Biological medicine

Scientific experiment

Inkjet printing

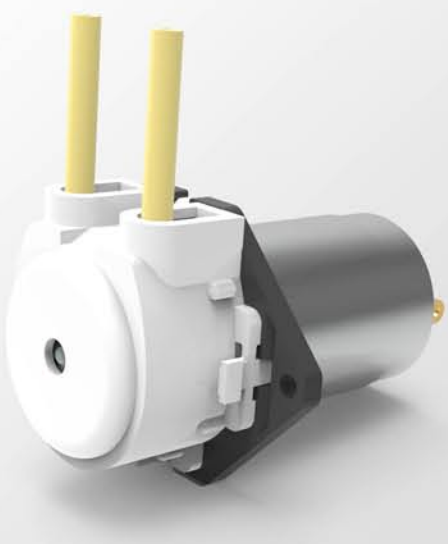
Food machinery

Hydroponics experiment

BPH Peristaltic Pump

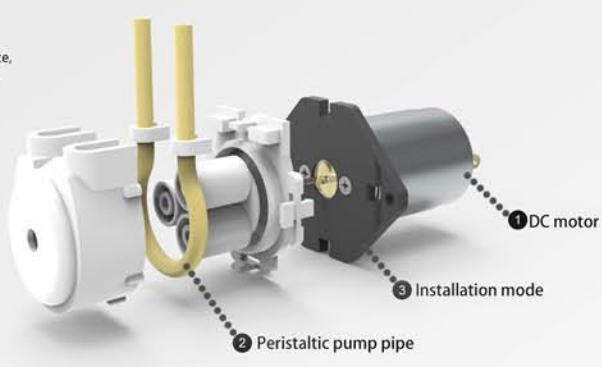
Product manual

A/0 Version



Characteristics

- Small size, compact structure, weight only 110g
- Easy disassembly and maintenance, quick replacement of pump pipes
- Unique design, low noise



B:Baines P:Peristaltic pump H:Serial number

BPH — DK ❶ B20 ❷ A ❸

❶

DK:24V DC motor DL:12V DC motor

385 DC brush motor

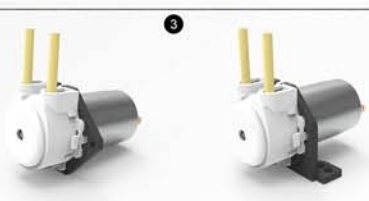
Built-in 104 ceramic capacitor, varistor

❷

Silicone tube（S）			Pharmed BPT(B)		
size: ID×OD(mm)		Pipe joint	size: ID×OD(mm)		Pipe joint
1x3	(S10)	1/16	1x3	(B10)	1/16
2x4	(S20)	3/32	2x4	(B20)	3/32
3x5	(S30)	3/32			

*For the corresponding flow rate, see page 3.
Material of pipe joint: PP (polypropylene)

❸



Installation mode A　　Installation mode B

A/B Mounting plate material: PA (nylon)

A/B Installation dimensions are detailed on page 4 and schematic drawings are detailed on page 5.

■ Introductions of pump tube

Code /Material of pump tube		brief introduction	Life of pump tube
B	PharMed®BPT	Ozone and UV radiation resistance, heat resistance, ozone resistance, Acid and alkali resistance, anti-aging and anti-oxidation, long service life. Working temperature range from -59℃ ~ 135℃	≥1000h
S	Silicone tube	Low cost, weak acid and alkali resistance, chemical resistance is worse and the service life is lower than the three pumping pipes above.	≥200h

※ The tubular test data are obtained by continuous operation of BPH 3 rotor pump head at 250 rpm/min at room temperature of 20 C pure water without pressure until the cracking in the pump pipe appears. In general, the slower the speed of pump head, the longer the service life of pump pipe. The actual service life is affected by factors such as medium, working condition, voltage and so on. The test data can be used as reference.

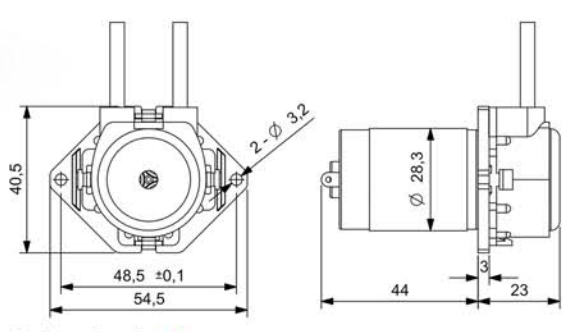
■ Flow rate

Code name		S10	S20	S30	B10	B20	B30
ID×OD(mm)		1X3	2X4	3X5	1X3	2X4	3X5
Tubing		S	S	S	BPT	BPT	BPT
Flow rate ml/min	24V DC motor (DK) 0.2A	14	56	96	12	53	83
	12V DC motor (DL) 0.4A	14	56	96	12	53	83
	6V DC motor (DN) 0.4A	14	56	96	12	53	83

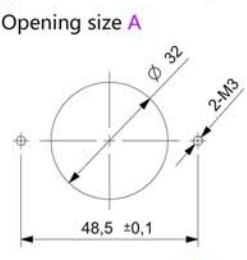
Ideal working conditions: ambient temperature 0-40 ℃ relative humidity < 80%.
The total length of the pump pipe is 135 mm. The inlet and outlet of the pump pipe are respectively exposed to 30 mm of the pump head.

※1: The above data are measured by pure water without pressure at room temperature and standard atmospheric pressure at 20 ℃. Actually, according to different medium, the outlet pressure is different. There will be some errors in the flow rate due to assembly tolerance, etc

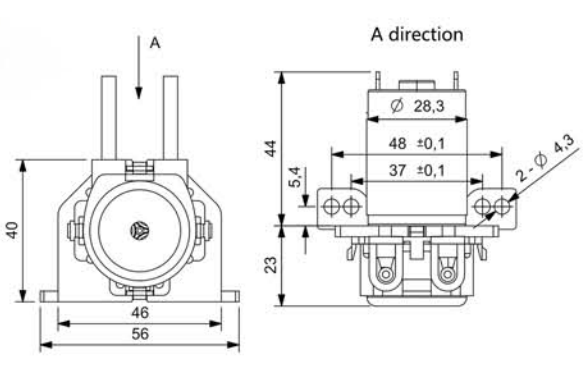
■ Installation mode A



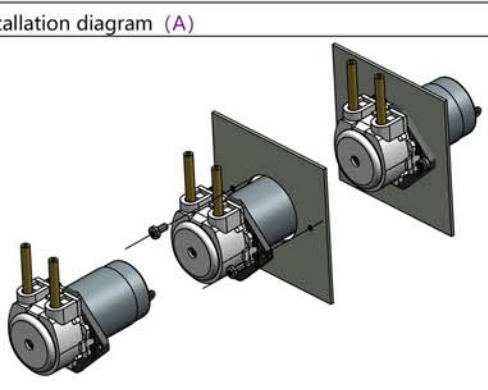
■ Opening size A



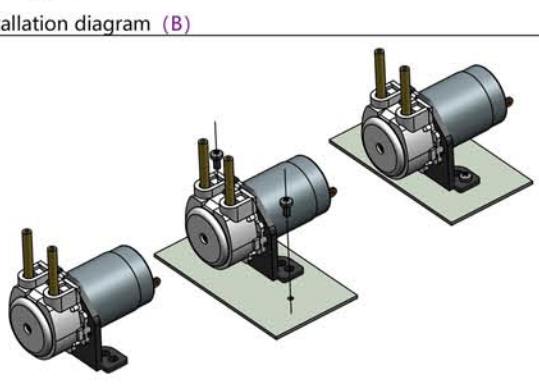
■ Installation mode B



■ Installation diagram (A)

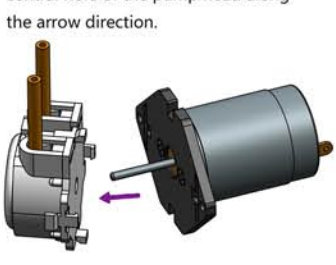


■ Installation diagram (B)



■ Assembly drawings

1.The motor shaft is inserted into the central hole of the pump head along the arrow direction.



2.Pump head is pushed in the direction of arrow and clamped on the motor board