



Pump Model: P03Y12V

The pump tube is made of imported BPT - versatile, reliable and ready for diverse liquid transfer needs.

- Stepper motor driven peristaltic pump,
- With 3 rotors and intermittent operation to meet different flow requirements,
- Planetary friction reduction transmission,
- Suitable for applications such as medical diagnosis, analytical instruments, experimental research and many more,
- Hoses are resistant to liquid media. Fluid leakage accidents due to hose depend on the fluid medium and your specific application conditions. Need to check chemical compatibility or conduct immersion test.



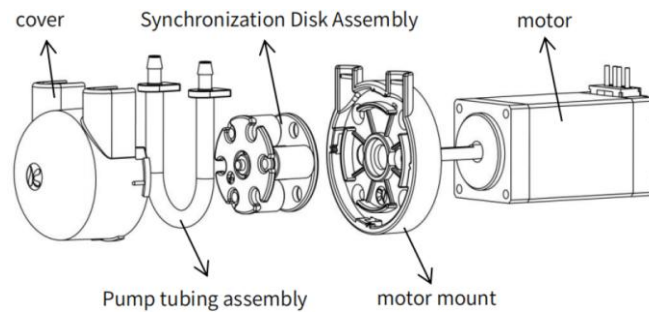
Parameters

Motor Type	Stepper motor
Power Supply	DC 12V
Fixed Speed	250rpm
Channel Number	2
Maximum Flow	12ml/min
Number of Rotors	3 rotors
Rotation Direction	Clockwise/Counterclockwise rotation
Material of Tube	BPT
Dimension of Tube	1.0mmx3.0mm, ID 1.0mm, OD 3.0mm
Method of Tube Installation	Tube stopper
Pressure Tube Type	Fixed clearance
Pump Cover Material	PC
Pump Motor Material	PA
Pump Rotor Material	Engineering plastics
Pump Head Life	1000h
Motor Life	6000h
Noise	35dB (test environment noise ≤ 53 dB, test product and noise meter horizontal distance of 0,5 meter)
Weight	Approx. 235g
Dimensions	(LxWxH) 84.7*43.8*53.2mm
Working Environment	Temperature 0- 45°C, relative humidity<70% RH
Storage Environment	Ambient temperature of -20 ~ +55 °C, relative humidity of not more than 95% of the clean and well-ventilated environment, the air shall not contain corrosive, flammable gases, oil mist, dust.

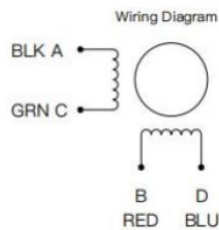


Product Structure

1. Cover: installation of a tube to transfer liquid,
2. Pump tubing assembly,
3. Synchronization disk assembly,
4. Motor mount,
5. Motor: provides power.



Motor Control



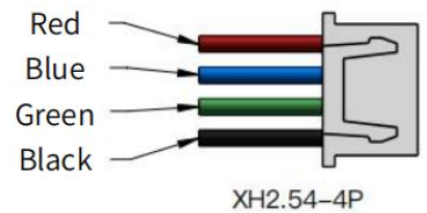
Pin NO. vs. Lead Wire Colour

PIN NO.	Color
1	RED
2	BLU
3	GRN
4	BLK

Exciting Sequence vs. Direction of Rotation

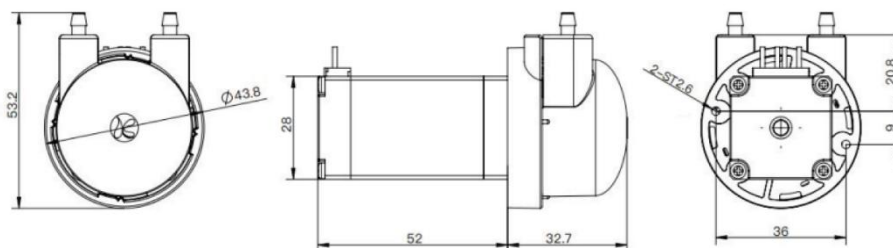
STEP	A	B	C	D	
1	+	+	-	-	Clockwise view from mounting side
2	-	+	+	-	
3	-	-	+	+	
4	+	-	-	+	

CW CCW



Phase	Step angle	Starting current	Insulation class
2	1.8°	1.0A	B

Dimensions (mm)



Motor Wiring Applications and Motor Parameters

Wiring method: Connect the DC power supply to the motor with the positive pole marked on one end and the negative pole to the other end.

The product is factory-welded with the following wires – red, blue, green and black. To power connection please see Motor Control section.

EAN: 5905658704643