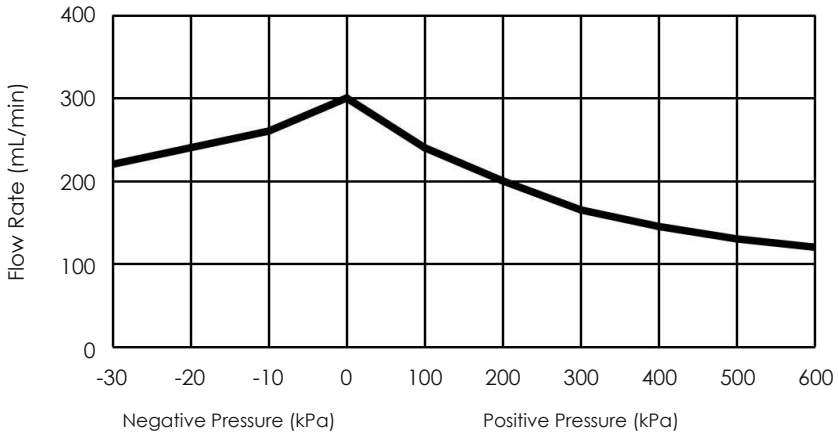
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2 Specifications

Table 3 Technical Specifications

Technical Specifications				
Model	DPL30H-24DS	DPL30H-12DS	DPL30H-24BS	DPL30H-12BS
Motor Type	Brushed DC	Brushed DC	Brushless DC	Brushless DC
Rated Voltage	24 V DC ±10%	12 V DC ±10%	24 V DC ±10%	12 V DC ±10%
Rated Power	≤7 W			
No-Load Flow Rate	300 mL/min			
Rated Pressure	600 kPa			
Self-Priming Height	3 mH_2O			
Application Parameters				
Working Medium	Purified water. Customers must evaluate other liquids for their application.			
Medium Temperature	+5 to +40 °C			
Weight	135 g		155 g	
Tubing Connection	Compression fitting for rigid tubing, 6 × 4 mm (OD × ID)			
Service Life	3,000 h (rated voltage, continuous operation)		10,000 h (rated voltage, continuous operation)	
Noise	≤80 dB			
Operating Temperature	+5 to +40 °C			
Operating Humidity	30-85% RH (non-condensing)			
Storage Temperature	-10 to +40 °C			
Storage Humidity	10-90% RH (non-condensing)			
Wetted Materials				
Pump Head	PPS			
Diaphragm	EPDM / PTFE			
Valve	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	459007	DPL30H-24DS-EP/PS	Brushed DC	24 V	EPDM	EPDM	PPS
2	459008	DPL30H-24BS-EP/PS	Brushless DC	24 V	EPDM	EPDM	PPS
3	459019	DPL30H-12DS-EP/PS	Brushed DC	12 V	EPDM	EPDM	PPS
4	459020	DPL30H-12BS-EP/PS	Brushless DC	12 V	EPDM	EPDM	PPS
5	459034	DPL30H-24DS-FF/PS	Brushed DC	24 V	PTFE	FFKM	PPS
6	459035	DPL30H-24BS-FF/PS	Brushless DC	24 V	PTFE	FFKM	PPS
7	459036	DPL30H-12DS-FF/PS	Brushed DC	12 V	PTFE	FFKM	PPS
8	459037	DPL30H-12BS-FF/PS	Brushless DC	12 V	PTFE	FFKM	PPS

DPL30H-	**24**	**D**	**S**	**C**	**-EP/PS**	**-X**
Product Series	**Operating Voltage**	**Motor Type**	**Connection Type**	**Port Direction**	**Diaphragm / Valve / Pump Head**	**Special Customization**
	24: 24 V DC	D: Brushed DC	B: Barbed port	C: Up (default, omit)	EP/PS: EPDM /	X: Custom code
	12: 12 V DC	B: Brushless DC	S: Threaded port	3: Right	EPDM / PPS	
		C: Coreless motor		6: Down	FF/PS: PTFE /	
				9: Left	FFKM / PPS	

4 Appendices

4.1 Appendix: Tables and Figures

Table 1 Brushed Motor Electrical Specifications 3

Table 2 Brushless Motor Electrical Specifications 4

Table 3 Technical Specifications 5

Table 4 Order List 6

Figure 1 DPL30H-24(12)DS Outline Dimensions 3

Figure 2 DPL30H-24(12)BS Outline Dimensions 4

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