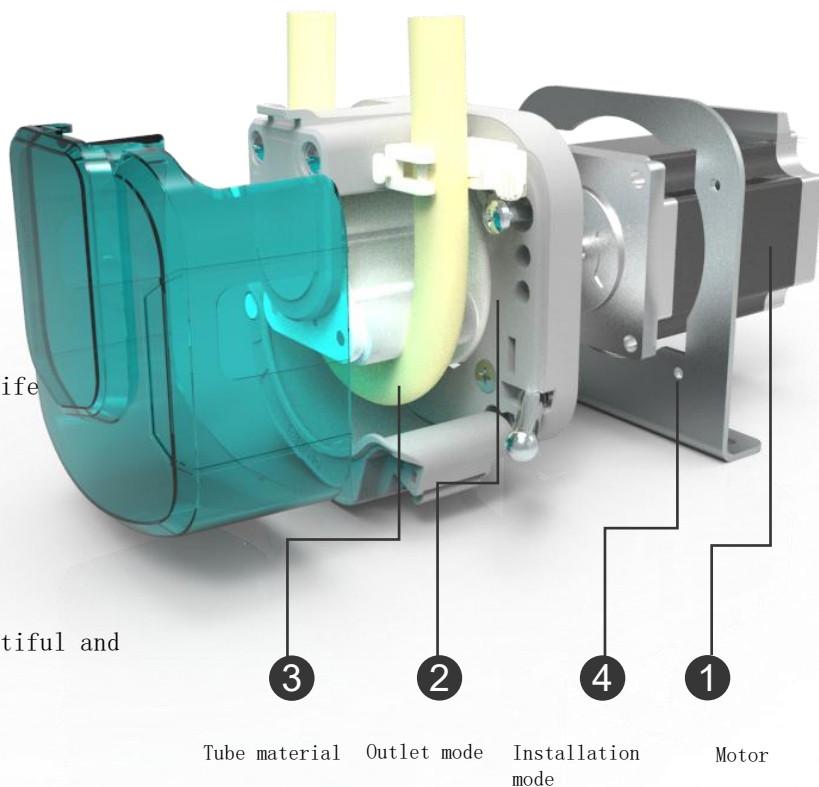


# BP2000 stepper motor peristaltic pump



## ●Structural decomposition

- Integrated spring compensation structure extends pump line life and prevents liquid backflow
- Negative pressure stabilization
- High torque stepper motor precise control long life low noise
- High performance engineering plastics have high strength and stable performance
- Transparent protective cover works visually beautiful and generous
- Pump tube direction change (U, 1, L shape)
- Imported peristaltic tube has good chemical resistance
- Using 2mm wall thickness silicone tube, more durable



## ●Model Interpretation

BP2000

SF

U

N79H

B

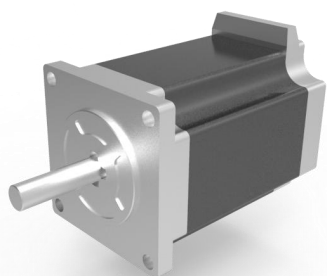
1

2

3

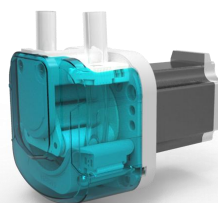
4 4

1

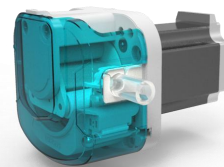


SF:57 high torque stepper motor

2

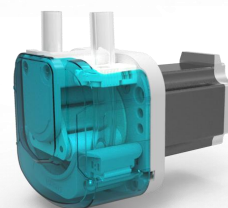


U:Pipe outlet mode

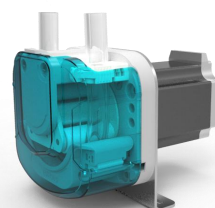


1:Pipe outlet mode

4



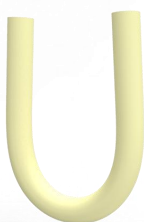
A Installation mode



B Installation mode





S:Silicone Tube



N:NorpreneTube

## ● Pump tube selection

Code/Material	Features	Tube life
B  PharMed BPT	No cytotoxicity and hemolytic, resistance to ozone and UV rays heat, ozone, acid and alkali resistance, anti-aging anti -oxidation, long life. Operating temperature range -51 °C ~132 °C	≥1000h
S  Silicon tube	Low cost, weak acid and alkali resistance, corrosion resistance to chemicals compared to the BPT pump pipe	≤200h

Pump tube life testing method:

BP2000 peristaltic pump, speed: 350r/min, temperature 20 °C, Test liquid: water, continuous operation test.

The slower the rotational speed of the peristaltic pump, the longer the service life of the pump tube. The service life of the pump tube may vary depending on the operating conditions, pipeline pressure, and liquid corrosiveness.

## ● Flow parameter

Tube Species		S64H	S79H	B64H	B79H
ID×OD		6.4X11.2	7.9X12.7	6.4X11.2	7.9X12.7
Tube Materials		Silicon tube	Silicon tube	BPT	BPT
Flow rate ml/min	24V 2.8A 350R	1400	2100	1400	2000

deal working conditions: ambient temperature 0-50 degrees, relative temperature less than 80%

Flow testing method:

Water test at room temperature (20 °C) and atmospheric pressure.

The above data is for reference only, and there may be deviations in flow rate depending on different liquids, pressures, and pipeline lengths.

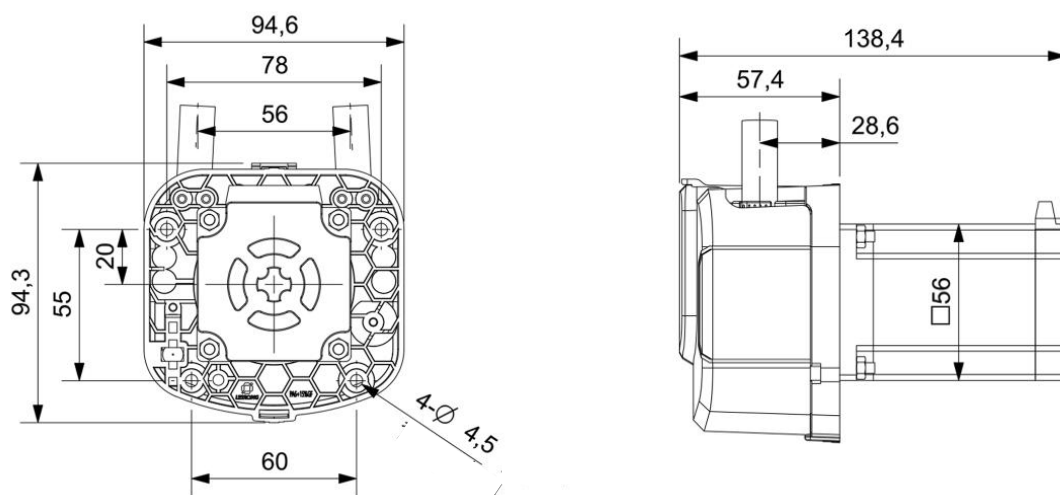
The material, flow rate, and control method of the pump tube can be customized according to the needs.

The initial torque required for starting a stepper motor is relatively high, and the required torque is 2-3 times the torque at a constant speed that matches the hose and roller.

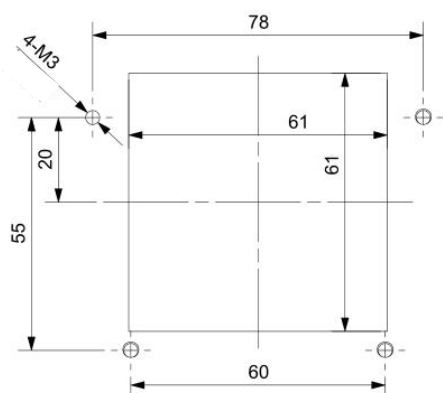
• If the pump load is high and there is initial stalling, try applying a current that is 10% -20% higher than the rated current of the motor. Once a constant speed is reached, adjust it back to the appropriate current (if the motor does not heat up after long-term operation, it is considered appropriate)

## ● Installation method

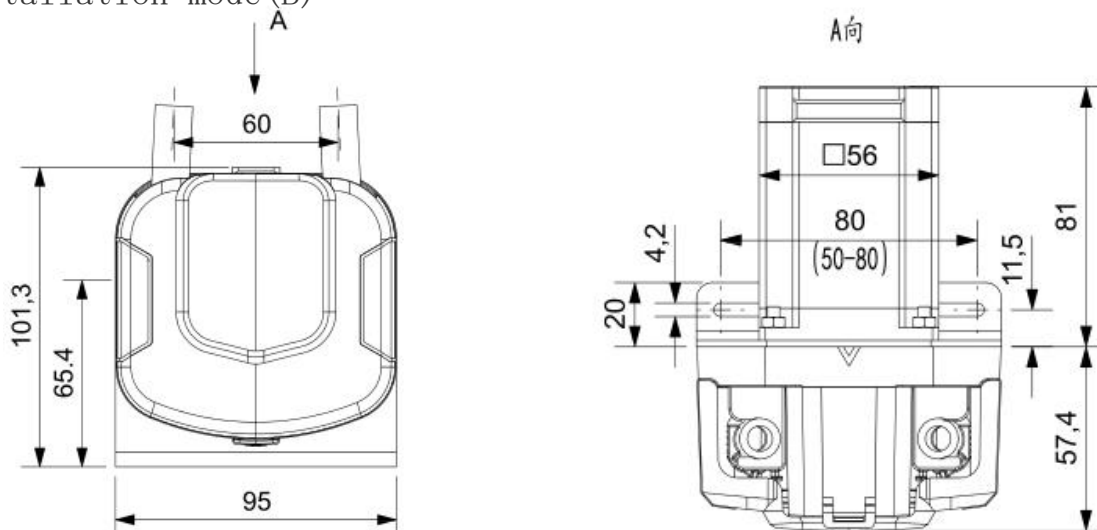
Installation mode (A)



Opening size (A)

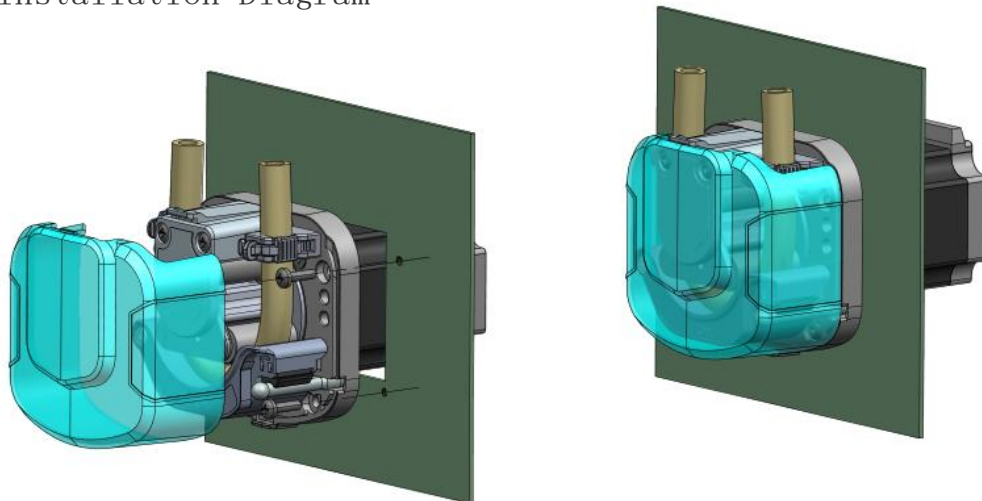


Installation mode (B)

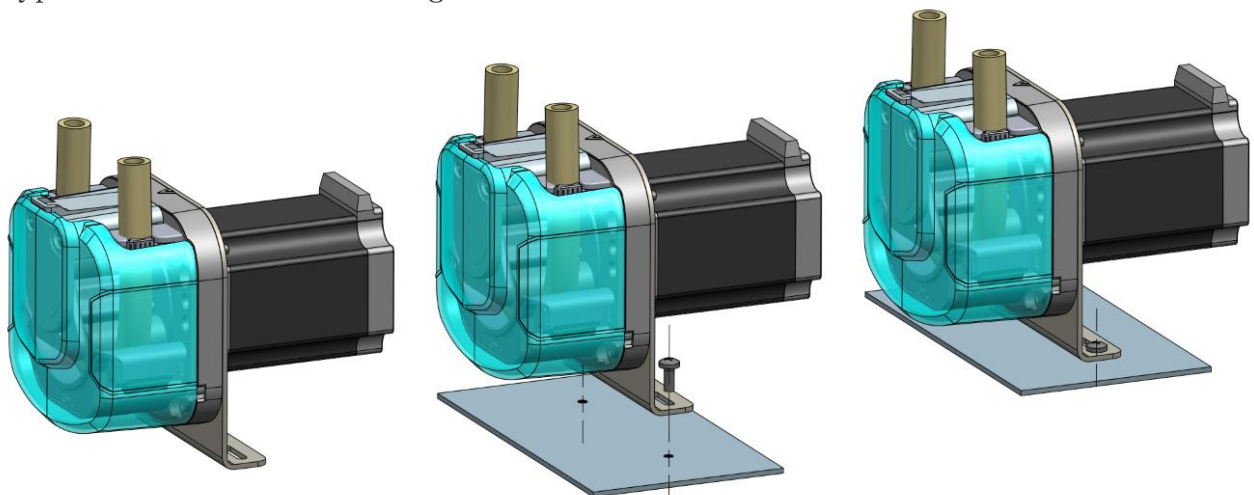


## ● Installation method

Type A Installation Diagram

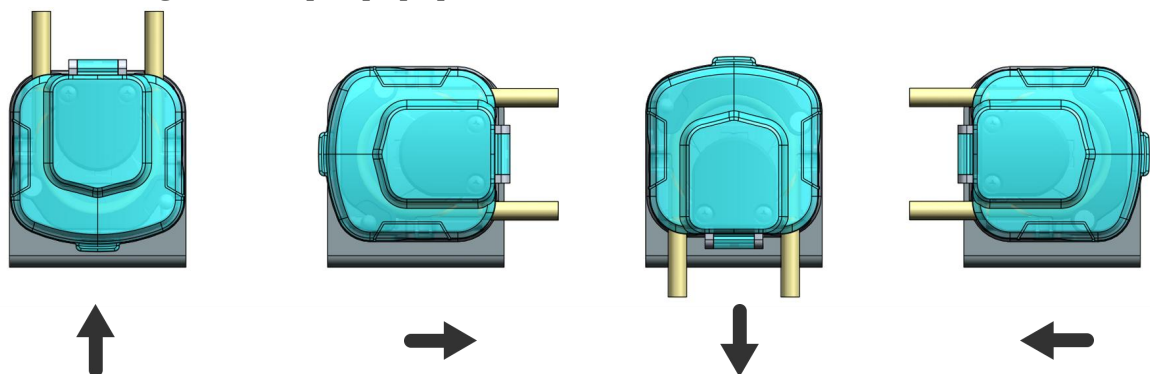


Type B Installation Diagram



Vertical installation mode (type b)

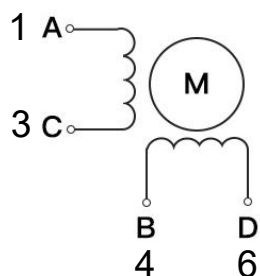
Schematic diagram of pump pipe switchable orientation





## ● Installation method

Wiring Diagram



Pin No.vs.Lead Wire Colour

XHP-4 PIN No.	XHP-6 PIN No.	Colour
4	1	BLK
3	3	GRN
2	4	RED
1	6	BLU

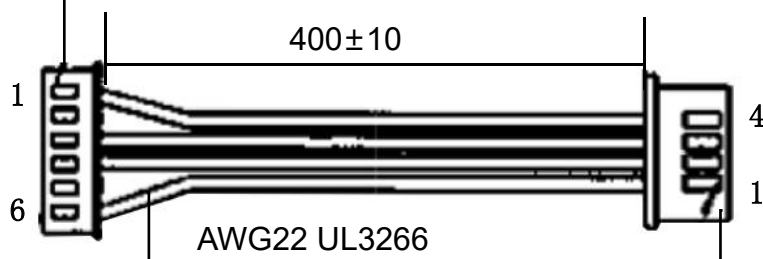
Exciting Sequence vs.Direction of Rotation

STEP	A	B	C	D	
1	+	+	-	-	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">             ↓ CW           </div> <div style="margin-right: 10px;">             ↑ CCW           </div> </div>
2	-	+	+	-	
3	-	-	+	+	
4	+	-	-	+	

Clockwise view from mounting side

HOUSING : JST XHP-6 OR CWB TJC3-6Y UL

TERMINAL : JST SXH-001T-P0.6 OR CWB TJC3 Terminal



HOUSING : JST XHP-4 OR CWB TJC3-4Y UL

TERMINAL : JST SXH-001T-P0.6 OR CWB TJC3 Terminal