

# Kamoer Fluid Tech (Shanghai) Co., Ltd.

Version : A/5

Product name	Micro peristaltic pump	
Product model	KSP16	
Execution date	2022.11.21	
Company name	Kamoer Fluid Tech (Shanghai) Co., Ltd.	



File No .: CPBZ-KSP16-01

Version No .: A 5

Name : Micro peristaltic pump

Model: KSP16

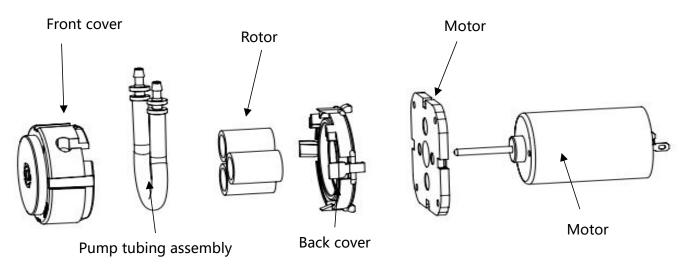
Effective date : 2022-11-21

# **A. Product Overview**

### 1. Product physical picture



## 2. Product assembly drawing



#### 3. Model definition

KSP16	12		N 19	
Model Moto	r model Installatio	on method Ca	st Tube num	າber



Скатое	
Precise And Reliable Fluid Transfer	1

Product Manua
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L-plate brushed motor

12 L 12V DC brushed

24 L 24V DC brushed

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#### 3.1 Motor model



Straight brush motor 12 12V DC brushed 24 24V DC brushed



Empty: standard installation

3.3 Tube type

N: Norprene

3.4 Tube number

19#: 2.5mm×5.4mm 16#: 3.2mm×6.4mm

40#: 4mm×7.2mm

3.5 Product material

Pump head model	Front cover	Back cover	Rotor	Motor board	Connector
KPS16	РОМ	РОМ	PET	PA	РР

## 4. Performance characteristics, typical applications

#### 4.1 Performance characteristics

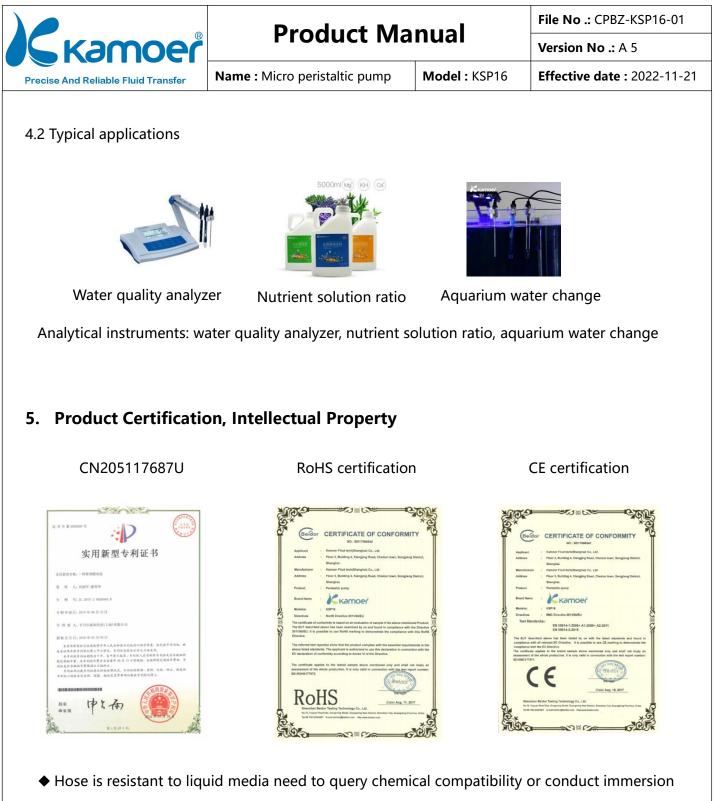
◆ KSP16 series peristaltic pump is a DC brush motor 12V/24V, different voltage options are available

◆ The pump tube is imported No r prene (N) tube with a wall thickness of 1.6 mm , other pump tubes can be customized

- Applicable to pump tubes of various specifications to meet different transmission needs
- The pump is small in size, compact in structure and good in cost performance
- Installation methods: L -board fixing and veneer through-board fixing to suit different usage occasions

(see the installation diagram for details)





experiments, improper hose selection may lead to hose damage soon.

◆ Product working environment should not exceed 45 °C, humidity does not exceed 70% (no condensation), the harsh working environment will lead to premature damage to the product.

• Due to hose rupture caused by the liquid leakage accident depends on the liquid medium and your specific application conditions.

High overload work may lead to premature damage to the product.





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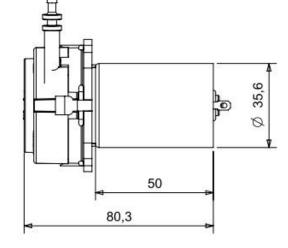
Model: KSP16

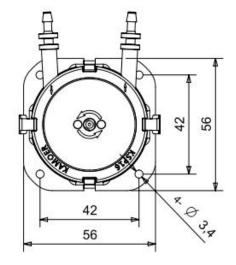
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# **B.** Product specification

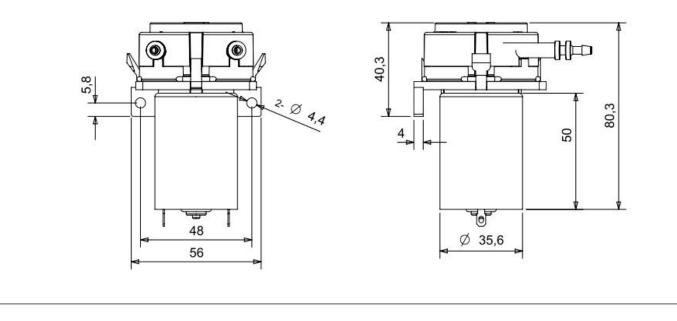
#### 1. Product Size







L plate installation



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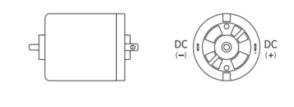
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## 2. Technical Parameters

Project		Technical Parameters				
	Motor type	DC brushed motor				
	Flow range		90ml/min-300ml/min			
	Noise		≤65dB			
Bas	Power	9W Switch control				
Basic parameters	Control method					
ara	Weight		About 215g			
met	Rated voltage		12V/24V			
ters	Pump tube life		N: 1000h			
	Motor life		800h			
	Reference noise value	In a quiet room with an ambient noise of 35 dB , the product is 50 cm				
	Reference noise value	away from the noise tester , and the noise is 60dB				
		Reference flow rate (unit: ml/min)				
_	Pump tube code	N19	N16	N40		
ľ	ID × OD	Metric: 2.4mm×5.6mm	Metric: 3.2mm×6.4mm	Metric: 4.0mm×7.2mm		
Pump flow		Inch: 3/32 in×7/32 in	Inch: 1/8 in×1/4 in	Inch: 5/32 in×9/32 in		
Ň	Pump tube material		N			
	12V/current: 0.75 A	≥ 90ml /min	≥ 150ml / min	≥ 230ml/min		
	24V/current: 0.35A	≥ 100ml/min	≥ 170ml/min	≥ 260ml /min		
		The above parameters are measured with pure water without pressure				
		at room temperature and standard atmospheric pressure at 20°C. Actually,				
Su	pplementary Note	there will be certain errors in the flow rate due to different media, different				
		outlet pressures, and DC motor speed errors. The data are 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 is connected to the positive, the negative pole is connected to the negative.

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## C. Adapter hose

Pump tube material	Characteristic	Standards compliant	Tube code
N tube (N)	Good UV resistance, wide range of chemical resistance, life over 1000h	RoHS FDA	19#, 16#, 40#

# **D.** Optional accessories

Name	Specifications		Function introduction
Straight connector	3/32		2.4mm×5.6mm hose can be connected externally
Straight connector	1/8		3.2mm×6.4mm hose can be connected externally
Straight connector	5/32		4mm×7.2mm hose can be connected externally

