

Kamoer Fluid Tech(Shanghai) Co., Ltd.

Version: A/0

Product name	Micro Peristaltic Pump	
Product model KPK200		
Execution date	2024.05.11	
Company name	Kamoer Fluid Tech (Shanghai) Co.,Ltd.	



File No .: CPBZ- KPK200 -01

Version No.: A0

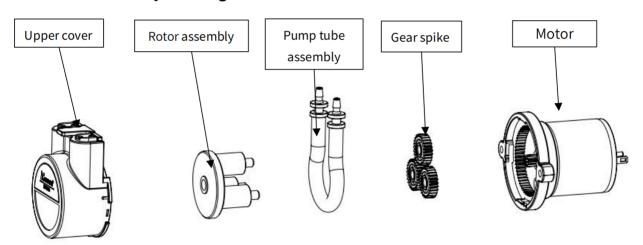
Model: KPK200 **Effective Date:** 2024-05-11

A. Product Overview

Product picture



Product assembly drawing



Model Explanation

KPK20	o sv	3	В	16	Null
Mode	Motor model	Rotor	Tube type	Tube No.	Installation

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3.1 Motor model



SW 12V DC Brushed SV 24V DC Brushed



12B 12V DC Brushless 24B 24V DC Brushless

3.2 Rotor

3 rotors

3.3 Tube type

B: BPT pump tube

3.4 Tube number

16#: 3.2mm x6.4mm

3.5 Installation method

Empty: Standard installation

3.6 Product Material

Pump head model	Upper cover	Base	Gear	Rotor	Connectors
KPK200	PC	РОМ	PTE	PET	PP

Performance characteristics, typical applications

4.1 Performance characteristics

- ◆ KPK200 series peristaltic pumps are equipped with DC brush and DC brushless , 24V/12V motors, and can provide different voltage options
- ◆ The pump tube uses imported BPT (B) with a wall thickness of 1.6mm, which can be adapted to pump tubes of different materials to meet different liquid transmission needs.
- ◆ Matching hose and hard pipe joint fixing methods to meet the needs of different application scenarios
 - ◆ Simple structure, small size, high cost performance
 - ◆ The transmission mode is gear transmission, the reduction ratio is 1: 8, and the reliability is high.

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4.2 Typical Applications

- Food and drink
- Medical diagnosis
- Analytical Instruments
- Inkjet printing ink
- Washing cleaning
- Environmental protection equipment
- Experimental research
- Industrial machinery
- White goods
- Biochemical analysis
- ◆ If the hose is resistant to liquid media, it is necessary to check the chemical compatibility or conduct an immersion test. Improper hose selection may cause the hose to be damaged quickly.
- ◆ The working environment of the product should not exceed 45°C and the humidity should not exceed 70% (no condensation). A bad working environment will cause premature damage to the product.
- ◆ Liquid leakage accidents caused by hose rupture depend on the liquid medium and your specific application conditions.
 - ◆ High overload may cause premature damage to the product
 - ◆ After long-term use, the pump tube may deviate slightly, which does not affect the use of the product

5. Product certification, intellectual property

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Utility Model Design

Accepted Accepted

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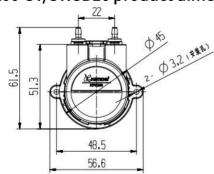
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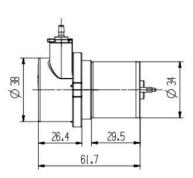
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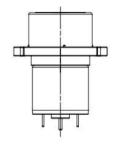
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B、DC Brushed Product Specifications

1. KPK200-SV/SW3B16 product dimensions



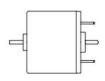


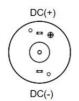


2. Technical parameters

Items		Technical Parameters	
Basic	Motor Type	Brushed DC Motor	
	Flow range	≥170ml/min	
	Power	≤10W	
	Control method	Switching control	
: Pai	Weight	Approx. 135g	
Parameters	Rated voltage	12V/24V	
eter	Pump tube life	B:1000h	
S	Motor life	800h	
	Reference noise value	In a quiet room with an ambient noise level of 3.5 dB, the product is 50 cm away from	
		the noise tester and the noise level is ≤68dB	
	Reference flow rate (unit: ml/min)		
Pump	Pump tube code	B16	
mp Tube	Inner diameter x outer diameter	Metric: 3.2 mm x 6.4 mm Imperial: 1/8 in x 1/4 in	
e FI	Pump tube material	ВРТ	
Flow	12V/Current: 0.8A	≥170ml/min	
	24V/Current: 0.4A	≥170ml/min	
		The above parameters are measured without pressure using pure water at 20°C	
		room temperature and standard atmospheric pressure. In practice, the flow rate will	
	Additional Notes	have certain errors depending on the different media, outlet pressure, DC motor	
		speed error, etc. The data is for reference only. In addition, it can be customized	
		according to customer needs ;	

3. Motor control





Note: According to the motor wiring diagram, the positive pole of the power supply should be connected to the positive pole and the negative pole should be connected to the negative pole.

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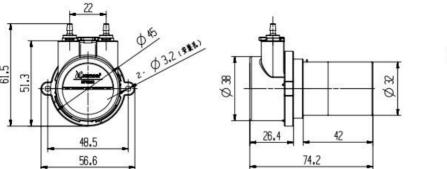
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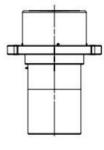
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C、DC Brushless Product Specifications

1. KPK200 -12B/24B3 B16 product dimensions





2. Technical parameters

Item		Technical Parameters	
	Motor Type	Brushless DC Motor	
	Flow range	≥150ml/min	
	Power	≤10W	
Basic Parameters	Control method	Switching control/PWM speed regulation	
Para	Weight	Approx. 150 g	
mete	Rated voltage	12V/24V	
SJR	Pump tube life	B:1000h	
	Motor life	2000h	
	Reference noise value	In a 35dB ambient noise room, the product is 50cm away from the noise tester, and the noise is ≤68dB	
	Reference flow rate (unit: ml/min)		
	Pump tube code	B16	
Pun	Inner diameter x	Metric: 3.2 mm x 6.4 mm	
t d	outer diameter	Imperial: 1/8inx1/4in	
Pump tube flow	Pump tube material	ВРТ	
>	12V/Current: 0.8A	≥150ml/min	
	24V/Current: 0.4A	≥150ml/min	
,		The above parameters are measured without pressure using pure water at 20 °C room temperature and standard atmospheric pressure. In practice, the flow rate will have certain errors depending on the different media, outlet pressure, DC motor speed error, etc. The data is for reference only. In addition, it can be customized according to customer needs.	

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Brushless motor wiring method

1- The red wire is the positive pole of the power supply, the black wire is the negative pole of the power supply, the white wire is the speed control wire, the yellow wire is the signal feedback wire (for measuring speed), and the green wire is the commutation wire (suspended in the air for reverse rotation, connected to the negative pole of the power supply for forward rotation).

- 2- Speed regulation port: PWM and 0-5V two speed regulation modes, speed regulation range 11%-100%, PWM frequency 10KHZ-30KHZ; amplitude: 5V, duty cycle 0-10% motor does not rotate, 11%-100% speed regulation range; 0-5V voltage speed regulation, 0-0.5V motor does not rotate, 0.6V-5V speed regulation range.
 - 3- Yellow line speed feedback, connected to oscilloscope probe or host computer. 1 pulse/revolution.
- 4- Run at full speed, the red and white wires are connected to the positive pole of the power supply, and the black wire is connected to the negative pole

UL1332 Material:PTFE

- 5- FG-24AWG-yellow Signal feedback (yellow)
- 6- Vcc-24AWG-red Power positive pole (red)
- 7- SP-24AWG-white Speed control port (white)
- 8- GND-24AWG-black Power negative pole (black)
- 9- F/R-24AWG-green Reversing port (green)



D. Adapter Hose

Pump tube material	Characteristic	Standards compliant	Tube No.
BPT tube (B)	Good resistance to common		
	chemicals, acid and alkali, and	RoHS FDA	16#
PRATISAR BRY MAN TENO 22	oxidation, life span exceeds	KOU2 LDA	16#
	1000h		

E、Optional Accessories

Name	Product Image	Function Introduction
1/8 straight connector		connectable hose with inner diameter of 2.5 mm - 3.2 mm
1/8 Soft and hard joint	HI (NOMINAL)	Externally connected to 3.0 mm and 3.2 m outer diameter hard pipe

Special statement: The company reserves the right to improve the product appearance and technical specifications. Any changes will be made without prior notice.

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