

Product Manual

Kamoer Fluid Tech (Shanghai) Co.,Ltd.

Version: A/2

Product name	Micro peristaltic pump		
Model	KPAS100		
Release Date	2022.11.23		
Manufacturer	Kamoer Fluid Tech (Shanghai) Co.,Ltd.		



Model: KPAS100

File No.: CPBZ-KPAS100-01

Version: A2

Release: 2022-11-23

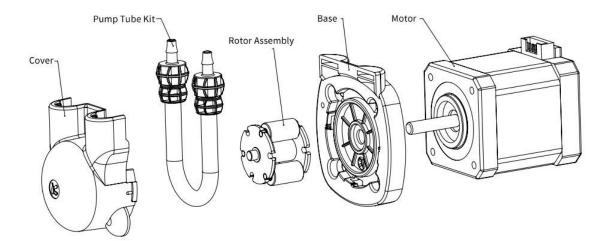
A. Product Overview

1. **Product Images**





Product assembly drawing 2.

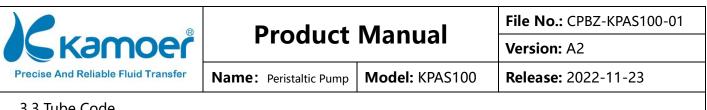


Model Interpretation 3.

KPAS100	ST	В	14	3	А	А
Model	Motor type	Tube material	Tube size	Number of rotors	Connector model	Installation method

- 3.1 Motor Type
 - ST: 24V stepper motor
- 3.2 Tube type
 - B: BPT tube S: Silicone tube





3.3 Tube Code

14#: 1.6mm(ID)×4.8mm(OD) 19#: 2.4mm(ID)×5.6mm(OD) 16#: 3.2mm(ID)×6.4mm(OD)

- 3.4 Number of rotors
 - 3: 3 rotors
- 3.5 Connector type

A: Butt joint





3.6 Installation method

A: Straight board (default installation) L: L plate

Model	Cover	Base	Rotor	Rotor Assembly	Connector
KPAS100	PC	PA	Engineering plastics	POM	РР

4. **Features & Applications**

4.1 Features

- KPAS100 series peristaltic pump is a stepper motor driven peristaltic pump
- Pump tube selection the pump tube adopts imported BPT (B) tube and silicone tube (S), which can be applied to different transmission liquid requirements
- Pump tube size is optional (14#, 19#, 16#) to meet different flow requirements
- The pump body comes with a 4-hole mounting plate, no need to add it separately
- 3 rotor transmission, moderate pulse
- Installation method The installation method is fixed through the plate. In addition, the pump head adopts a quick-release type, and the orientation of the pipe joint can be selected in any direction of up, down, left, and right
- Transmission mode planetary friction reduction transmission
- Suitable for wall thickness 1.6 pump tubing



Make it smart to pump fluid

R	Droduct	Manual	File No.: CPBZ-KPAS100-01	
Kamoer	Product Manual		Version: A2	
Precise And Reliable Fluid Transfer	Name: Peristaltic Pump	Model: KPAS100	Release: 2022-11-23	

4.2 Typical applications

Analytical instruments: ion chromatograph, blood analyzer, hypochlorous acid water generator; detergent delivery: automatic car washer.









Blood analyzer

Hypochlorous Acid Generator

Ion chromatograph

Auto car washer

The hose is resistant to liquid media. It is necessary to check chemical compatibility or perform immersion experiments. 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 condensing water). The harsh working environment will cause premature damage to the product.

- Fluid spills due to ruptured hoses depend on the fluid medium and your specific application
- High overload work may lead to premature product failure

5. **Patents**

CN 307575335S

	外观设计专利证书
	REDIER. 4020 (075100)
	设 计 人,我2种
	9 利 号, 3L 2022 3 0296419.7
	◆利申請日, 2022年0.01月20日
	9 程 和 人。 年月年週休科註(上海) 首期会司
	地 址, 201611 上海市松江区传经路79号4幅3层-2
	授款合告(1, 2022年(0)月30)1 授款合告(9, cs 307575335 S
	国家和广东局壤市中入底各市等利益建筑管学者。在建筑中有利。电发标 使产利益率关系中的运载上"均均比"中代电管状化合适三面是成一种代数限为中 品本,是中省实现高。 中行业长式会中的综合式时间重视之一中代化的相关,在时,之间、传点、电流、电流 利润和公司法系式者的、实施、海滨发展等可已完成各利劳公果上。
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FOLM	· · · · · · · · · · · · · · · · · · ·





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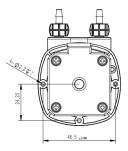
taltic Pump | Mode

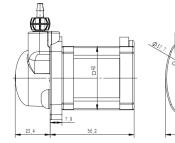
Model: KPAS100

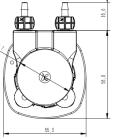
Release: 2022-11-23

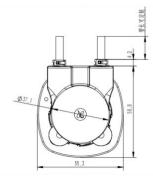
B. Product Specifications

1. Dimensions









2. Parameters

	ltem			Technical	Parameter				
	Motor type			Steppe	r motor				
_	Flow range			32-110	ml/min				
Basi	Power			20	W				
Basic parameters	Control mode			Steppe	r driver				
rame	Weight	About 400g							
eters	Rated voltage		24V						
	Pump tube life			S: 200h	BPT: 1000h				
	Motor life			600	00h				
			Referer	nce flow (unit: I	nl/min)				
	Pump tube	S14	S19	S16	B14	B19	B16		
	code	_					-		
Flov	ID x OD	1.6mm×4.8mm 2.4mm×5.6mm 3.2mm×6.4mn			1.6mm×4.8mm	2.4mm×5.6mm	3.2mm×6.4mm		
Flow Rate	Pump tube material	Silicone tube			ВРТ				
	Motor speed	350 rpm							
	ST/Current: 1.2A	32 ml/min	70 ml/min	110 ml/min	32 ml/min	70 ml/min	110 ml/min		
		The above parameters are measured with pure water without pressure under the standard atmospheric pressure at room temperature of 20°C. Actually, there will be certain errors in th							
z	Remark	flow rate according to different media, different outlet pressures, and DC motor speed errors.							
Notes			lly for reference.		•		-		
Reference In a quiet room with an ambient noise of 35dB, the product is 50cm away from the n					the noise tester,				
	noise value	and the noise is 50dB.							





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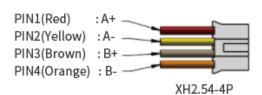
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Stepper Motor Parameters & Wiring 3.

Phase	Step angle	Starting current	Insulation class	
2	1.8°	1.2A	В	



C. Pump Tube

Pump tube material	Characteristic	Standards compliant	Tube code
Silicone Tube (S)	Low adsorption, good temperature resistance, good chemical corrosion resistance, life time >200h	RoHS Compliant with food grade certification (GB 4806.11-2016)	01 # 02 # 04# 05# 06# 08# 10#
BPT tube (B)	Good resistance to common chemicals, acid and alkali, and oxidation resistance, life time >1000h.	RoHS	04 # 12 # 06# 08#

D. Optional accessories

Accessory name	Specifications		Function
Anti-floating countersunk head	Diameter 6mm Diameter 2.5mm		Place the inlet of the pump tube completely in the liquid to ensure that the peristaltic pump tube can fully absorb the liquid
Mounting plate	L shape		Increase the types of installation methods to meet different customer needs
Peristaltic pump dtepper driver	MODBUS-RTU		It can realize built-in and external potentiometer speed regulation, can realize MODBUS RS485 communication and 0-10V analog speed regulation, realize electric and trigger two start and stop modes, the maximum subdivision is 32, and the drive current can be set (0.7A, 1.2A), 1.7A, 2.2A, 2.7A, 2.9A, 3.2A, 4.0A)
Stepper motor driver board	4460.4		It can realize RS232/RS484 speed regulation, external and built-in potentiometer speed regulation

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