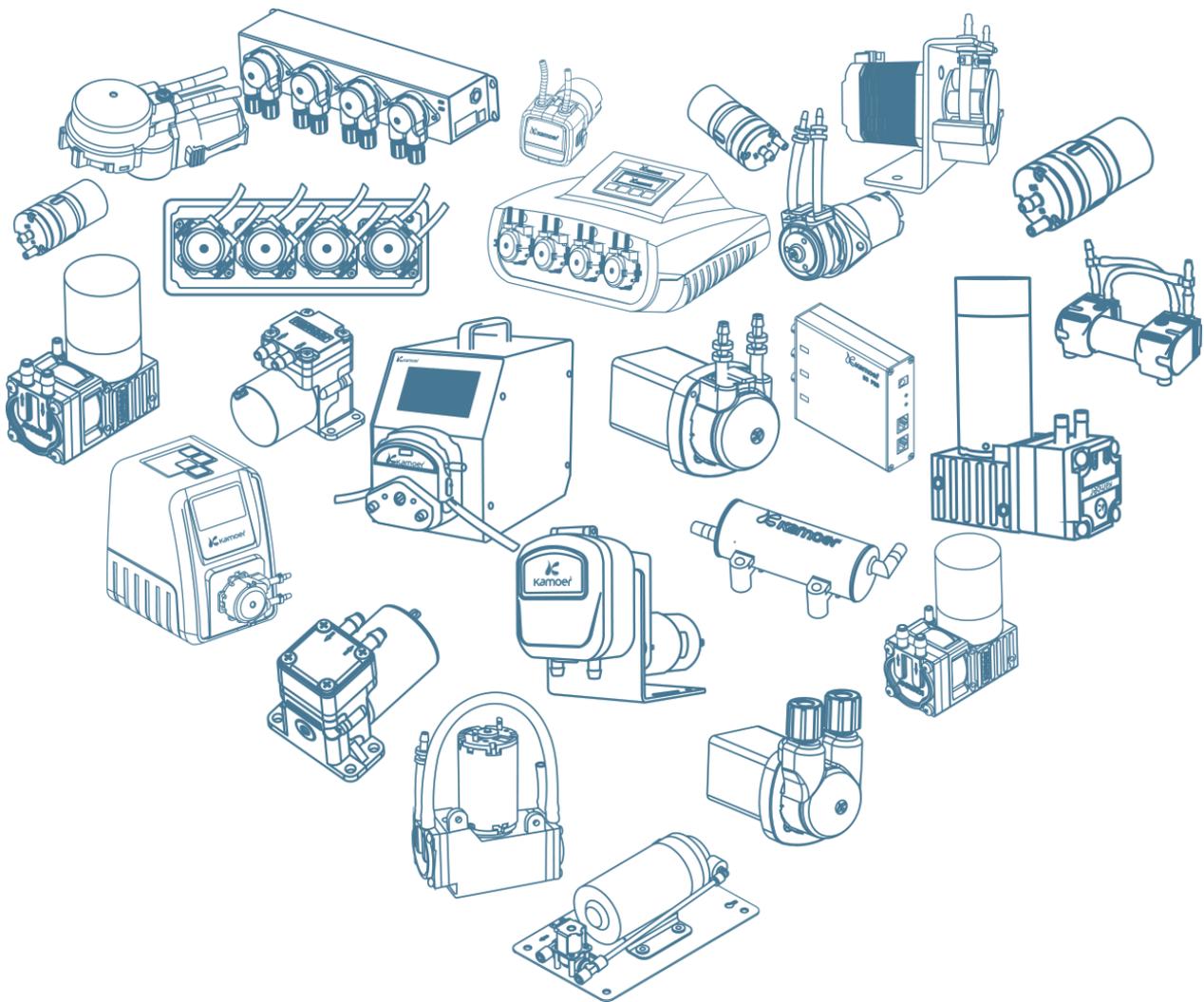




# Product Manual

Make It Smart To Pump Fluid



Liquid pump and gas pump Kamoer easy to use







## Company Profile:

Kamoer fluid tech (Shanghai) Co., Ltd. is an intelligent enterprise providing products and solutions in the field of fluid, incorporates research, manufacturing, sales and service with professional technologies and excellent manufacturing process.

The series of Kamoer products are: peristaltic pump, diaphragm pump, piston pump, intelligent peristaltic pump, liquid dispensing system, etc.; Accessories: tube, connectors, precision parts, such as micro valve.

With strong technical power, exquisite process, good corporate reputation, excellent product quality, continuous research and develop new and high technology products with a number of independent patent, we provide customers with quality products and technical services in the field of fluid, Kamoer establishes long-term relations with various enterprises. Company products are widely used in scientific research laboratory, biological pharmacy, food and beverage, fine chemical industry, environmental protection, and many other fields. The company passed ISO9001-2008 quality management system certification, We aim to carry out the idea to put people first and continuously innovate, with all ears for customers and provide good-quality products for all of our customers. We dedicated to make the company become a trusted and respected service provider in the field of fluid.

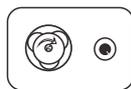
 is a registered trademark of Kamoer fluid tech(Shanghai) Co.,Ltd.

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KAS-ST	26~85ml/min	06
KFS	1~122ml/min	07
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KPP2	12.5~155ml/min	10
KCM	38~670ml/min	11
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KXF	2~80ml/min	14
KMPP	1~1.8ml/min	15
KHL	1300~1800ml/min	16
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## Pump Machine

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KCS PRO2	14~145ml/min	35
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HLVP6	5L/min	55
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L Plate

Flat Plate

- Three kinds of DC motors are available: 6V/12V/24V
- Flow rate range: 1.2ml/ min~90ml/min
- Working conditions: temperature 0~40°C, humidity <80%
- Pump tube selection: food grade silicone tube, PharMed®BPT tube
- Pulsation: Three rotors, moderate pulsation
- Pump head: engineering plastic
- Weight: 110 grams

## Technical Parameters

Pump tube length: 135mm (exposed 29.5mm) code-named B pipeline  
 175mm (exposed 49.5mm) code-named S pipeline

## Application Areas



Trace element analyzer



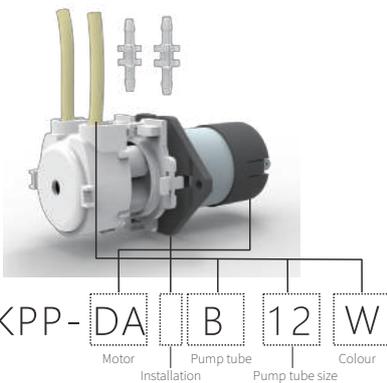
Chemiluminescence analyzer



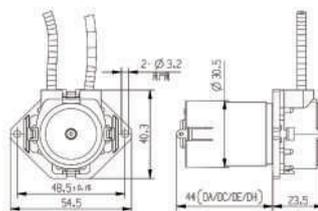
Water quality monitoring



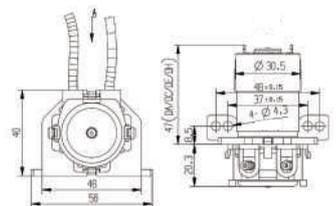
Digital printing machine



Straight Unit: mm



L Plate



## Performance parameter table

Code		S01	S02	S04	S05	S06	S08	S10	B04	B12	B06	B08
ID*OD (mm)		0.4x3	0.6x3	1x3	1.5x4	2x4	2.5x4.5	3x5	1x3	1.5x3.5	2x4	2.5x4.5
Pump tube material		S	S	S	S	S	S	S	BPT	BPT	BPT	BPT
Flow Rate (ml/min)	DH (3V) Current 0.16A	≥1.2	≥2.8	≥4.5	≥10	≥17.5	≥30	≥41.5	≥5.2	≥12	≥15	≥22
	DE (6V) Current 0.15A	≥3	≥5	≥10.5	≥22	≥36	≥60	≥90	≥11	≥25	≥38	≥48
	DC (12V) Current 0.25A	≥2.6	≥4.5	≥10	≥22	≥37	≥55	≥80	≥10	≥22	≥33	≥47
	DA (24V) Current 0.3A	≥2	≥4	≥10	≥21	≥38	≥59	≥83	≥11	≥21	≥34	≥48

Note: the above flow parameters are measured at 20°C room temperature and standard atmospheric pressure. Actually, depending on the medium, the outlet pressure is different, the DC motor speed error etc, the flow will have a certain error, the measured data as a reference.



- Three kinds of DC motors are available: 6V/12V/24V
- Flow rate range: 10ml/ min~60ml/min
- Working conditions: temperature 0~40°C, humidity <80%
- Pump tube selection: food grade silicone tube, PharMed®BPT tube
- Pulsation: Three rollers, moderate pulsation
- Pump head: engineering plastic
- Weight: 110 g

### Technical Parameters

Pump tube length: 135mm (exposed 29.5mm) B tube  
175mm (exposed 49.5mm) S tube

### Application Areas



Sweeping robot



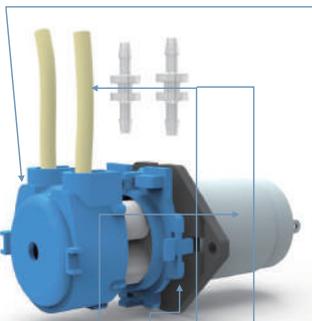
Fuel stoves



Soap dispenser

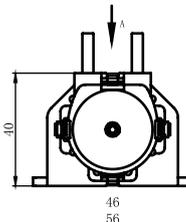
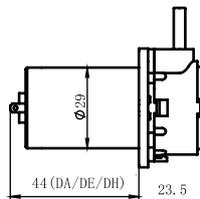
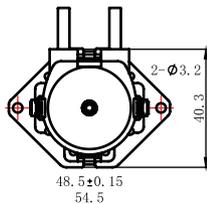


Fully automatic liquid-based cell dyeing machine

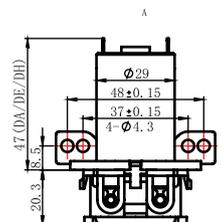


NKP - DA S 06 Y  
 Motor Installation Pump tube size Colour

Straight  
Unit: mm



L plate



### Performance parameter table

Code		S04	S06	S08	B06	B08
ID*OD (mm)		1x3	2x4	2.5x4.5	2x4	2.5x4.5
Pump tube material		S	S	S	BPT	BPT
Flow Rate (ml/min)	DA (24V) Current 0.15A	≥10	≥38	≥59	≥34	≥48
	DC (12V) Current 0.25A	≥10	≥37	≥55	≥33	≥47
	DE (6V) Current 0.35A	≥10.5	≥36	≥60	≥38	≥48

Note: the above flow parameters are measured at 20°C room temperature and standard atmospheric pressure. Actually, depending on the medium, the outlet pressure is different, the DC motor speed error etc. the flow will have a certain error, the measured data as a reference.

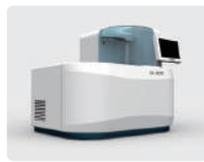


- Motor selection: stepper motor: SA24V/SB12V;  
DC motor: SC24V/SD12V
- Flow rate: DC motor: 4~99ml/min;  
Stepper with 3 rollers 9~306ml/min  
Stepper with 6 rollers 7~207ml/min
- Working conditions: temperature 0~40°C, humidity <80%
- Pump tube selection: Silicone tube, PharMed®BPT tube,  
Fluorine rubber tube
- Rollers: 3 Rollers, 6 Rollers
- Power: 20W max; Weight: 520 g

## Application Areas



Secretions Analysis Workstation



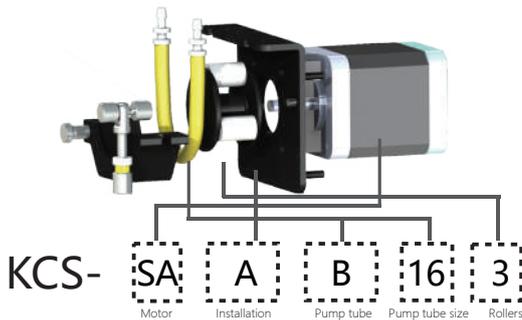
Electrolyte Analyzer



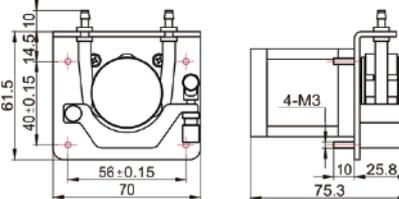
Water quality monitoring



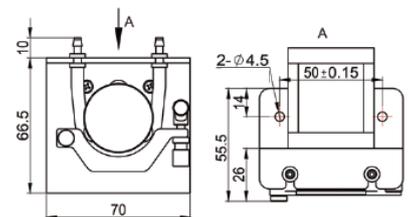
Nitrate nitrogen water quality monitor



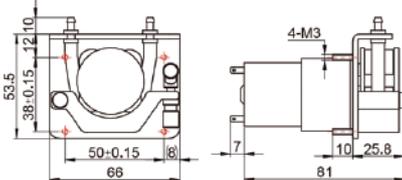
Installation diagram of code A  
(Available for SA and SB)  
Unit: mm



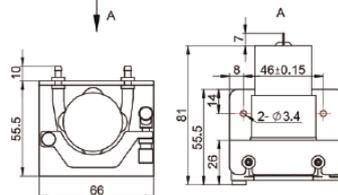
Installation diagram of code B  
(Available for SA and SB)



Code C installation diagram (Available for SC and SD)



Code D installation diagram (Available for SC and SD)



Stepper motor wiring instructions

Phase line		Colour
A Phase line	A+	Red
	A-	Yellow
B Phase line	B+	Brown
	B-	Orange

Flow rate	13	14	19	16	40	30	01	00
3 Rotor	17	54	117	171	306	45	100	130
6 Rotor	12	47	95	135	207	/	/	/
3 Rotor	9	38	82	128	200	38	80	95
6 Rotor	7	30	48	88	120	/	/	/
3 Rotor	5.5	18	36	61	99	21	49	58
6 Rotor	4	13.5	27	45	60	/	/	/
3 Rotor	4.5	16	32	56	90	21	49	58
6 Rotor	4	13.5	27	45	60	/	/	/

Code	13	14	19	16	40	30	01	00
ID	0.8	1.6	2.4	3.2	4.0	1.65	2.54	2.79
OD	4.0	4.8	5.6	6.4	7.2	3.35	4.24	4.49
Pump tube	S	B/N/S	B/S	B/N/S	S	V	V	V
Rotor	3/6	3/6	3/6	3/6	3/6	3	3	3

Note: The wall thickness of V pump tube is 0.85mm, the remaining 1.6mm, the actual flow rate of the product is not less than the data in the table.



- Two stepper motors are available: 12V/24V
- Flow rate range: 4 rollers 20~160ml/min, 8 rollers 12~80ml/min
- Working conditions: temperature 0~40°C, humidity <80%
- Pump tube selection: silicone tube, PharMed®BPT tube
- Rollers: 4 rollers, 8 rollers
- Current: 1.2A
- Weight: 500g

Application Areas



Stool analysis and processing system



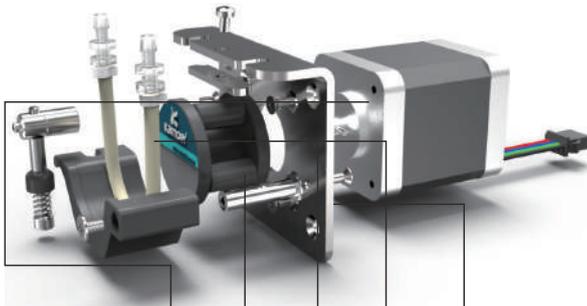
Vaginal secretion analyzer



Chemiluminescence detection platform



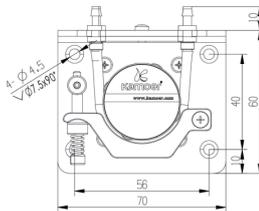
Reducing sugar analyzer



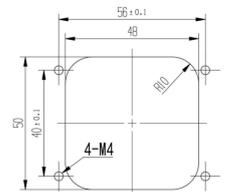
KCS PLUS-SL 4 B 06 A

Motor Rollers Pump tube Pump tube size Installation

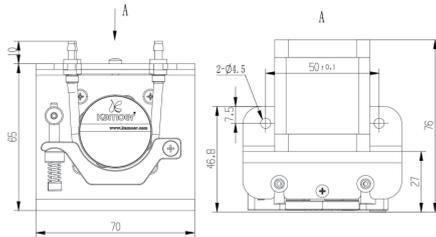
Outline dimension drawing of stepper motor straight board (A installation) Unit: mm



Stepper motor straight plate mounting plate opening size

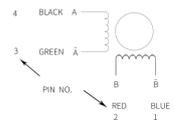


Outline dimension drawing of Z-shaped board of stepping motor (B installation method)



Stepper motor wiring diagram

Step angle 1.8° two-phase four-wire current 1.2A wiring length 400mm



EXCITING SEQUENCE(TWO PHASES) VS. DIRECTION OF ROTATION

STEP	A	B	A̅	B̅	CCW
1	+	+	-	-	↑
2	-	+	+	-	
3	-	-	+	+	
4	+	-	-	+	

CLOCK WISE VIEW FROM MOUNTING SIDE

Code		S04	S06	S10	B04	B06	B10	
ID*OD (mm)		1*3	2*4	3*5	1*3	2*4	3*5	
Pump tube		S	S	S	B	B	B	
Flow Rate (ml/min)	24V (SL)	4 Rotor	25	80	160	22	80	160
		8 Rotor	15	50	80	16	50	80
	12V (SM)	4 Rotor	20	75	155	20	70	150
		8 Rotor	12	45	65(400prmm)	12	40	60(400prmm)

Note 1: The above data is measured at standard atmospheric pressure, at 20 C, under 450rpm speed with pure water. The data is for reference only. The rate can be customized by demand.  
 Note 2: The stepper motor is different from the current under the same current conditions: Low Voltage, rough pump tube cannot get a higher speed, there may be out of step motor stall, otherwise there is no problem. Example 1: 12V voltage, 8 rotors, 3 \* 5 BPT tube can only be used under 400 rpm, may cause a step out if the speed rate is too high. Example 2: 24V voltage, 4 rotors, 1 \* 3 BPT tube can increase the speed to 500 or more.



Two kinds of stepper motor: 12V / 24V

Flow rate range: 11.5ml/min ~ 71.5ml/min

Working conditions: temperature 0 ~ 40 ° C, humidity < 80%

Pump tube selection: silicone tube, Pharmed? BPT tube

Pulsation: 3 rollers, moderate pulsation

Pump head: engineering plastics

Weight: 225 g

## Technical parameter

SE: 24 V Stepping motor SF: 12 V Stepping motor

Current: 0.75A

## Application Areas



Medical treatment



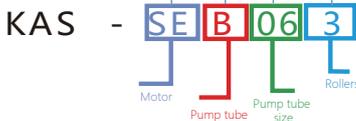
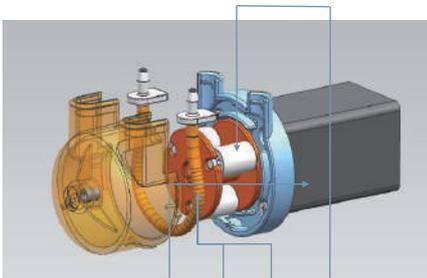
Experiment



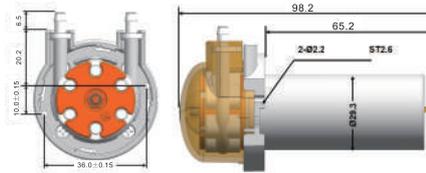
Food



Equipment



Stepper motor installation size diagram  
Unit: mm



Stepper motor wiring instructions

Phase line		Colour
A Phase line	A+	Red
	A-	Blue
B Phase line	B+	Green
	B-	Black

## Performance parameter table

Code		S04	S06	S08	S10	B04	B12	B06	B08
ID*OD (mm)		1x3	2x4	2.5x4.5	3x5	1x3	1.5x3.5	2x4	2.5x4.5
Pump tube material		S	S	S	S	BPT	BPT	BPT	BPT
Flow Rate (ml/min)	Stepper motor SE (24V) Stepper motor SF (12V)	≥12	≥27	≥44.8	≥71.5	≥11.5	≥23	≥27	≥42

Note: the above flow rate was measured at standard atmospheric pressure, KAS 250 RPM with pure water, actually, depend on the medium, the outlet pressure is different, the flow will have a certain error, the data as a reference.



- Two 42 stepper motors are available: 12V/24V
- Flow rate range: 3 rollers 45~85ml/min, 6 rollers 26-45ml/min
- Working conditions: ambient temperature 0~40°C, relative humidity <80%
- Pump tube selection: silicone tube, PharMed®BPT tube
- Rollers: 3 rollers, 6 rollers, two options
- Pump head: engineering plastic cover: high permeability PC plastic
- Low noise: Under 35dB ent, the operating noise is less than 53 dB at a distance of 50cm

### Technical parameter

ST: 24 V Stepper motor SU: 12 V Stepper motor  
Current: 1.2A

### Application Areas



Fast Solvent Extractor



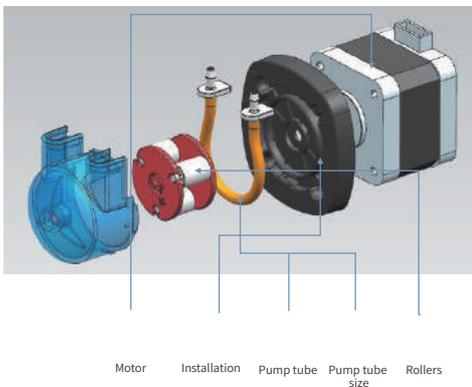
Ammonia nitrogen detector



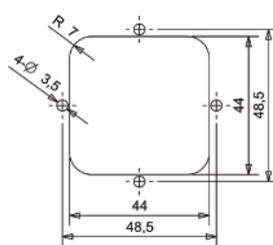
Precipitation sampler



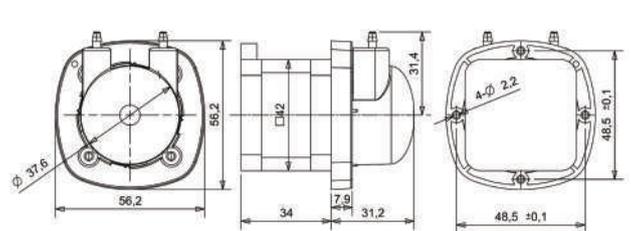
Urine Analyzer



Mounting plate hole size drawing  
Unit: mm



Dimensions



Code		S06	S08	S10	B06	B08	B10	
ID*OD (mm)		2X4	2.5X4.5	3X5	2X4	2.5X4.5	3X5	
Pump tube material		S	S	S	BPT	BPT	BPT	
Flow ml/min	24V Stepper motor (ST) Electric current 1.2A	3 Rotor	45	60	85	42	66	88
		6 Rotor	33	38	45	26	36	44
	24V Stepper motor (SU) Electric current 1.2A	3 Rotor	48	60	85	43	65	84
		6 Rotor	32	38	45	26	35	44

Note: The above flow parameters are under the condition of 42 stepping motor at 300rpm (if the speed is too high for a long time, the accumulated heat may affect the normal operation of the pump, so please use it below 300rpm for safety), 20°C room temperature standard atmospheric pressure Measured with pure water without pressure. Actually, depending on the medium and outlet pressure, there will be a certain error in the flow rate. The data is for reference only.

- 5 Kinds of DC motors are available: brushed 6V/12V/24V, brushless 12V/24V
- Flow rate range: DC brush 1~85ml/min, DC brushless 1.2~122ml/min
- Working conditions: temperature 0~40°C, humidity <80%
- Pump tube selection: silicone tube, PharMed®BPT tube, imported MasterFlex fluorine rubber tube
- Transmission mode: gear transmission, one slowdown 1:14, two slowdown 1:196.



The first-stage deceleration output speed is fast, focusing on large flow; the second-stage deceleration output speed is slow, focusing on micro-flow

- Pump head: The upper cover is made of high permeability PC plastic, and the pump body and gear are made of imported synthetic engineering plastics.
- Rotor: 3 Rotors, 6 Rotors

## Technical Parameters

Pump tube length: 135mm (exposed 30mm) BPT tube (B) Viton (V)  
175mm (exposed 50mm) Silicone tube (S)

## Application Areas



Ion chromatograph



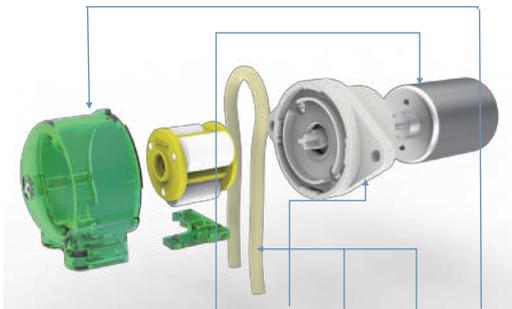
Automatic car washing machine



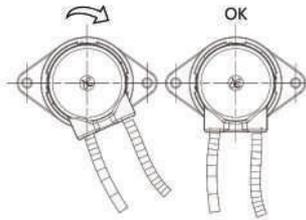
Blood analyzer



Hypochlorous acid water generator

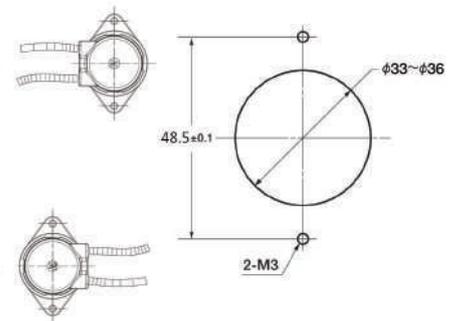


A schematic view of the pump head assembly  
Unit: mm



The direction of the pump tube (can be adjusted by yourself)

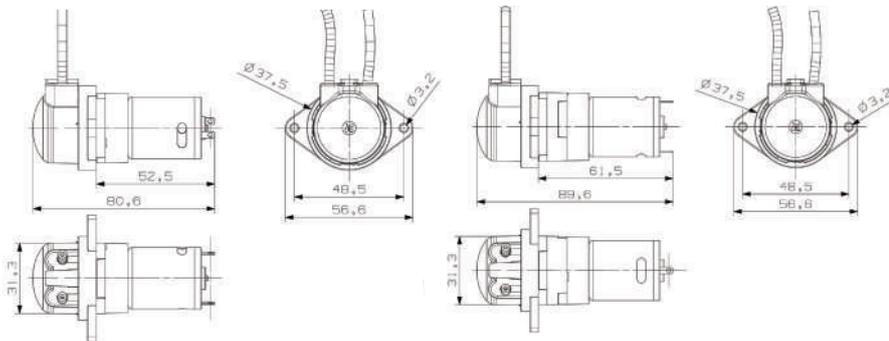
Mounting plate hole size



**KFS - HA 1 B 06 G**

电 Motor 号  
slowdown 级数  
泵管材料代号  
泵管口径  
泵管长度  
颜色代号

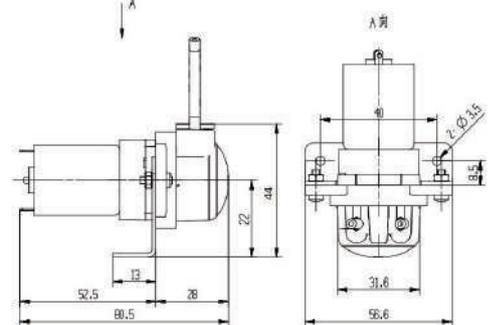
### Dimensions



One slowdown gear Dimensions

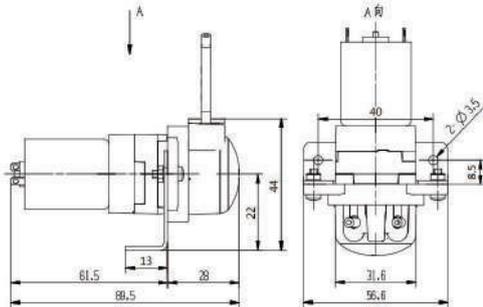
Two slowdown gear Dimensions

### Dimensions (brushed motor with sheet metal bracket) First deceleration

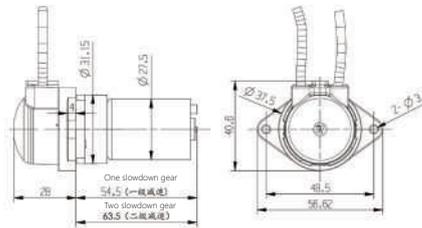




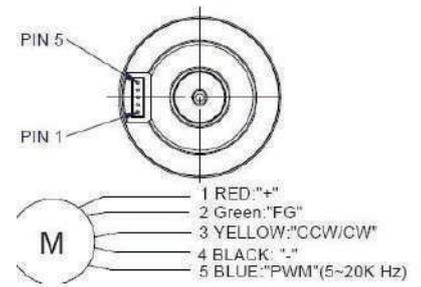
Two slowdown gear



Dimensions (brushless DC motor)



Brushless motor wiring diagram



### KFS Brushed Flow model selection

Code		S04	S06	S10	B04	B06	B10	V01	
OD*ID(mm)		1.0*3.3	2.0*4.0	3.0*5.0	1.0*3.3	2.0*4.0	3.0*5.0	2.54*4.24	
Materials		Silicon	Silicon	Silicon	BPT	BPT	BPT	Viton	
Flow rate(ml/min)	24V 0.2A (HA)	One slowdown gear	12ml/min	45ml/min	85ml/min	12ml/min	45ml/min	85ml/min	50ml/min
		Two slowdown gear	1ml/min	4ml/min	7ml/min	1ml/min	4ml/min	7ml/min	5ml/min
	12V 0.4A (HB)	One slowdown gear	12ml/min	45ml/min	85ml/min	12ml/min	45ml/min	85ml/min	50ml/min
		Two slowdown gear	1ml/min	4ml/min	7ml/min	1ml/min	4ml/min	7ml/min	5ml/min
	6V 0.6A (HC)	One slowdown gear	12ml/min	45ml/min	85ml/min	12ml/min	45ml/min	85ml/min	50ml/min
		Two slowdown gear	1ml/min	4ml/min	7ml/min	1ml/min	4ml/min	7ml/min	5ml/min
Ideal working conditions: Environmental temperature 0~40°C Relative humidity <80%									

Note: when the environmental noise is 35dB, the measured noise is 50dB at a distance of 50cm, and it is measured at 63dB for the attached product.

### KFS Brushless Flow model selection

Code		S04	S06	S10	B04	B06	B10	V01	
ID*OD(mm)		1*3	2*4	3*5	1*3	2*4	3*5	2.54*4.24	
Materials		Silicon	Silicon	Silicon	BPT	BPT	BPT	Viton	
Flow rate(ml/min)	24V 0.2A (HD)	One slowdown gear	12	65	116	18	56	122	70
		Two slowdown gear	1.2	4.5	8.3	1.3	4.3	8.5	6
	12V 0.35A (HE)	One slowdown gear	12	65	116	18	56	122	70
		Two slowdown gear	1.2	4.5	8.3	1.3	4.3	8.5	6
Tubing size: 135mm(30mm exposed)BPT tubing(B)fluorine tubing 175mm(50mm exposed)silicone tubing(S)(V) Ideal working conditions: Environmental temperature 0~40°C Relative humidity <80%  When the environmental noise is 48db, the full load of 60dB measured at 30cm reduces the speed of the pump head and sacrifice flow rates, the noise can be reduced.									



- Stepper motor voltage: 24V
- Flow rate range: 7~65ml/min
- Working conditions: temperature 0~40°C, relative humidity <80%
- Pump tube selection: silicone tube, PharMed®BPT tube, imported fluorine rubber tube
- Transmission mode: direct transmission by stepper motor.
- Pump head: the upper cover is made of high permeability engineering plastics
- Rollers: 3 rollers, 6 rollers

## Technical Parameters

The 28 stepper motor has a maximum speed of 250rpm and a current of 1A. When the environmental noise is 35dB, the measured distance is 50dB at a distance of 50cm, and it is measured at 63dB for the attached product.

## Application Areas



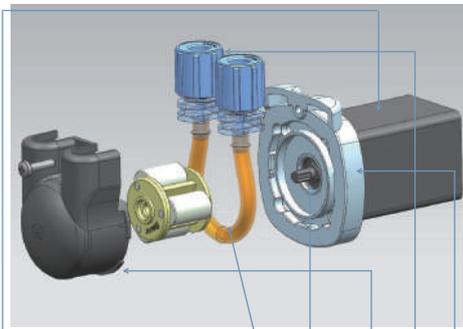
Drone spraying



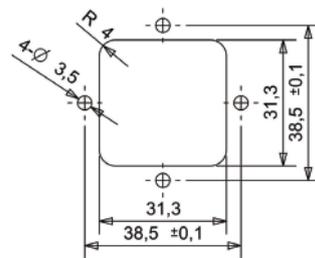
Mopping robot



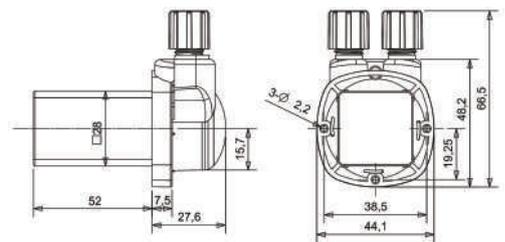
Sweeping robot



Mounting plate hole size  
Unit: mm



Dimensions



### Stepper motor 3 rollers

Pump tube code		S04	S06	S10	B04	B06	B10	V01	
ID*OD (mm)		1X3	2X4	3X5	1X3	2X4	3X5	2.54X4.24	
Pump tube		S	S	S	BPT	BPT	BPT	V	
Flow Rate (ml/min)	24V Motor (ST) Current 1A	Motor speed 1:1 output without deceleration	10	34	65	9	32	60	48

### Stepper motor 6 rollers

Model explanation		KFS-stepping/no deceleration/tube type/color/thread/interlock/rotor number	
Model		KFS-ST 0 B04 P S 1 6	
Pump tube code		B06	
ID*OD (mm)		1X3	
Pump tube material		BPT	
Flow Rate (ml/min)	24V Motor (ST) Current 1A	Motor speed 1:1 output without deceleration	7ml/min
		20ml/min	

Note: 28 stepping motor maximum speed 250rpm, current 1A; noise below 35dB, 50cm distance measured 50dB, posted product measured 63dB.

\*The above flow parameters are measured by pure water without pressure under the standard atmospheric pressure of 20 °C at room temperature. The reagents vary according to the medium, the outlet pressure is different, the DC motor speed error, etc., the flow will have a certain error, the data is for reference only, and according to customer needs custom made.

\* Due to the material characteristics, the fluorine rubber tube is placed in the pump head for a long period of time without the medium being inoperative, and the tube wall is stuck with a small probability, which may result in the inability to absorb liquid. If it has been stuck, you can remove the pump tube and pinch it to restore the flexibility of the pump tube. If it is left for a long time, it is necessary to retain liquid in the pump tube, which will prevent the above phenomenon.



- Two kinds of DC motors are available: 12V/24V
- Flow rate range: 12.5ml/min~155ml/min
- Working conditions: temperature 0~40°C, humidity <80%
- Pump tube selection: PharMed®BPT tube
- Pulsation: with three rollers, medium pulse
- Pump head: engineering plastic
- Connection type: parallel, series

Application Areas



Experiment



Print



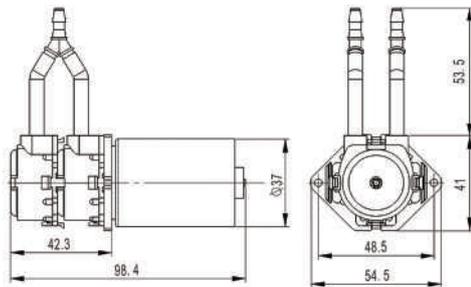
Environmental protection



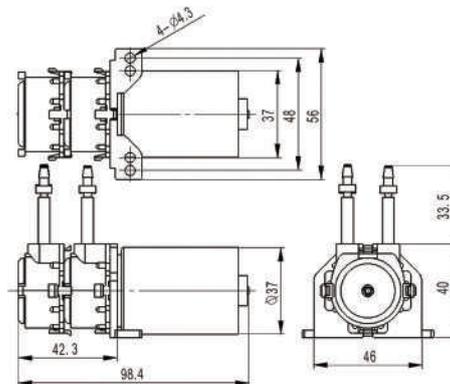
Equipment

Straight plate

Unit: mm



L plate



Tubing PharMed BPT	ID (Wall thickness 1)	Flow
24V DC In: 0.15—0.27 (A)	Φ (mm)	(ml/min)
KPP2-B04-24	1×3	≥25 Single head ≥12.5
KPP2-B06-24	2×4	≥80 Single head ≥40
KPP2-B10-24	3×5	≥155 Single head ≥77.5
Tubing PharMed BPT	ID (Wall thickness 1)	Flow
12V DC In: 0.3—0.5 (A)	Φ (mm)	(ml/min)
KPP2-B04-12	1×3	≥25 Single head ≥12.5
KPP2-B06-12	2×4	≥80 Single head ≥40
KPP2-B10-12	3×5	≥150 Single head ≥77.5



- Two kinds of stepping motors are available: 12V/24V
- Flow rate range: 3 rollers 44~670ml/min; 6 rollers 38~375ml/min
- Working conditions: ambient temperature 0~40°C, relative humidity <80%
- Pump tube selection: silicone tube, PharMed®BPT tube
- Rollers: 3 rollers, 6 rollers, the more the number of rotors, the higher the accuracy, the smaller the pulsation, and the smaller the flow
- Pump head: engineering plastics, machined parts are SUS304 stainless steel
- Multiple subdivisions are available: 1, 1/2, 1/4, 1/8, 1/16, 1/32, 1/64, 1/128

### Application Areas

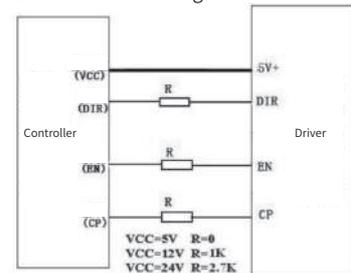


Water sampler

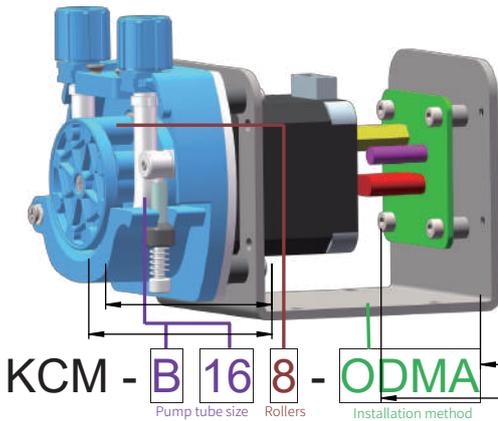


Blood cell analyzer

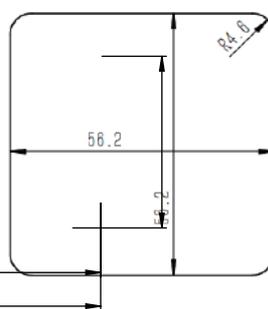
### Drive connection diagram



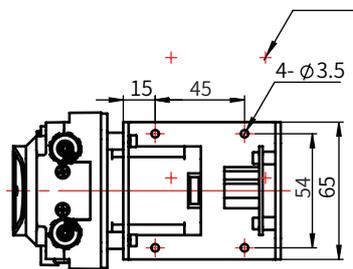
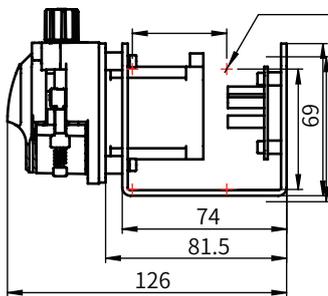
R is a series voltage limiting resistor. When the interface voltage of the controller is 5V, it is not necessary to connect R directly. When the interface voltage is 12V, please connect 1K resistor in series. When the interface voltage is 24V, please connect 2.7K resistor in series.



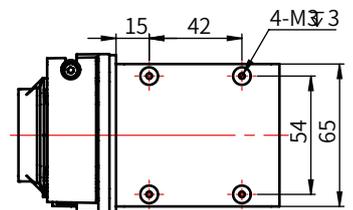
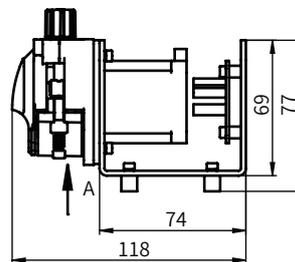
### Hole size drawing of wall-mounted plate



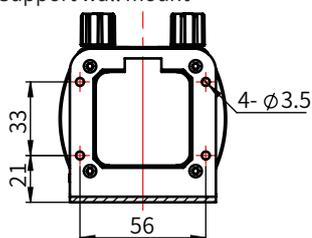
### ODMA



### ODMB



### Support wall mount





## Performance parameter table

Code			14	19	16	40	25
ID*OD(mm)			1.6×4.8	2.4×5.6	3.2×6.4	4.0×7.2	4.8×8.0
Pump tube material			B	B	B	S	B
Flow rate (ml/min)	24V @550RPM	3 Rollers	70	175	300	480	670
		6 Rollers	60	130	230	300	375
	12V @350RPM	3 Rollers	44	111	190	305	/
		6 Rollers	38	82	146	190	/
Current: 1.2A Working conditions: Ambient temperature: 0°C-40°C Relative humidity: <80%							

## Note:

1. The above flow parameters are measured at a standard atmospheric pressure of 20 °C at room temperature, 30 minutes after aging of the new tube, 24 V @ 450 RPM / 12 V @ 350 RPM, measured with pure water without pressure, actual outlet pressure, assembly tolerance, etc. There will be some error in the flow, and the data is for reference only.
2. The stepping motor is different from the current. Under the same current condition: the low voltage, the high number of rotors, the rough pump tube can not obtain higher speed, there may be the possibility that the motor is out of step, and vice versa. For example: 12V voltage, 8 rotor, 3\*5BPT tube intelligence is used below 400 rpm, if the speed is too high, it will lose the step. For example: 24V voltage, 4 rotors, 1\*3BPT can also be used to increase the speed to above 500.
3. The life of the pump tube is closely related to the speed. The higher the speed, the shorter the life of the pump tube. Therefore, when the accuracy can be satisfied, try to select the large pump tube and low speed. It is recommended that the pump work at 400RPM.





## Performance parameter table

Code			14	19	16	40	25
ID*OD(mm)			1.6×4.8	2.4×5.6	3.2×6.4	4.0×7.2	4.8×8.0
Pump tube material			B	B	B	S	B
Flow rate (ml/min)	24V @550RPM	3 Rollers	70	175	300	480	670
		6 Rollers	60	130	230	300	375
	12V @350RPM	3 Rollers	44	111	190	305	/
		6 Rollers	38	82	146	190	/
Current: 1.2A Working conditions: Ambient temperature: 0°C-40°C Relative humidity: <80%							

## Note:

1. The above flow parameters are measured at a standard atmospheric pressure of 20 ° C at room temperature, 30 minutes after aging of the new tube, 24 V @ 450 RPM / 12 V @ 350 RPM, measured with pure water without pressure, actual outlet pressure, assembly tolerance, etc. There will be some error in the flow, and the data is for reference only.
2. The stepping motor is different from the current. Under the same current condition: the low voltage, the high number of rotors, the rough pump tube can not obtain higher speed, there may be the possibility that the motor is out of step, and vice versa. For example: 12V voltage, 8 rotor, 3\*5BPT tube intelligence is used below 400 rpm, if the speed is too high, it will lose the step. For example: 24V voltage, 4 rotors, 1\*3BPT can also be used to increase the speed to above 500.
3. The life of the pump tube is closely related to the speed. The higher the speed, the shorter the life of the pump tube. Therefore, when the accuracy can be satisfied, try to select the large pump tube and low speed. It is recommended that the pump work at 400RPM.



- Motor: 24V 42 stepping motor
- Flow rate range: 3 rollers 70~300ml/min, 6 rollers 55~250ml/min
- Working conditions: temperature 0~40°C, humidity <80%
- Pump tube selection: silicone tube, PharMed®BPT tube
- 3 Rollers, 6 Rollers, the more the number of rotors, the higher accuracy, the smaller pulsation, and the smaller flow
- Pump head: buckle shell and synchronization disc are made of hard aluminum alloy, the sheet metal is Q235-A sprayed, the machined parts are SUS304 stainless steel, and the joint material is PP
- Current: 1.2A

### Application Areas



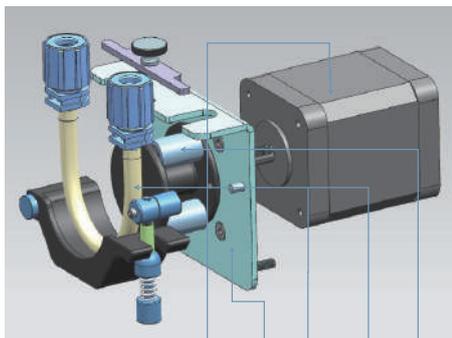
Stool analyzer



Programmable welding angle machine



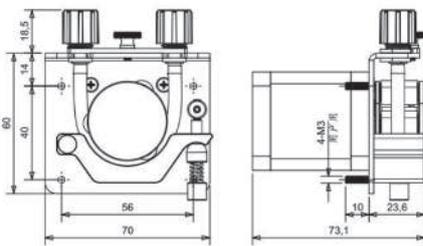
Brightener detector



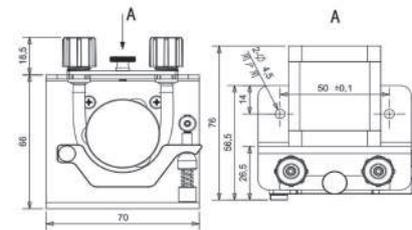
**KCS3 - SA - A - B14 3**

Motor Installation Pump tube Pump tube size Rotor

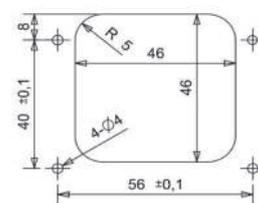
Straight step size drawing of stepper motor (A mounting method)



Stepper motor Z-shaped form factor drawing (B mounting method)

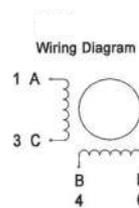


Opening size



Stepper motor wiring diagram

Step angle 1.8° two-phase four-wire current 1.2A wiring length 400mm



Pin No. vs. Lead Wire Colour

PHR-6 PIN No.	Colour	XHP-4 PIN No.
1	BRN	3
3	ORG	4
4	RED	1
6	YEL	2

Code		B13	B14	B19	S16	
ID*OD(mm)		1.6X4.8	2.4X5.6	3.2X6.4	4.0X7.2	
Pump tube material		BPT	BPT	BPT	S	
Flow rate (ml/min)	24V (SA)	3 Rotor	70	120	225	300
		6 Rotor	55	105	155	250

Note: The above flow parameters are measured at 20°C room temperature and standard atmospheric pressure, 450rpm speed, with pure water without pressure. Actually, according to different media, different outlet pressures, assembly tolerances, etc., there will be some errors in the flow rate. The data is for reference.



- Three kinds of DC motor : 6V/12V/24V
- Flow rate range: 2ml/min~80ml/min
- Working conditions: temperature 0~40°C, humidity <80%
- Pump tube selection: silicone tube, PharMed®BPT tube
- Transmission mode: star type friction reduction transmission
- Pump head: engineering plastic
- Installation method: fixed through the board

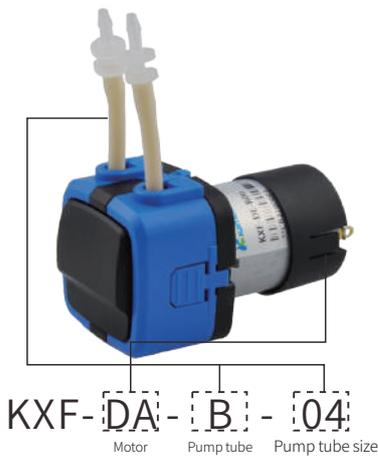
Application Areas



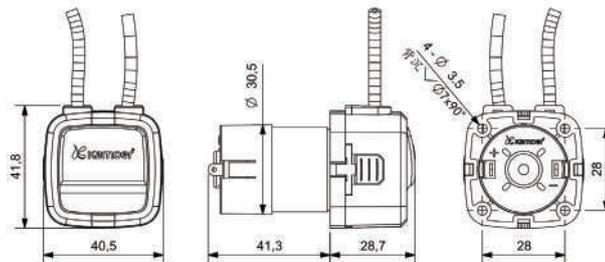
Chemiluminescence analyzer



Trace element analyzer



Dimensions  
Unit: mm



Code		S01	S02	S04	S06	S08	S10	B04	B12	B06	B08
ID*OD(mm)		0.4*3	0.6*3	1*3	2*4	2.5*4.5	3*5	1*3	1.5*3.5	2*4	2.5*4.5
Materials		s	s	s	s	s	s	BPT	BPT	BPT	BPT
Flow rate	DA (24V) 0.12A	≥2	≥4	≥10	≥38	≥59	≥75	≥11	≥21	≥34	≥48
	DC (12V) 0.25A	≥2.6	≥4.5	≥10	≥37	≥55	≥70	≥10	≥22	≥33	≥47
	DE (6V) 0.53A	≥3	≥5	≥10.5	≥36	≥60	≥80	≥11	≥25	≥38	≥48

Note: The above flow parameters are measured with pure water pressure at 20°C room temperature standard pressure. Actually, depending on the medium, the output pressure is different, the DC motor speed error, etc., the flow will have a certain error, the data is based on For reference, the current value is the thickest tube reference current, which is actually affected by the head, viscosity, and the length of the water inlet and outlet!



- One type of DC gear motor is optional: 3.7V
- Flow rate range: 1~1.8ml/min
- Working conditions: temperature 0~40°C, humidity <80%
- Pump tube selection: silicone tube
- Transmission mode: DC geared motor drive
- Pump head: the pump casing is made of PP plastic, and the internal moving parts are made of POM plastic
- Current: 0.1A

## Application Areas



Experiment



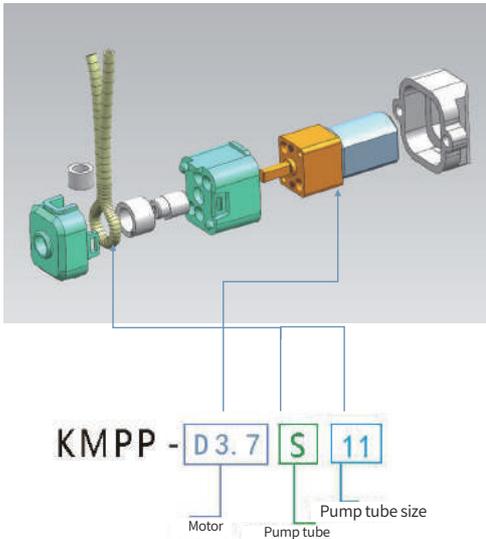
Chemical Medicine



Research institutions

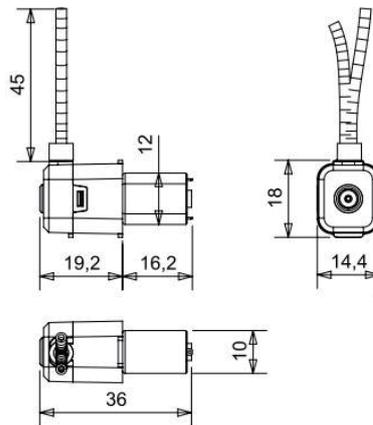


Electronic chip

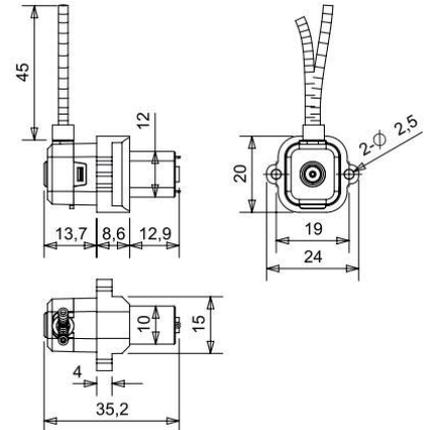


### Dimensions

Unit: mm



### Dimensions with rubber shock mount



## Performance parameter table

ID*OD(mm)		2x3
Pump tube material		S (Silicone)
Flow rate (ml/min)	(3.7V) 0.1A	≈ 1.8 ml/min (100rpm)

Note 1: This motor needs to work under the rated voltage. Because the deceleration is relatively large, the motor speed is more than 10,000 rpm, and the motor brushes wear quickly, so the overall continuous test life is 50 hours. If the life expectancy is higher, please be careful Optional.

Note 2: The above flow parameters are measured with pure water without pressure at 20°C room temperature and standard atmospheric pressure. Actually, according to different media, different outlet pressures, DC motor speed errors, etc., the flow will have certain errors. The data is for reference. The current value is the thickest tube reference current, which is actually affected by the head, viscosity, and the length of the water inlet and outlet!



- 2 kinds of 57 stepper motors are available: 12V/24V
- Flow rate range: 1300~1800ml/min
- Working conditions: temperature 0~40°C, humidity <80%
- Pump tube selection: silicone tube
- Transmission mode: the motor shaft is directly driven, the motor rotates once, and the pump head rotates once
- Pump head: the upper cover is made of PC plastic, and the pump body is made of PA engineering plastic
- Installation method: fixed through the board

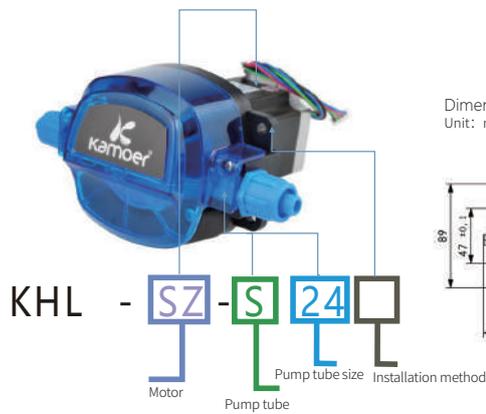
Application Areas



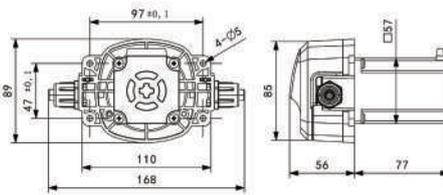
Small online water quality monitor



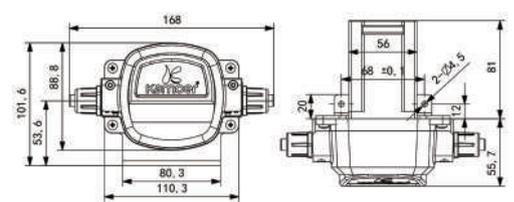
Juice Drink Machine



Dimensions (through board installation method)  
Unit: mm

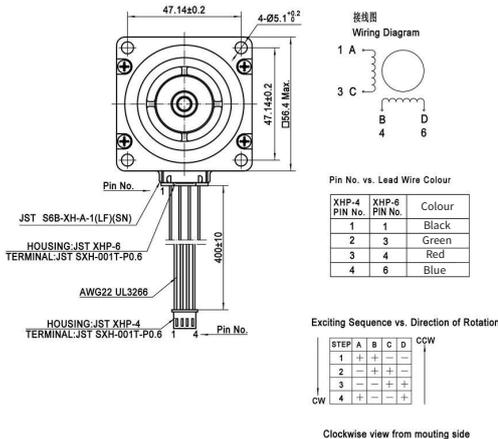


Dimensions (L-board installation method)



Stepper motor wiring diagram

Step angle 1.8° two-phase four-wire current 1.8A wiring length 400mm  
Connect client sub-model JXT XHP-4 (pin 2.54 pitch)



Code		24#	35#	18#
ID*OD(mm)		6.4*11.4	7.9*12.7	7.9*11.1
Materials		S	S	BPT
Flow rate	24V, 12V Stepper motor (SZ) 1.8A	1300ml (350rpm)	1800ml (350rpm)	1800 ml (350rpm)
		3 Rollers		

Note 1: Due to the relatively hard 18# BPT pipe, thin wall thickness and motor torque, the pump pipe cannot be over-preloaded. The use of a single pump may have some backflow phenomenon. If the requirement for backflow is high, it needs to be combined with one-way Valve use!

Note 2: The above flow parameters are measured with pure water without pressure at 20°C room temperature and standard atmospheric pressure. Actually, according to different media, different outlet pressures, DC motor speed errors, etc., the flow will have certain errors. The data is for reference. The accuracy error of different individual flows is within 5%.

The repetition accuracy is within 2%. This accuracy is a conservative data. The size of the test pump tube, the viscosity of the liquid, and the suction head are different. The actual application shall prevail.

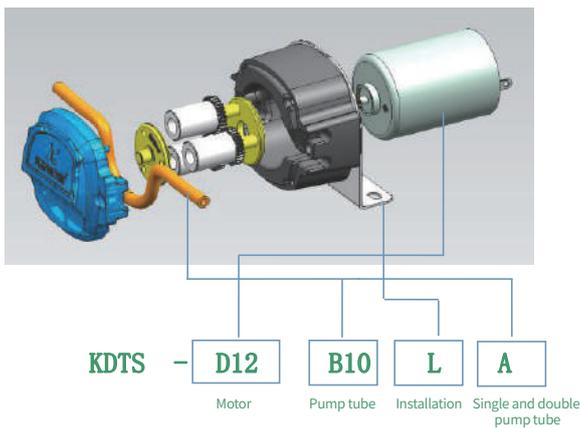


- Two kinds of DC motors are available: 12V/24V
- Flow rate range: 32~73ml/min
- Working conditions: temperature 0~40°C, humidity <80%
- Pump tube selection: silicone tube
- Transmission mode: single-stage planetary gear transmission
- Pump head: The pump head is made of PC plastic, and the internal moving parts are POM plastic
- Current: 0.4A/0.2A

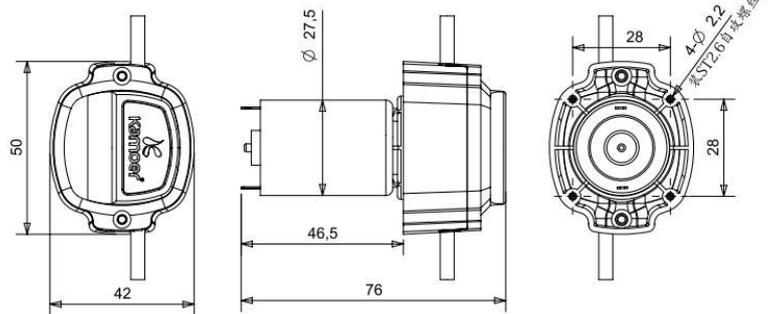
## Application Areas



Fuel stoves



Dimensions (through board installation method)  
Unit: mm



		Single pump tube flow rate			
Code		S06	B06	S10	S10
ID*OD(mm)		2*4	2*4	3*5	3*5
Materials		S	BPT	S	BPT
Flow rate ml/min	(24V) 0.2A	35	32	73	70
	(12V) 0.4A	35	32	73	70

Note: The above flow parameters are measured with pure water without pressure at 20°C, room temperature and standard atmospheric pressure. Actually, according to different media, different outlet pressures, DC motor speed errors, etc., the flow will have certain errors. The data is for reference, and the current value is The reference current of the thickest tube type is actually affected by the head, viscosity, and the length of the water inlet and outlet!



- 4 types of DC motors are available: DC brushed 12V/24V DC brushless 12V/24V
- Flow rate range: 12V200~260ml/min, 24V200~260ml/min
- Working conditions: temperature 0~40°C, humidity <80%
- Pump tube selection: silicone tube, imported Norprene® tube
- Transmission mode: planetary gear transmission, reduction ratio 1:8
- Pump head: the upper cover is made of engineering plastics, the pump body PA and gears are made of synthetic engineering plastics
- Installation method: through plate fixing and L plate installation

Application Areas



Urine formed element analyzer



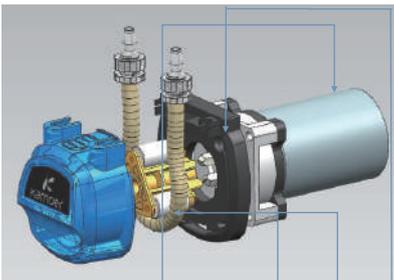
Coagulation Analyzer



Fluorescence immunoassay analyzer

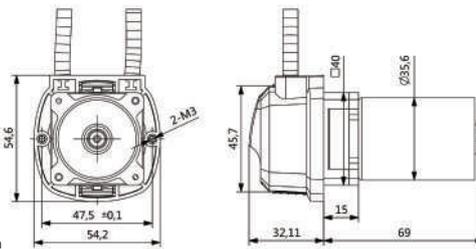


Automatic floor scrubbing machine

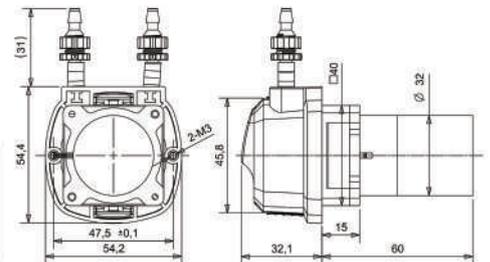


KHS - **SV** **3** **N** **16** **□**  
 Motor Roller Pump tube size Installation method

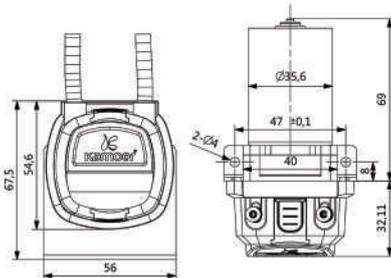
DC Brushed(Board mounting method)  
Unit: mm



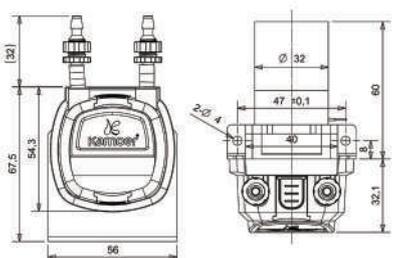
DC Brushless(Board mounting method)



DC Brushed (L board installation method)



DC Brushless(L board installation method)



Code		S16	S40	N16	N40
ID*OD(mm)		3.2*6.4	4*7.2	3.2*6.4	4*7.2
Materials		S	S	Norprene	Norprene
Flow rate ml/min	24V Brushed motor (SV) 0.4A	3 Rollers 210	260	200	260
	12V Brushed motor (SW) 0.8A	3 Rollers 210	260	200	260
	24V Brushless Motor (24B) 0.3A	3 Rollers 210	260	200	260
	12V Brushless Motor (12B) 0.6A	3 Rollers 210	260	200	260

Note: The above flow parameters are measured with pure water without pressure at 20°C, room temperature and standard atmospheric pressure. Actually, depending on the medium, outlet pressure, DC motor speed error, etc., there will be certain errors in the flow rate. The data is for reference.





			Single pump tube flow	Single pump tube flow
Code			S40	N40
ID*OD(mm)			4*7.2	4*7.2
Materials			S	Norprene
Flow rate ml/min	24V Brushed motor (D24) 0.6A	3 Rotor	460	450
	12V Brushed motor (D12) 1.1A	3 Rotor	450	440
	24V Stepper motor (ST) 1.8A	3 Rotor	245 (200rpm)	240 (200rpm)

Note: The above flow parameters are measured with pure water without pressure at 20°C room temperature and standard atmospheric pressure. Actually, depending on different media, different outlet pressures, and DC motor speed errors, there will be certain errors in the flow rate. The data is for reference.



- Motor : 24V stepper motor
- Flow rate range: 540~620ml/min
- Working conditions: temperature 0~40°C, humidity <80%
- Pump tube selection: silicone tube, PharMed®BPT tube
- Transmission mode: the motor drives the pump head material
- Pump head: the rotating part PA plastic, and the housing and motor of nylon plastic
- Installation method: fixed through the board

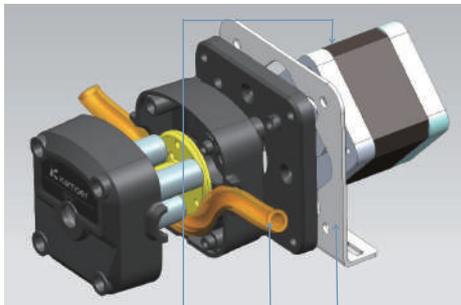
### Application Areas



Drum cooking machine



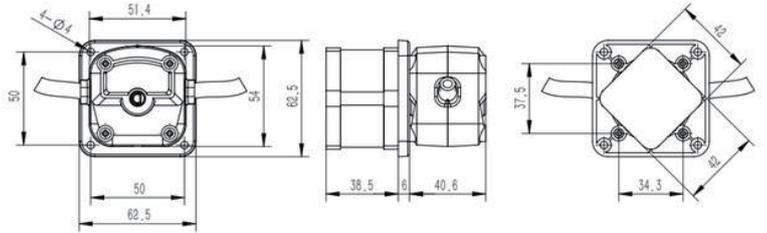
Hydrogen peroxide sterilizer



**EPST** - **ST** **B25** **L**  
Motor Pump tube type

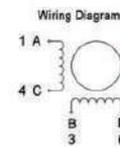
### Dimensions

Unit: mm



### Stepper motor wiring diagram

Step angle 1.8° two-phase four-wire wiring length 400mm



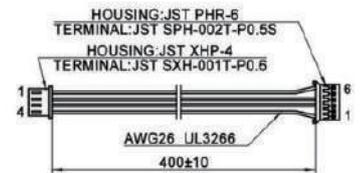
### Pin No. vs. Lead Wire Colour

PHR-6 PIN No.	XHP-4 PIN No.	Colour
1	1	Black
3	3	Red
4	2	Green
6	4	Blue

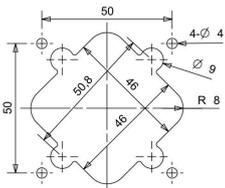
### Exciting Sequence vs. Direction of Rotation

STEP	A	B	C	D	CPW
1	+	+	-	-	
2	-	+	+	-	
3	-	-	+	+	
4	+	-	-	+	

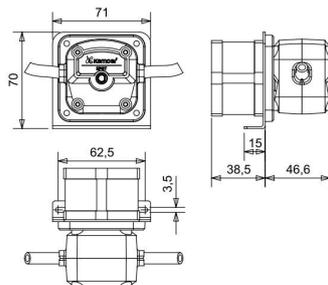
Clockwise view from mounting side



### Suggested hole size drawing



### Dimensions of sheet metal



Code		B25	S28
ID*OD(mm)		4.8x8	5x8.2
Materials		BPT	S
Flow rate ml/min	ST (24V) 1.5A	540ml (500rpm)	620ml (500rpm)

Note: The above flow parameters are measured with pure water without pressure at 20°C room temperature and standard atmospheric pressure. Actually, depending on the medium and outlet pressure, there will be a certain error in the flow rate, the data is for reference. Current data is measured based on the thickest tube. It is affected by the viscosity, and the distance of liquid, it is necessary to perform uniform acceleration and deceleration when controlling the stepper motor. There is a risk of out of step when directly reaching the highest speed!



- 5 kinds of motors are available: synchronous geared motor (FA), stepper motor (FB), AC hood-level motor (FD) 24v/12v DC brushed motor (FC/FE)
- Flow rate range: synchronous motor 100~110ml/min, stepper motor 5~600ml/min, DC motor 340~380ml/min
- Working conditions: ambient temperature 0~40°C, relative humidity <80%
- Pump tube selection: silicone tube, PharMed®BPT tube, imported Norprene® tube
- Transmission mode: The main working parts are 2 movable rotors. Both ends of the movable rotor are equipped with self-adaptive springs to ensure that the outlet pressure is not changed by the degree of wear and tear of the pump tube. It can also pump liquids containing fine particles, avoiding the easy fixation of the rotor.
- Pump head: pump body structural parts are made of high-strength synthetic engineering plastics, and all metal parts are made of high corrosion resistance Corrosive stainless steel, the bearing adopts are imported .
- Installation method: bracket fixing and veneer plate fixing

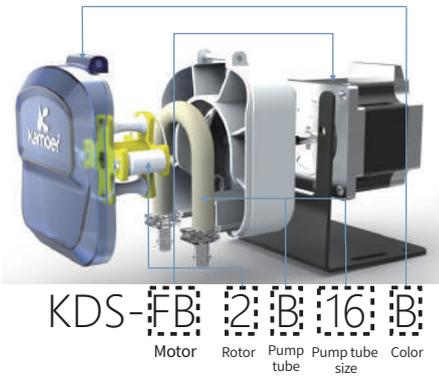
Application Areas



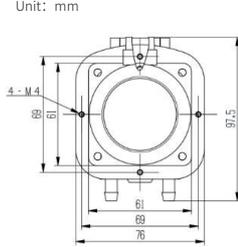
Drum cooking machine



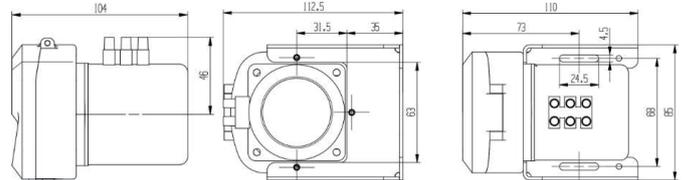
Hydrogen peroxide sterilizer



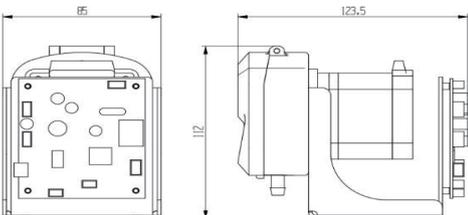
AC synchronous motor version installation diagram 1  
 Unit: mm



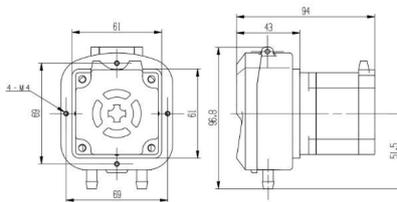
AC synchronous motor version installation diagram 2 (With bracket)



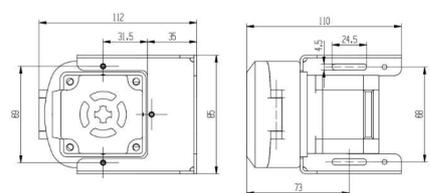
Stepper motor version installation diagram 1  
 (including bracket and circuit board)



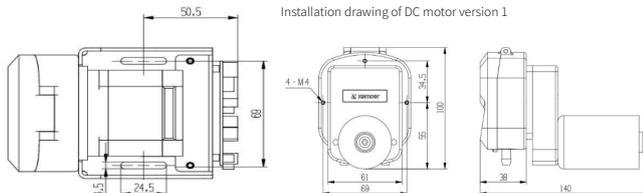
Stepper motor version installation diagram 2



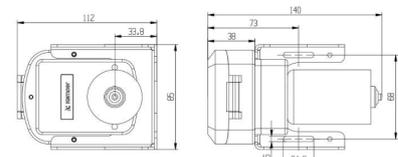
Stepper motor version installation diagram 3 (including bracket)



Installation drawing of DC motor version 1

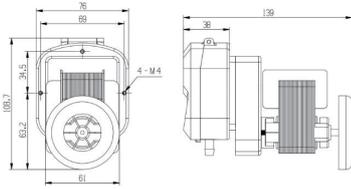


DC motor version installation diagram 2 (including bracket)

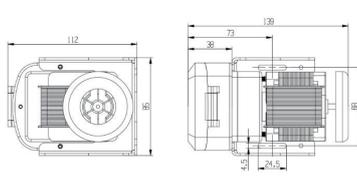




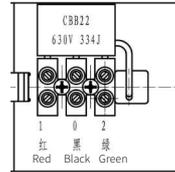
Shaded Pole Motor Wiring diagram



Shaded Pole Motor Wiring diagram (With bracket)



Synchronous Motor Wiring diagram



口接线图  
Counterclockwise 1---0 逆时针  
Clockwise 2---0 顺时针

Stepper motor wiring instructions (step angle 1.8°)

		Colour
A Phase line	A+	Black
	A-	White
B Phase line	B+	Yellow
	B-	Green

Warning: Because the KDS series will involve 220V AC high voltage and precision electronic circuits, in order to ensure your life safety and the correct and safe use of the peristaltic pump, the wiring must be completed by professionals! If you have any questions, please consult the customer service staff at any time, thank you!

Project \ Motor	Synchronous Motor	Stepper motor	DC motor	Shaded Pole Motor
Model	FA	FB	FC/FE	FD
Voltage	AC220V/50Hz	DC24V	DC24V/DC12V	AC220V/50Hz
Current	0.07A	1.8A max	0.28A/0.56A	0.45A
Temperature	≤80°C	≤55°C	≤35°C	≤75°C
Speed	100rpm	1-400rpm	300rpm	300rpm
Net weight	≈0.93kg	≈1.03kg	≈0.75kg	≈1.31kg
2 Rollers 3.2*6.4 (B16) PharMed®BPT ml/min	100	5~440 (400rpm)	340	300
2 Rollers 3.2*6.4 (N16) Norprene ml/min	100	5~440 (400rpm)	340	300
2 Rollers 3.2*6.4 (S16) Silicone tube ml/min	110	5~600 (500rpm)	380	380

Note: The above flow parameters are measured with pure water without pressure at 20°C, room temperature and standard atmospheric pressure. Actually, depending on the medium, outlet pressure, DC motor speed error, etc., there will be certain errors in the flow rate. The data is for reference.



- Three kinds of motors are available: 12V/24V DC motor, stepper motor
- Flow rate range: 12V DC motor  $\leq 1240\text{ml/min}$ , 24V DC motor  $\leq 1300\text{ml/min}$ , stepper motor  $\leq 1600\text{ml/min}$
- Working conditions: temperature  $0\sim 40^{\circ}\text{C}$ , humidity  $<80\%$
- Pump tube selection: silicone tube, PharMed®BPT tube
- Transmission mode: DC motor transmission mode is multi-stage gear transmission, reduction ratio 1:20
- Pump head: The pump head is made of PC plastic, and the pump body and gears are made of synthetic engineering plastics.
- Installation method: Straight plate and L plate

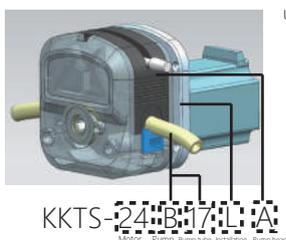
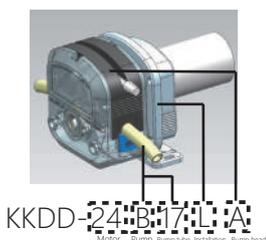
Application Areas



Drum cooking machine

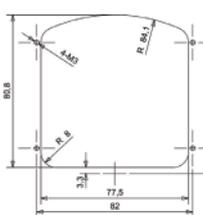


Hydrogen peroxide sterilizer

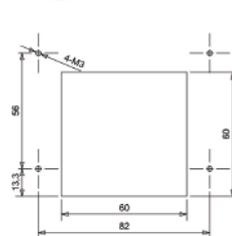


KKDD Straight plate reference hole size

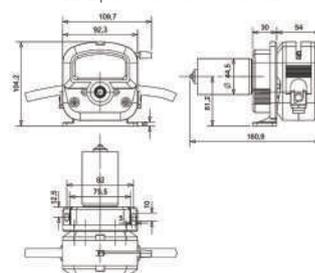
Unit: mm



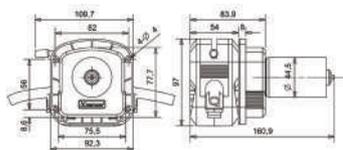
KKTS Straight plate reference hole size



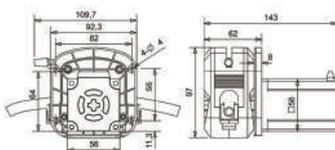
KKDD L plate installation method



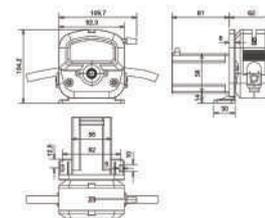
KKDD Straight plate size chart



KKTS Straight plate size chart



KKTS L plate installation method



Code		S40	S25	S17	S18	B40	B25	B17	
ID*OD(mm)		4*7.2	4.8*8.0	6.4*9.6	7.9*11.1	4*7.2	4.8*8.0	6.4*9.6	
Materials		S	S	S	S	BPT	BPT	BPT	
Flow rate ml/min	DC Brushed	24V 0.6A	440	600	1000	1300	440	600	860
	KKDD	12V 1.2A	440	570	900	1240	410	560	800
	24V Stepper motor KKTS	1.8A	420	650	1100	1600	420	650	1000

Note: The above flow parameters are measured with pure water without pressure at 20°C room temperature and standard atmospheric pressure. Actually, according to different media, different outlet pressures, DC motor speed errors, etc., the flow will have certain errors. The data is for reference.



- 4 kinds of motors are available: 24V/12V DC brush motor and brushless motor
- Flow rate range: 12V330~560ml/min, 24V340~580ml/min
- Working conditions: temperature 0~40°C, humidity <80%
- Pump tube selection: silicone tube, imported Norprene® tube
- Transmission mode: planetary gear transmission, reduction ratio 1:8
- Pump head: the upper cover is made of engineering plastics, the pump body PA and gears are made of synthetic engineering plastics
- Installation method: Straight plate and L plate

## Application Areas



Automatic washing machine



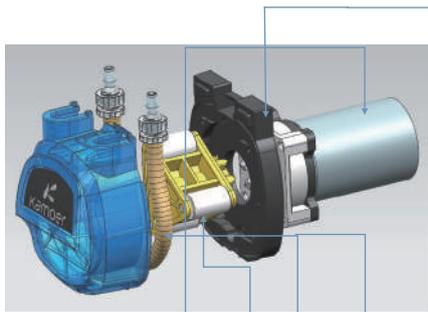
Ammonia nitrogen automatic monitor



Total phosphorus automatic monitor



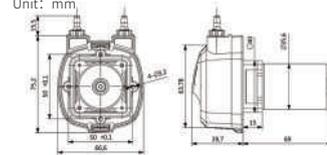
Soil analyzer



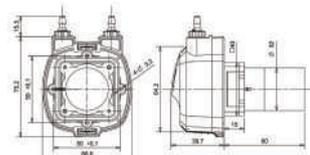
KHM-SV 3 N 16

Motor    Rollers    Pump tube    Pump tube size    Installation method

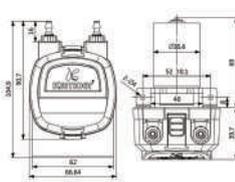
DC Brushed(Straight plate mounting method)



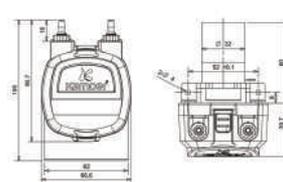
DC Brushless(Straight plate mounting method)



DC Brushed(L plate installation method)



DC Brushless(L plate installation method)

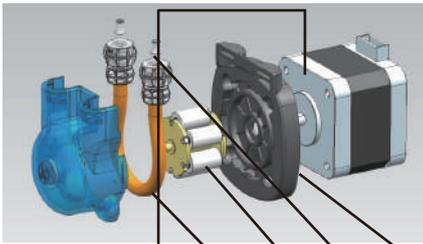


Code			S16	S40	N16	N40
ID*OD(mm)			3. 2*6. 4	4*7. 2	3. 2*6. 4	4*7. 2
Materials			Silicone	Silicone	Norprene	Norprene
Flow rate ml/min	24V Brushed (SV) 0.4A	3 Rollers	360	580	340	530
	12V Brushed (SW) 0.8A	3 Rollers	350	540	330	500
	24V Brushless (24B) 0.3A	3 Rollers	350	560	350	560
	12V Brushless (12B) 0.6A	3 Rollers	350	560	350	560

Note: The above flow parameters are measured with pure water without pressure at 20°C room temperature and standard atmospheric pressure. Actually, according to different media, different outlet pressures, DC motor speed errors, etc., the flow will have certain errors. The data is for reference.

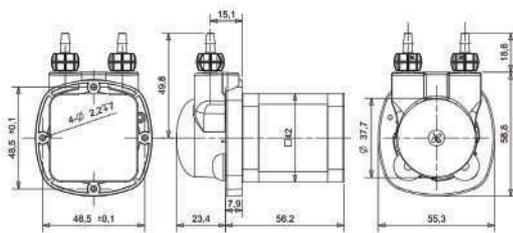


- 1 kinds of stepping motor:42 stepper motor (24V/1.2A)
- Flow rate range:20-110ml/min
- Working conditions:Ambient temperature 0-40°C , relative humidity <80%
- Pump pipe selection :silicone tube,imported PharMed BPT tube
- Transmission mode :the motor drives the pump head directly to output
- Installation mode: the installation mode is fixed through the plate

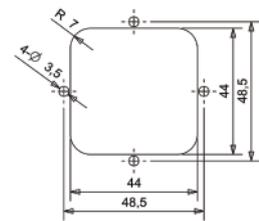


KPAS100-**ST**-**B19**-**6**-**A**-**A**  
 Motor selection Pump tube selection Number of rotors Connector selection Installation method

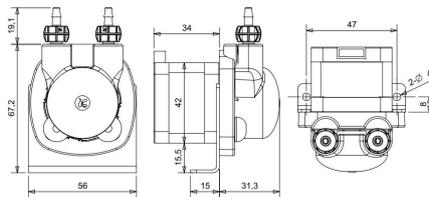
Dimensions (unit: mm)



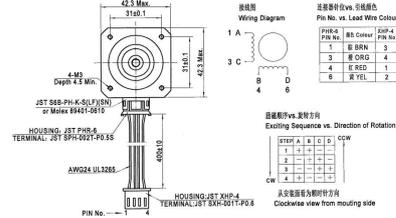
Suggested hole size drawing



Suggested hole size drawing



Wire Harness Specification and Wire Color Diagram

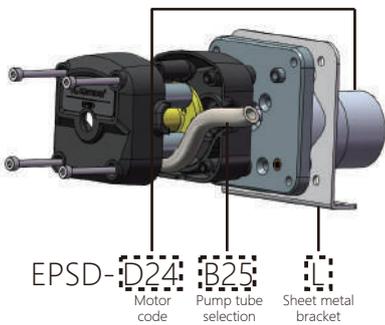


Pump tube code	B14		B19		B16
Inner diameter*outer (mm)	1.6x4.8		2.4x5.6		3.2x6.4
Pump tube material	S/BPT		S/BPT		S/BPT
Number of rotors	3	6	3	6	3
Flow rate ml/min	32	20	70	40	110
Rotating speed rpm	350rpm				
Voltage and current	24V/1.2A				

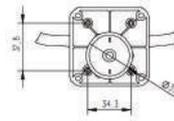
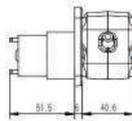
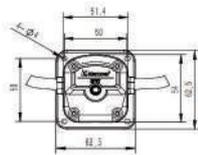
Note: The above flow parameters are measured with pure water without pressure at 20 degrees Celsius, room temperature and standard atmospheric pressure. Actually, depending on the medium and outlet pressure, there will be a certain error in the flow rate. The data is used as a reference. The current value is the input current and the actual head, Viscosity, and the length of the water inlet and outlet, it is necessary to do uniform acceleration and deceleration when controlling the stepper motor, there is a risk of loss of step when directly reaching the highest speed



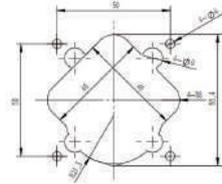
- 1 type of DC motor: 24V DC geared motor
- Flow rate range: 270~330ml/min
- Main material: The rotating part is made of PA plastic, and the housing and motor seat are made of nylon plastic
- Pump tube selection: silicone tube, imported PharMed BPT tube
- Transmission mode: The transmission mode is that the motor drives the pump head to output after transmission through the gearbox
- Main material: The rotating part is made of PA plastic, and the housing and motor seat are made of nylon plastic
- Installation method: The installation method is fixed through the board



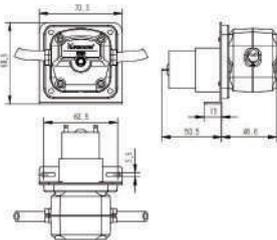
Dimensions (unit: mm)



Suggested hole size drawing

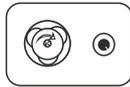


Dimensional drawing of sheet metal



Pump tube code		B25	S28
Inner diameter*outer (mm)		4.8x8	5x8.2
Pump tube material		BPT	S
Flow rate ml/min	Rotating speed rpm	32	110

Note: The above flow parameters are measured with pure water without pressure at 20 degrees Celsius, room temperature and standard atmospheric pressure. Actually, depending on the medium and outlet pressure, there will be a certain error in the flow rate. The data is used as a reference. The current value is the tube-type reference current. Influence of head, viscosity, length of inlet and outlet



- Low cost adjustment of flow rate
- Convenient and quick replacement of pump tube
- Low noise, small space occupation
- Simple structure, maintenance-free
- With three rollers, moderate pulsation
- Liquid transfer direction can be changed
- Flow rate range: 2.6~65ml/min

Application Areas

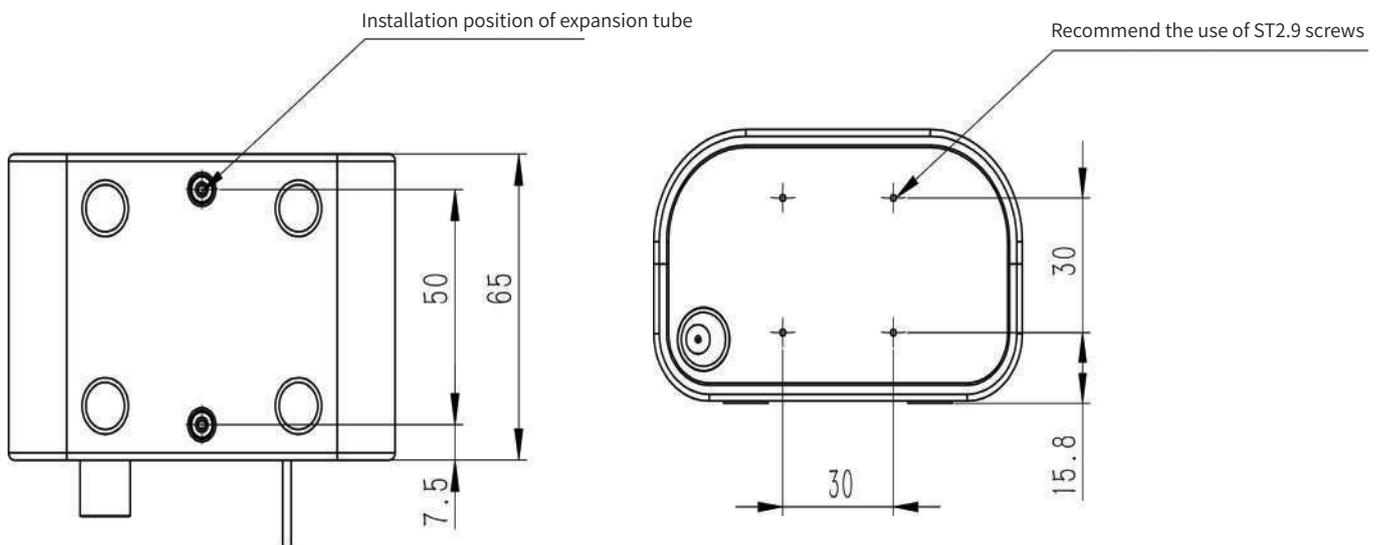


Pipeline liquid addition



Laboratory doser

Dimensional drawing  
Unit: mm



Code	S02	S04	S06	S08	S10	B06	B08
ID*OD(mm)	0.6×3.0	1.0×3.3	2.0×4.0	2.5×4.5	3.0×5.0	2.0x4.0	2.5x4.5
Materials	Silicone	Silicone	Silicone	Silicone	Silicone	BPT	BPT
Flow rate ml/min	2.6~4	4~14	11~34	17~50	19~65	9.3~32	14.6~41.5

Parameter

Weight: about 185 g

Pump tube length: 135mm (exposed 29.5mm) Code-B

175mm (exposed 49.5mm) Code-S

Working conditions: ambient temperature 0~40°C relative humidity <80%



- Low cost adjustment of flow rate
- Convenient and quick replacement of pump tube
- Low noise, small space occupation
- Simple structure, maintenance-free
- With three rollers, moderate pulsation
- Flow rate range: 2.6~65ml/min

## Application Areas



Equipment



Research institutions



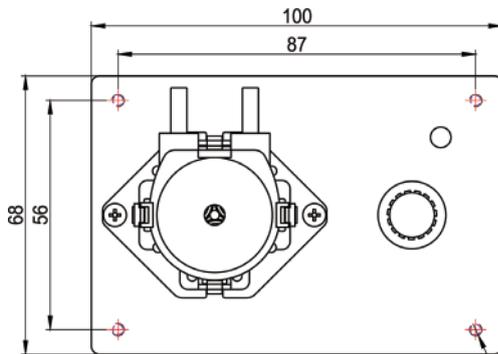
Aquarium fish tank



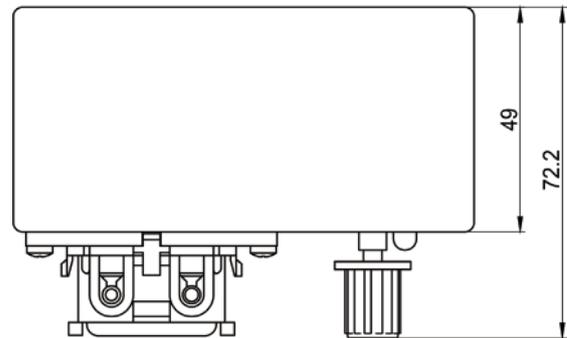
laboratory

## Dimensional drawing

Unit: mm



Need to be customized, there is no opening by default



Code	S02	S04	S06	S08	S10	B04	B06	B08
ID*OD(mm)	0.6×3.0	1.0×3.0	2.0×4.0	2.5×4.5	3.0×5.0	1.0×3.0	2.0×4.0	2.5×4.5
Materials	Silicone	Silicone	Silicone	Silicone	Silicone	BPT	BPT	BPT
Flow rate ml/min	2.6~4	4~14	11~34	17~50	19~65	3~13	9.3~32	14.6~41.5

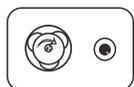
## Parameter

Pump tube length: 135mm (exposed 29.5mm) Code-B

175mm (exposed 49.5mm) Code-S

Working conditions: temperature 0~40°C, humidity <80%

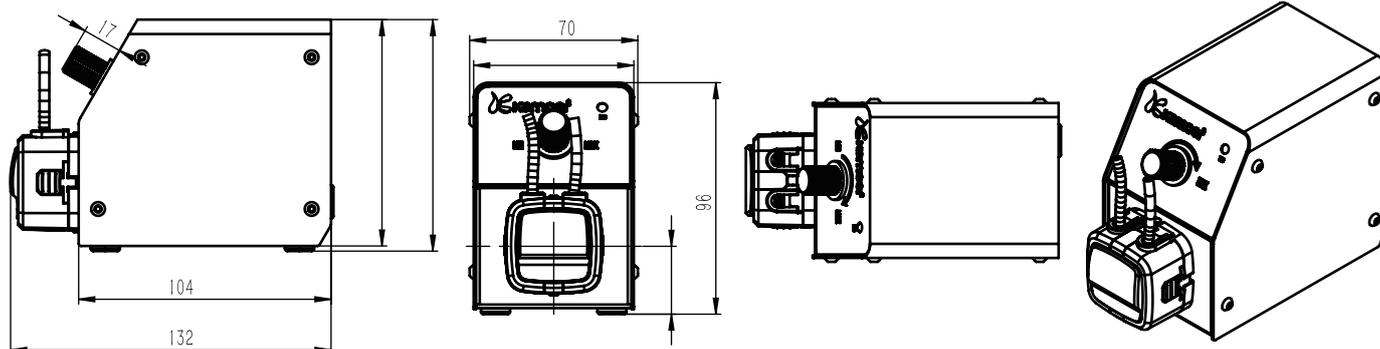
Weight: 270g (excluding power supply), 330g (including power supply)



- Low cost to adjust the flow rate, multiple pumps in one
- Convenient and quick replacement of pump tube
- Low noise, small space occupation
- Simple structure, maintenance-free
- With three rollers, moderate pulsation
- Flow rate range: 2.6~41.5ml/min

Dimensional drawing

Unit: mm



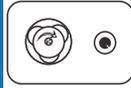
Part No	Power supply	Silicone tube	BPT tube	Flow rate ml/min
CK.10.36.0645	DC24V	1X3.3	1X3.3	4-10
CK.10.36.0646	DC24V	2.0X4.0	2.0X4.0	9.3-32
CK.10.36.0647	DC24V	2.5X4.5	2.5X4.5	14.6-41.5

Parameter

BPT pump tube length 135 (exposed 29.5mm)

Working environment: ambient temperature 0-40 °C relative humidity <80%

Bare metal weight: 500g packaging weight 700g (including power supply)



- Low cost to adjust the flow rate, multiple pumps in one
- Convenient and quick replacement of pump tube
- Low noise, small space occupation
- Simple structure, maintenance-free
- With three rollers, moderate pulsation
- Gear transmission, higher precision
- Flow rate range: 4~49ml/min

### Application Areas



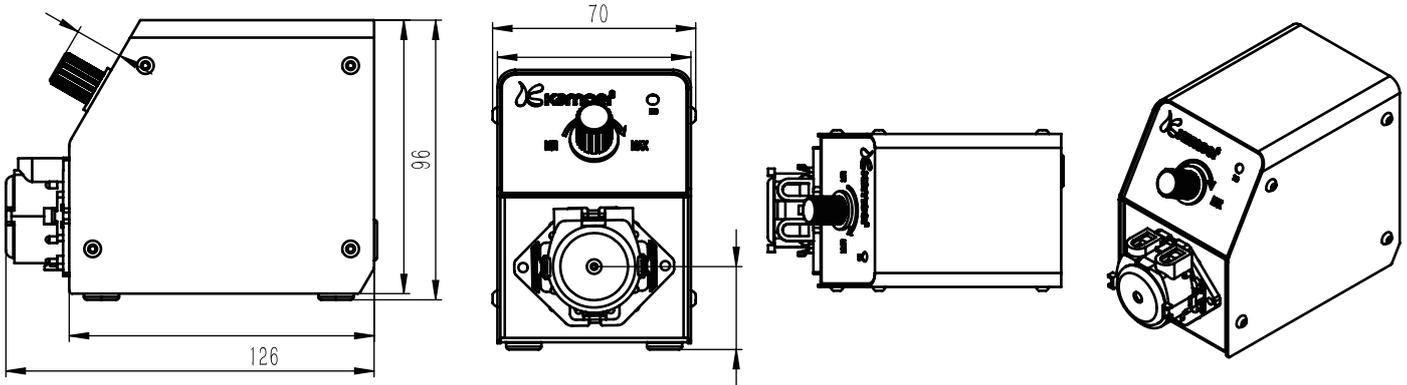
Pipeline liquid addition



Laboratory doser

### Dimensional drawing

Unit: mm



Part No	Power supply	Silicone tube	BPT tube	Flow rate ml/min
CK.10.36.0648	DC24V	1X3.3	1X3.3	4-10
CK.10.36.0649	DC24V	2.0X4.0	2.0X4.0	14-49

### Parameter

BPT pump tube length 135 (exposed 29.5mm)

Working environment: temperature 0-40°C, humidity <80%

Bare metal weight: 580g packaging weight 650g (including power supply)



F01A-STP

KSP-F01A

- Small appearance, powerful
- LCD screen display, key operation, friendly man-machine interface
- Support speed control, can be adjusted to the required speed through the speed control knob
- Real-time clock, support timing start and stop
- Run interval time can be set, support circulation operation, support time period operation
- Calibration function
- Support multi-machine serial use through extension cable
- Flow rate range: DC motor 27~40ml/min, stepper motor 1~10ml/min

Application Areas

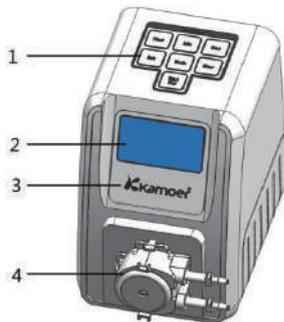


Precision wire saw emery addition



Laboratory doser

Appearance introduction



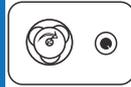
Key Description



- Manual key: manual operation button;
- Calibration key: calibration button;
- set key: set button;
- OK key: OK button;
- Automatic key: automatic operation button;

1. Button 2. LCD screen 3. LCD protection screen 4. Pump head assembly 5. Speed control knob 6. DC IN 7. DC OUT

Code		F01A-DC	F01A-STP
Pump head		KPP DC	KAS Stepper motor
Adapter	Input	AC 100-240V 50-60Hz 1.0A max	
	Output	DC 12V 1A	DC 24V 1A
Power input power		12W	
Add times		96 Times/Day-1 Time/4 Days	
Capacity range		1 ml-9999 ml	
Quantitative accuracy		< ±2%	
Operating temperature		0-70°C	
Storage environment	Humidity	10%-90% (Non-condensing)	
	Temperature	-20°C-85°C	
Length * Width * Height		200*170*110mm	
Weight		660g	



- Small size and powerful function
- Simple structure, convenient maintenance, quick replacement of pump tube
- Support flow calibration
- Include-in real-time clock, automatically run according to the set parameters, the parameters will not be lost when power off
- Support iOS and Android devices to control the device through WIFI, support App to upgrade the device firmware
- Potted plants drip irrigation
- DC motor 27~40ml/min, Stepper motor 1~10ml/min

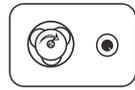
### Appearance introduction



1. Water inlet 2. Water outlet 3. Indicator light 4. DC 12V power input 5. RESET button

Indicator light	Status	Description
Status Indicator (Blue)	The light is always on	Already connected to the cloud through a router
	Light is off	Disconnected from router
	Flashes quickly	In network distribution mode, the APP can configure the dosing pump to connect to the router
	Flashing slowly	Disconnected from the cloud
Power indicator (Red)	The light is always on	The power has been turned on
	Light is off	No power supply or power failure

Note: Drip pro uses red and blue two-color indicator lights. When red and blue light up at the same time, the indicator lights are purple.



- Upgrade version, large pump head design,
- Motor life is up to about 1000 hours
- Low noise, small space occupation
- Standard configuration of French Saint-Gobain Norprene® pump tube (in line with FDA certification, very suitable for food and dairy applications, heat resistance, ozone resistance, acid and alkali resistance, anti-aging, anti-oxidation, working temperature -60°C-135°C)
- Flow rate range: 30~260ml/min

Application Areas

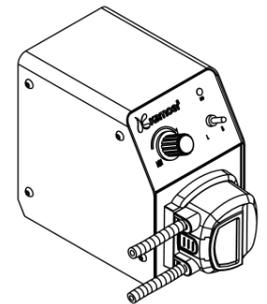
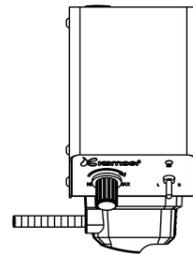
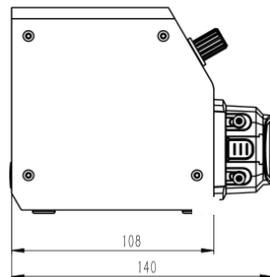
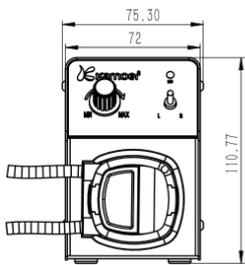


Precision wire saw emery addition



Laboratory doser

Dimensional drawing  
Unit: mm



Product number	KCPPro2 - N19	KCPPro2 - N16	KCPPro2 - N40
Pump tube material	Saint-Gobain voitrn BPT tube		
Pump tube model	2.4x5.6mm	3.2*6.4mm	4.0*7.2mm
Flow	30-150 ml/min	40-210ml/min	50-260ml/min
Positive pressure	0.15 Mpa		
Negative pressure	-0.09 Mpa		
Voltage	24V		
Current	0.3- 0.35(A)		
Net size	L139 x W79 x H110		
Weight	About 765g (with power supply)		



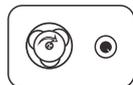
- Use stepper motor to ensure long-term stable operation
- OLED display, with rotary encoder to realize local control
- Remote control via App, support iOS and Android systems
- Memory function, keep the state before power failure after power failure recovery
- Setting parameters are not lost when power off
- Imported PharMed BPT pump tube
- With alarm push function
- Support remote firmware upgrade

Appearance introduction



1. Display 2. Adjusting knob 3. Adjusting screw 4. Water inlet 5. Water outlet 6. DC24V power interface

Length * Width * Height	136mmx87mmx124mm
Weight	1177g(Without power adapter)
Power Adapter	In put: AC100-240V Output: DC24V 1.9A
Parameter	Pump head: KCS
Interface	Rotary encoder /WiFi
Working environment	0 - 70°C, Humidity 10% - 90% (Non-condensing)
Storage environment	20°C -- 85°C, Humidity 10% - 90% (Non-condensing)
Flow range	14~145ml/min



- Convenient and quick replacement of pump tube
- Timed and quantitative work according to customer needs
- Low noise and high precision
- Simple structure, maintenance-free
- The number of rollers is adjustable, which can balance the flow rate and pulsation
- Flow rate range: 13.2~352ml/min

Parameter

LLS Plus pump weight: 2.5 kg

Power: 110v~220v Power: 20W max

Working conditions: ambient temperature 0~40°C relative humidity <80%

Application Areas



Food packaging machine

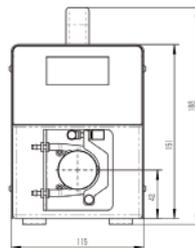
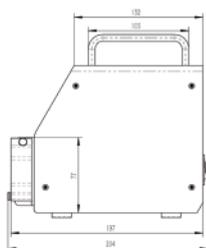


Reagent dispensing machine



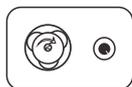
Laboratory

Dimensional drawing  
Unit: mm



Norprene®		PharMed® BPT		Silicone tube		Pump tube size (mm)	Flow
6 Rollers	3 Rollers	6 Rollers	3 Rollers	6 Rollers	3 Rollers		
/	/	/	/	CK 40200601	/	0.8×4	13.2ml/min
/	/	/	/	/	CK 40200301		17.6ml/min
CK 40200609	/	CK 40200606	/	CK 40200602	/	1.6×4.8	49.5ml/min
/	CK 40200309	/	CK 40200306	/	CK 40200302		71.5ml/min
/	/	CK 40200608	/	CK 40200604	/	2.4×5.6	99ml/min
/	/	/	CK 40200308	/	CK 40200304		132ml/min
CK 40200610	/	CK 40200607	/	CK 40200603	/	3.2×6.4	165ml/min
/	CK 40200310	/	CK 4020307	/	CK 40200303		231ml/min
/	/	/	/	CK 40200605	/	4.0×7.2	220ml/min
/	/	/	/	/	CK 40200305		352ml/min

Note: The product code starts with CK in the selection table. For example: "CK40200301", it means that this LLS Plus pump is equipped with 3 rollers, 0.8×4 domestic silicone pump tube, and the factory qualified flow rate is ≥17.6ml/min.



- Small volume, large flow
- Suitable for the transfer of viscous and non-viscous liquids
- Simple replacement of pump tubing
- Stainless steel rollers, long life
- Stepper motor, precise control
- The pump tube has a thicker wall and can withstand greater pressure
- Induction device can be connected externally to realize automation
- Can realize remote control of mobile phone App
- Built-in 2 working modes, easier to use
- Advanced calibration method

## Application Areas



Food packaging machine



Reagent dispensing machine



Laboratory

BPT	#19	#16	#25	#17	#18
CK15/3 Rollers	190ml/min	310ml/min	650ml/min	/	/
CK15/6 Rollers	140ml/min	220ml/min	390ml/min	/	/
Silicone tube	#19	#16	#25	#17	#18
CK15/3 Rollers	170ml/min	300ml/min	670ml/min	1050ml/min	1520ml/min
CK15/6 Rollers	120ml/min	200ml/min	440ml/min	630ml/min	780ml/min
Silicone tube	#15	#24			
CK25/3 Rollers	530ml/min	950ml/min			

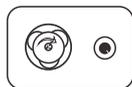
### Technical Parameters

Instrument size: 299mm×152mm×244mm (including handle and pump); Motor life: ≥6000h\*; Working voltage: AC 100~240V; Maximum power: 75W; Maximum speed: 350RPM; Speed control resolution: 0.1RPM; Language setting: English; Mode setting: continuous mode, volume mode  
External control: temperature sensor (optional), liquid level sensor (optional), bracket (optional), foot switch (standard)

### Accessories selection

UIP WIFI series intelligent peristaltic pump provides the following accessories:

Temperature sensor (optional) Liquid level sensor (optional) Bracket (optional) Foot switch (standard)



Appearance introduction



Interface Description



Each interface definition:

1. Fan: machine fan, used to remove heat when the machine is working;
2. Liquid level sensor interface: used to connect the expansion element of the liquid level sensor, so that the instrument has the function of liquid level detection;
3. Temperature sensor interface: used to plug in temperature sensor extension components, so that the instrument has the function of temperature detection;
4. CAN communication interface: connected to the RJ45 connector network cable, the machine can be remotely controlled via CAN;
5. RS485 communication interface: connect to the RJ45 connector network cable, the machine can be remotely controlled through RS485;
6. Wi-Fi antenna: 2.4G Wi-Fi antenna, which can be controlled by mobile phone App;
7. Integrated switch: switch and power cord interface;
- 8, 9. Expansion interface: used to connect with expansion equipment, such as foot switch, PC, PLC and other equipment, the two ports can be plugged freely. But to ensure availability, please use the standard wiring harness provided by our company.

Note: The damage to the instrument caused by the use of a standard wire harness not provided by our company is not covered by the warranty.



### Temperature Sensor

Temperature sensors can be used to monitor ambient temperature, liquid temperature, or the temperature of other objects. We have two temperature sensors, one is a normal temperature model, codenamed CT-2, and its sensing temperature range is -55°C to +85°C. The other is a high temperature model, codenamed GT-2, which has an induction temperature range of -55. °C ~ +125 °C; under the usual temperature (-10 °C ~ +85 °C) conditions, the temperature accuracy can reach ± 0.5 °C. The temperature sensor line length defaults to 2 meters, which is CT-2 or GT-2; however, custom temperature sensor lines can be selected as 1, 3, 4, 5 meters.



### Foot switch

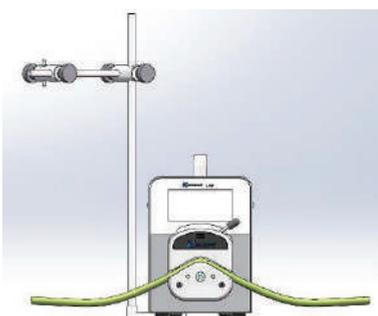
The foot switch is used to replace the start/stop button. Under the appropriate interface, the foot switch can be used to control the start and stop of the pump, which greatly improves the user experience. The foot switch is a standard accessory with a line length of 1.5 meters.



### Liquid level sensor

1. A liquid storage bottle for supplying a raw liquid, the instrument provides an alarm when the amount of liquid in the liquid storage bottle is exhausted; 2. a liquid collecting bottle for collecting externally transporting liquid, when the liquid collecting bottle is almost full, the instrument Provides an alarm and automatically stops the liquid supply.

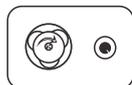
The default container capacity is 2L, the container size is 125m\*230mm; the sensor line is 2 meters long, the pipeline length is 2 meters, and the default tube size is 5mm\*10mm. The liquid collection bottle can provide a vacuum container and a non-vacuum container. If you are using your own container, we can also customize the sensor without a container.



### Bracket

The default pole height is 450mm and the crossbar length is 180mm.

The crossbar can be loaded with all the accessories that the user needs. The brackets are divided into two types. The code on the left is UIPZJ-the code on the right is UIPZJ-Y.



- Speed range: 0.1RPM-500RPM, forward and reverse
- Speed adjustment resolution: 0.1RPM
- Control mode: encoder, switch, external analog signal control, external R485 communication control, foot switch control
- External analog signal mode: 4-20mA, 0-5V
- Display mode: LED 4-digit digital tube, speed display, duration display
- Power-off parameter memory: support
- Working mode: automatic cycle, semi-automatic cycle, manual
- Support functions: start and stop, positive and negative, speed regulation, parameter memory, etc.
- Multi-machine interconnection: the maximum can be expanded to 15
- Flow range: ≤670ml/min; power: <50W
- Power supply: external power adapter

### Application Areas



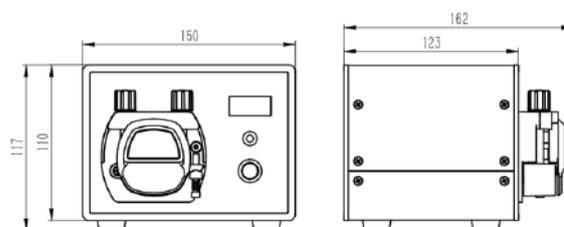
Reagent dispensing machine



Laboratory

### Dimensional drawing

Unit: mm



Code	Pump tube size	Number of roller	Flow rate ml/min
S13	0.8x4.0	3	26
		4	25
		6	22
B14 S14	1.6*4.8	3	70
		4	68
		6	60
B19 S19	2.4*5.6	3	175
		4	165
		6	130
B16 S16	3.2*6.4	3	300
		4	285
		6	230
B40 S40	4.0*7.2	3	480
		4	420
		6	300
B25 S25	4.8*8.0	3	670
		4	580
		6	375

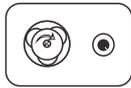
"Note": The maximum flow test environment is standard atmospheric pressure, transmission medium water, and new pump tubing; actual flow depends on the transmission medium, air pressure and the degree of newness of the pump tubing.

### Working conditions

Environment temperature: -20°C~60°C

Rated voltage: 24V

Maximum current: 2A



- No grease
- No maintenance
- Compact design
- Low energy consumption

Application Areas



Medical treatment



Cosmetology

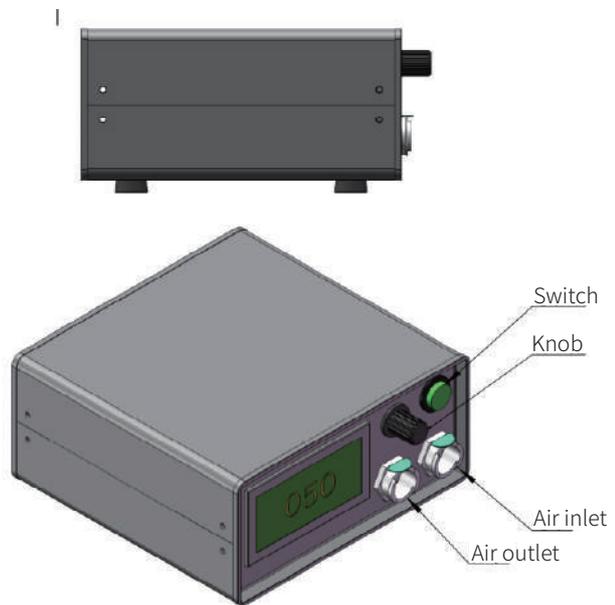
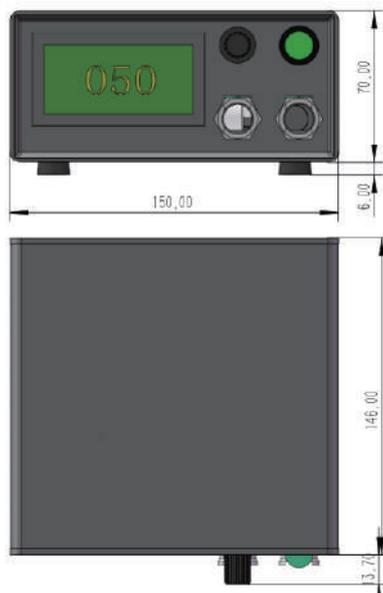


Gas analysis

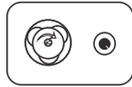


Physiotherapy

Dimensional drawing  
Unit: mm



BOM	Motor (V)	Power (W)	Gas Flow l/min	Liquid Flow ml/min	Positive pressure Mpa	Negative pressure Mpa	Noise m/db	Model	Power supply
ck.33.03.0001	12	10	4-10	/	≥0.1	≥0.065	≤74	Lab VP15-D12	12V/1A
ck.33.03.0002	12	12	/	≥1200	≥0.05	≥0.04	≤65	Lab LP02-D12	12V/1A



- Small volume, large flow
- Suitable for transmission of viscous and non-viscous liquids
- Simple replacement of pump tubing
- Stainless steel rotor, long life
- Step motor, precise control
- The pump tube has a thicker wall and can withstand greater pressure
- Can be connected externally to realize automation
- Can be controlled via mobile app
- Built-in two working modes
- Advanced calibration method

## Application Areas



Food packaging machine



Reagent dispensing machine



Laboratory

Pump head	Code	Pump tube size(mm)	Maximum flow (ml/min)
KK15 3 Rollers	19#	2.4x5.6	300
	16#	3.2x6.4	500
	25#	4.8x8	1000
	17#	6.4x9.6	1700
	18#	7.9x11.1	2400
KK15 6 Rollers	19#	2.4x5.6	160
	16#	3.2x6.4	400
	25#	4.8x8	800
	17#	6.4x9.6	1090
	18#	7.9x11.1	1200
KK25	15#	4.8x9.8	2000
	24#	6.4x11.4	3000
	35#	7.9x12.7	5000
	36#	9.6x14.6	6000

### Technical Parameters

Instrument size: 304×164×244mm (including handle and pump head)

Working voltage: AC 100~240V

Maximum power: 150W; Maximum speed: 600RPM; Speed control resolution: 0.1RPM

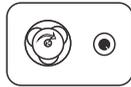
Whole machine weight: 7.6 kg (including a single pump head); language setting: Chinese/English; mode setting: continuous mode, volume mode

External control: foot switch (standard)

Temperature sensor (optional)

Liquid level sensor (optional)

Motor life: ≥6000h\*



### Temperature Sensor

Temperature sensors can be used to monitor ambient temperature, liquid temperature, or the temperature of other objects. We have two temperature sensors, one is a normal temperature model, codenamed CT-2, and its sensing temperature range is -55°C to +85°C. The other is a high temperature model, codenamed GT-2, which has an induction temperature range of -55. °C ~ +125 ° C; under the usual temperature (-10 ° C ~ +85 ° C) conditions, the temperature accuracy can reach  $\pm 0.5$  ° C. The temperature sensor line length defaults to 2 meters, which is CT-2 or GT-2; however, custom temperature sensor lines can be selected as 1, 3, 4, 5 meters.



### Foot switch

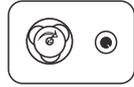
The foot switch is used to replace the start/stop button. Under the appropriate interface, the foot switch can be used to control the start and stop of the pump, which greatly improves the user experience. The foot switch is a standard accessory with a line length of 1.5 meters.



### Liquid level sensor

1. A liquid storage bottle for supplying a raw liquid, the instrument provides an alarm when the amount of liquid in the liquid storage bottle is exhausted; 2. a liquid collecting bottle for collecting externally transporting liquid, when the liquid collecting bottle is almost full, the instrument Provides an alarm and automatically stops the liquid supply.

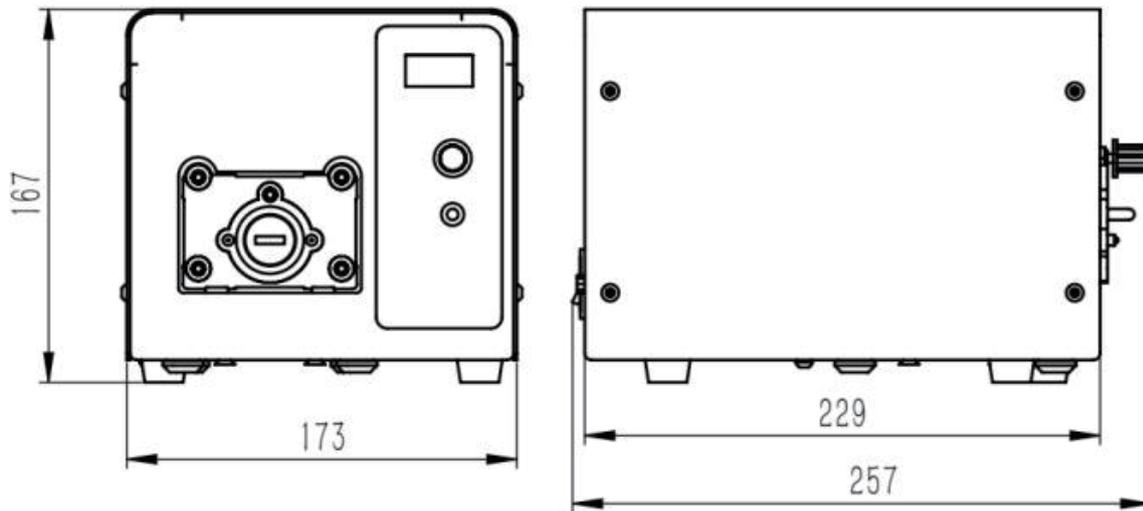
The default container capacity is 2L, the container size is 125m\*230mm; the sensor line is 2 meters long, the pipeline length is 2 meters, and the default tube size is 5mm\*10mm. The liquid collection bottle can provide a vacuum container and a non-vacuum container. If you are using your own container, we can also customize the sensor without a container.



- Speed range: 0.1RPM-600RPM, forward and reverse
- Speed adjustment resolution: 0.1RPM
- Control mode: encoder, switch, external analog signal control, external R485 communication control, foot switch control
- External analog signal mode: 4-20mA, 0-5V
- Display mode: LED 4-digit digital tube, speed display, duration display
- Power-off parameter memory: support
- Working mode: automatic cycle, semi-automatic cycle, manual
- Support functions: start and stop, positive and negative, speed regulation, parameter memory, etc.
- Flow range:  $\leq 6000\text{ml/min}$  CIPump600
- Power:  $<150\text{W}$  CIPump600

Dimensional drawing

Unit: mm



#### Working conditions

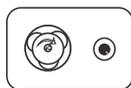
Environment temperature:  $-20^{\circ}\text{C}\sim 60^{\circ}\text{C}$

Rated voltage: 220VAC

Working voltage: AC 100~240V

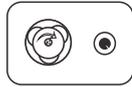
Maximum power: 150W

Maximum current: 2A @220VAC



Product model	Pump head type and quantity	Recommended maximum speed
BIPump600-KK25	KK25 X1	600RPM
BIPump600-KK25D	KK25 X2	600RPM
BIPump600-KK153	KK15 3 Rollers X1	600RPM
BIPump600-kk153D	KK15 3 Rollers X2	600RPM
BIPump600-KK156	KK15 6 Rollers X1	600RPM
BIPump600-KK156D	KK15 6 Rollers X2	600RPM

Code	Pump tube size	Applicable pump head	Flow ml/min
19#	2.4x5.6	KK15 3 Rollers	320
16#	3.2x6.4		550
25#	4.8x8		1100
17#	6.4x9.6		1900
18#	7.9x11.1		2400
19#	2.4x5.6	KK15 6 Rollers	
16#	3.2x6.4		
25#	4.8x8		
17#	6.4x9.6		
18#	7.9x11.1		
15#	4.8x9.8	KK25	2000
24#	6.4x11.4		3000
35#	7.9x12.9		B/5000 C/3500
36#	9.6x14.6		6000



Appearance introduction

- 7-inch color touch screen control, easy to operate
- Support a variety of pump heads, a variety of tube types,
- adapt to different flow requirements
- App upgrade via Wi-Fi firmware
- Setting parameters are not lost when power off
- With continuous mode, quantitative mode, proportioning mode
- Contains CAN and RS485 external communication interfaces
- Contains cumulative usage record function



1 : Touch screen 2: KCS pump head 3: Screen program programming interface 4: Buttons  
5: Indicator light 6: CAN/RS485 communication interface 7: Fan 8.: Integrated power switch

Dimensions (length x width x height)	373x199x90mm
Weight	6kg
Power adapter input	AC100~240V
Pump parameters	Adding accuracy: 2% Flow range: 0.1-300 ml Speed range: 0.1-450 rpm
Software function	continuous mode/quantitative mode/proportioning mode
For external	RS485/CAN/Wi-Fi
Working environment	Temperature 0-70°C Humidity: 10%-90% (non-condensing)
Storage environment	Temperature -20°C-85°C Humidity: 10%-90% (non-condensing)



- Small size and powerful
- Using DC brushless motor, long life
- Good sealing and low noise
- Can run dry, good durability and maintenance-free
- The diaphragm material is EPDM, which has good resistance to chemicals such as alcohol, acid, alkali, oxidant, ketone and grease, and has strong chemical stability
- PWM speed control is optional, wide range flow control
- 12V and 24V voltage optional

Application Areas



Fully automatic enzyme immune workstation

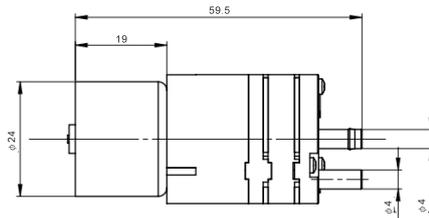
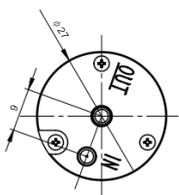


VOCs online detector



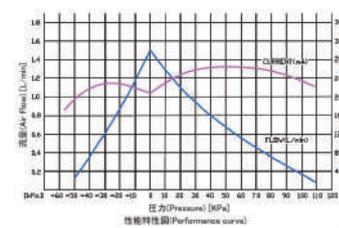
Automatic luminescence immunoassay analyzer

Dimensional drawing  
Unit: mm



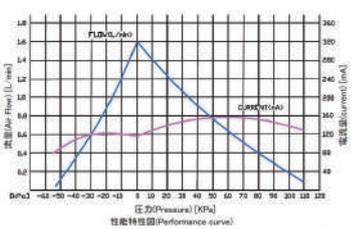
A) KVP 04-1.1-12  
KVP 04-1.1-12(N)

Performance characteristic curve:



B) KVP 04-1.1-24

Performance characteristic curve:



type	Parameter	
Motor	DC brushless	
Model	KVP04-1.1-12(N)	KVP04-1.1-24
PWM Speed regulation	Can't adjust speed	Adjustable speed
Rated voltage	12V	24V
Load current	320mA	170mA
Flow	≥1.1L/min	
Maximum pressure	90kpa	
Vacuum	-40kpa	
Diaphragm material	EPDM:Good sealing and strong chemical stability	
Noise	<50Db	
Product weight	40g	
Life	≥3000h	



- Exquisite workmanship, strong and durable structure
- Small size and powerful
- Dry running, durable, chemically stable
- Long-life DC brushless

## Application Areas



Potassium Permanganate Index Tester



Electrode polishing machine



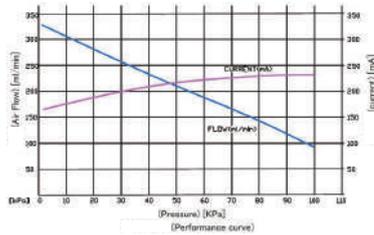
Fluorescence in situ hybridization dyeing machine



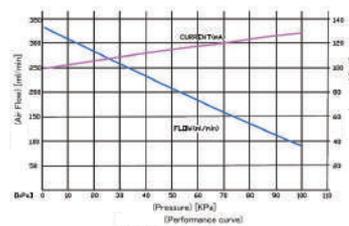
Automatic liquid-based cell staining machine

## Flow curve

A) KLP 04-320-12 Performance characteristics chart:



B) KLP 04-320-24 Performance characteristics chart:



type	Parameter	
Motor	DC brushless(PWM Speed regulation)	
Model	KLP04-320-12	KLP04-320-24
Rated voltage	12V	24V
Load current	250mA	150mA
Flow	320±80ml/min	
Lift range	≥2m	
Maximum pressure	90kpa	
Diaphragm material	Good airtightness; good resistance to chemicals such as alcohols, acids, oxidants, ketones and esters, etc., with strong chemical stability and poor oil resistance; NBR: strong oil resistance is required	
Noise	<50Db	
Product weight	40g	
Life	≥3000h	



- Product model: KLP40-08T/KLP40-00Y
- Product color: transparent/yellow
- Product specifications: 160\*97\*60mm
- Drive mode: electric
- Add customization: yes
- Product material: engineering plastic
- Product weight: 0.6KG
- Speed index: 4200/2800
- Voltage index: 12V

Appearance size chart



Model	Colour	Voltage	Power	Protection type	Working pressure	Water flow	Current	Suction	Lift
KLP40-08T	Transparent	12V	60W	Pressure adjustment switch	5bar(75psi)4~6KG	4l/min	3.5A	1.5M	50M
				Backflow	5bar(75psi)4~6KG	4l/min	3.5A	1.5M	50M
KLP40-00Y	Yellow	12V	60W	Pressure adjustment switch	5bar(75psi)4~6KG	4l/min	3.5A	1.5M	50M
				Backflow	5bar(75psi)4~6KG	4l/min	3.5A	1.5M	50M

KLP40-08T Wiring diagram



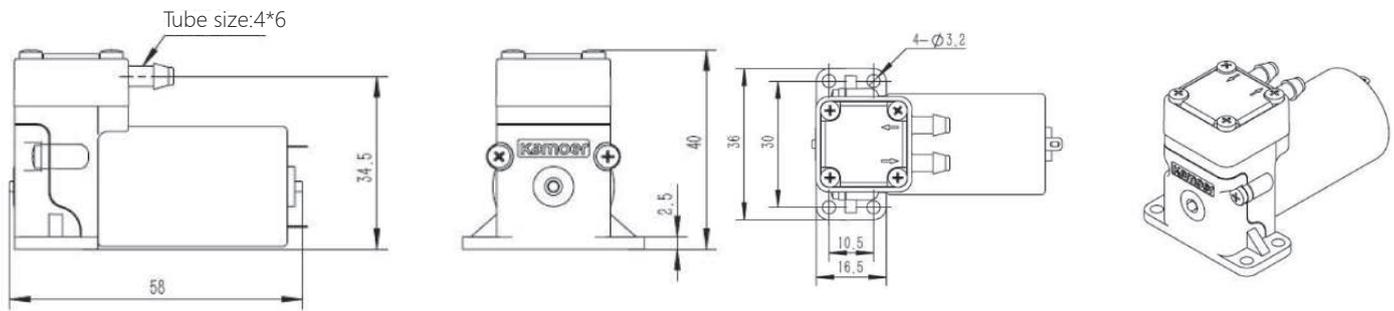
KLP40-00Y Wiring diagram



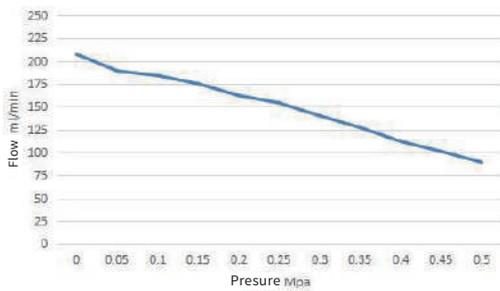


- Small size, high pressure
- Chemical stability
- Low noise, small space occupation
- Dry running, durable and maintenance-free
- Motor optional

Dimensional drawing  
Unit: mm



Flow curve



Flow	Liquid pressure (max)	Negative pressure (Air)	Noise	Power	Life	Diaphragm material
≥160ml/min	0.3Mpa	0.02Mpa	≤58Db	≤6W	Brushed 500H/brushless 5000H	V
≥180ml/min	0.3Mpa	0.02Mpa	≤58Db	≤6W	Brushed 500H/brushless 5000H	E

"Note": The flow rate is tested under standard atmospheric pressure, temperature 25°C, and direct discharge without pressure at the inlet and outlet. The noise is tested at a distance of 500mm from the product in a silent room.

Other technical parameters

Fluid medium: water, corrosive medium. Not viscous liquid, not high temperature liquid.

Working environment: temperature range: 0°C~40°C;

Relative humidity: <80%



# Diaphragm Pump-KLP01



- Small size but powerful
- Positive liquid pressure up to 3bar
- Chemical stability
- Dry running, durable and maintenance-free
- Multiple choices of brush and brushless motors

## Application Areas



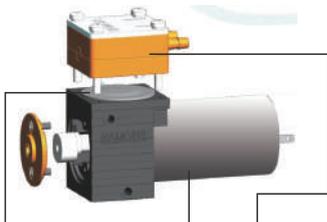
Stool analysis and processing system



Vaginal secretion analyzer



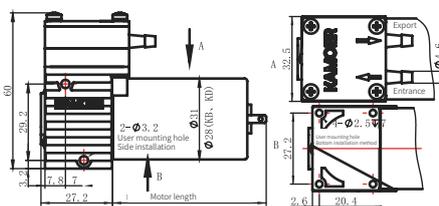
Solder Mask Printing Machine



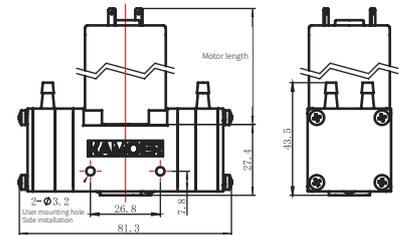
KLP01- E KA 1

## Dimensional drawing

Unit: mm

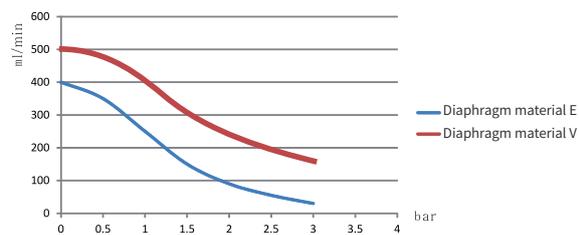


Single pump head pump



Double head pump

## Flow curve



Model	Voltage	Motor	Pump head	Load current	Weight
KA	24	Brushed	1	0.3	0.2
KB	24	Brushless	1	0.26	0.245
KC	12	Brushed	1	0.36	0.2
KD	12	Brushless	1	0.38	0.275
KG	24	Brushed	2	0.38	0.322
KH	12	Brushed	2	0.69	0.322

Pump head	Diaphragm material	Flow (ml/min)	Positive (bar)	Negative (bar)
1	EPDM	≥400	0.6	0.5
	Fluorine diaphragm	≥500		
2	EPDM	≥700		
	Fluorine diaphragm	≥700		



- Small size but powerful
- Positive liquid pressure up to 3bar
- Chemical stability
- Dry running, durable and maintenance-free
- Multiple choices of brush and brushless motors

## Application Areas



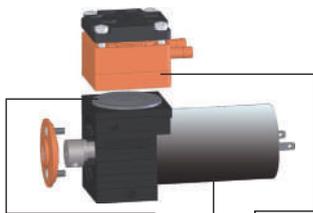
Automobile exhaust gas tester



Dust removal spray



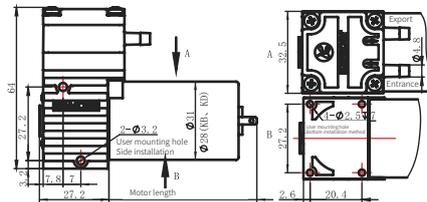
Inkjet printer



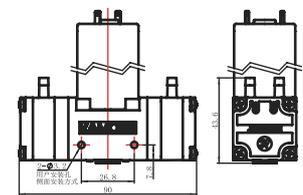
KLP02- [E] [KA] 1

## Dimensional drawing

Unit: mm

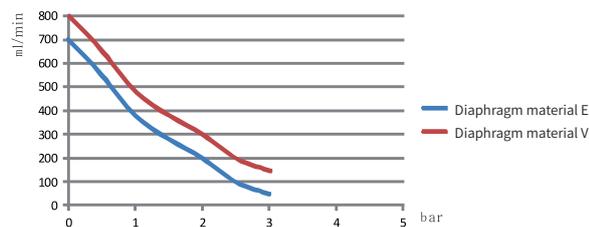


Single head pump



Double head pump

## Flow curve



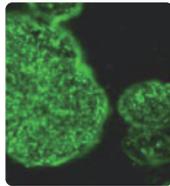
Model	Voltage	Motor	Pump head	Load current	Weight
KA	24	Brushed	1	0.3	0.212
KB	24	Brushless	1	0.26	0.250
KC	12	Brushed	1	0.36	0.212
KD	12	Brushless	1	0.49	0.250
KG	24	Brushed	2	0.38	0.336
KH	12	Brushed	2	0.69	0.336

Pump head	Diaphragm material	Flow (ml/min)	Positive (bar)	Negative (bar)
1	EPDM	≥700	0.6	0.4
	Fluorine diaphragm	≥800		
2	EPDM	≥1400		
	Fluorine diaphragm	≥1500		



- Using external rotor brushless motor, long life (5000 hours)
- Large flow, high negative pressure
- Dry running, durable, maintenance-free
- Good stability
- Flexible installation of nozzle direction (consult customer service)

Application Areas

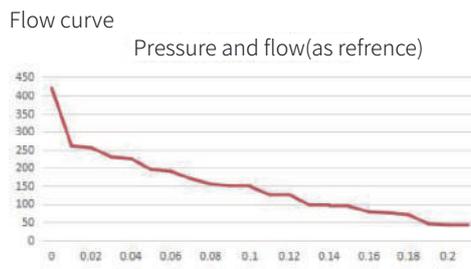
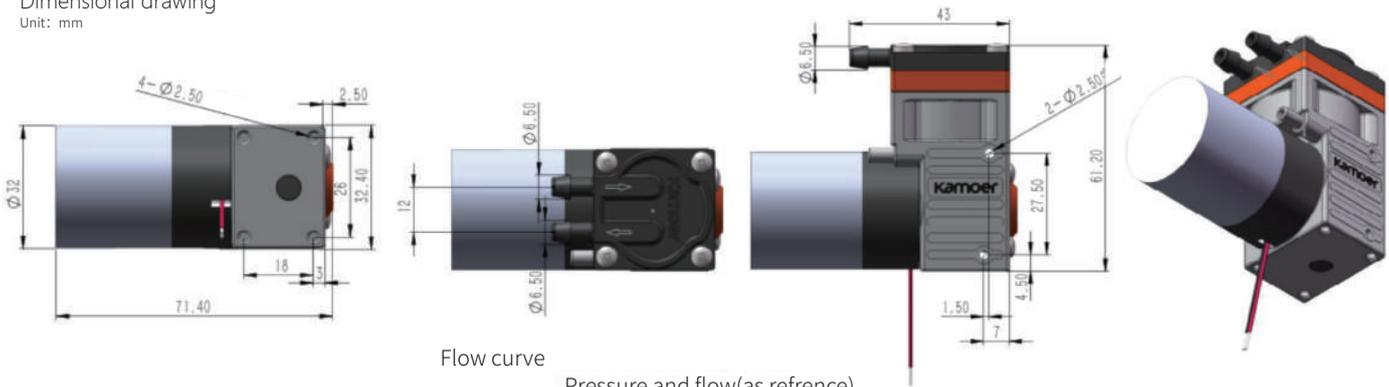


Immunofluorescence staining



Portable oxygen generator

Dimensional drawing  
Unit: mm



BOM	Voltage (V)	Electric current (A)	Power (W)	Air flow l/H	Positive Mpa	Negative Mpa	Noise m/db	Life H	Model	Net weight g
CK.20.81.0005	Outer roller12	1	12	420	≥0.2	0.05	≤78	5000	KZP-PE	160
CK.20.81.0006	Outer roller24	0.5	12	420	≥0.2	0.05	≤78	5000	KZP-PF	160

Other technical parameters

Diaphragm note--At present, our company adopts high fluorine diaphragm, and the diaphragm is made of PTFE material, which can withstand conventional corrosive gases.

Selection of accessories---A variety of connecting pipes, which can be used for different fluid transmission and docking with customer products.

Working environment-ambient temperature 0-40 degrees Celsius relative humidity <80%, it is recommended not to work for a long time under positive pressure> 0.2Mpa, otherwise it will greatly shorten the product life.

Note:product temperature ≤85° is a normal phenomenon, suitable for tube type: 4X6, please install a filter device at the air inlet to prevent foreign matter from entering the cavity.



- High-quality engineering plastics, stable and reliable
- EPDM diaphragm & valve disc, high performance, long life
- Simple design, beautiful and generous
- High-performance brushless motor, Super power, enduring

## Application Areas



On-line flue gas detector



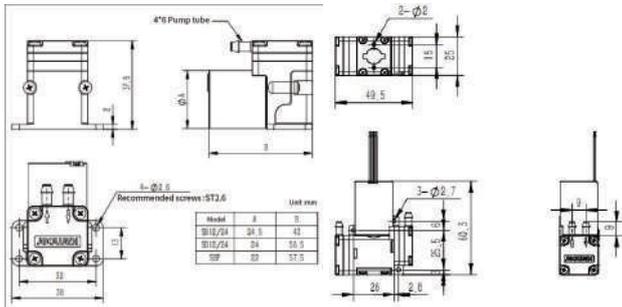
VOCs online detector

### Dimensional drawing

Unit: mm

Single head type (SB series/SD series/SBP series)

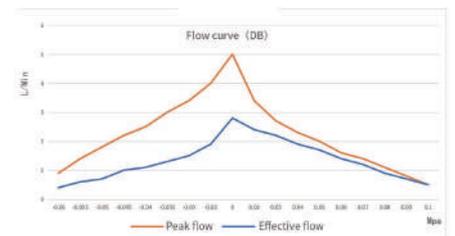
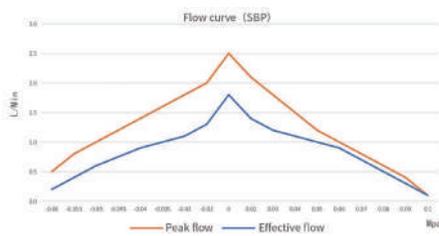
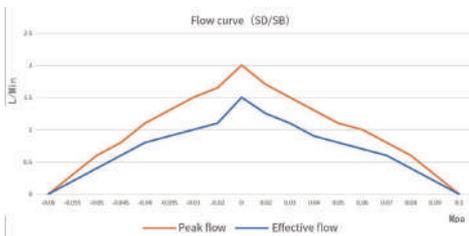
Double head type (DB series)



## Motor wiring

Red line	Yellow line	White line	Black line
Vcc	FG	PWM	GND
Positive electrode	Speed feedback	Speed regulation	Negative electrode

Full-speed operation: 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.



Model	Peak flow L/H	Effective flow L/H	Negative pressure Mpa	Positive pressure Mpa	Noise dB	Power W
KLVP3-SB12	2	1.5	0.05	0.08	62	2.5
KLVP3-SB24	2	1.5	0.05	0.08	62	2.5
KLVP3-SD12	2	1.5	0.05	0.08	65	2.5
KLVP3-SD24	2	1.5	0.05	0.08	65	2.5
KLVP3-SBP	2.5	1.8	0.05	0.08	65	4
KLVP3-DB12	4	2.5	0.06	0.08	65	5
KLVP3-DB24	4	2.5	0.06	0.08	65	5

### Other technical parameters

Fluid medium: air, general gas

Working environment: temperature: 0°C~40°C; humidity: <70%

Product weight: 80g-90g

Maximum power consumption: 5W; product life: 5000H current

Tolerance: ±10%; protection level: IP42



# Vacuum Pump-KVP300



- Free Maintenance
- Compact design
- Low energy consumption
- Gas flow  $\geq 6\text{L/min}$
- Negative pressure at inlet end  $\leq -0.05\text{MPa}$
- Positive pressure at the outlet end  $\geq 0.1\text{MPa}$

## Application Areas



On-line flue gas detector



VOCs online detector



Air monitoring station



Oil mist purification equipment

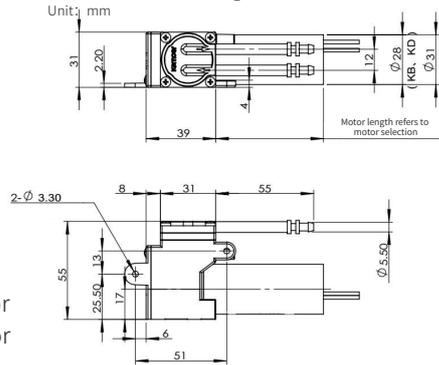


KVP300-KK

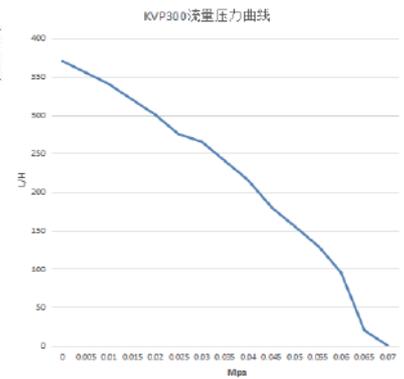
## KVP300-KK

- KJ: 24V DC Brushed motor
- KK: 12V DC Brushed motor
- KB: 24V DC Brushless motor
- KD: 12V DC Brushless motor

### Dimensional drawing



### Flow curve



Model	Voltage V	No-load current V	Rated current A	Motor length mm	Weight g	Power W	Flow L/H	Positive pressure Mpa	Negative pressure Mpa	Noise dB
KVP300-KK	12	0.42	< 1.2	58	240	8W	$\geq 360$	$\geq 0.1$	$\leq -0.05$	< 70
KVP300-KD	12	0.55	< 1.5	67	280					
KVP300-KJ	24	0.2	< 0.5	58	238					
KVP300-KB	24	0.32	< 0.6	67	277					

"Note" This type of diaphragm air pump can not work continuously for a long time under the condition of positive pressure > 0.02MPa, otherwise the product life will be greatly shortened. For other special working conditions, please contact our company before purchasing.



- Master -level professional design, beautiful and generous
- Large cavity High flow rate, low noise
- EPDM diaphragm & valve plate special process treatment, greatly prolonged life
- Brushless motor Long life, stable performance
- Rubber machine feet, effective vibration reduction

## Application Areas



On-line flue gas detector



VOCs online detector



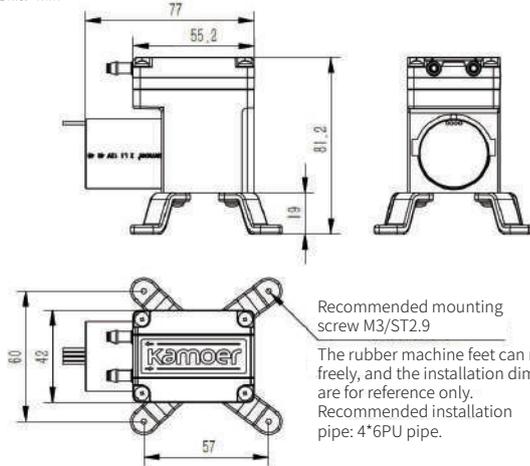
Air monitoring station



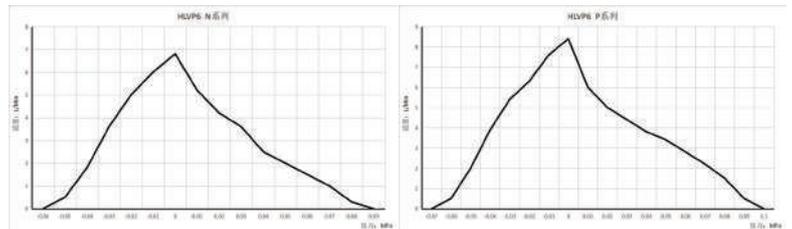
Oil mist purification equipment

## Dimensional drawing

Unit: mm



## Flow curve



Two-wire connection (the pump runs at full speed): the positive pole is connected to the red wire and the blue wire; the negative pole is connected to the black wire.

## Motor wiring

Red line	Yellow line	Blue line	Black line
Vcc	FG	PWM	GND
Positive electrode	Speed feedback	Speed regulation	Negative electrode

Model	Flow L/H	Negative MPa	Positive MPa	Noise Db	Power W	Life H
HLVP6-NB12	300	0.05	0.08	60	5	5000
HLVP6-NB24	300	0.05	0.08	60	5	5000
HLVP6-PB12	400	0.06	0.10	62	8	5000
HLVP6-PB24	400	0.06	0.10	62	8	5000

Note: The flow rate is tested under standard atmospheric pressure, room temperature 25°C, and direct discharge without pressure at the inlet and outlet.

Noise is tested at a distance of 500mm from the product. Quiet room test. There are currently no burshless models for sale. For other information, please contact customer service.

Note: The flow curve test environment (under standard atmospheric pressure, room temperature 25°C), due to differences in practicality, is for reference only.



- Small but powerful
- Series negative pressure <math><-0.082\text{MPa}</math>
- Parallel negative pressure <math><-0.06\text{MPa}</math>
- Dry running, durable and maintenance-free
- Brush or brushless motors
- Flow rate >480L/H
- Positive gas pressure >0.1MPa
- Chemical stability

Application Areas



Negative pressure wound therapy instrument



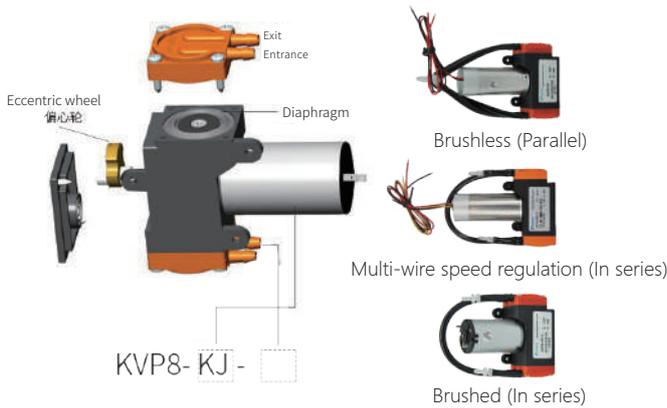
VOCs online detector



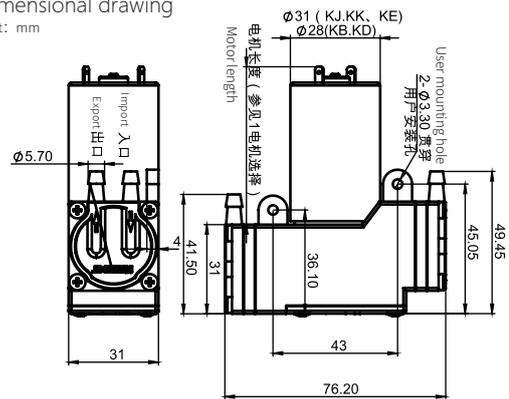
Air monitoring station



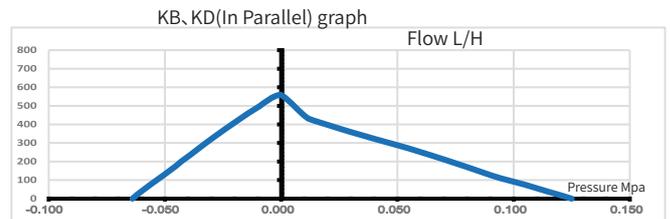
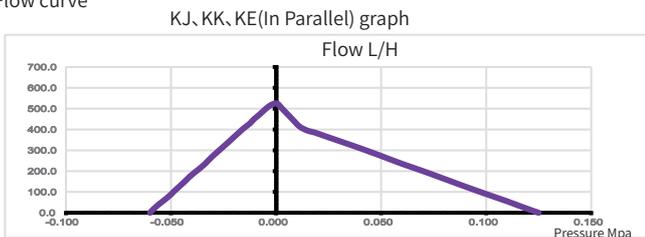
Portable oxygen generator



Dimensional drawing  
Unit: mm



Flow curve



Model	Flow(L/H)	Positive (Mpa)	Negative (Mpa)
KJ, KK, KE, KB, KD, (In Parallel)	>480	>0.1	<-0.06
KJ, KK, KE, (In series)	>320	>0.12	<-0.082
KB, KD (In series)	>400		

Note:

1. No-load current is the current when no gas is delivered.
  2. The rated current is the current value of the input and output terminals that are approximately the gas delivered under atmospheric pressure. In actual use, as the gas input and output pressure increase, the actual current value will increase accordingly.
- Working conditions: environment temperature 0~40°C  
Relative humidity <80%



- Small but powerful
- Series negative pressure  $\geq -0.09\text{Mpa}$
- Positive pressure  $>0.1\text{Mpa}$
- Dry running, durable and maintenance-free
- Flow rate  $\geq 360\text{L/H}$
- Parallel negative pressure  $\geq -0.07\text{Mpa}$
- Chemical stability

### Application Areas



Negative pressure wound therapy instrument



VOCs online detector



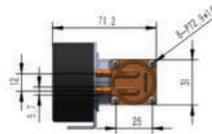
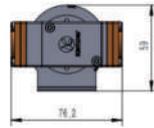
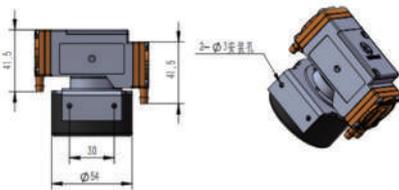
Air monitoring station



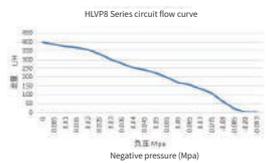
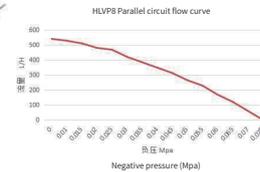
Portable oxygen generator

### Dimensional drawing

Unit: mm



### Flow curve



Model	Flow (L/H)	Positive pressure (Mpa)	Negative pressure (Mpa)	Noise (Db)
HLVP8-WB12-S(In serier)	$\geq 360$	Invalid use	$\geq 0.09$	$\leq 72$
HLVP8-WB12-(In parallel)	$\geq 480$	$\geq 0.1$	$\geq 0.07$	$\leq 72$
HLVP8-WB24-S(In serier)	$\geq 360$	Invalid use	$\geq 0.09$	$\leq 72$
HLVP8-WB24(In parallel)	$\geq 480$	$\geq 0.1$	$\geq 0.07$	$\leq 72$

### Motor wiring

Red line	Yellow line	White line	Black line
Vcc	FG	PWM	GND
Positive electrode	Speed feedback	Speed regulation	Negative electrode



- Small size and powerful
- Series negative pressure <math>< -0.09\text{Mpa}</math>
- Parallel negative pressure <math>< -0.07\text{Mpa}</math>
- Positive gas pressure >math>> 0.1\text{Mpa}</math>
- Flow rate >math>> 660\text{L/H}</math>
- Dry running, durable and maintenance-free
- Brush or brushless motors
- Chemical stability

Application Areas



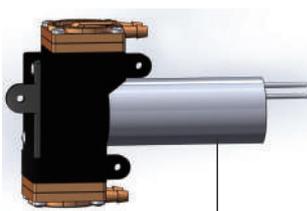
Negative pressure wound therapy instrument



Gene sequencing instrument

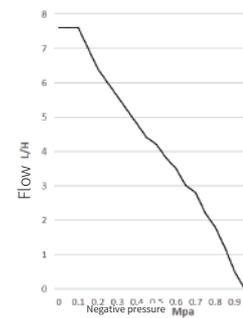
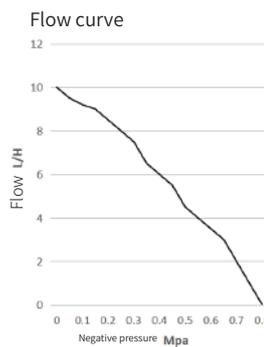


Portable oxygen generator

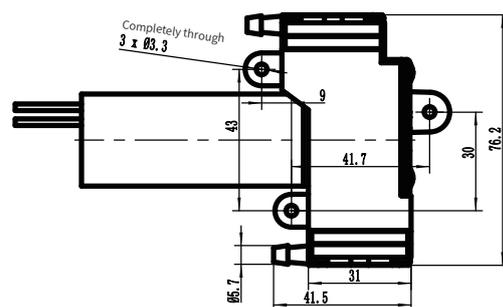
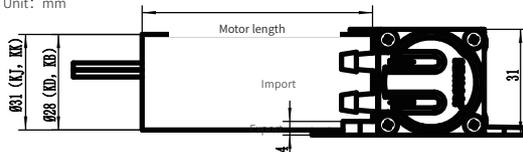


KVP8 plus-[KJ]-[S]

- KJ: 24V DC Brush motor
- KK: 12V DC Brush motor
- KB: 24V DC Brushless motor
- KD: 12V DC Brushless motor



Dimensional drawing  
Unit: mm



Parallel circuit	Model	Voltage (V)	Electric current (A)	Flow (L/H)	Positive (Mpa)	Negative (Mpa)	Noise (dB)	Power (W)
KVP8 plus	KK	12	0.75	≥600	≥0.15	≥0.07	≤74	9
	KJ	24	0.375	≥600				
	KD	12	0.75	≥660				
	KB	24	0.375	≥660				

Series circuit	Model	Voltage (V)	Electric current (A)	Flow (L/H)	Positive (Mpa)	Negative (Mpa)	Noise (dB)	Power (W)
KVP8 plus -S	KK	12	0.75	≥380	≥0.12	≥0.09	≤72	9
	KJ	24	0.375	≥380				
	KD	12	0.75	≥400				
	KB	24	0.375	≥400				

Note: 1. The flow parameters are measured without pressure at 20°C room temperature and standard atmospheric pressure. Actually, depending on the medium, outlet pressure, DC motor speed error, etc., the flow will have a certain error, and the data is for reference.

2. When the DC motor is running, temperature rise and heat generation are normal. 3. The vacuum diaphragm pump is mainly used as a vacuum pump. If it is used as a positive pressure source, it will affect the product life and performance. Please consult our company for specific use. In addition, it can be customized according to customer needs.

Other technical parameters

Working conditions: temperature 0~40°C; humidity <math>< 80\%</math>

This diaphragm air pump can not work continuously for a long time under the condition of positive pressure >math>> 0.02\text{MPa}</math>, otherwise it will greatly shorten the life of the product. Other special working conditions, please contact our company before purchasing



- Large negative pressure (In series  $\leq 0.092\text{Mpa}$ )
- Use DC brush motor
- Large flow (In parallel  $\geq 13\text{L/Min}$ )
- Good stability
- Dry running, durable, maintenance-free
- 12v or 24v voltages are optional.

### Application Areas



Automobile exhaust gas tester



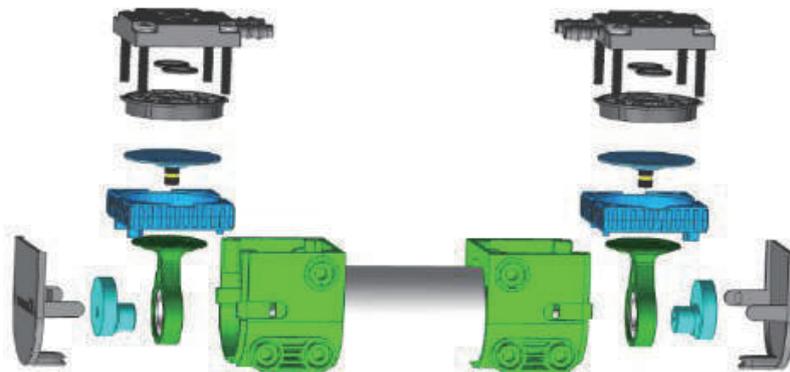
VOCs online detector



On-line flue gas detector



Traditional Chinese Medicine Sulfur Dioxide Analyzer



KVP15---

#### 1. Motor selection

- At present we provide 4 types of motors:
- KL: 24V DC brushless motor
  - KM: 12V DC brushless motor
  - KJ: 24V DC brush motor (single head)
  - KK: 12V DC brush motor (single head)

KVP15---

#### 2. Single and double head selection

1. Single head
2. Double head

KVP15---

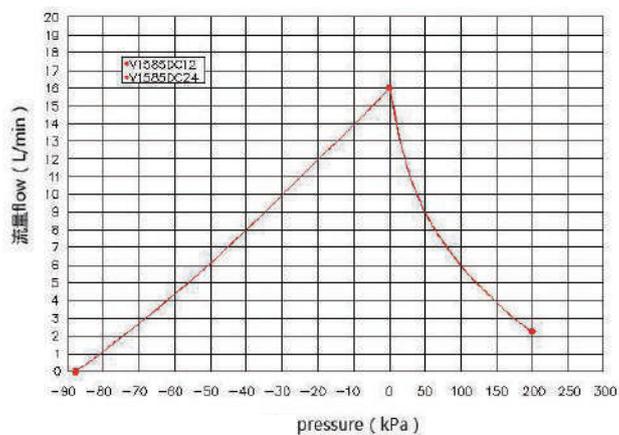
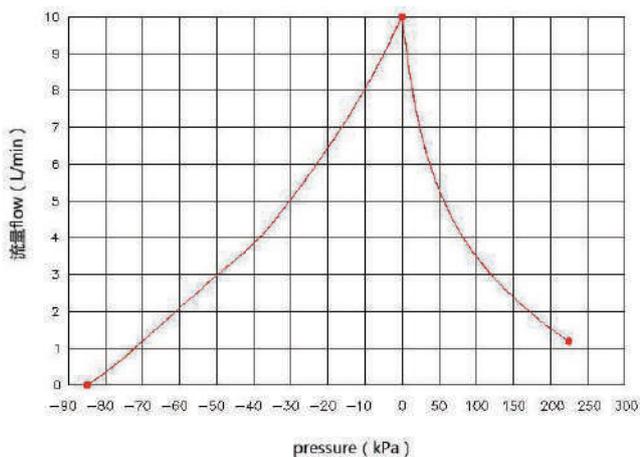
#### 3. Diaphragm selection

1. EPDM
2. PTFE

KVP15---

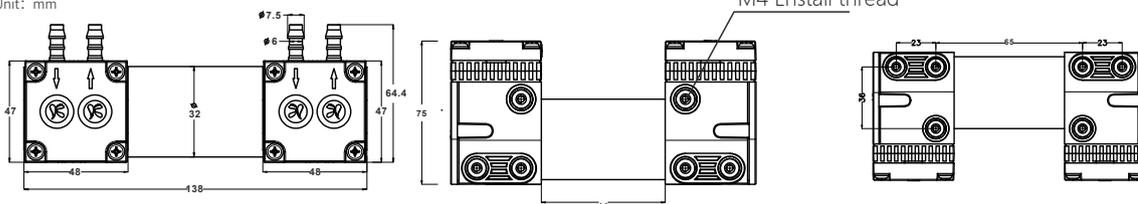


Flow curve

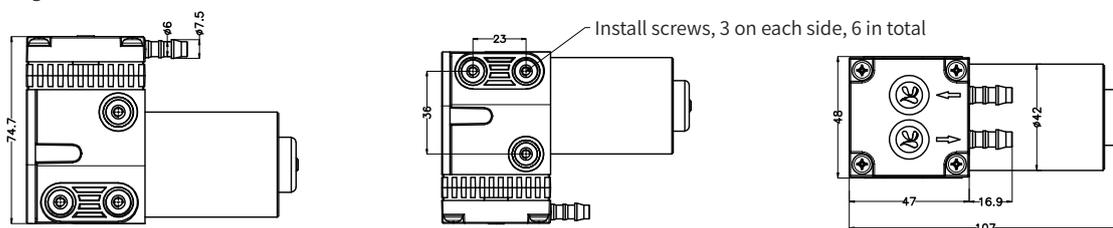


Dimensions of two pump heads

Unit: mm

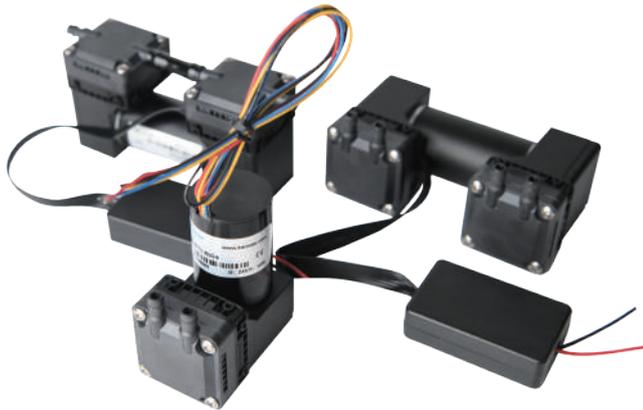


Single head size chart



Model	Flow (L/min)	Positive (Mpa)	Negative (Mpa)	Power (W)	Noise (dB)
KJ、KK、KL、KM Single head	10L/min	≥0.10	≤-0.065	7	≤74
KL、KM Double head In parallel	16L/min	≥0.15	≤-0.075	12.5	≤78
KL、KM Double head In series	10L/min	≥0.15	≤-0.092	12.5	≤78

Note: The above flow parameters are measured with pure water without pressure at 20°C room temperature and standard atmospheric pressure. Actually, according to different media, different outlet pressures, DC motor speed errors, etc., the flow will have certain errors. The data is for reference. In addition, it can be customized according to customer needs.



- Fluid medium: Air, general gas
- Working environment: Temperature: 0°C~50°C; Humidity: <80%
- Product weight: Type A 240g Type B/Type C 360g
- Rated power: 8W/10W
- Pump head material: PPS
- Product life: 8000H
- Diaphragm material: EPDM
- Protection level: IP42
- Motor type: Brushless motor

## Application Areas



Automobile exhaust gas tester



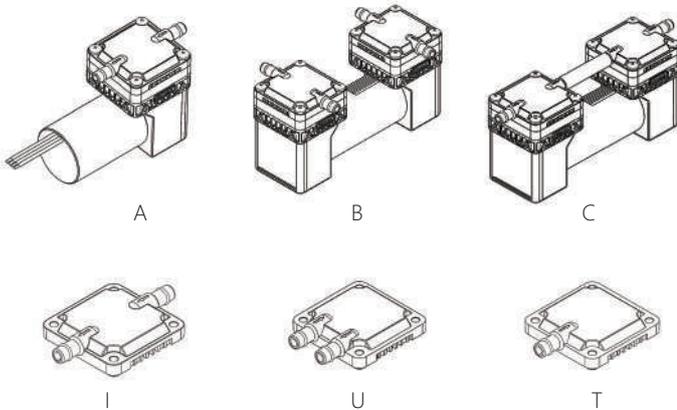
VOCs online detector



Medical washing microtiter plates



Automatic Chinese Medicine Sulfur Dioxide Analyzer

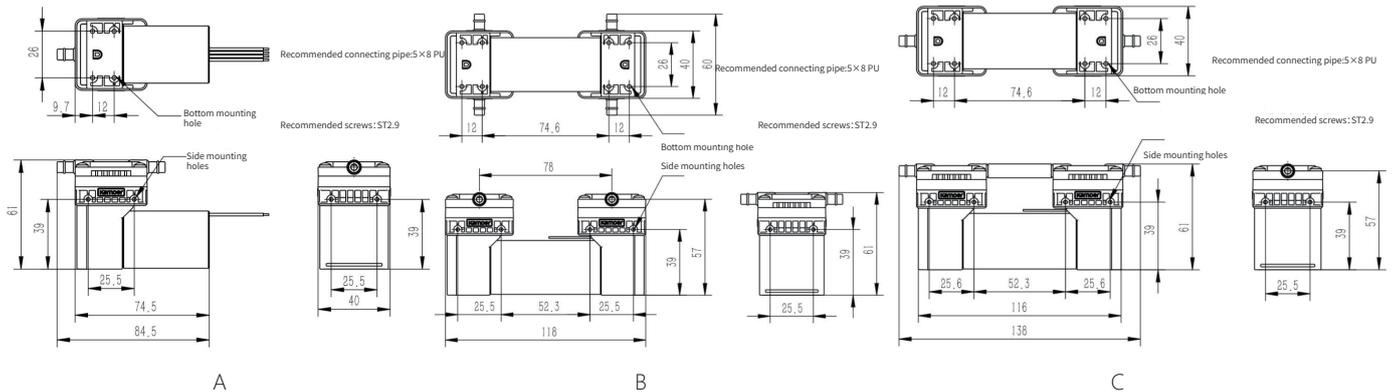


## HLVP15-A-I-XX

- Voltage: 12V 24V
- Valve plate: I type U type T type
- Type: A single head B parallel C series

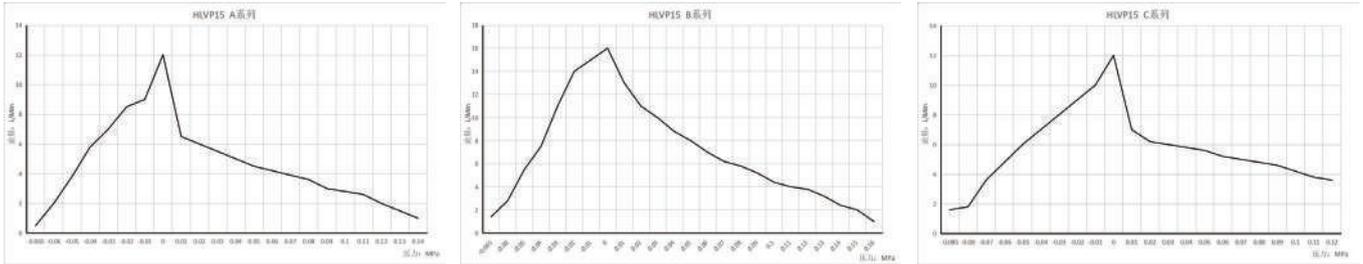
## Dimensional drawing

Unit: mm





Flow curve



Model	Flow (L/min)	Negative (Mpa)	Positive (Mpa)	Noise (dB)	Power (W)
HLVP15-A1XX	12	68	0.12	65	8w
HLVP15-AUXX	12	68	0.12	65	8w
HLVP15-ATXX	12	68	0.12	65	8w
HLVP15-B1XX	16	68	0.16	70	10W
HLVP15-BUXX	16	68	0.16	70	10W
HLVP15-C1XX	12	90	Invalide use	72	10W
HLVP15-CUXX	12	90	Invalide use	72	10W

The above green shades are regular products

Disclaimer: Plesae read the following parameter descriptions carefully before buying

1. Flow rate: under standard atmospheric pressure, the product is running without load, and the gas flow rate is tested;
2. Noise: the product runs without load; the distance of the decibel meter is 50CM; the silent room (environmental noise 40Db) test;
3. Life: refer to working environment. Harsh working conditions will reduce product life;
4. Pressure: The maximum pressure parameter that the pump can output under standard atmospheric pressure and normal power-on operation;
5. Positive pressure: It is not recommended to use positive pressure. When working under positive pressure, the output pressure should not exceed 0.1Mpa;
6. Power consumption: In order to ensure the normal operation of the product, the output should be larger than or equal to this value, and it is lower than this value during actual operation;
7. For other unreported questions, please contact customer service;
8. The final interpretation right of this product belongs to Kamoer Fluid Technology (Shanghai) Co., Ltd.

## Motor wiring

Red line	Yellow line	Blue line	Black line
Vcc	FG	PWM	GND
Positive electrode	Speed feedback	Speed regulation	Negative electrode

In addition to the above conventional models, HLVP15 can also achieve customized services:

- A. The valve plate can be replaced with a T-type valve plate: to realize a single flow channel, for customers who only need air intake/intake, saving customer space.
- B. The air outlet direction can be freely customized on the four quadrant axes.
- C. Please consult customer service for other customization



- High-quality engineering plastics, stable and reliable
- EPDM diaphragm & valve disc
- High performance, long life
- Simple design, beautiful and generous
- High performance brushless motor
- Straight power, durable
- Fluid medium: air, general gas
- Temperature range: 0°C~40°C
- Relative humidity: <60% (no condensation water)

## Application Areas



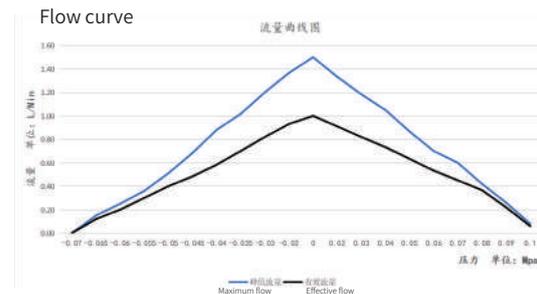
Fully automatic enzyme immune workstation



Automatic luminescence immunoassay analyzer

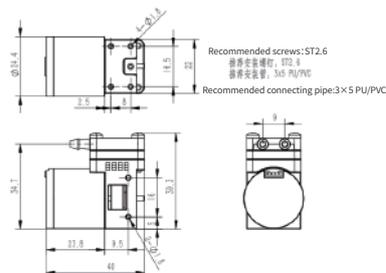
## KLVP1-S-B-12

- Voltage: 12V 24V
- Motor: B brushless D brush
- Number of pump heads: S single head D double head



## Dimensional drawing

Unit: mm



## Motor wiring

Red line	Yellow line	White line	Black line
Vcc	FG	PWM	GND
Positive electrode	Speed feedback	Speed regulation	Negative electrode

Model	Maximum flow L/H	Effective flow L/H	Negative MPa	Positive MPa	Noise Db	Power W	Life H
KLVP1-SB12	1.5	1	0.05	0.08	60	2	6000
KLVP1-SB24	1.5	1	0.05	0.08	60	2	6000
KLVP1-SD12	1.5	1	0.05	0.08	60	2	600
KLVP1-SD24	1.5	1	0.05	0.08	60	2	600

Peak flow: the test value under the glass rotameter. Effective flow rate: The measured flow rate under the TSI electronic flowmeter is tested under standard atmospheric pressure, room temperature 25°C, and direct discharge without pressure at the inlet and outlet.

The noise is at a distance of 500mm from the product. The test life data of the silent room is the test result under the general environment. Bad working conditions will reduce the product life. The flow curve test environment under standard atmospheric pressure, room temperature 25°C, there will be errors due to differences in practicality, is for reference only.

For other information that has not been notified, please contact customer service.



- Maximum pressure time: 11.5 seconds
- Rated voltage: DC6V
- Temperature: 5°C~50°C; humidity 30%RH~85%RH.
- Maximum current consumption: 430Ma
- Maximum test noise: 55DB
- Maximum pressure: 400mmHg

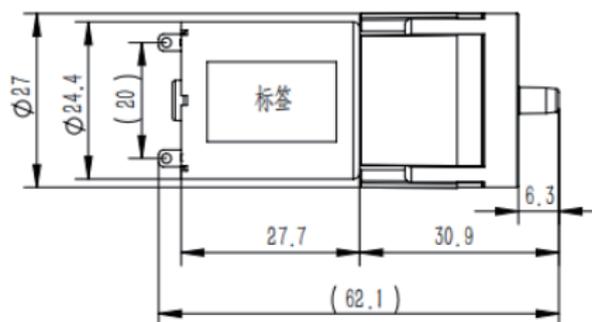
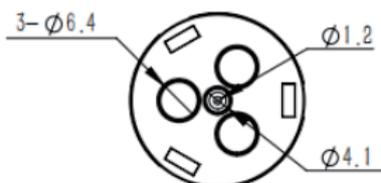
### Application Areas



Sphygmomanometer

### Reliability test

1. Low temperature test -25°C for 96 hours, then take it out, and place it at room temperature for another 2 hours before measuring the characteristics.
2. High temperature test +70°C for 96 hours, then take it out, and then place it at room temperature for another 2 hours, then perform characteristic measurement.
3. High-temperature and high-humidity test +70°C95%RH for 96 hours, then take it out, and then place it at room temperature for another 2 hours, then perform characteristic measurement.
4. Temperature and humidity cycle test +70°C85%RH×3H→-20°C×3H Treat these as one cycle and repeat 10 cycles.
5. Endurance test Tested as follows, after 30,000 cycles, the following technical parameters can be met: Maximum pressure time: 15S Maximum current consumption: 520Ma; Air leakage: 10mmHg/min Maximum noise: 60Db
6. Landing test In the standard packaging state, the height is 50cm from the concrete floor, and there is no abnormality after free fall on each of the six sides.





- Maximum pressure time: 10 seconds
- Rated voltage: DC3V
- Temperature: 5°C~45°C; Humidity: 30%RH~85%RH
- Maximum current consumption: 450Ma
- Maximum test noise: 55DB
- Maximum pressure: 350mmHg

### Application Areas



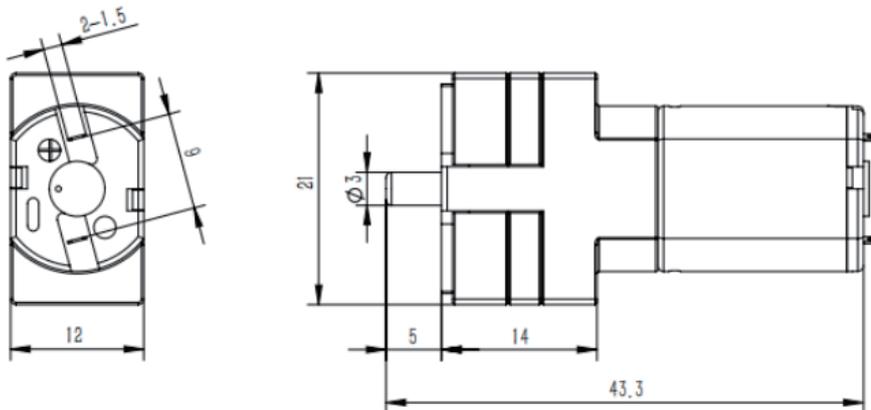
Sphygmomanometer

### Reliability test

1. Low temperature test -25°C for 96 hours, then take it out, and place it at room temperature for another 2 hours before measuring the characteristics.
2. High temperature test +70°C placed for 96 hours and then taken out, placed at room temperature for another 2 hours and then measured characteristics.
3. High-temperature and high-humidity test +70°C95%RH for 96 hours and then take it out, and then place it at room temperature for another 2 hours and then perform characteristic measurement.
4. Temperature and humidity cycle test +70°C85%RHx3H→-20°Cx3H Treat these as one cycle and repeat 10 cycles.
5. Endurance test Test as follows, after 30,000 cycles, the following technical parameters can be met: maximum pressurization time: 15S, maximum current consumption: 520Ma; air leakage: 10mmHg/min, maximum noise: 60DB
6. Landing test In the standard packaging state, the height is 50cm from the concrete floor, and there is no abnormality after a free fall on each of the six sides.

### Dimensional drawing

Unit: mm





- Small size and powerful
- Negative pressure  $\geq -0.098\text{MPa}$
- Positive gas pressure  $> 0.1\text{MPa}$
- Dry running, durable and maintenance-free
- Flow rate  $\geq 270\text{L/H}$
- Chemical stability
- Flexible installation of nozzle direction (consult customer service)

### Application Areas



Negative pressure wound therapy instrument



VOCs online detector



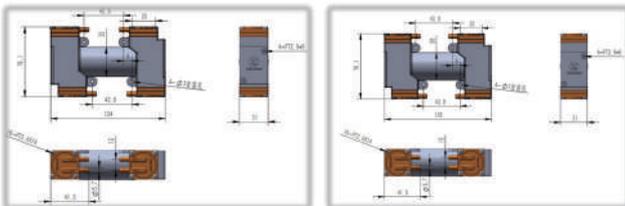
Air testing station



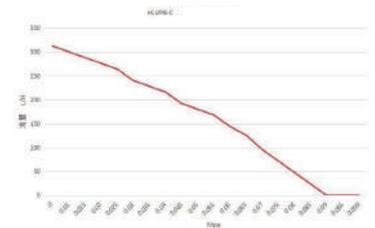
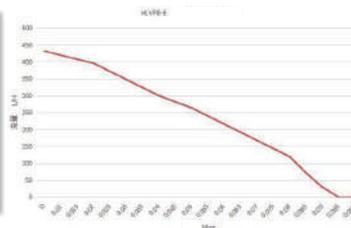
Portable oxygen generator

### Dimensional drawing

Unit: mm



### Flow curve



Model	Flow(L/H)	Negative MPa	Positive MPa	Noise DB
HLVP8-B24-2-S	$\geq 360$	$\geq 0.098$	Invalid use	$\leq 75$
HLVP8-B12-2-S	$\geq 360$	$\geq 0.098$	Invalid use	$\leq 75$
HLVP8-C24-2-S	$\geq 270$	$\geq 0.098$	Invalid use	$\leq 75$
HLVP8-C12-2-S	$\geq 270$	$\geq 0.098$	Invalid use	$\leq 75$

Note:

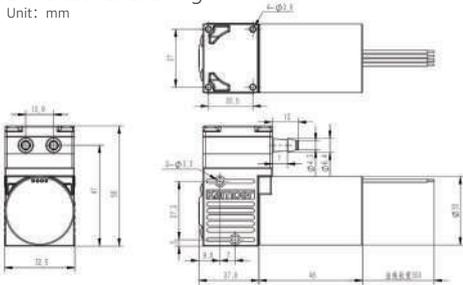
1. The no-load current is the current when no gas is delivered.
2. The rated current is the current value of the input and output terminals that are approximately the gas delivered under atmospheric pressure. In actual use, as the gas input and output pressure increase, the actual current value will increase accordingly.



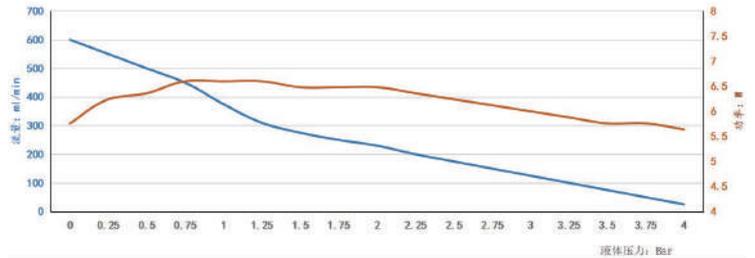
- Fluid medium: general liquid (compatibility test is required for special liquid)
- Liquid pressure: the maximum pressure can reach 3.5Bar
- Core material: PPS pump head & EPDM diaphragm
- Core drive: high-quality DC motor
- Installation method: two installation methods, supporting vibration damping machine feet
- Control method: PWM and analog voltage speed regulation
- Input voltage: 12V/24V input
- Working environment: temperature range: 5°C~50°C; relative humidity: <90%
- Product weight: 200g

Dimensional drawing

Unit: mm



Flow curve



Red line	Yellow line	Blue line	Black line
Vcc	FG	PWM	GND
positive electrode	Speed feedback	Speed regulation	negative electrode

1. Two-wire connection (the pump runs at full speed): the positive pole is connected to the red and blue wires, and the negative pole is connected to the inner wire
2. FG feedback: one pulse speed per revolution (revolution/min) = FG signal \* 60
3. PWM speed regulation: 10K-30K full speed: high level 100%

Model	Flow(ml/min)	Suction Lift(M)	Lift(M)	Maximum Pressure (Bar)	Maximum Power (W)	Life(H)
JET500-D12	500	2	30	3.5	8	2000
JET500-D24	500	2	30	3.5	8	2000
JET500-B12	500	2	30	3.5	8	8000
JET500-B24	500	2	30	3.5	8	8000

Note: There are currently two motors available: brushed motor/brush less motor

The flow rate is tested under standard atmospheric pressure, room temperature 25°C, and direct discharge without pressure at the inlet and outlet.

The life data is the test result under the general environment. The harsh working conditions will reduce the life of the product

Flow curve (brush less motor, standard atmospheric pressure, room temperature 25°C), due to practical differences, for reference only

For other uninformed information, please contact customer service



Silicone tube



PharMed®BPT tube



Noeprene® tube



Viton tube



Tefon tube



PVC tube



Tygon tube



PU tube



Tygon Ink tube

Pump tube code	Pump tube material	Pump tube performance parameters
S	Silicone tube	Good adsorption, low temperature resistance, low deposition, chemical corrosion resistance can be decreased with the rise of temperature. Suitable for transporting weak corrosive liquid (30%).
		Applicable Temperature: -60°C~200°C。 Lifetime: 200H
B	PharMed®BPT tube	Has very good general chemical resistance, and excellent acid, alkali and oxidation properties. Product is not transparent and resistance to ultraviolet radiation, thus helps protect sensitive liquid.
		Applicable Temperature: -51°C~132°C。 Lifetime: 2000H
N	Noeprene® tube	Resistant to almost all of the food disinfectant, UV resistance is good, can repeat subjected to pressure the effect of heat exchanger, a wide range of chemical resistance. Comply with FDA, 3 - A and NSF certification.
		Applicable Temperature: -60°C~135°C。 Lifetime: 1000H
P	PVC tube	Surface gloss and elastic. PVC pipe is transparent, PU black, resistance to ultraviolet radiation, thus helps protect sensitive liquid.
		Applicable Temperature: 5°C~60°C
V	Viton tube	Good resistance to oil, fuel, lubricants, and most of the mineral acid. Good tolerance environmental exposure, such as the sun. Excellent high temperature resistant ability.
		Applicable Temperature: -20°C~250°C。 Lifetime: 500H
/	Tefon tube	Non-sticky, high insulation, high flame retardancy, 60HZ, 60MHZ high and low temperature dielectric constant is 2.1, non-toxic and corrosion resistant, concentrated, dilute inorganic acid, alkali, ester have no effect, low absorption rate <0.01% The light refractive index is low, and the arc resistance is >165 seconds without leakage.
		Working temperature: -200°C~200°C

Note: The above working life is the life at 300 RPM rotation speed of pure water at normal temperature.

## Silicone tube

ID (mm)	OD (mm)	Wall thickness (mm)	Cross section (mm)
3.0	5.0	1.0	
4.0	6.0		
1.0	3.0		
2.5	4.5		
2.0	4.0		
8.0	10.0		
2.0	4.0		
0.8	3.0		1.1
1.0	3.3	1.15	
0.6	3.0	1.2	
1.5	4.0	1.25	
1.0	3.5		
2.0	5.0		
0.4	3.0	1.3	
3.0	6.0	1.5	
5.0	8.0		
4	7.2	1.6	
8	12	2	
7.9	12.7	2.4	
9.6	14.6	2.5	

Tube number	ID (mm)	OD (mm)		Cross section (mm)
13#	0.8	4.0	1.6	
14#	1.6	4.8		
19#	2.4	5.6		
16#	3.2	6.4		
25#	4.8	8.0		
17#	6.4	9.6		
18#	7.9	11.1		

ID (mm)	OD (mm)	Wall thickness (mm)	Cross section (mm)
5.0	8.2	1.6	

Tube number	ID (mm)	OD (mm)	Wall thickness (mm)	Cross section (mm)
/	5.0	10.0	2.5	
24#	6.4	11.4		
/	10.0	15.0		
15#	4.8	9.8		
/	7.5	13.0	2.8	

### Tygon Ink tube

Colour	ID (mm)	OD (mm)	Wall thickness (mm)	Cross section (mm)
Transparent	3.2	6.4	1.6	
Yellow	2	4	1	

### Noeprene® tube

Color	Tube number	ID (mm)	OD (mm)	Wall thickness (mm)	Cross section (mm)
Beige	17#	6.4	9.6	1.6	
	16#	3.2	6.4		
	25#	4.8	8.0		
	14#	1.6	4.8		
	19#	2.4	5.6		
	/	4	7.2		
Black	16#	3.2	6.4		
	25#	4.8	8.0		
	14#	1.6	4.8		
	/	6.4	9.6		

### PVC tube

Color	Material	ID (mm)	OD (mm)	Wall thickness (mm)	Cross section (mm)
Transparent	PVC	3.0	5.0	1	
	PVC	2.0	4.0		
	PVC	4.0	6.0		
Red Blue	Green Yellow	PVC	3.0		5.0

### PU tube

ID (mm)	OD (mm)	Wall thickness (mm)	Cross section (mm)
4	6	1	
3	5		

### Viton tube

ID (mm)	OD (mm)	Wall thickness (mm)	Cross section (mm)
2.79	4.49	0.85	
2.54	4.24	0.85	
1.65	3.4	0.875	
1.6	4.8	1.6	
3.1	6.3	1.6	
0.8	4	1.6	

### Tefon tube

ID (mm)	OD (mm)	Wall thickness (mm)	Cross section (mm)
2.0	4.0	1.0	
3.0	5.0		
4.0	6.0		
4.0	5.0	0.5	

Pharmed® BPT tube

Tube number	ID (mm)	OD (mm)	Wall thickness (mm)	Cross section (mm)
/	1.5	3.5	1.0	
/	2	4		
/	2.5	4.5		
/	3	5		
/	4	6		
/	1	3.2		1.1
/	0.8	4	1.6	
14#	1.6	4.8		
/	2.38	5.56		
16#	3.2	6.4		
/	4	7.2		
25#	4.8	8		
17#	6.4	9.6		
/	1.6	3.2	0.8	
/	4.8	9.8	2.5	

MasteFlex® tube

内径 (单位 : mm)	外径 (单位 : mm)	壁厚 (单位 : mm)	软管截面 (比例1:1)
2.79	4.49	0.85	
2.54	4.24	0.85	
1.65	3.4	0.875	
1.6	4.8	1.6	
3.1	6.3	1.6	
0.8	4	1.6	

Straight-through pump pipe joint	ID (mm)			
	( inch )		(mm)	
	1/16		1.6	
	3/32		2.4	
	1/8		3	
	5/23		3.9	
	3/16		4.7	
	1/4		6.3	
	3/8		9.5	
	Y model pump tube connector	1/16		1.5
	3/32		2.3	
	1/8		3	
	5/32		3.9	
	3/16		4.7	
	1/4		6.3	
	3/8		9.5	
Reduced diameter pump pipe joint	ID (mm) 1		ID (mm) 2	
	( inch )	(mm)	( inch )	(mm)
	1/8	3	3/32	2.3
	1/8	3	1/16	1.5
	1/8	3	3/16	4.7
	1/8	3	1/4	6.3
	3/32	2.3	5/32	3.9
T connector	ID (mm)			
	( inch )		(mm)	
	3/32		2.3	
	1/8		3.6	
	3/16		5	
	1/4		6.3	
	5/16		7.9	
L connector	1/4		6.3	
	1/8		3	
	1/16		1.5	
	3/16		4.7	
	3/32		2.3	
	5/32		3.9	

Cross connector	ID (mm)	
	(inch)	(mm)
	1/16	1.5
	1/8	3
	1/8 Six joints	3
	1/8	6*4
	1/8	8*5~6
	1/8	10*6.5
	1/4	6*4
	1/4	8*5~5
	1/4	10*6.5
	1/4	7
	1/8	3.8
	3/16	5
	3/32	2.6
	5/32	4
	1/8 Ruhr connector	3.7
	1/16 Ruhr connector	2
	1/8 Ruhr Joint	3.4
	3/32 Ruhr connector	3.2
	3/16 Joint connector	5
	3/16 Filter connector	22.6
	3/32 Ruhr Joint	2.6
	5/32 Six-joint	4
	3/32 to 5/32 (Reducer check valve)	ID 1(2.6) ID 2(5.8)

### Prevent drifting joints

Model	K01	K02
Products real shot		
Temperature range	5~60°C	150°C
Pressure resistance	1.0Mpa	1.5Mpa
Suitable material for pump tube	Hard tube	Hose
Interface pump tube caliber(mm)	φ6	
Installation form	Direct insertion	
Scope of application	Exhaust/neutral liquid	
The main material	Brass	

Model	Exterior	Motor use	Size	Speed adjustment	RS232 Communication Interface	RS485 Communication Interface	Use Model
2405.2 Driver board		Brushless DC motor, external PWM speed control board	8.5	√	×	×	KVP04/KLP04
		Brushless DC motor, built-in PWM speed control board					
2300.3 Driver board		Stepper motor control driver board	7.8*6.8	√	√	√	KAS/KCS/KDS
4460.4 Driver board		Control drive board	6.1*6.1	√	√	√	KAS/KCS/KDS
KMD-542 Driver board		Stepper motor driver	9.6*7.1*3.6	×	×	×	KAS/KCS/KDS

Exterior	Model	Material	Sealing material	Inner hole size	Voltage	KV Value	Qnn Value
	KVE33PL12F11Q161	PVDF	FKM	1.6mm	12/DC	0.045	49
	KVE32PL24FF1Q163				24/DC	0.025	27
	KVE32PL12FF1Q163				12/DC		
	KVE21PS24N2N651	PP	NBR	6.5mm	24/DC		

	Bucket	High temperature plastic water storage bucket
	Vacuum pump silencer	Extend the life of the air pump, small size, no consumables
	Anti-floating joint	316L stainless steel material, two passages are 6mm and 2.5mm respectively

Power adapter	SpeciPcation
	<p>Voltage: 3V, 6V, 12V, 24V            Input: AC100-240V 50/60HZ            Output: DC12V            Output current: 1A            Deviation: ±5% (on-load)            Proarity: inside (+) outside (-)            Plug stype: 5.5*2.1mm</p>
Multi-function power	SpeciPcation
	<p>12V Large power supply            Input: 100-240V 50-60HZ 0.8A            Output: 12V , 2A            L.T.E.POWER SUPPLY            Proarity:inside(+) outside(-)            Plug style:5.5*2.1mm</p>

## The compatibility of the pump

Tygon hose table chart chemical resistance performance assessments are based on laboratory test results. They reflect a variety of hose formulae and the relative ability of resistance to specific chemicals. Note: the estimates in the table cannot be reflected in the media contact with the hose may occur in the extraction and medium levels of physical performance or composition changes. Saint-Gobain performance plastics companies in extraction may occur due to transmission medium pipe components resulting in a medium polluted or its performance/composition change on this sensitive issue without any representations or warranties. For prolonged exposure may be some corrosion of the pipes are destructive, provided that it can be often flushed in a timely manner, satisfactory results can be obtained. All estimates are at room temperature (23 ° C/73 ° F) measured. Chemical resistance due to temperature rise and decline. Important notice: users are responsible for ensuring that all of its intended use and safety, including compatibility of the transmission medium. Laboratory, field and clinical tests must be operated according to the actual requirements, to pipe in any specific application in safety and effectiveness. If used for medical, pipe in line with actual business, users are responsible for ensuring that the regulatory requirements.

Compatibility	PharMed®BPT	Viton	Norprene®	Norprene®Food	Silicon
E=Excellent G=Good F=Not bad X=Incompatible /=No info					
Acetaldehyde	X	X	X	X	E
Acetate LMW	E	/	E	E	/
Acetic acid <5%	E	/	E	E	/
Acetic acid >5%	E	G	E	E	/
Acetic anhydride	E	X	E	E	F
Acetone	X	X	X	X	X
Acetonitrile	G	X	G	G	/
Acetyl bromide	F	/	F	F	/
Acetyl chloride	F	E	F	F	/
Air	E	E	E	E	/
Aliphatic hydrocarbons	X	/	X	X	/
Aluminum chloride	E	E	E	E	G
Aluminum sulfate	E	E	E	E	E
Alums	E	E	E	E	E
Ammonia, gas/liquid	E	X	E	E	/
Ammonium acetate	E	X	E	E	/
Ammonium carbonate	E	E	E	E	F
Ammonium chloride	E	E	E	E	F
Ammonium hydroxide	E	G	E	E	E
Ammonium nitrate	E	E	E	E	F
Ammonium phosphate	E	E	E	E	/
Ammonium sulfate	E	E	E	E	E
Amyl acetate	G	X	G	G	X
Amyl alcohol	X	E	X	X	X
Amyl chloride	F	E	F	F	X
Aniline	F	G	F	F	G
Aniline hydrochloride	F	G	F	F	X
Aqua regia (80% HCl, 20% H)	X	G	X	X	/
Aromatic hydrocarbons	X	E	X	X	X
Arsenic salts	E	X	E	E	/

Compatibility E=Excellent G=Good F=Not bad X=Incompatible /=No info	PharMed®BPT	Viton	Norprene®	Norprene®Food	Silicon
Barium salts	E	E	E	E	/
Benzaldehyde	X	X	X	X	X
Benzenesulfonic acid	X	E	X	X	/
Bleaching liquors	E	E	E	E	G
Boric acid	E	E	E	E	E
Bromine	X	E	X	X	X
Butane	E	E	E	E	X
Butanol (butyl alcohol)	X	E	X	X	G
Butyl acetate	G	X	G	G	/
Butyric acid	G	G	G	G	X
Calcium oxide	E	E	E	E	E
Calcium salts	E	E	E	E	/
Carbon bisulfide	X	/	X	X	/
Carbon dioxide	E	E	E	E	G
Carbon tetrachloride	X	E	X	X	X
Chlorine, dry	F	E	F	F	/
Chlorine, wet	X	G	X	X	/
Chloroacetic acid	G	X	G	G	X
Chlorobenzene	X	E	X	X	X
Chlorobromomethane	G	E	G	G	X
Chloroform	F	E	F	F	X
Chlorosulfonic acid	X	X	X	X	X
Chromic acid, 30%	E	E	E	E	/
Chromium salts	E	/	E	E	/
Copper salts	E	E	E	E	/
Cresol	X	E	X	X	X
Cyclohexane	X	E	X	X	X
Cyclohexanone	X	X	X	X	X
Diacetone alcohol	E	X	E	E	X
Dimethyl formamide	G	X	G	G	F
Dimethyl Sulfoxide (DMSO)	E	/	E	E	/
Essential oils	X	/	X	X	/
Ethanol (ethyl alcohol)	F	E	F	F	/
Ether	F	X	F	F	X
Ethyl acetate	G	X	G	G	G
Ethyl bromide	X	E	X	X	/
Ethyl chloride	F	E	F	F	X
Ethylamine	X	X	X	X	/
Ethylene chlorohydrin	E	E	E	E	F
Ethylene dichloride	F	E	F	F	X
Uric acid	E	/	E	E	/

Compatibility E=Excellent G=Good F=Not bad X=Incompatible /=No info	PharMed®BPT	Viton	Norprene®	Norprene®Food	Silicon
Ethylene glycol	E	E	E	E	E
Ethylene oxide	E	X	E	E	X
Fatty acids	F	E	F	F	F
Ferric chloride	E	E	E	E	G
Ferric sulfate	E	E	E	E	G
Ferrous chloride	E	E	E	E	/
Ferrous sulfate	E	E	E	E	/
Fluoboric acid	X	/	X	X	/
Fluoroborate salts	E	/	E	E	/
Fluosilicic acid	F	E	F	F	/
Formaldehyde	X	X	X	X	G
Formic acid, 25%	E	X	E	E	G
Zinc oxide	E	E	E	E	/
Gasoline, high-aromatic	X	E	X	X	/
Gasoline, nonaromatic	X	E	X	X	/
Glucose	E	E	E	E	E
Glue, P.V.A.	E	E	E	E	E
Glycerin	E	E	E	E	E
Hydriodic acid	X	E	X	X	/
Hydrobromic acid, 30%	X	E	X	X	/
Hydrochloric acid (conc)	/	E	/	/	/
Hydrochloric acid (dil)	E	E	E	E	/
Hydrochloric acid (med)	G	E	G	G	/
Hydrocyanic acid	E	E	E	E	F
Hydrocyanic acid, gas, 10%	E	E	E	E	/
Hydrofluoric acid, 50%	X	X	X	X	/
Hydrofluoric acid, 75%	/	X	/	/	/
Hydrogen peroxide (dil)	E	E	E	E	/
Hydrogen peroxide, 90%	G	E	G	G	/
Hypochlorous acid	E	E	E	E	/
Iodine solutions	E	E	E	E	/
Iodoform	/	F	/	/	/
Kerosene	X	E	X	X	X
Ketones	X	/	X	X	/
Lacquer solvents	G	X	G	G	/
Lactic acid, 3–10%	E	E	E	E	/
Lead acetate	E	X	E	E	E
Linseed oil	F	E	F	F	/
Lithium hydroxide	G	F	G	G	/
Magnesium chloride	E	E	E	E	E
Water, fresh	E	E	E	E	G

Compatibility E=Excellent G=Good F=Not bad X=Incompatible /=No info	PharMed®BPT	Viton	Norprene®	Norprene®Food	Silicon
Magnesium sulfate	E	E	E	E	E
Malic acid	E	E	E	E	G
Manganese salts	E	E	E	E	/
Mercury salts	E	E	E	E	/
Methane	E	E	E	E	X
Methanol (methyl alcohol)	E	G	E	E	E
Methyl chloride	F	G	F	F	X
Methyl ethyl ketone (MEK)	X	X	X	X	/
Mixed acid (40% H2SO4, 15% HNO3)	G	/	G	G	/
Molybdenum disulfide	/	E	/	/	/
Monoethanolamine	F	X	F	F	G
Naphtha	X	E	X	X	X
Natural gas	E	E	E	E	E
Nickel salts	E	E	E	E	/
Nitric acid (conc)	X	E	X	X	/
Nitric acid (dil)	E	G	E	E	/
Nitric acid (med)	E	E	E	E	/
Nitrobenzene	X	G	X	X	X
Nitrogen oxides	E	X	E	E	/
Nitrous acid	E	/	E	E	/
Oils, animal	F	E	F	F	/
Oils, mineral	X	E	X	X	/
Oils, vegetable	F	E	F	F	/
Oleic acid	F	G	F	F	X
Oxalic acid, cold	G	E	G	G	/
Oxygen, gas	E	G	E	E	/
Palmitic acid, 100% in ether	F	E	F	F	/
Perchloric acid	E	E	E	E	X
Perchloroethylene	F	E	F	F	X
Phenol (carbolic acid)	E	E	E	E	X
Phosphoric acid, 50%	E	E	E	E	/
Phthalic acid	E	G	E	E	G
Plating solutions	E	E	E	E	/
Polyglycol	G	E	G	G	/
Potassium carbonate	E	E	E	E	/
Potassium chlorate	G	E	G	G	G
Potassium hydroxide (conc)	E	X	E	E	/
Potassium hydroxide (med)	E	X	E	E	/
Potassium iodide	E	E	E	E	/
Propanol (propyl alcohol)	F	E	F	F	/
Water, salt	E	E	E	E	G

Compatibility E=Excellent G=Good F=Not bad X=Incompatible /=No info	PharMed®BPT	Viton	Norprene®	Norprene®Food	Silicon
Pyridine	F	X	F	F	X
Xylene	E	E	E	E	/
Silicone oils	F	E	F	F	/
Silver nitrate	E	E	E	E	E
Soap solutions	G	E	G	G	E
Sodium bicarbonate	E	E	E	E	E
Sodium bisulfate	E	E	E	E	E
Sodium bisulfite	E	E	E	E	E
Sodium borate	E	E	E	E	E
Sodium carbonate	E	E	E	E	E
Sodium chlorate	E	E	E	E	F
Sodium chloride	E	E	E	E	E
Sodium ferrocyanide	E	E	E	E	/
Sodium hydrosulfite	G	/	G	G	F
Sodium hydroxide (conc)	/	E	/	/	/
Sodium hydroxide (dil)	E	E	E	E	/
Sodium hydroxide, 25%	E	E	E	E	/
Sodium hypochlorite, <5%	E	E	E	E	/
Sodium hypochlorite, >5%	E	E	E	E	/
Sodium nitrate	E	E	E	E	X
Sodium silicate	E	E	E	E	E
Sodium sulfide	E	E	E	E	E
Sodium sulfite	E	E	E	E	E
Steam, up to 40 psi	F	G	F	F	/
Stearic acid	F	E	F	F	G
Styrene	X	E	X	X	X
Sulfuric acid (conc)	X	E	X	X	/
Sulfuric acid (dil)	E	E	E	E	/
Sulfuric acid (med)	E	E	E	E	/
Sulfurous acid	E	G	E	E	X
Tannic acid	G	E	G	G	G
Tanning liquors	E	/	E	E	G
Tartaric acid	E	E	E	E	E
Tin salts	E	/	E	E	G
Toluene (toluol)	X	E	X	X	X
Trichloroacetic acid	G	F	G	G	X
Trichloroethylene	X	E	X	X	X
Trisodium phosphate	E	E	E	E	E
Turpentine	X	E	X	X	X
Urea	E	/	E	E	G
Xylene	X	E	X	X	X

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# 高新技术企业证书

企业名称: 卡川尔流体科技(上海)有限公司  
 证书编号: GR201831001852  
 发证时间: 2018年11月27日  
 有效期: 三年  
 批准机关:



## 证书

TÜV SÜD Management Service GmbH  
 认证商  
 地址:

卡川尔流体科技(上海)有限公司  
 中国上海市虹口区东昌路79号4号楼3层  
 邮政编码: 201011

统一社会信用代码 / Organization code: 913101175884010734

自 2018 年 12 月 04 日  
 建立并实施了质量管理体系

覆盖范围: 研发、生产、销售

地址: 中国, 上海市, 782194001  
 认证标准: ISO 9001:2015

ISO 9001:2015

有效期:

本证书的有效期至 2018-12-04 日至 2021-12-03 日  
 符合 ISO 9001:2015 标准的要求并符合认证机构的所有附加要求

认证注册号: 12 180 47064 TMS

See: www.tuev.com.cn / www.tuev.com

*H. Ludwig*  
 TÜV SÜD Management Service GmbH  
 12 180 47064 TMS



## CERTIFICATE

The Certification Body  
 of TÜV SÜD Management Service GmbH  
 certifies that

Kamor Fluid Tech (Shanghai) Co., Ltd.  
 3rd Floor, 4th Building, No.79 Xiangyang Road, Songjiang District,  
 Shanghai, P. R. China  
 Post Code: 201611

Unified social credit code / Organization code: 913101175884010734

has established and applies  
 a Quality Management System for

Development, Manufacture and Sales of Membrane

An audit was performed. Report No. 782194001  
 It has been concluded that the requirements  
 according to

ISO 9001:2015

are fulfilled

The certificate is valid from 2018-12-04 until 2021-12-03.

The certifier undertakes shall undergo and pass  
 the regular surveillance audit to maintain the validity of this certificate.  
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