

Kamoer Fluid Tech (Shanghai) Co., Ltd.

Version: A/2

Product name	Micro peristaltic pump
Product model	KPRP20
Execution date	2022.11.21
Company name	Kamoer Fluid Tech (Shanghai) Co.,Ltd.



File No .: CPBZ-KPRP20-01

Version No.: A2

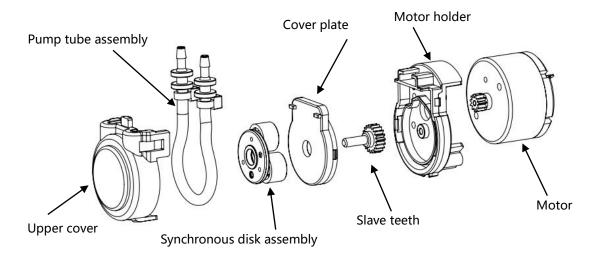
Effective Date: 2022-11-21 Model: KPRP20

A. Product Overview

Product physical picture 1.



Product assembly drawing 2.



Model definition 3.

KPRP20	D24	S	06	
model	motor	cast	tube number	

1/5

3.1 Motor

D6: 6V DC brushed motor D12: 12V DC brushed motor D24: 24V DC brushed motor

3.2 Applicable tube type

S: silicone tube

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3.3 tube number

06#: 2mm×4mm inner diameter 2mm, outer diameter 4mm

3.4 Product material

Model	Cover	Cage	Rotor	Cover plate	Motor mount	Driven tooth
KPRP20	PC	PA	POM	PA	PA	POM

4. Performance characteristics, typical applications

4.1 Performance characteristics

- KPRP series peristaltic pump is a kind of peristaltic pump driven by DC brush motor
- Pump tube selection the pump tube is S (silicone) tube, and the size of the pump tube is (06#) peristaltic pump tube
 - Small size, micro flow
 - Installation method the installation method is fixed through the board
 - Suitable for pump tubing with a wall thickness of 1.0mm

4.2 Typical applications









Household sweeping robot

aguarium titration

Auto hand sanitizer

DIY



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5. **Product Certification, Intellectual Property**

CN 306085936 S

CN 212376836 U

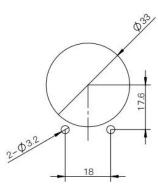


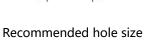


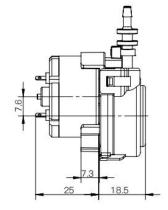
- Hoses are resistant to liquid media Need to check chemical compatibility or conduct immersion tests, improper hose selection may cause hose damage quickly
- The working environment of the product should not exceed 45°C, and the humidity should not exceed 70% (no condensation). The harsh working environment will cause premature damage to the product
- Fluid leakage accidents due to hose ruptures depend on the fluid medium and your specific application conditions
 - High overloading may result in premature failure of the product

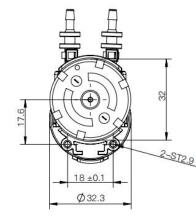
B. product specification

1. **Product Size**









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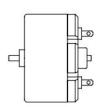
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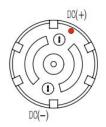
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2. **Technical Parameters**

Project		Technical Parameters		
	Motor type	DC brushed motor		
	Flow range	50ml/min		
Ва	Noise	≤55dB		
sic	Power	4W		
Basic parameters	Control method	Switch control		
met	Weight	About 60g		
ers	Rated voltage	6V/12V/24V		
	Pump tube life	S: 200h		
	Motor life	200 hours		
	Reference flow rate (unit: ml/min)			
	Pump tube code	S06		
Pun	ID × OD	Metric: 2mm×4mm		
Pump flow	Pump tube material	silicone tube		
Wo	D6/current 0.4A	50ml/min		
	D12/current 0.25A	50ml/min		
	D24/current 0.15A	50ml/min		
	Remark	The above parameters are measured at room temperature and standard atmospheric		
		pressure at 20°C with pure water without pressure. Actually, there will be a certain error		
Pr		in the flow rate depending on the medium, the outlet pressure, the motor speed error,		
ecat		etc.; the actual will be due to the change of the speed and running time. The error, the		
Precautions		data is for reference only. In addition, it can be customized according to customer		
ns		needs.		
	Reference noise	Under the ambient noise of 40dB, the measured distance of 50cm is less than 55dB		
	value	State the ambient holde of House, the measured distance of Joenn's less than		

3. **Motor control**





Note: According to the motor wiring diagram, the positive power supply is connected to positive, the negative power supply is connected to negative, and the motor is rotated counterclockwise (CCW).CW)

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C. Adapter hose

Pump tube material	Characteristic	Standards compliant	Tube number
Silicone tube (S)	Low adsorption, good temperature resistance, good chemical corrosion	RoHS Comply with food grade	06#
	resistance, life over 200h	certification (GB 4806.11-2016)	

D. Optional accessories

Name	Specifications		Function introduction
Anti-floating	Diameter 6.0mm		Place the inlet of the pump tube completely in the
sinking head	Diameter 2.5mm		liquid to ensure that the peristaltic pump tube can fully absorb the liquid

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