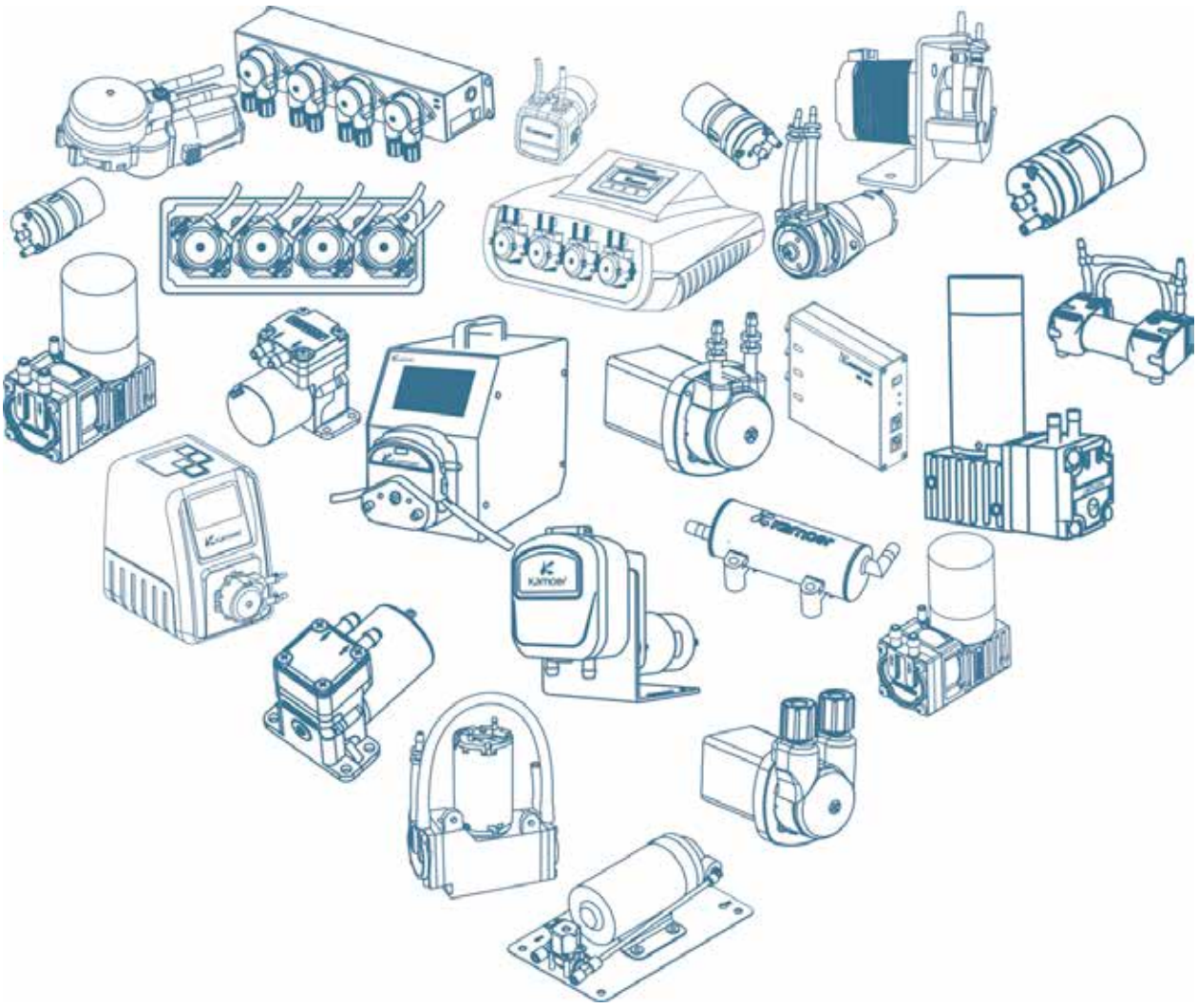
Product Manual

Make lt Smart To Pump Fluid



Liquid pump and gas pump Kamoer easy to use


Kamoer


Kamoer
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Kamoer


Kamoer

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.

目 录
Contents

Peristaltic Pump

Pump Machine

Vacuum Pump

NEW Newly developed product

Pump tube

Accessories


kamoer
KK15

Maximum flow ml/min	Product Series	Flow ml/min	Product use	Function	Page number
≤10	KMPP	1.8ml/min	Blood analyzer	Add reagent	43~44
	KGS		Handheld water analyzer	Sampling	
10~100	NKP	5.2~90ml/min	Deodorizing machine	Add concentrate	3~4
	KPP	1.2~90ml/min	Blood analyzer	Sampling	5~6
	KXF	3~80ml/min	Biochemical analyzer	Add cleaning agent	29~30
	KAS	4.5~71.5ml/min	Glycated hemoglobin detector	Add reagent	7~8
	KAS-ST	4.5~71.5ml/min	Liquid sample processor	Sampling	7~8
	KFS	1~85ml/min	Fecal analyzer	Add reagent	18~20
	KFS-ST	10~65ml/min	Aquatic plant culture	Add nutrient solution	23~24
100~500	KPP2	12.5~155ml/min	Biomedical analyzer	Add cleaning agent	16~17
	KCS	0.5~350ml/min	Protein analyzer	Add reagent	9~10
	KCS3	55~300ml/min	Water quality analyzer	Sampling	37~38
	KCS PLUS	18~180ml/min	Biomedical analyzer	Discharge waste	11~12
	KHS	210~320ml/min	Lmmunoassay analyzer	Discharge waste	35~36
	KHM	330~580ml/min	Sweeping robot	Keep the rag moist	41~42
500~1000	KCM	13.5~670ml/min	Water quality analyzer	Sampling	31~32
	EPST	540~620ml/min	Water quality analyzer	Sampling	97~98
	KDS	0.5~900ml/min	Water quality online monitor	Sampling	14~15
> 1000	KKDD	400~1600ml/min	Beverage machine	Quantitative extraction beverage	39~40
	KKST	400~1600ml/min	Juice machine	Quantitative extraction beverage	39~40
	KHL	1300~1800ml/min	Coffee machine	Quantitative extraction of coffee	25~26

Small but powerful,Colorful

NKP Peristaltic Pump

Has thin wall thickness pump tube;
Flow range: 5.2-60ml/min;
Small size and low power consumption;
Four colors for the customer to choose;
Suitable for intermittent working situations.

APPLICATION AREAS

Medical

Use with the equipment, Liquid transfer, Sample Þlling

Chemical

Liquid transfer, sample analysis Filling

Printing& Packaging

Ink transfer, Pipe cleaning, recycling

Laboratory

Liquid packaging, distribution, Quantitative extraction and Þlling

Food

Liquid-packing, Þlling

Environmental protection

Wastewater sampling, transport

Factory

Micro-Flow liquid packaging and Þlling

Smart Home

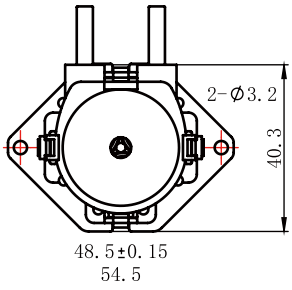
Water the ßowers, potted landscape irrigation

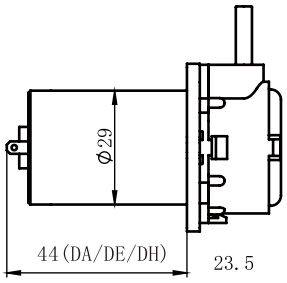
NKP- DA- B 08 B

Motor | Installation | Pump tube | Pump tube size | Colour

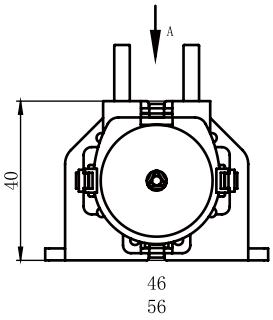
Flat plate

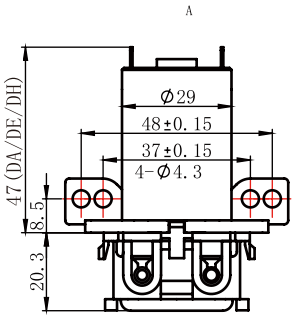
Unit：mm





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

Technical parameter

Pump tube length:135mm(Exposed29.5mm)Codenamed B tube; 175mm(Exposed49.5mm)Codenamed S tube

Working conditions：Temperature 0~40°C ；Humidity：＜80%

Weight：110g

Note: the above test data of new KP is measured at 20 ℃ at room temperature pure water under no pressure until the pump tube crack. Actual service life is related with medium, condition, temperature, humidity, voltage, speed and other factors, the measured data as a reference

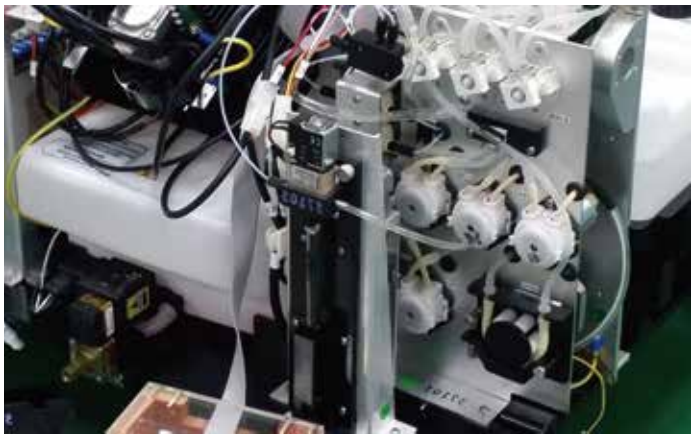
High Performance, Stable and controllable

L Plate

Flat Plate

KPP Peristaltic Pump

Has thin wall thickness tube;
Flow range: 1.2-90ml/min;
Small size and low power consumption;
Four colors for the customer to choose;
Suitable for intermittent working situations.



APPLICATION AREAS

Laboratory
Liquid packaging, distribution, Quantitative extraction and Þlling

Environmental protection
Wastewater sampling, transport

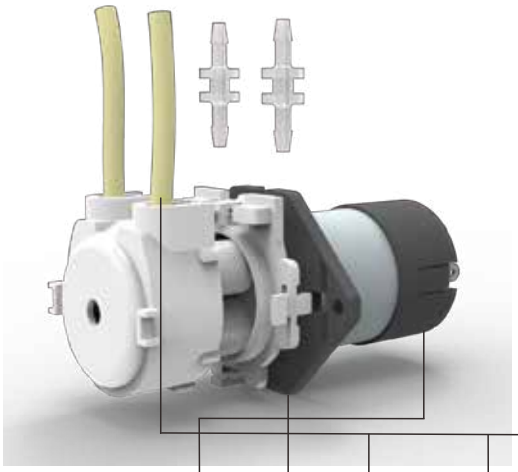
Printing&Packaging
Ink transfer, Pipe cleaning, recycling

Aquarium
Fish tank water circulation,Adding trace elements

Smart Home
Water the f lowers, potted landscape irrigation

Instruments equipment
Dishwashers, oil equipment Machine tool lubricants

Wiping machine
Machine accessories



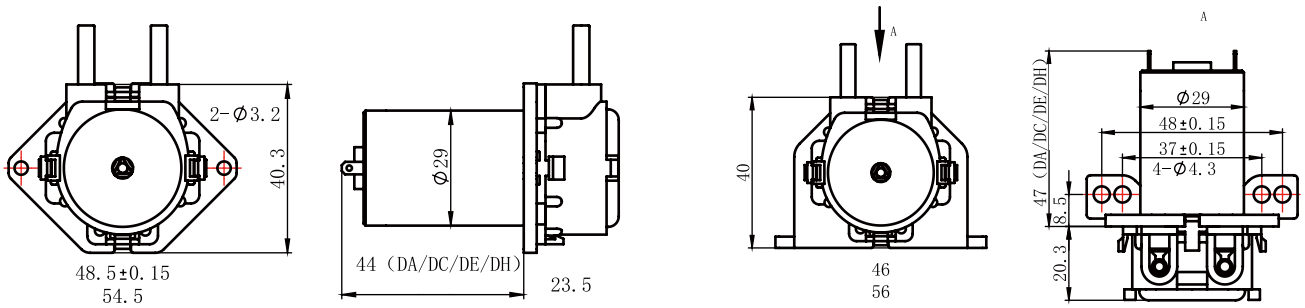
KPP- DA [ ] B 12 W

Motor | Installation | Pump tube | Pump tube size | Colour

Flat plate

L plate

Unit: mm



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

Technical parameter

Pump tube length:135mm(Exposed29.5mm)Codenamed B tube; 175mm(Exposed49.5mm)Codenamed S tube

Working conditions：Temperature 0~40°C ；Humidity：＜80%

Weight：110g

Note: the above test data of new KP is measured at 20 °C at room temperature pure water under no pressure until the pump tube crack. Actual service life is related with medium, condition, temperature, humidity, voltage, speed and other factors, the measured data as a reference

High Percision, Low Noise

KAS Peristaltic Pump

Motor: DC gear motor and stepper motor;
The stepper motor is more precise than the DC gear motor Peristaltic Pumps;
Accuracy, repeatability, pulsating and lifetime more than KPP;
Rotor:3 rotors or 6 rotors.
Related:The more rotors, the less pulsating;
Flow rates can up to 71.5ml/min.

APPLICATION AREAS

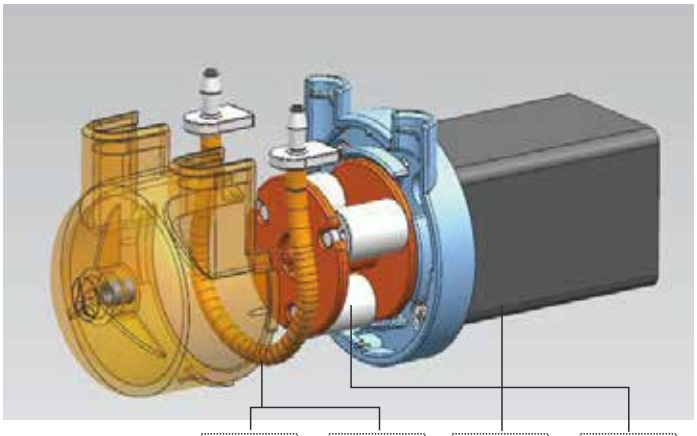
Laboratory
Liquid packaging, distribution, Quantitative extraction and Þlling

Medical
Used with instrument, Liquid transport, sampling, bottling

Instruments equipment
SMT machine and product accessories

Chemical
Liquid transfer, sample analysis,Filling

Food and Beverage
Liquid blending

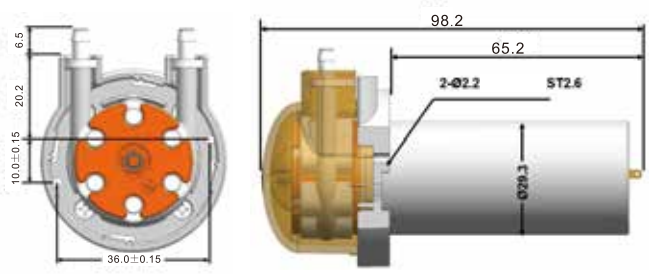


KAS- B 06 SE 3

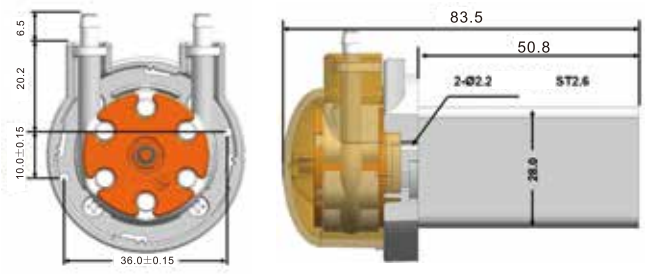
Pump tube | Pump tube size | Motor | Rotor

Geared motor installation size diagram

Unit: mm



Stepper motor installation size diagram



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

Technical parameter

SE:24V Stepper motor ; SF:12V Stepper motor
Electric current:0.75A ; Weight:225g
Temperature 0~40°C ;Humidity:<80%

Note: the above ßow rate was measured by KAS Stepper motor pump in 250RPM, by KAS DC motor pump in 150RPM, medium: water

High Percision, Stepper Motor

KCS Peristaltic Pump

Wall thickness tube:1.6mm or 0.85mm tube;
Flow rate can up to 350ml/min;
Rotor: 3 or 6 rollers;
Optional food grade silicone tubing pipe and
Pharmed® BPT tube;
Types:DC motor and stepper motor peristaltic pump;
High transmission, low interference, low noise,
Excellent stability, long service life and Flow rate can be controlled.

APPLICATION AREAS

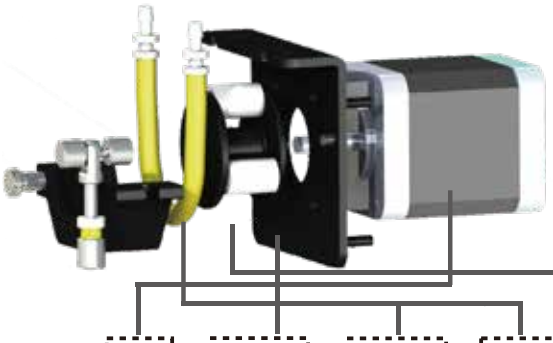
Laboratory
Liquid packaging, distribution, Quantitative extraction and Þlling

Instruments equipment
Medical instrument and equipment Analysis equipment Environmental protection equipment

Water quality analysis
Environmental protection, water treatment

Biochemical Analyzer
Use with the equipment, Liquid transport, sampling, bottling

Food
Liquid blending

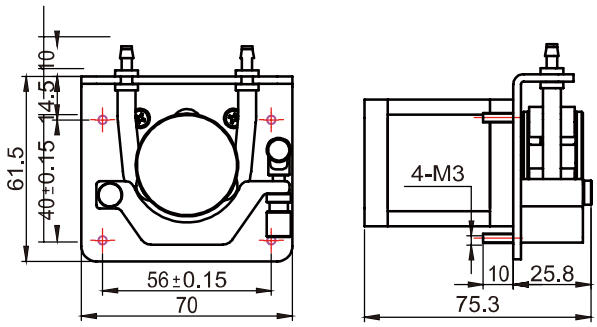


KCS- | SA | A | B | 16 | 3

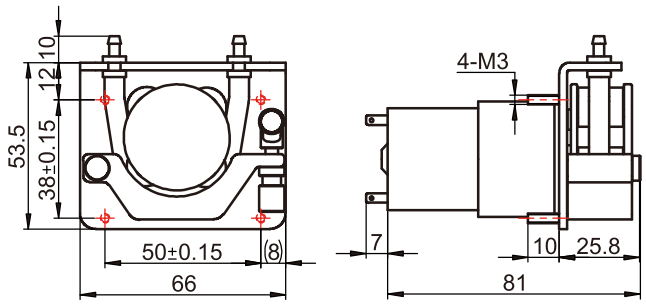
Motor | Installation | Pump tube | Pump tube size | Rotor

Valid installation method for stepper motor

Unit: mm



Valid installation method for DC motor



Stepper motor wiring instructions

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

Performance parameter table

	Code	13	14	19	16	40	30	01	00
Flow Rate (ml/min)	ID*OD (mm)	0.8*4.0	1.6*4.8	2.4*5.6	3.2*6.4	4.0*7.2	1.65*3.35	2.54*4.24	2.79*4.49
	Pump tube	S	S/B/N	S/B	S/B/N	S	V	V	V
24V Stepper motor Power 20W	3 Rotor (ml/min)	18	54	117	171	306	45	100	130
	6 Rotor (ml/min)	16	47	95	135	207	/	/	/
12V Stepper motor Power 20W	3 Rotor (ml/min)	18	54	117	171	306	32	70	90
	6 Rotor (ml/min)	16	47	95	135	207	/	/	/

Note: The flow rate of this watch is measured at 450 rpm, medium: water.
"S" stands for silicone tube;"B" stands for imported PharMed BPT;"N" stands for import Norprene;"V" stands for imported fluorine hose

Technical parameter:

Working conditions:Temperature 0~40°C ;Humidity:<80%; Power:20W max Weight:520g

High Percision, Stepper Motor

KCS Plus Peristaltic Pump

- Suitable for viscous, non-viscous liquid transport
- High precision and small pulsation
- Can be placed outside the instrument panel and detected by grounding
- Simple structure and high reliability
- Quickly change pump tubing
- Excellent stepper motor performance through ground detection, EMC requirements

APPLICATION AREAS

Laboratory
Liquid packaging, distribution, Quantitative extraction and Þlling

Instruments equipment
Medical instrument and equipment Analysis equipment Environmental protection equipment

Water quality analysis
Environmental protection, water treatment

Biochemical Analyzer
Use with the equipment, Liquid transport, sampling, bottling

Food
Liquid blending

KCS PLUS- SL 4 B 06 A

Motor | Rotor | Pump tube | Pump tube size | Installation

Performance parameter table

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	30	95	180	26	92	176
		8 Rotor	18	64	94	18	64	94
	12V (SM)	4 Rotor	24	93	175	23	90	170
		8 Rotor	16	56	72(400rpm)	15	55	70(400rpm)

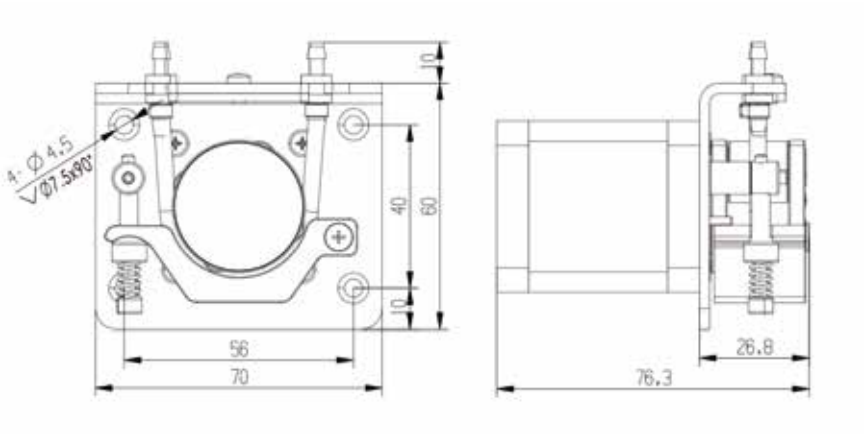
Note:
Ldeal working condition: ambient temperature0~40°C
Relative humidity＜80%
Weight:≈500g

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.

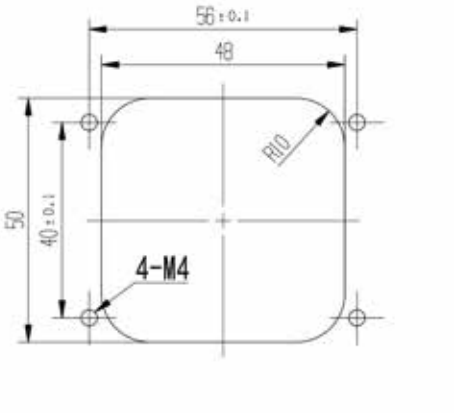
Note 2: The stepper motor is different from the current, under the same current conditions: Low Voltage, rough pump tube cannot get a higher speed, there may be out of step motor stall, otherwise there is no problem.
Example 1: 12V voltage, 8 rotors, 3 * 5 BPT tube can only be used under 400 rpm, may 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.

Dimensions

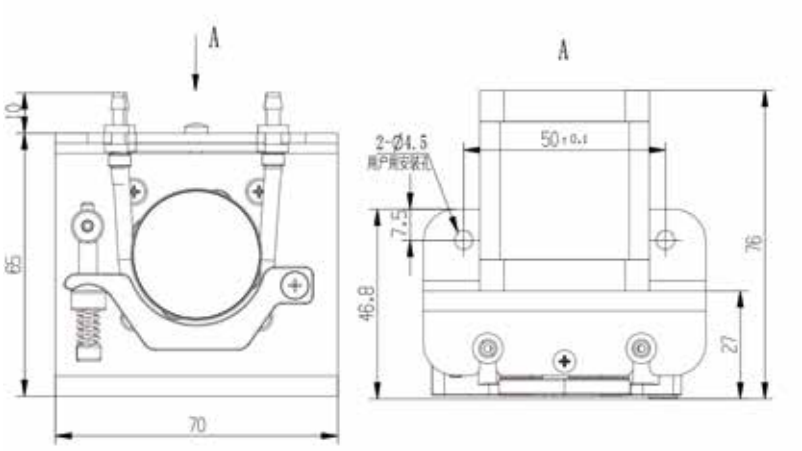
Straight Dimensions (straight installation)



Stepper motor straight installation recommended hole size Þgure



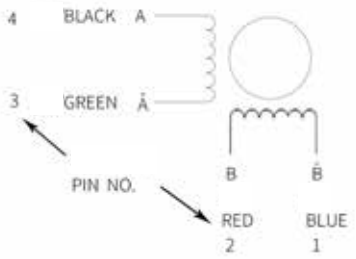
Stepper motor L plate Dimensions (L board installation)



Stepper motor parameters and wiring diagram

Step angle: 1.8 °
Current: 1.2A

Two-phase Four-wire
Cable length: 400mm



EXCITING SEQUENCE(TWO PHASES)
VS. DIRECTION OF ROTATION

STEP	A	B	Ā	B̄
1	+	+	-	-
2	-	+	+	-
3	-	-	+	+
4	+	-	-	+

CW

CCW

CLOCK WISE VIEW FROM MOUNTING SIDE

Peristaltic Pump Series - KDS

ttractive appearance, High quality

KDS Peristaltic Pump

Suitable for pump viscous, non-viscous liquid;
Liquid containing particles can be transmitted;
4 motors, AC and DC can be selected;
Tubing with a thick-walled, under high pressure;
Flexible adaptive mechanism and tube with long service life;
Noise is lower than similar products;
Attractive appearance, optional colors.

APPLICATION AREAS

Laboratory

Liquid packaging, distribution, Quantitative extraction and Þlling

Inkjet

Ink transfer, Pipe cleaning

Food

Liquid blending

Instruments equipment

Laundry, washing machine

Bio-engineering

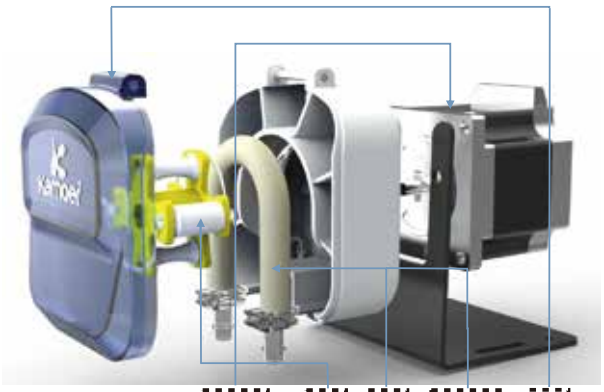
Plant hydroponic technology

Fine chemicals

Liquid transfer, sample analysis Filling

Environmental

Wastewater sampling, transmission

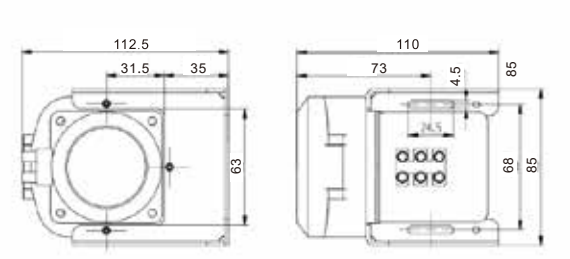


KDS-FB 2 B 16 B

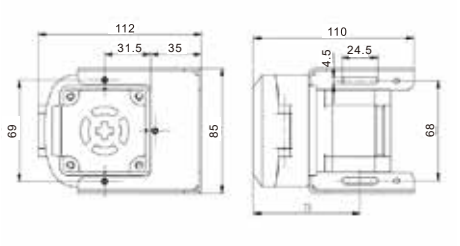
Motor Rotor Tube Tube size Installation

AC Synchronous Motor installation (with stand)

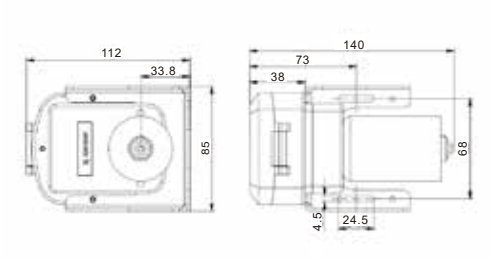
Unit: mm



Stepper Motor installation (with stand)



DC Motor installation (with stand)



Stepper motor wiring instructions(Step angle 1.8°)

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

Performance parameter table

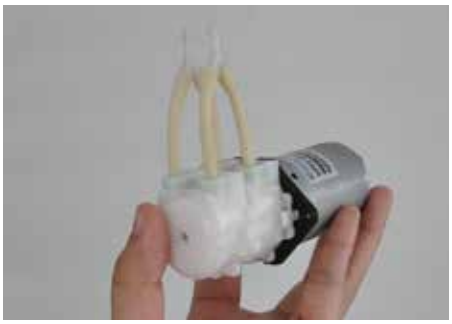
Model	Synchronous motor	Stepper motor	DC motor
Motor code	FA	FB	FC/FE
Voltage	AC220V/50Hz	DC24V	DC24V
Electric current	0.07A	1.8A max	0.28A/0.56A
Temperature	≤80℃	≤55℃	≤35℃
Rotating speed	100rpm	1-500rpm	300rpm
Net weight	≈0.93kg	≈1.03kg	≈0.75kg
2 Rotor 3.2*6.4 (B16) PharMed®BPT ml/min	65	5~245 (400rpm)	220
2 Rotor 3.2*6.4 (N16) Norprene® ml/min	65	5~245 (400rpm)	220
2 Rotor 3.2*6.4 (S16) Silicone tube ml/min	65	5~265 (400rpm)	230

Note: the above ßow rate was tested at 20℃room temperature under normal atmospheric pressure measured and with water under pressure-free conditions. Actually according to different medium, different outlet pressure, such as DC motor speed error, so ßow rate will have some error, the data for reference.

Double Head, More Power Effciency

KPP2 Peristaltic Pump

Driven by the motor rotor is rotated, through the alternate rotor on Flexible delivery hose of the pump for extrusion and release to pump Fluids, so as to achieve a suction effect;
Flow rate range :12.5~155ml/min;
Under normal operation, motor lifetime can up to 1000 hours.



APPLICATION AREAS

Laboratory

Liquid packaging, distribution, Quantitative extraction and Þlling

Inkjet

Ink transfer, Pipe cleaning

Environmental protection

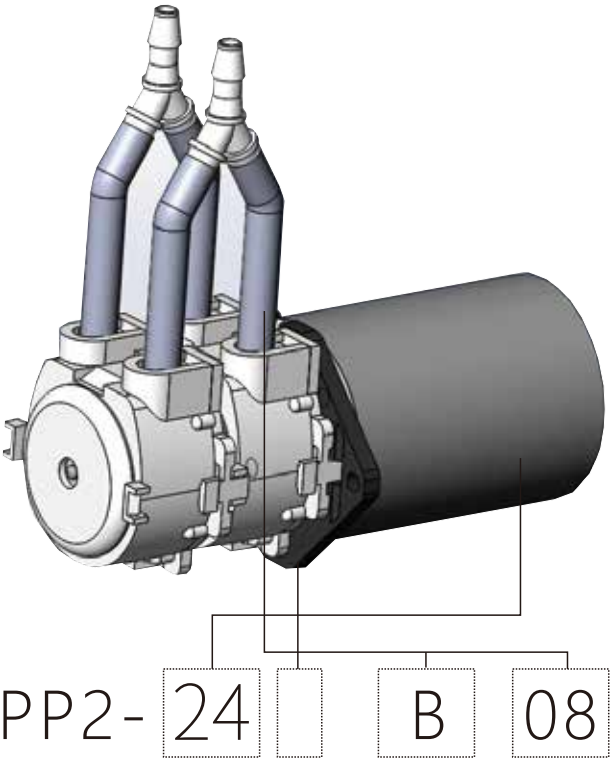
Wastewater sampling, transport

Chemical

Liquid transfer, sample analysis Filling

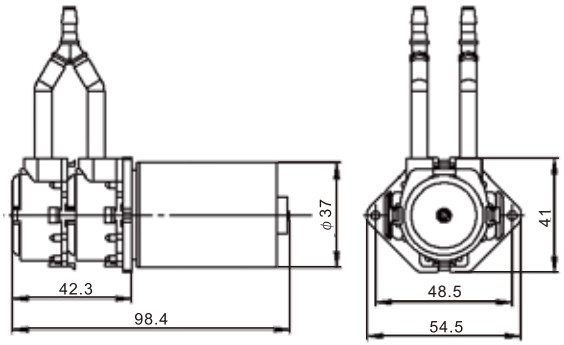
Instruments equipment

oil equipment Machine tool lubricants

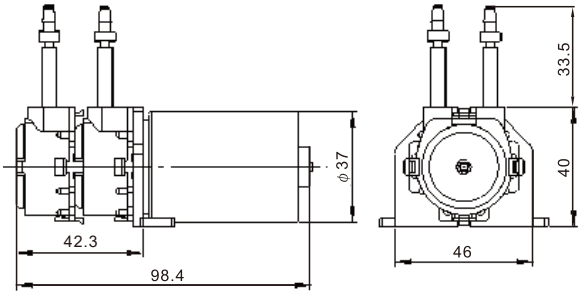


Flat plate

Unit: mm



L plate



Model	ID*OD (mm)	Voltage (V)	Current (A)	Single head Flow rate (ml/min)	Double head Flow rate (ml/min)
KPP2-24-B03	1*3.2	24	0.15-0.27	≥12.5	≥25
KPP2-24-B06	2*4			≥40	≥80
KPP2-24-B10	3*5			≥77.5	≥155
KPP2-12-B03	1*3.2	12	0.3-0.5	≥12.5	≥25
KPP2-12-B06	2*4			≥40	≥80
KPP2-12-B10	3*5			≥77.5	≥150

Imported Materials, Special Technique

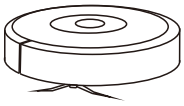
KFS Peristaltic Pump

Suitable for viscous, non-viscous liquids transport
Small size, compact structure, weighing only 90g
Brush motor Flowrate 1-85ml/min
Brushless motor Flowrate 1~122ml/min
Appearance of high-end, 4 color optional
Optional tubing: PharMed® BPT imports, imported
MasterFlex® Viton tube and Silicon tube

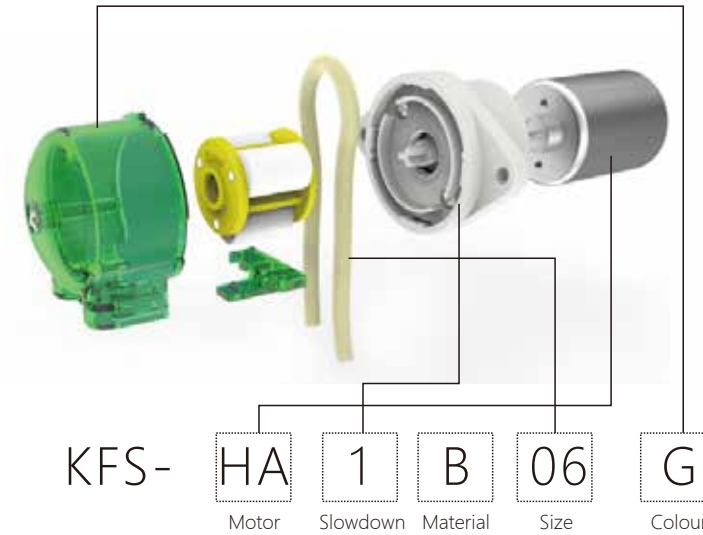
APPLICATION AREAS

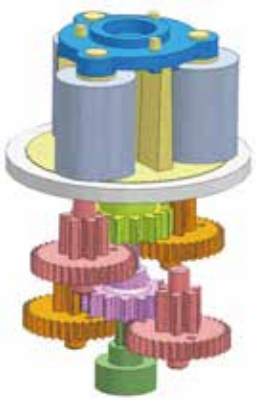
Unmanned aircraft sprays

Cleaning robot



Sweeping robot





Transmission mode

Drive gear
One slowdown gear reduction ratio 1:14
Two slowdown gear reduction ratio 1:196
One slowdown gear reduction speed of output is fast, tends to achieve high ßow rate
Two slowdown gear reduction speed of output is slow, tend to achieve mini ßow rate

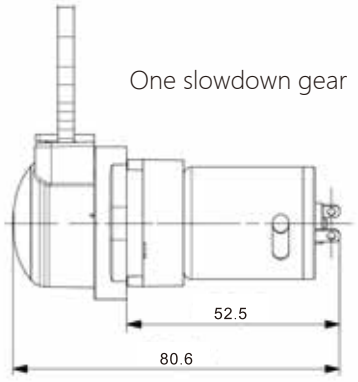
Tubes	Material	Features	Tubing Life	Size
B	pharmed® bpt	Non-cytotoxic and non-Hemolytic effect, highly resistant to ozone and UV rays, extreme resistant to the acid and base and heat,anti-aging, antioxidant, long service time, Temperature range from -51℃ - 132℃	≥1000h	96mm (25mm exposed)
v	Viton	Anti-high temperature ,anti-oil, Excellent resistance to chemical corrosive and ozone. Poor resistance to low temperature and radiation .long life .	≥1000h	96mm (25mm exposed)
S	Silicon	Competitive price, Resistant to weak acid and base, The softest of tube types, Most commonly used in water pump	≥200h	96mm (25mm exposed)

Note: The above test data was measured by using KFS 3-rotor pump head with continuous operation at a speed of 400 rpm , room temperature at 20 degrees Celsius and pure water without pressure until the pump pipe splits. Different pump head speeds ,different pump tube life-time . In general, the slower the pump head speed is, the longer life-time is. The actual life-time is affected by factors such as medium, working conditions, temperature , humidity and voltage.
The test data for reference.

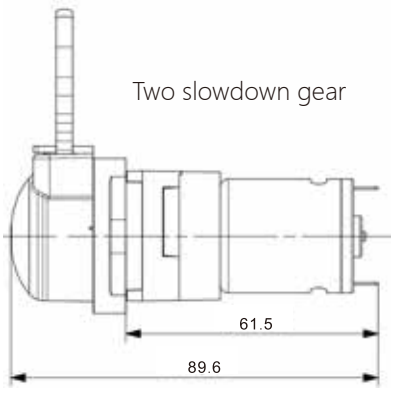
Size

Unit: mm

One slowdown gear



Two slowdown gear



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

Tubing size: 96mm (25mm exposed)
Tube+connectors: 125mm

Ideal working conditions: Environmental temperature 0~40℃
Relative humidity <80%

Note: the above test data of KFS is measured at 20 ℃ at room temperature pure water under no pressure until the pump tube crack. Actual service life is related with medium, condition, temperature, humidity, voltage, speed and other factors, the measured data as a reference

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: 96mm (25mm exposed)
Tube+connectors: 125mm

Ideal working conditions: Environmental temperature 0~40℃
Relative humidity <80%

When the ambient noise is 48db, the full load of 60dB measured at 30cm reduces the speed of the pump head and sacriÞce ßow rates, the noise can be reduced.

Peristaltic Pump Series -KFS Threaded DC

Performance characteristics

- Suitable for viscous, non-viscous liquid transport
- Small size and compact structure
- Flow rate: 7-65mlmin
- The appearance of fine high-end, color optional
- A variety of pump tube materials are available
- Plastic gear / stepper motor drive, high reliability, low noise

KFS Introduction to peristaltic pump series

Motor Selection - KFS peristaltic pump with 24V/12V/6V DC motor can provide different voltage selection. The pump tube is imported BPT (B) tube, imported MasterFlex fluorine hose (V) and silicone tube (S), suitable for different Liquid requirements, pump tube size can be selected to meet different flow requirements.

The installation method is fixed by means of plate (see installation diagram), and the pump head adopts quick release type, and the pipe joint can be oriented in any direction of up, down, left and right (see the attached drawing). L-shaped sheet metal can be used as component selection.

Transmission mode: one is gear transmission, the first-stage reduction ratio is 1:14, and the second-stage reduction ratio is 1:196. The first-stage deceleration output speed is fast, focusing on large flow; the second-stage deceleration output is slow, focusing on micro-flow. The other is a direct drive of the stepper motor, no deceleration, the motor turns one turn of the pump head.

Main material: The upper cover is made of high-permeability PC plastic, and the pump body and gear are made of imported synthetic engineering plastics to ensure reliable and low-noise operation of the pump.

Color selection: KFS series have red (code R), yellow (code Y), purple (code P), green (code G) and other colors, any combination.

Interface mode: There are two types of interface modes, which are divided into threaded pipe joints (S) pressure pipe buckles (D).

Fixing method: divided into two types, one is the internal locking screw (I), and the other is the external locking screw (O)

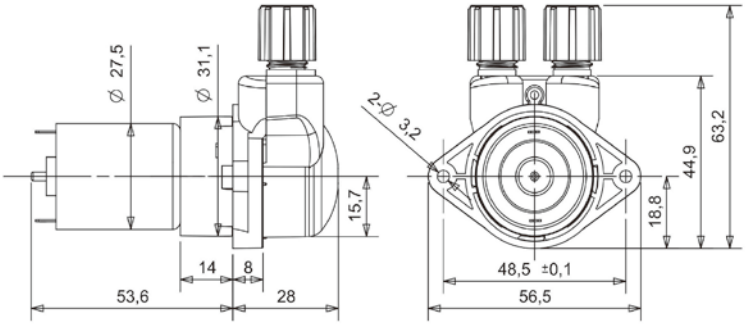
Performance parameter table

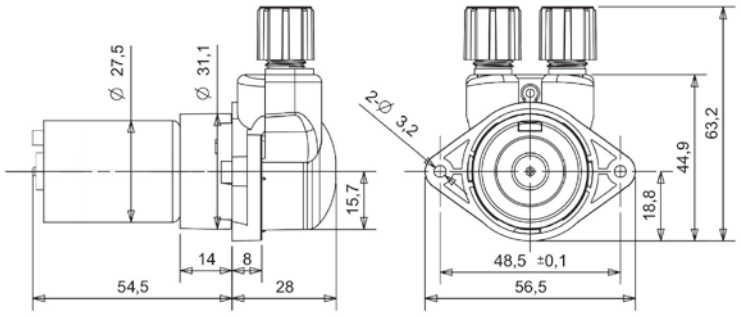
Code			S04	S06	S10	B04	B06	B10	V01
ID*OD (mm)			1.0*3.3	2.0*4.0	3.0*5.0	1.0*3.3	2.0*4.0	3.0*5.0	2.54*4.24
Pump tube			S	S	S	BPT	BPT	BPT	V
Flow Rate (ml/min)	24V Brush motor (HA) Current 0.4A	First stage deceleration	12ml/min	45ml/min	85ml/min	12ml/min	45ml/min	85ml/min	50ml/min
		Secondary deceleration	1ml/min	4ml/min	7ml/min	1ml/min	4ml/min	7ml/min	5ml/min
	12V Brush motor (HB) Current 0.4A	First stage deceleration	12ml/min	45ml/min	85ml/min	12ml/min	45ml/min	85ml/min	50ml/min
		Secondary deceleration	1ml/min	4ml/min	7ml/min	1ml/min	4ml/min	7ml/min	5ml/min
	6V Brush motor (HC) Current 0.6A	First stage deceleration	12ml/min	45ml/min	85ml/min	12ml/min	45ml/min	85ml/min	50ml/min
		Secondary deceleration	1ml/min	4ml/min	7ml/min	1ml/min	4ml/min	7ml/min	5ml/min

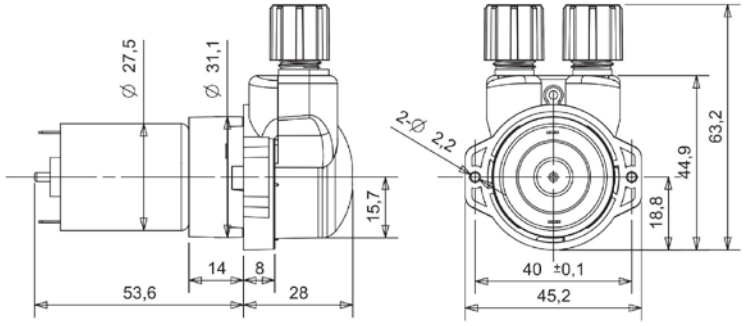
Note:
Noise value: Ambient noise is 35dB, 50cm distance is measured 50dB, and the product is measured 63dB.
Working conditions: temperature 0~40°C; humidity <80%

*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.

Appearance size chart







Peristaltic Pump Series -KFS Thread stepping

Performance characteristics

- Suitable for viscous, non-viscous liquid transport
- Small size and compact structure
- Flow rate: 7-65mlmin
- The appearance of fine high-end, color optional
- A variety of pump tube materials are available
- Plastic gear / stepper motor drive, high reliability, low noise

KFS Introduction to peristaltic pump series

Motor selection-KFS The peristaltic pump is based on three types of DC brushed motors and two types of brushless motors.
The installation method is fixed by means of plate (see installation diagram), and the pump head adopts quick release type, and the pipe joint can be oriented in any direction of up, down, left and right (see the attached drawing).
L-shaped sheet metal can be used as component selection.

Transmission mode: one is gear transmission, the first-stage reduction ratio is 1:14, and the second-stage reduction ratio is 1:196. The first-stage deceleration output speed is fast, focusing on large flow; the second-stage deceleration output is slow, focusing on micro-flow. The other is a direct drive of the stepper motor, no deceleration, the motor turns one turn of the pump head.

Main material: The upper cover is made of high-permeability PC plastic, and the pump body and gear are made of imported synthetic engineering plastics to ensure reliable and low-noise operation of the pump.

Color selection: KFS series have red (code R), yellow (code Y), purple (code P), green (code G) and other colors, any combination.

Interface mode: There are two types of interface modes, which are divided into threaded pipe joints (S) pressure pipe buckles (D).
Fixing method: divided into two types, one is the internal locking screw (I), and the other is the external locking screw (O)

Stepper motor 3 rotor - performance parameter table

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
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.

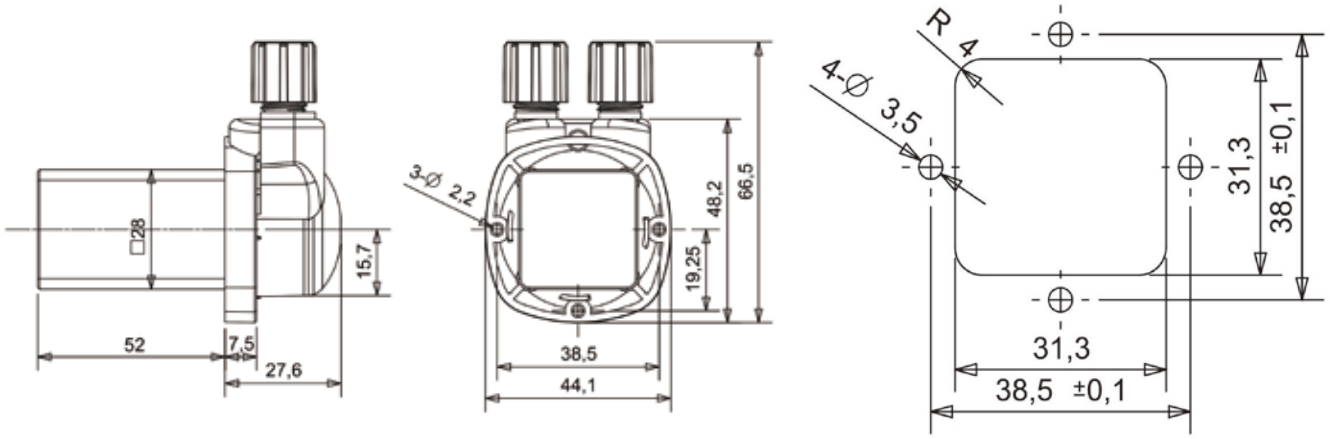
* Due to the material characteristics, the fluorine rubber tube is placed in the pump head for a long period of time without the medium being inoperative, and the tube wall is stuck with a small probability, which may result in the inability to absorb liquid. If it has been stuck, you can remove the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

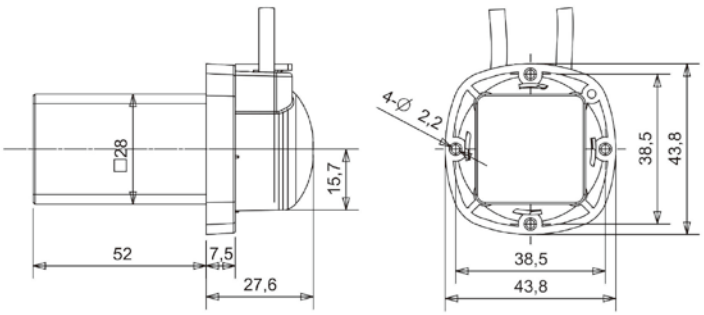
Stepper motor 6 rotor - performance parameter table

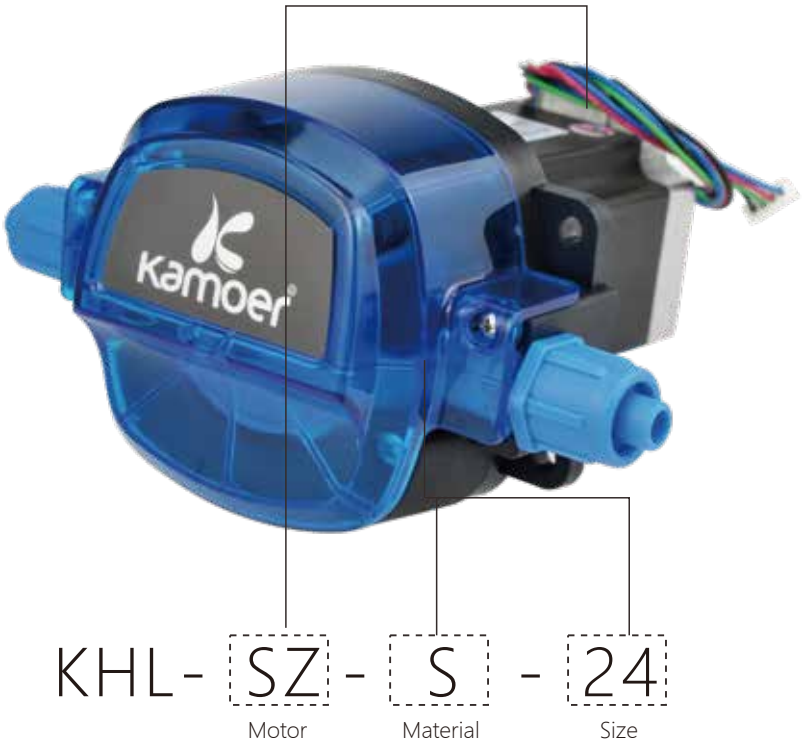
Model explanation			KFS-stepping/no deceleration/tube type/color/thread/interlock/rotor number	
Model			KFS-ST 0 B04 P S I 6	KFS-ST 0 B06 P S I 6
Pump tube code			B04	B06
ID*OD (mm)			1X3	2X4
Pump tube material			BPT	BPT
Flow Rate (ml/min)	24V Motor (ST) Current 1A	Motor speed 1:1 output without deceleration	7ml/min	20ml/min
Note: 28 stepping motor maximum speed 250rpm, current 1A; noise below 35dB, 50cm distance measured 50dB, posted product measured 63dB				

Appearance size chart

Stepper motor connector outlet







Features

Suitable for viscous, non-viscous liquid transport
Compact structure
Delicate and charming,Cool colors
Stepper motor, Higher accuracy

Product Introduce

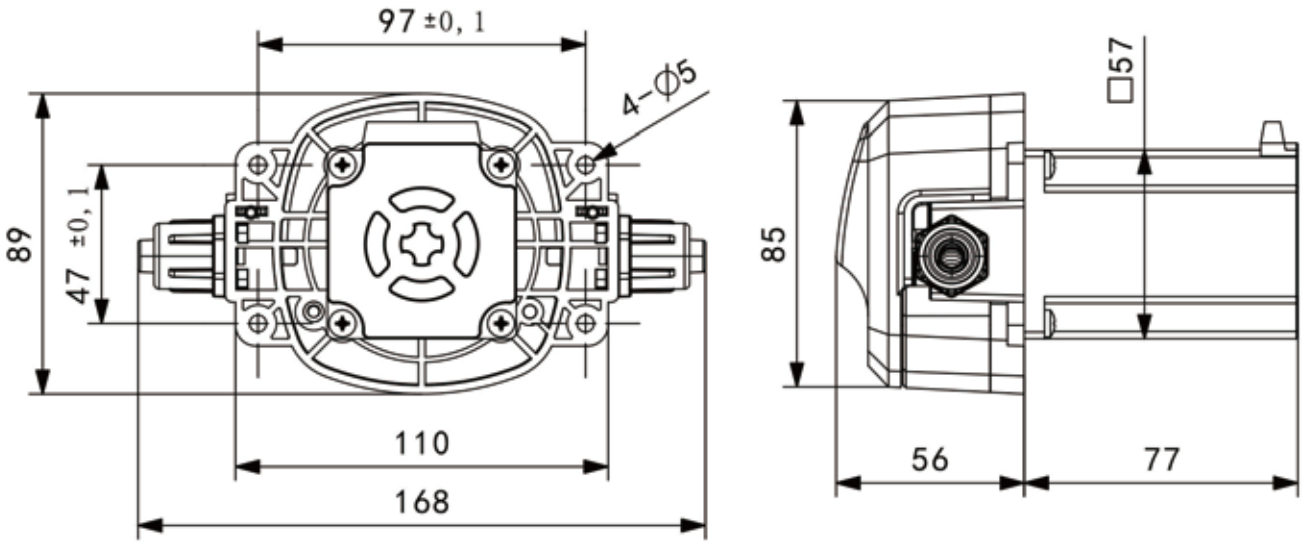
Motor Selection - The KHL Series Peristaltic Pump is a 57 stepper motor driver peristaltic pump.
Tubing Selection - The pump tubing is optional to meet different Flow requirements with silicon tube.
Installation - Installation for the Þxed wear plate (With reference to the drawings)
Drive mode - drive mode for the direct drive motor shaft, the motor rotates one revolution, the pump head rotates one revolution either.
The main material - The cover is PC plastic ,the pump body is PA engineering plastics.

Parameters

Code			24#	35#
ID*OD(mm)			6.4*11.4	7.9*12.7
Materials			Silicon	Silicon
Flow rate (ml/min)	24V, 12V Stepper motor (SZ) 1.8A	3 rollers	1300ml (350rpm)	1800ml (350rpm)
Working conditions: DC voltage 24 current 2A Ambient temperature: 0 ~ 40℃ Relative humidity: < 80℃				

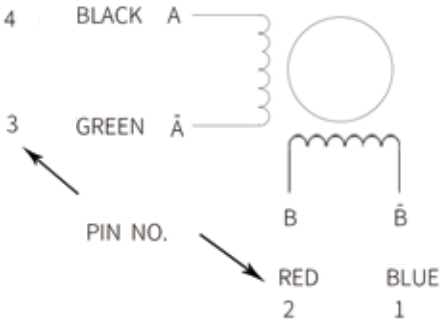
Note: The above ßow parameters at 20 degrees Celsius standard pressure without water pressure measured, the actual according to different media, the outlet pressure is different, the DC motor speed error, the Flow there will be some error, the data for reference. Accuracy of different individual ßow accuracy within 5%, a single repeat accuracy of less than 2%, the accuracy of the conservative data, the test tube size, liquid viscosity, suction lift head varies, depending on the actual application.

Dimensions



Stepper motor wiring diagram

Step angle 1.8°, Two-phase four-wire, Current: 1.8A, Wiring length: 400mm
Terminal model: JXT XHP-4 (Pins:2.54 spacing)



EXCITING SEQUENCE(TWO PHASES)
VS. DIRECTION OF ROTATION

STEP	A	B	Ā	B̄
1	+	+	-	-
2	-	+	+	-
3	-	-	+	+
4	+	-	-	+

CCW

CW

CLOCK WISE VIEW FROM MOUNTING SIDE

Peristaltic Pump Series -KAS-42

Features

Suitable for viscous, non-viscous liquid transport
Flow rate: 1—90ml/min
A variety of optional pump tube material
High reliability, low noise

Product Introduce

Motor Option: KAS Series Peristaltic Pump is a 42-stepper motor-driven peristaltic pump that o ffers different voltage options for 24V / 12V DC motors.

Tubing Selection: The pump tubing is PharMed BPT (B) and silicone tubing (S), it is suitable for different transmission Fluid requirements, and the size of the tube is optional to meet different Flow rate requirements.

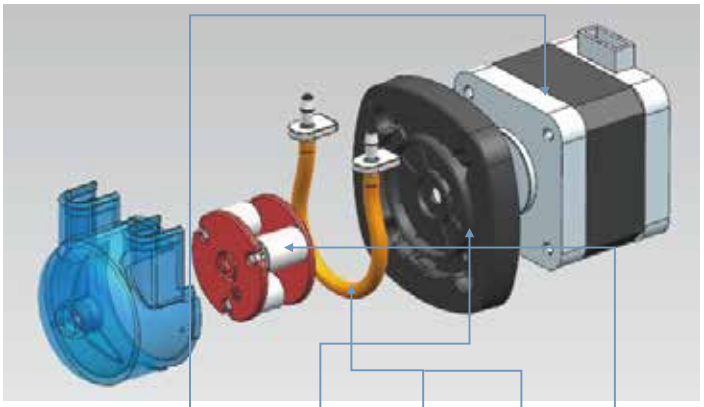
Installation: Installation for the fixed wear plate (see installation diagram),the pump tube is quick-release, the head of tube can be adjusted for any direction ,up and down or left and right..

Main Material: The cover is made of high permeability PC plastic, the pump body is made of synthetic engineering plastic which to ensure the reliable and low noise operation of the pump.

Parameters

Code			S06	S08	S10	B06	B08	B10
ID*OD(mm)			2*4	2.5*4.5	3*5	2*4	2.5*4.5	3*5
Materials			Silicon	Silicon	Silicon	BPT	BPT	BPT
Flow rate(ml/min)	24V Stepper motor (ST) 0.2A	3 rollers	45	76	95	45	76	95
		6 rollers	30	40	51	30	40	51
	12V Stepper motor (SU) 0.2A	3 rollers	45	76	95	45	76	95
		6 rollers	30	40	51	30	40	51
Working conditions: Ambient temperature: 0 ~ 40℃ Relative humidity: < 80℃								

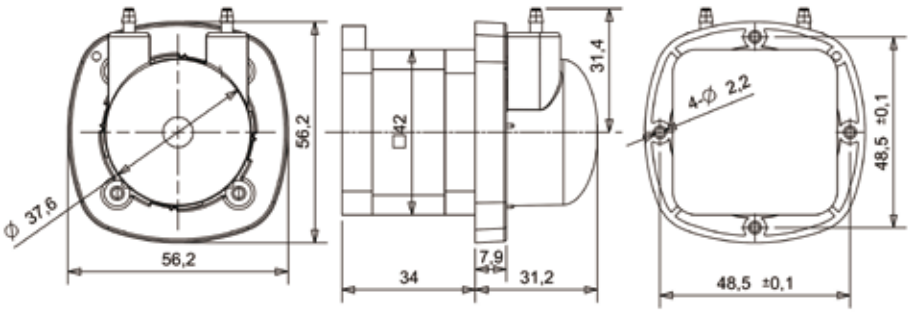
The above data is measured at standard atmospheric pressure, at 20 ℃, under 350rpm speed with pure water.
The data is for reference only. The rate can be customized by demand.



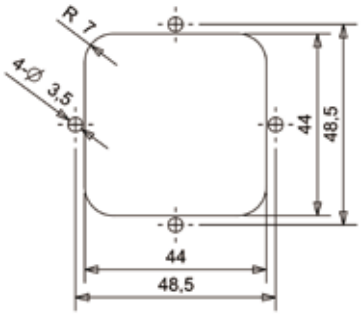
KAS-ST-I-B 06 3

Motor selection	Installation method	Pump tube material	Pump tube size	Number of rotors

Dimensions



Mounting plate opening size



Parameters

Power: 20 W max
Working conditions: Environmental temperature 0~40℃
Relative humidity <80%
Weight: 290g

Stepper motor Wiring instructions

Phase line		Wiring colour
Phase A	A^+	Brown
	A^-	Orange
Phase B	B^+	Red
	B^-	Yellow

Features

Suitable for viscous, non-viscous liquid transmission
Compact structure, high maintenance
High exquisite appearance,optional color
A variety of options for tubing pipe

Product Introduce

Motor Selection - KXF Series peristaltic pumps can be driven by 3 kinds of DC motors, 24V / 12V / 6V DC motor can provide different voltage options.
Tubing Series - The tubing applies imported PharMed BPT (B) and silicone tube (S), suitable for different liquid transmission. In addition, pump size is optional to meet different flow needs.
Installation - installation method is Plate fixation (details attached picture).
Drive mode - Drive mode is planetary friction drive.
The main material - pump head adopts POM plastic, mounting plate is the PA66 plastic.

Parameters

Code		S01	S02	S04	S06	S08	S10
ID*OD(mm)		0.4*3	0.6*3	1*3	2*4	2.5*4.5	3*5
Materials		Silicon	Silicon	Silicon	Silicon	Silicon	Silicon
Flow rate (ml/min)	DA (24V) 0.12A	≥2	≥4	≥10	≥38	≥59	≥75
	DC (12V) 0.25A	≥2.6	≥4.5	≥10	≥37	≥55	≥70
	DE (6V) 0.53A	≥3	≥5	≥10.5	≥36	≥60	≥80

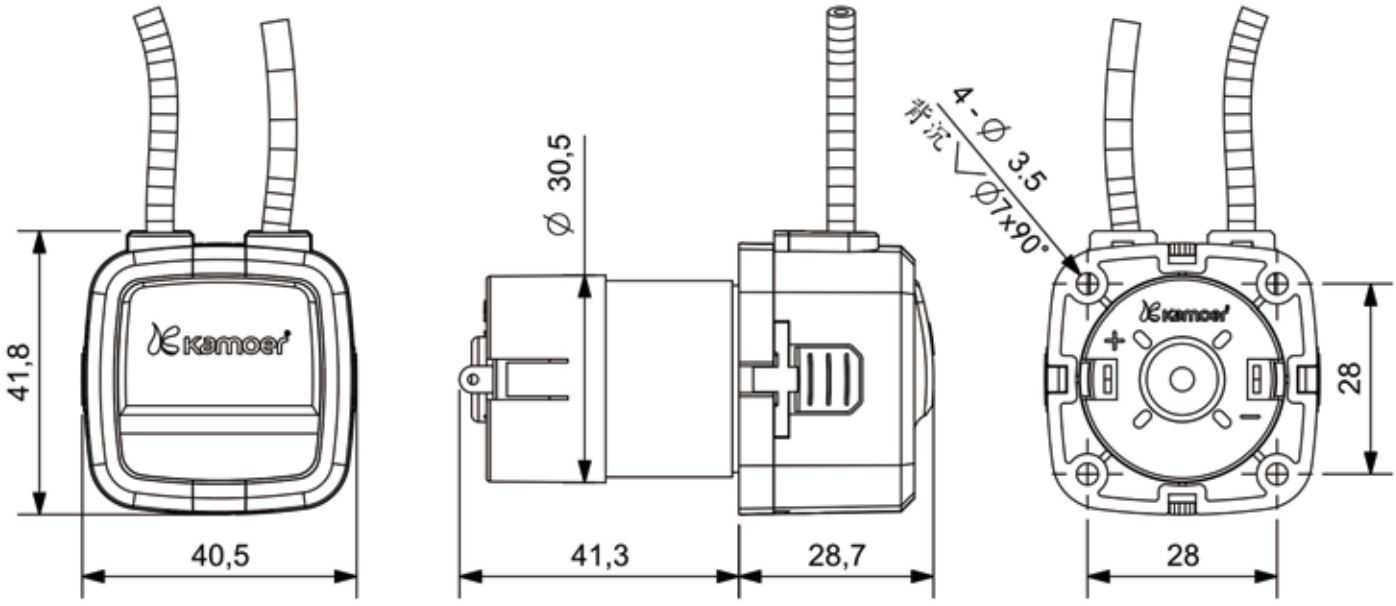
Code		B04	B12	B06	B08
ID*OD(mm)		1*3	1.5*3.5	2*4	2.5*4.5
Materials		BPT	BPT	BPT	BPT
Flow rate (ml/min)	DA (24V) 0.12A	≥11	≥21	≥34	≥48
	DC (12V) 0.25A	≥10	≥22	≥33	≥47
	DE (6V) 0.53A	≥11	≥25	≥38	≥48

Note: the above test data of KXF is measured at 20 ℃ at room temperature pure water under no pressure until the pump tube crack. Actual service life is related with medium, condition, temperature, humidity, voltage, speed and other factors, the measured data as a reference

Tube joint

Code	Size	ID
1	1/16	0.6≤φ≤1.6
2	3/32	1.6≤φ≤2.4
3	1/8	2.4≤φ≤3.2

Structure Unit:mm



Peristaltic Pump Series -KCM

Features

Suitable for viscous and non-viscous liquid transport
High precision, small pulse
Can put external instrument panel, through the ground detection
Simple structure, high reliability
Change tubing quickly and easily
Stepper motor, high accuracy

Product Introduce

Motor selection - KCM is stepper motor driven peristaltic pump, with stepper motor drive, can use 12V/24V power supply.
Pump Tube Selection - pump tube with wall thickness of 1.6mm PharmedBPT (B) and Silicone tube (S), can suit for different transmission liquid requirements, optional pump tube size is to meet the different flow requirements.
Installation - Installation support with the Floor mounted or wall mounted (see detailed drawing).
Flow accuracy - KCM peristaltic pump with adjustable roller number, according to the needs of the choice for 4 or 8 rollers. The more rollers,the higher the accuracy, the less pulse, the less Flow rate.
Main material - buckle shell, sync disk with synthetic engineering plastic, machined parts is SUS304 stainless steel.

Performance parameter table

Code			13	14	19	16	40	25
ID*OD(mm)			0.8×4.0	1.6×4.8	2.4×5.6	3.2×6.4	4.0×7.2	4.8×8.0
Pump tube material			S	B/S	B/S	B/S	S	B/S
Flow rate (ml/min)	24V @550RPM	3 Rotor	26	70	175	300	480	670
		4 Rotor	25	68	165	285	420	580
		6 Rotor	22	60	130	230	300	375
		8 Rotor	20	47	118	144	206	/
	12V @350RPM	3 Rotor	16	44	111	190	305	/
		4 Rotor	16	44	100	135	240	/
		6 Rotor	14	38	82	146	190	/
		8 Rotor	13.5	40	75	88	125	/
Current: 1.2A Working conditions:Ambient temperature: 0℃-40℃ 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.

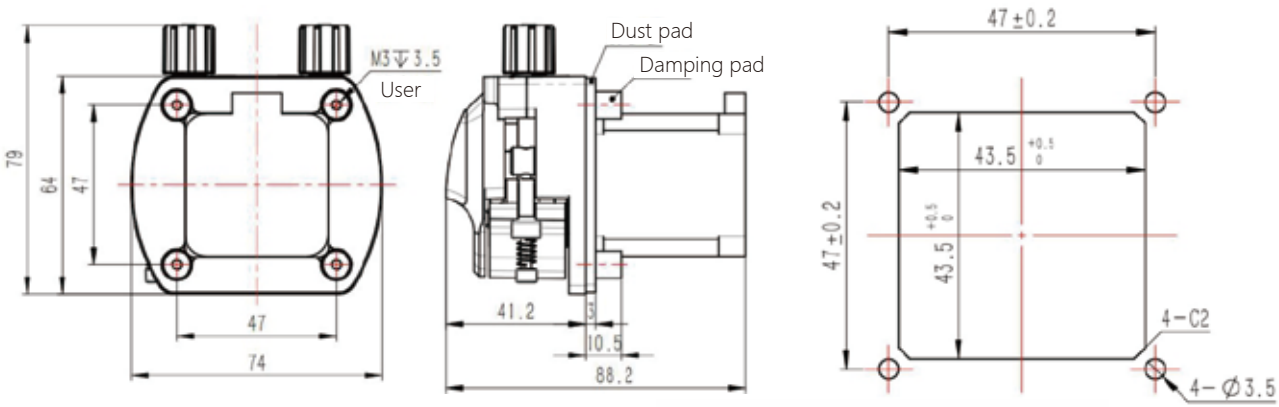
3. The life of the pump tube is closely related to the speed. The higher the speed, the shorter the life of the pump tube. Therefore, when the accuracy can be satisfied, try to select the large pump tube and low speed. It is recommended that the pump work at 400RPM.

Parameters

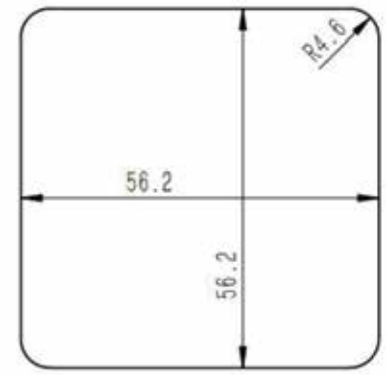
Code	Size	ID	OD
1	25.20.0006	0.6≤φ≤2.0	Φ1.8 ~ φ2.4
2	25.20.0008	2.0 < φ≤3.2	Φ2.5 ~ φ3.2
3	25.20.0010	3.2 < φ≤4.0	Φ3.3 ~ φ4.0

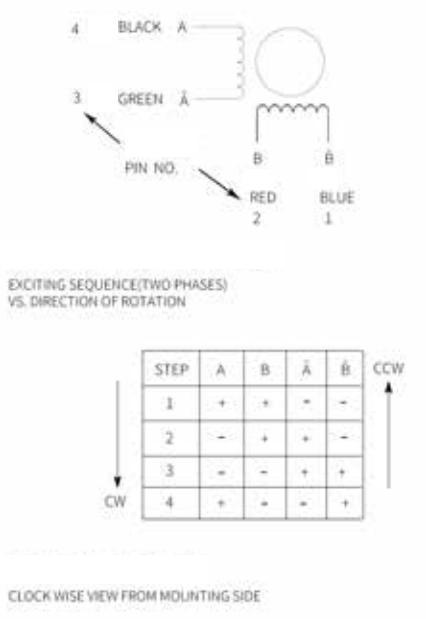
Dimensions

Recommended mounting plate hole size



Recommended panel hole size

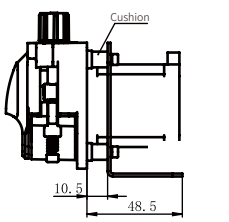


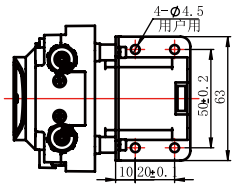


Optional bracket:

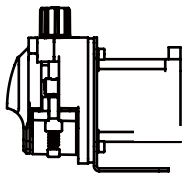
The pump can be equipped with a bracket for converting the straight-through mode into an L-shaped installation. There are three options.

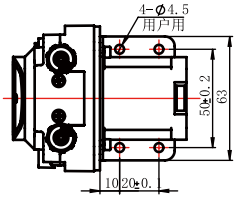
A. The cushion is mounted on the pump



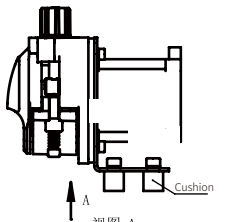


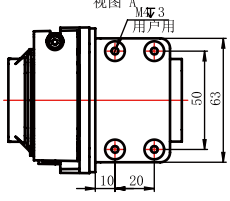
B.No cushion



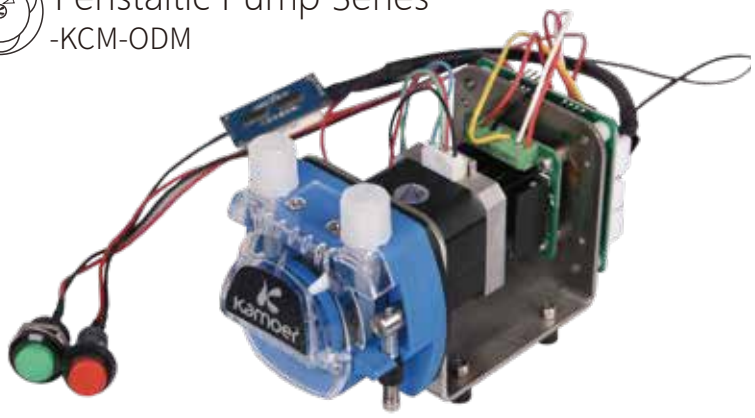


C. The cushion is mounted below





Peristaltic Pump Series
-KCM-ODM



- Suitable for viscous, non-viscous liquid transport
- High precision, small pulsation
- Can be placed outside the instrument panel and detected by grounding
- Simple structure and good reliability
- Quick change of pump tube
- Excellent stepper motor performance

KCM-Introduction to peristaltic pump

Voltage Selection - The KM peristaltic pump is a stepper motor driven peristaltic pump with a stepper motor driver that can be powered by a 12∨24∨ power supply.
Pump tube selection - The pump tube uses imported PharMed BPT (B) and silicone tube (S) with a wall thickness of 1.6mm, which can be used for different transfer liquid requirements. In addition, the pump tube size is optional to meet different flow requirements.
Mounting method - The mounting method supports backplane mounting or wall mounting (see attached drawing).
Flow accuracy -The number of rotors of the KCM peristaltic pump is adjustable, and 4 rotors or 8 rotors can be selected according to requirements. The more the number of rotors, the higher the accuracy, the smaller the pulsation, and the smaller the flow rate.
The main material - the buckle shell and the synchronous disc are made of synthetic engineering plastics, and the machined parts are SUS304 stainless steel.
Other advantages - 1, high integration, high reliability. 2. The interface adopts super-idle optocoupler and isolation, and has strong anti-high frequency interference capability. 3, a variety of subdivision options (1, 1/21/4, 18, 1/16, 132, 164, 1128). 4. Overheating automatically turns off output protection. 5, the output current is optional: 0A-1.8A. 6, automatic semi-flow locking. 7, support offline, enable, lock and other functions.
Note: Considering the mute and comprehensive effect, it is recommended to use 1/32 subdivision and 1.8A current; the default is 1/32 subdivision and 1.8A current;

Performance parameter table

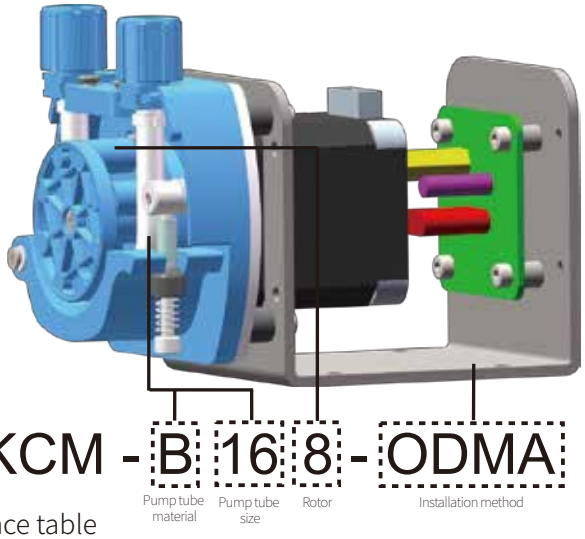
Code			13	14	19	16	40	25
ID*OD(mm)			0.8X4.0	1.6X4.8	2.4X5.6	3.2X6.4	4.0X7.2	4.8X8.0
Pump tube material			S	B/S	B/S	B/S	S	B/S
Flow rate (ml/min)	24V @500 RPM	3 Rotor	26	70	175	300	480	670
		4 Rotor	25	68	165	285	420	580
		6 Rotor	22	60	130	230	300	375
		8 Rotor	20	47	118	144	206	/
	12V @350 RPM	3 Rotor	16	44	111	190	305	/
		4 Rotor	16	44	100	135	240	/
		6 Rotor	14	38	82	146	190	/
		8 Rotor	13.5	40	75	88	125	/
Working conditions:Ambient temperature: 0℃-40℃ Relative humidity: <80%								

Note:

1. The above flow parameters are measured at a standard atmospheric pressure of 20 ° C at room temperature, 30 min 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.



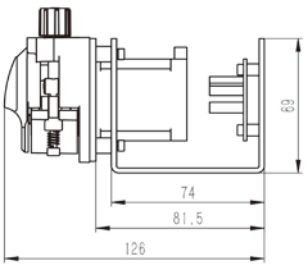
Pump pipe joint correspondence table

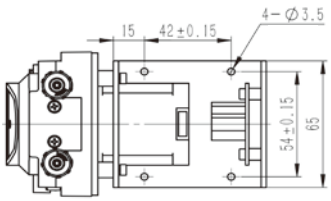
No.	Pump pipe joint code	Suitable for pump tube inner diameter	External pipe diameter
1	25.20.0006	0.6≤φ≤2.0	Φ1.8 ~ φ2.4
2	25.20.0008	2.0 < φ≤3.2	Φ2.5 ~ φ3.2
3	25.20.0010	3.2 < φ≤4.0	Φ3.3 ~ φ4.0

Dimensional drawing

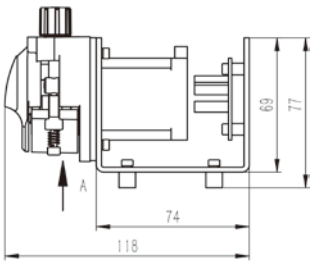
ODM pump is available in two ways

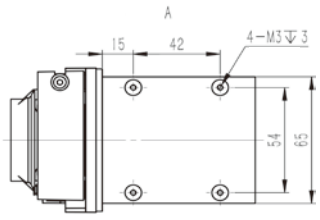
-ODMA



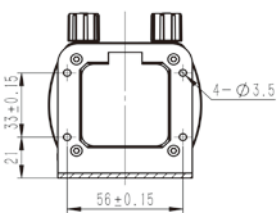


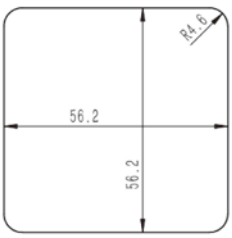
-ODMB



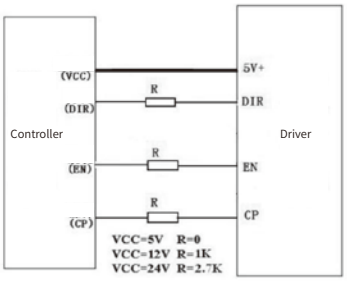


Can be wall mounted





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.

Recommended controller

If the user does not have a device that can pulse, it is recommended to select the 2802 and KMD542 controllers of kamoer. For details on the functions of this product, please refer to the instructions of the 2802 and KMD542 controllers.

Peristaltic Pump Series -KHS

Performance characteristics

- Suitable for viscous, non-viscous liquid transport
- Compact structure
- Exquisite appearance, color can be customized
- Plastic gear transmission, cost-effective

KHS series peristaltic pump introduction

Motor Selection - The KHS series of peristaltic pumps are two types of peristaltic pumps driven by a current-flow, 24V/12V DC motor that offer different voltage options.

Pump tube selection - Imported Norprene (N) and silicone tube (S) with a wall thickness of 1.6 mm for pump tubing, suitable for different transfer fluid requirements, and optional pump tubing size to meet different flow requirements.

The installation method is the way of fixing the plate and installing the L plate (see the attached drawing for details).

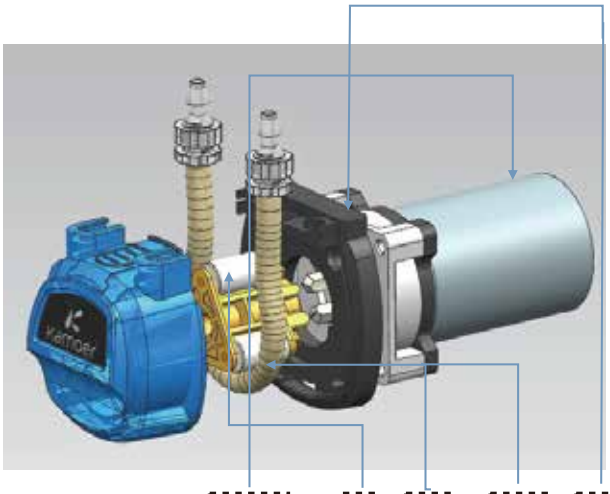
Transmission mode transmission is planetary gear transmission, reduction ratio 1:8

The main material - the upper cover is made of PC plastic, the pump body PA and gear are synthetic engineering plastics.

Performance parameter table

Code			S16	S40	N16	N40
ID*OD(mm)			3.2*6.4	4*7.2	3.2*6.4	4*7.2
Pump tube material			S	S	Norprene	Norprene
Flow rate (ml/min)	24V Brushed motor (SV) Current 0.4A	3 Rotor	210	320	200	310
	12V Brushed motor (SW) Current 0.8A	3 Rotor	210	310	200	300
Working conditions:Ambient temperature: 0℃-40℃ Relative humidity: <80%						

Note: the above test data of KXF is measured at 20 ℃ at room temperature pure water under no pressure until the pump tube crack. Actual service life is related with medium, condition, temperature, humidity, voltage, speed and other factors, the measured data as a reference

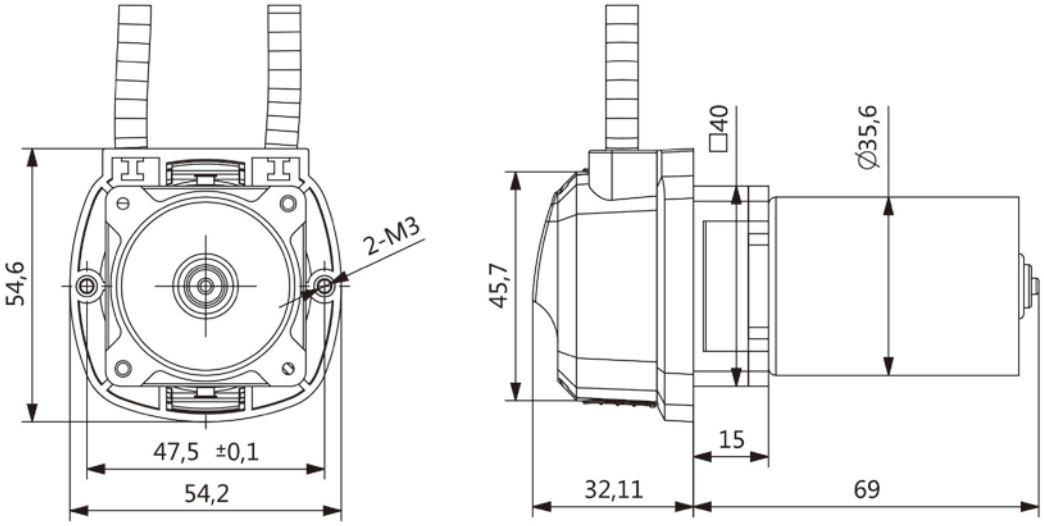


KHS- SV 3 N 16 □

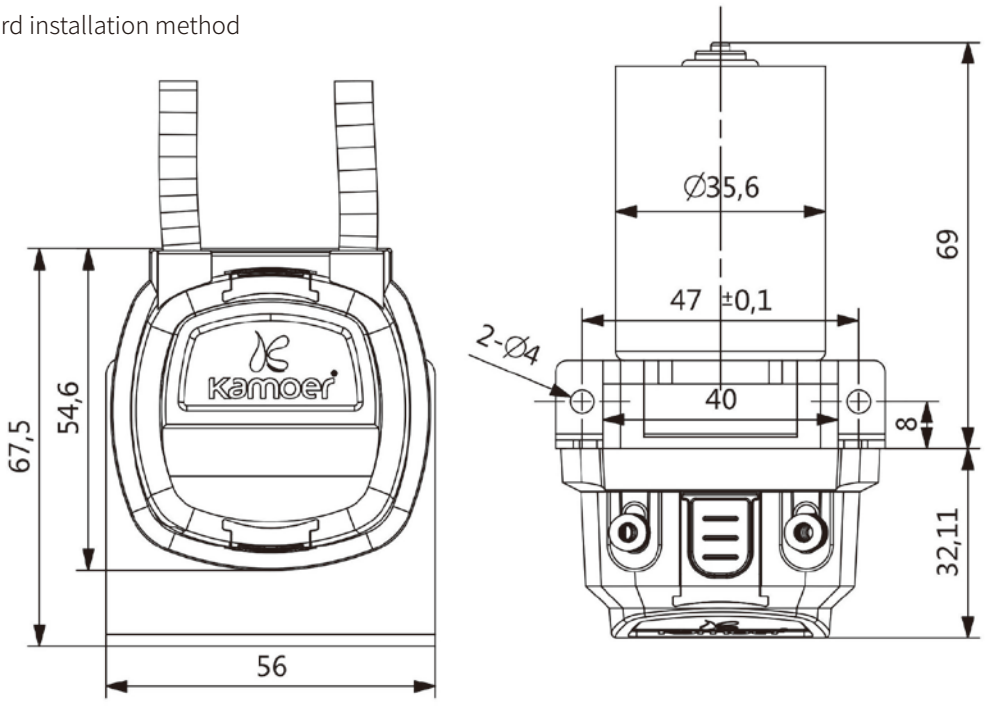
Motor selection | Rotor | Pump tube material | Pump tube size | Installation method

Appearance size chart

Board mounting method



L board installation method



Peristaltic Pump Series
-KCS3

Performance characteristics

- Suitable for viscous, non-viscous liquid transport
- High precision, small pulsation
- Simple structure and good reliability
- Quick change of pump tube

Introduction to KCS3 Series Peristaltic Pump

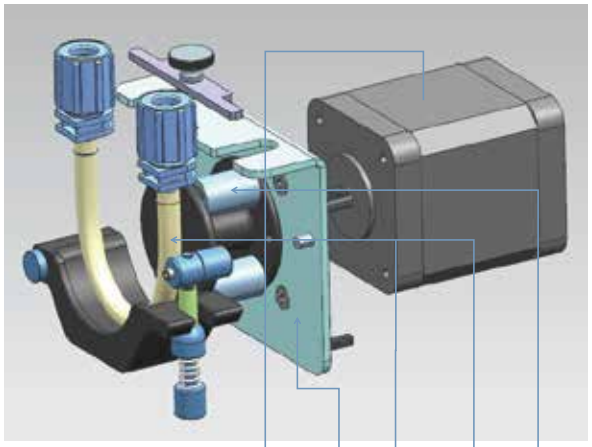
Motor Selection - The KCS3 peristaltic pump is a 24V 42 stepper motor driven peristaltic pump.
Pump tube selection - The pump tube uses imported PharMed BPT (B) and silicone tube (S) with a wall thickness of 1.6mm, which can be used for different transfer liquid requirements. In addition, the pump tube size is optional to meet different flow requirements.
The installation method is two ways of fixing the plate and fixing the bottom plate (see the attached figure for details).
Flow Accuracy - The number of rotors of the KCS3 peristaltic pump is adjustable, and 3 or 6 rotors can be selected according to requirements. The more the number of rotors, the higher the accuracy, and the smaller the pulsation, the smaller the flow rate.
The main material - buckle shell, synchronous disc is made of hard aluminum alloy, sheet metal is Q235-A spray, machined parts are SUS304 stainless steel, and the joint material is PP.

Performance parameter

Code			B14	B19	B16	S40
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
Ldeal working conditions: ambient temperature 0~40°C; Relative humidity <80%; Input current 1.2A; Positive pressure 0.1Mpa; Maximum speed 450RPM;Net weight: ≈560g; Single packaged gross weight: 640g; Single package size: L170*125H110; Maximum packaging carton size: L585*W270*H330 (can hold 40); Gross weight: 24KG; Batch accuracy: ±5%; Repeatability: 2% (Reference data, actual according to different types of working conditions) Recommended power: 24V 1.5A or more.						

Note:

1. The above flow parameters are measured at 20 °C at room temperature and atmospheric pressure, 450 RPM, with pure water without pressure. Actually, according to different media, different outlet pressures, assembly tolerances, etc., there will be some error in the flow rate. The data is for reference only.
2. The test data of the pipe type used was measured with a KCS3 3 rotor pump head running at a speed of 450 rpm, and the room temperature was 20 ° C pure water without pressure until the pump tube cracked. The pump head speed is different from that of the pump tube. In general, the slower the pump head speed is, the longer the pump life is. The actual service life is affected by the medium, working condition, voltage and other factors.
The test data is for reference only.



KCS3-SA A B 14 3

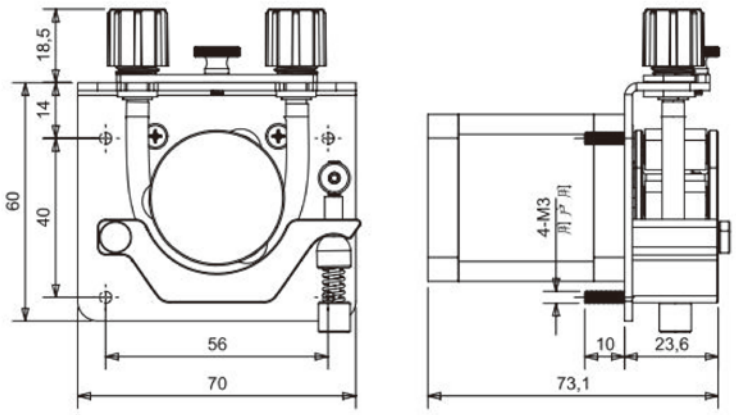
Motor selection | Installation method | Pump tube material | Pump tube size | Rotor

Pump pipe joint correspondence table

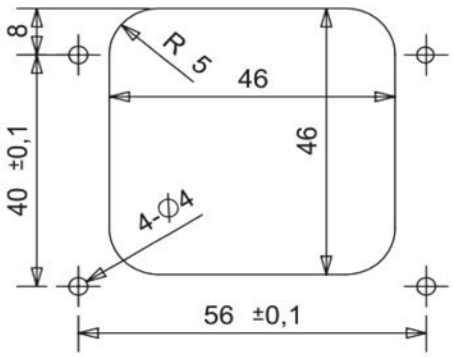
No.	Code	Suitable for pump tube inner diameter	External pipe diameter
1	25.20.0006	0.6≤φ≤2.0	Φ1.8 ~ φ2.4
2	25.20.0008	2.0 < φ≤3.2	Φ2.5 ~ φ3.2
3	25.20.0010	3.2 < φ≤4.0	Φ3.3 ~ φ4.0

Dimensional drawing

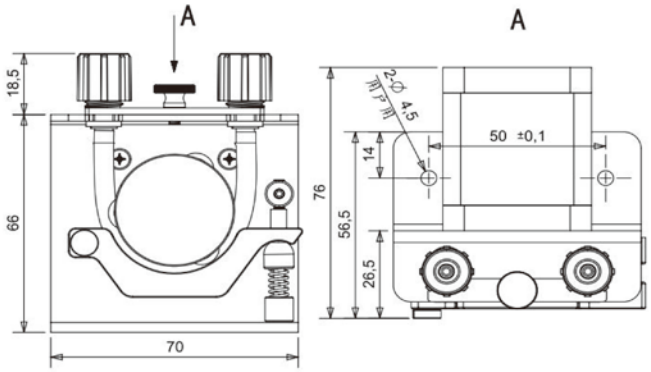
Straight step size drawing of stepper motor (A mounting method)



Opening size



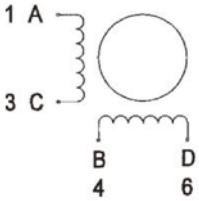
Stepper motor Z-shaped form factor drawing (B mounting method)



Stepper motor wiring diagram

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

Wiring Diagram



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

Performance characteristics

- Suitable for viscous, non-viscous liquid transport
- Quick change of pump tube
- A variety of pump tube materials can be selected
- Gear transmission, high reliability

KK Peristaltic pump series introduction

Motor Selection - KK series peristaltic pump is a kind of two kinds of DC motor, stepper motor driven peristaltic pump, 24V/12V DC motor can provide different voltage selections, stepper motor provides higher precision guarantee.

Pump tube selection - The pump tube is made of 1.6mm wall thickness of imported BPT (B) and silicone tube (S), which can be used for different transport liquid requirements, and the pump tube size is optional to meet different flow requirements.
Installation method - The installation method is straight plate fixing and L plate fixing (see the attached drawings for details).
Transmission mode - DC motor transmission mode is multi-stage gear transmission with a reduction ratio of 1:20.
The main material - the pump head is made of PC plastic, the pump body PA and gear are synthetic engineering plastics.

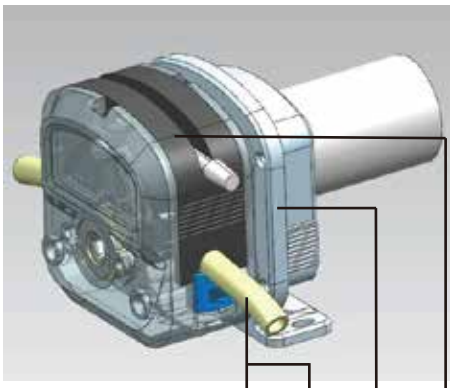
Performance parameter table

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
Pump tube material			S	S	S	S	BPT	BPT	BPT
Flow rate (ml/min)	DC Brush Motor Code KKDD	24V 0.6A	440	600	1000	1300	440	600	860
		12V 1.2A	440	570	900	1240	410	560	800
	24V Stepper motor code KKTS 350RPM	Current 1.8A	420	650	1100	1600	420	650	1000
Ldeal working conditions: Ambient temperature 0~40°C; Relative humidity <80%; The ambient noise of the quiet room is 35dB; The KKDD distance is 50M, 69dB; The distance is 0CM, 74dB. KKTS distance 50CM, 59dB; Distance 0CM, 68dB.									

Note:

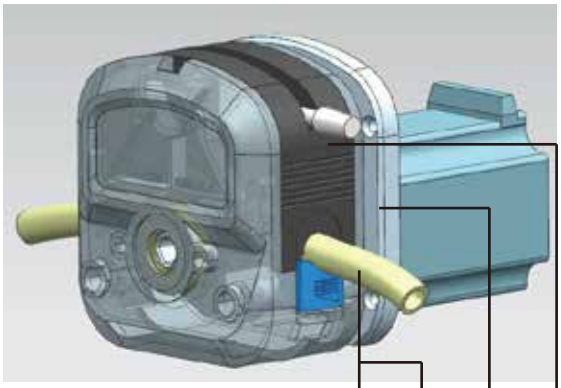
1. The above flow parameters are measured at 20 °C at room temperature and atmospheric pressure, 450 RPM, with pure water without pressure. Actually, according to different media, different outlet pressures, assembly tolerances, etc., there will be some error in the flow rate. The data is for reference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

2. The above test data is measured at a pump head speed of 300 rpm for continuous uninterrupted operation, and the room temperature is 20 ° C pure water without pressure until the pump tube is cracked. The pump head speed is different for different pump tube life. In general, the slower the pump head speed, the longer the pump tube life, the actual service life is affected by factors such as medium, working condition, temperature and humidity, voltage, etc.
Test data for reference .



KKDD-24 B 17 L A

Motor voltage | Pump tube material | Pump tube size | Installation method | Single and double head

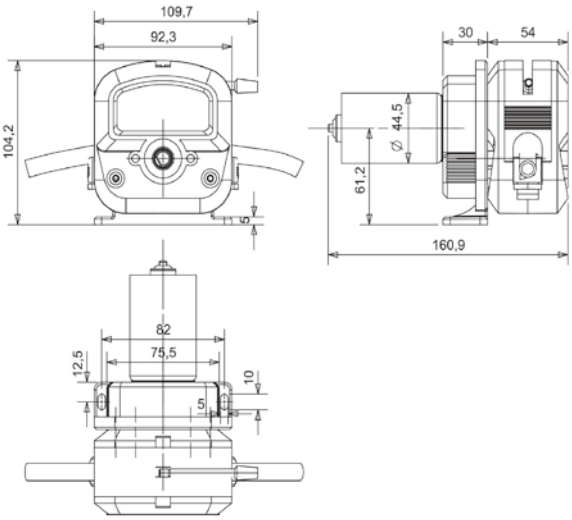


KKTS-24 B 17 L A

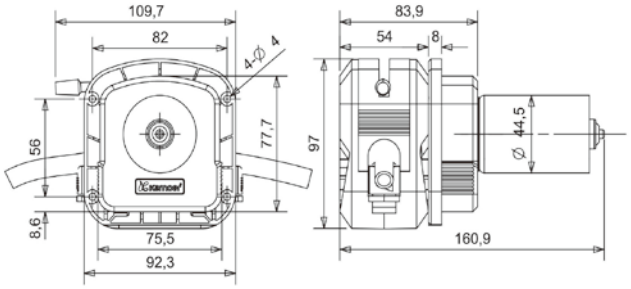
Motor voltage | Pump tube material | Pump tube size | Installation method | Single and double head

Dimensional drawing

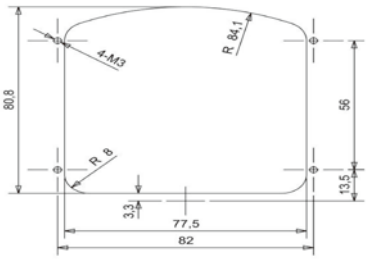
KKDD L Board outline drawing



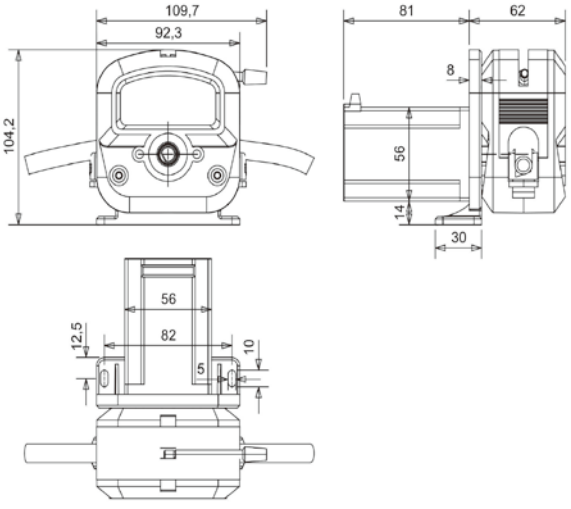
KKDD Straight plate size chart



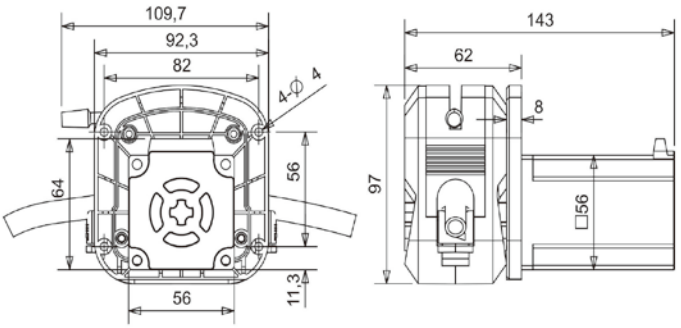
KKDD Straight reference opening size



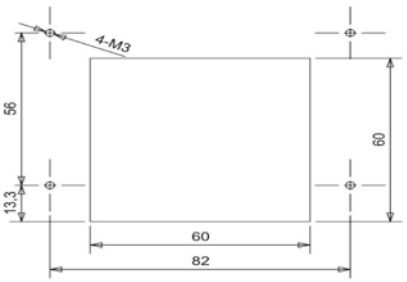
KKTS L Plate dimensions



KKTS Straight plate size chart



KKDD Straight reference opening size



Peristaltic Pump Series -KHM

Performance characteristics

- Suitable for viscous, non-viscous liquid transport
- Compact structure
- Exquisite appearance, color can be customized
- Plastic gear transmission, cost-effective

KHM Series peristaltic pump introduction

Motor Selection - The KHM series of peristaltic pumps are two types of DC motor driven peristaltic pumps. The 24V/12V DC motors offer different voltage options.

Pump tube selection - the wall thickness of the pump tube is 1.6mm imported Norprene (N) and silicone tube (S), which can be applied to different transfer liquid requirements, and the pump tube size is optional to meet different flow requirements. .

Installation method - The installation method is the fixing of the plate and the installation of the L plate (see the attached drawings for details).

Transmission mode - transmission mode is planetary gear transmission, reduction ratio 1:8

The main material - the upper cover is made of PC plastic, the pump body PA and gear are synthetic engineering plastics.

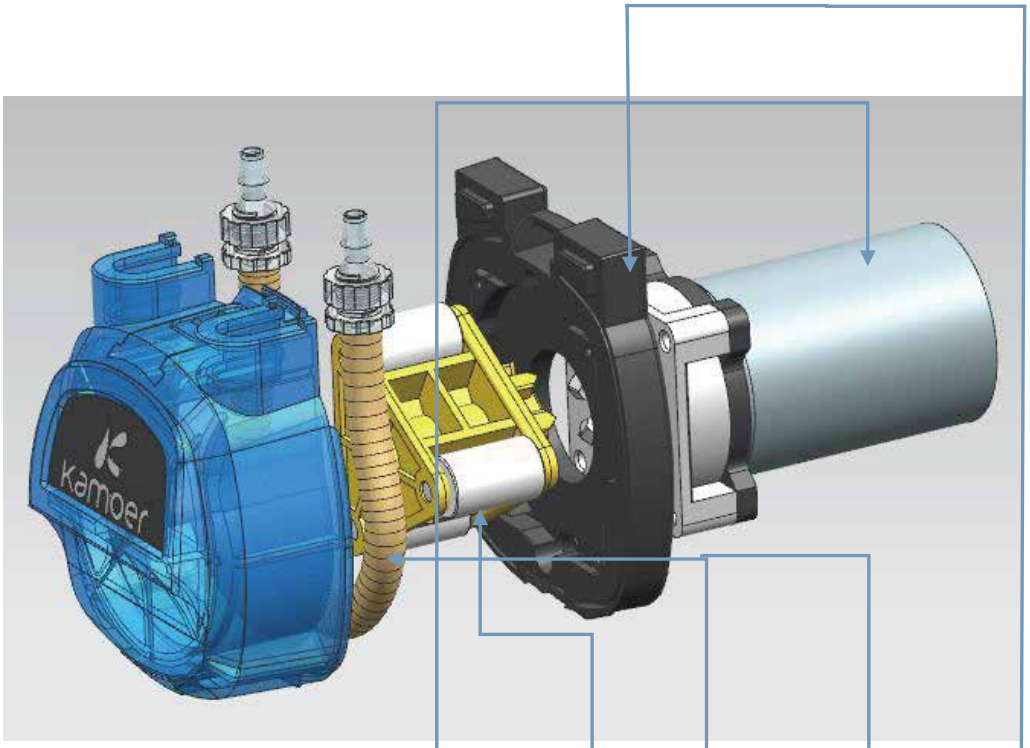
Performance parameter table

Code			S16	S40	N16	N40
ID*OD(mm)			3.2*6.4	4*7.2	3.2*6.4	4*7.2
Pump tube material			S	S	Norprene	Norprene
Flow rate (ml/min)	24V Brushed motor (SV) current 0.4A	3 Rotor	360	580	340	530
	12V Brushed motor (SW) current 0.8A	3 Rotor	350	540	330	500
Ldeal working conditions: Ambient temperature 0~40°C; Relative humidity <80%;						

Note:

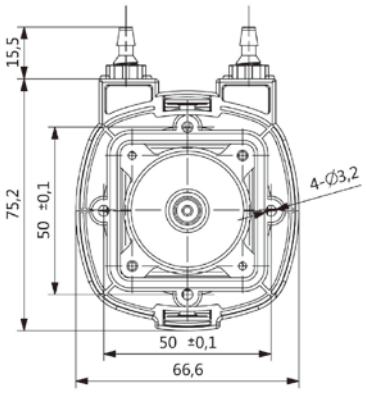
1. The above flow parameters are measured at 20 C, room temperature, atmospheric pressure and pure water without pressure. In fact, according to different media, different outlet pressures, assembly tolerances and so on, the flow rate will have certain errors. The data are for reference only.

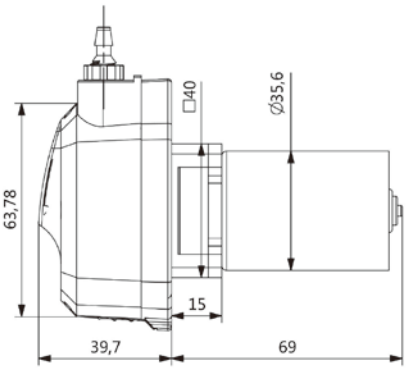
2. The above test data is measured at a pump head speed of 420 rpm for continuous uninterrupted operation, and the room temperature is 20 ° C pure water without pressure until the pump tube is cracked. The pump head speed is different for different pump tube life. In general, the slower the pump head speed, the longer the pump tube life, the actual service life is affected by factors such as medium, working condition, temperature and humidity, voltage, etc. Test data for reference .



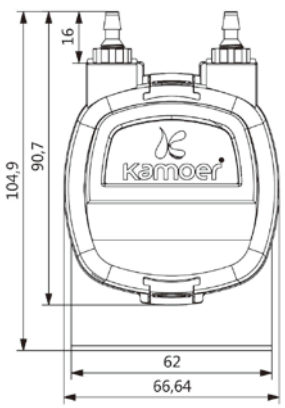
Dimensional drawing

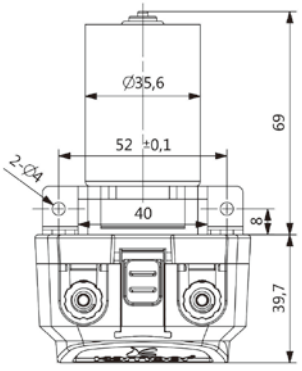
Bulkhead installation





L Board installation method





Performance characteristics

- Suitable for viscous, non-viscous liquid transport
- Compact structure
- Exquisite appearance, color can be customized
- Plastic gear transmission, cost-effective

KMPP series peristaltic pump introduction

Motor Selection - KMPP series peristaltic pump is a miniature peristaltic pump driven by a DC geared motor. The DC motor voltage is 3.7V
Pump tube selection - The pump tube is made of silicone tube (S) with a wall thickness of 0.5 mm
Installation method - There are two installation methods (see the attached figure for details).
Transmission mode - The transmission mode is DC geared motor drive.
The main material - the pump casing is made of PP plastic, and the internal moving parts are POM plastic.

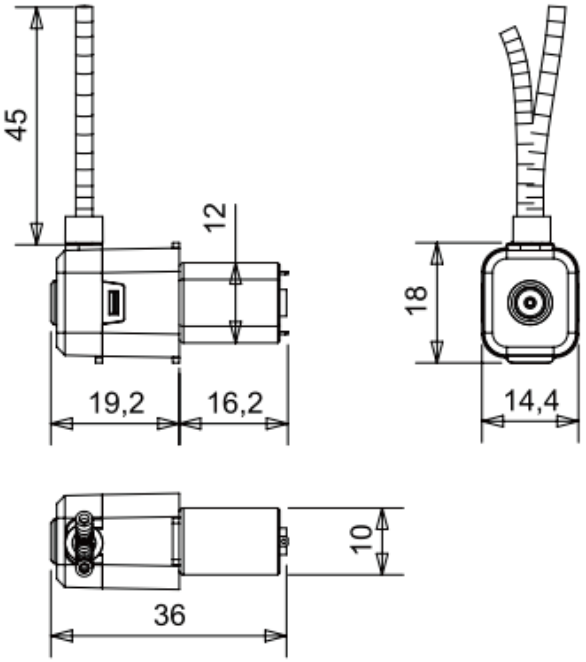
Performance parameter table

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

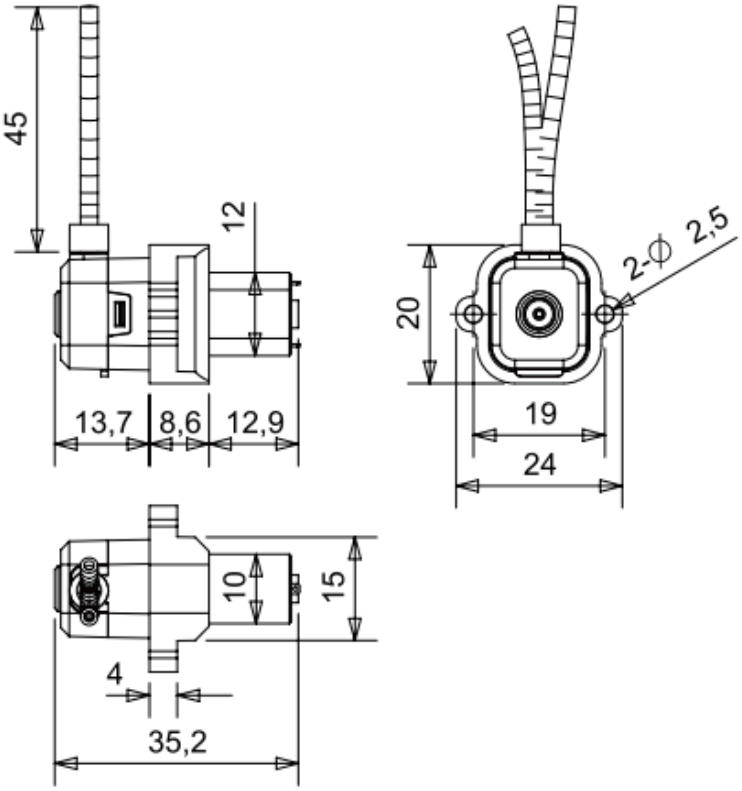
Pump pipe joint correspondence table

No.	Pump pipe joint specifications	Suitable pump tube inner diameter
1	1/16	1≤φ≤2

Dimensional drawing



Dimensional drawing with rubber shock absorber




kamoer
100.0
4000.0
020
020

Maximum flow ml/min	Product Series	Flow ml/min	Applications	Function	Page number
< 100	NKCP	2.6~65ml/min	Laboratory sampling	Transfer liquid	47~48
	KCP-C	2.6~65ml/min	Automatic car washing machine	Pumping detergent	49~50
	NKCP3	2.6~65ml/min	Laboratory sampling pump	Transfer liquid	
	KCP2-KXF	4~41.5ml/min	Science instruments	Simulating blood flow	58~59
	KCP2-KFS	4~49ml/min	Cleaning equipments	Pumping disinfectant	60~61
	F01A	1.2~90ml/min	Nutrient fluid addition	Quantitative addition	51~52
	F01A-STP	30~90ml/min	Automation equipment	Microsampling	51~52
100~500	KCPPRO2	40~260ml/min	Cleaning equipments	Transfer liquid	62~63
	LLS PLUS	0.5~352ml/min	Washing equipment	For lubricants	55
500~1000	DIP	22~670ml/min	Automation equipment	Quantitative sampling	64~65
	LAB	≤1200ml/min	Laboratory circulation pump	Liquid circulation	99~100
1000~2000	UIP WIFI	1~1300ml/min	Pipeline dispensing	Distribution	53~54
> 2000	BIP	320~6000ml/min	Pipeline dispensing	Distribution	66~67
	AIP WIFI	≤6000ml/min	Pipeline dispensing	Distribution	56~57

Lab Pump Series (Controlled)
-NKCP

Performance characteristics

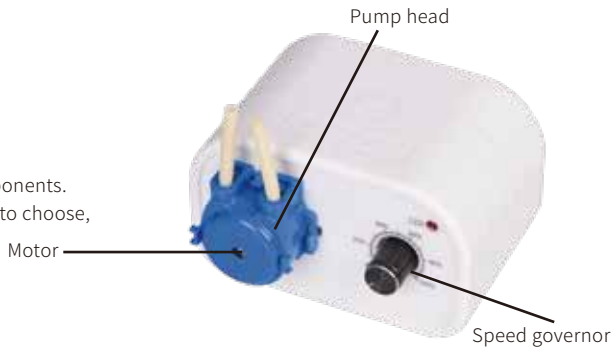
- Low cost adjustment of flow rate
- Convenient and quick replacement of pump tubing
- Low noise, small space occupation
- Simple structure and maintenance free
- With three rotors, moderate pulsation
- Liquid transfer direction can be changed

NKCP Series adjustable speed intelligent machine pump

The user can adjust the flow rate of the pump by turning the knob, and the direction of the pump can be used to switch the direction of the liquid transported by the pump. One pump meets the need for bi-directional transmission of multiple flow rates, with the lowest cost in variable speed pumps.

Internal structure

It mainly consists of outer casing, governor, motor, pump head, commutator and other components. Among them, the pump tube and the pump tube joint have various situations for customers to choose, and the motor and the pump affect the flow rate of the pump.



Performance parameter

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
Pump tube material	S	S	S	S	S	BPT	BPT
Flow rate (ml/min)	2.6~4	4~14	11~34	17~50	19~65	9.3~32	14.6~41.5

Pump pipe joint (material PP)

Connector	Straight connector sales code	L Connector sales tags	Y Connector sales code	T-Joint sales code	Cruciform joint sales tags	Suitable pump tube inner diameter
1/16	32050004	32050027	32050006	/	32050039	0.6≤φ≤1.6
3/32	25010021	32050028	32050029	32050053	/	1.6 < φ≤2.4
1/8	32050066	32050037	32050015	32050020	32050019	2.4 < φ≤3.2

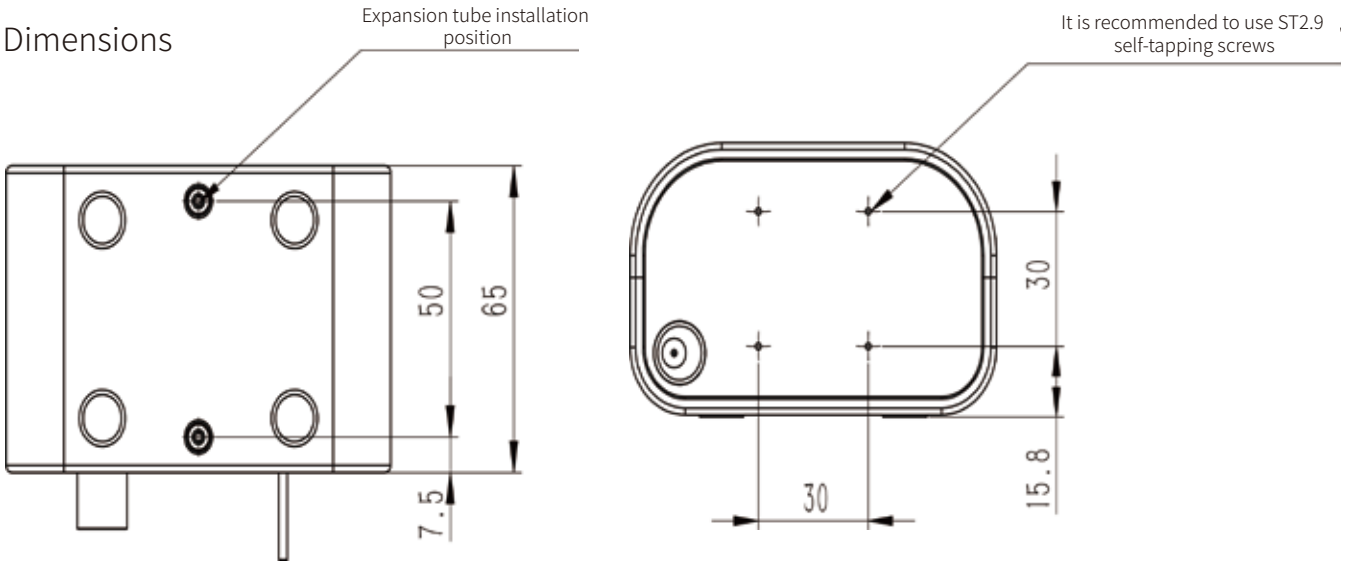
Power and power cord selection

Power Adapter	24VCN	24VUS	24VEU	24V United Kingdom	24V Australia
Sales code	32040002	10080033	10080021	10080038	10080039
Power cable	Code L; Sales code: BB040022				

A schematic view of the power adapter

A schematic view of the power cord

Dimensions



Other parameters

NKCP pump weight: about 185g

Pump tube length: 135mm (exposed 29.5mm) code B tube, 175mm (exposed 49.5mm) code is S tube;

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

Lab Pump Series (Controlled)
-KCP-C

Performance characteristics

- Low cost adjustment of flow rate
- Convenient and quick replacement of pump tubing
- Low noise, small space occupation
- Simple structure and maintenance free
- With three rotors, moderate pulsation

KCP-C Series adjustable speed intelligent machine pump

The user can adjust the pump flow by turning the knob. A pump meets a variety of flow rates and is the least expensive in a variable speed pump.

Performance parameter

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	1.0x3.0	2.0x4.0	2.5x4.5
Pump tube material	S	S	S	S	S	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

Pump pipe joint (material PP)

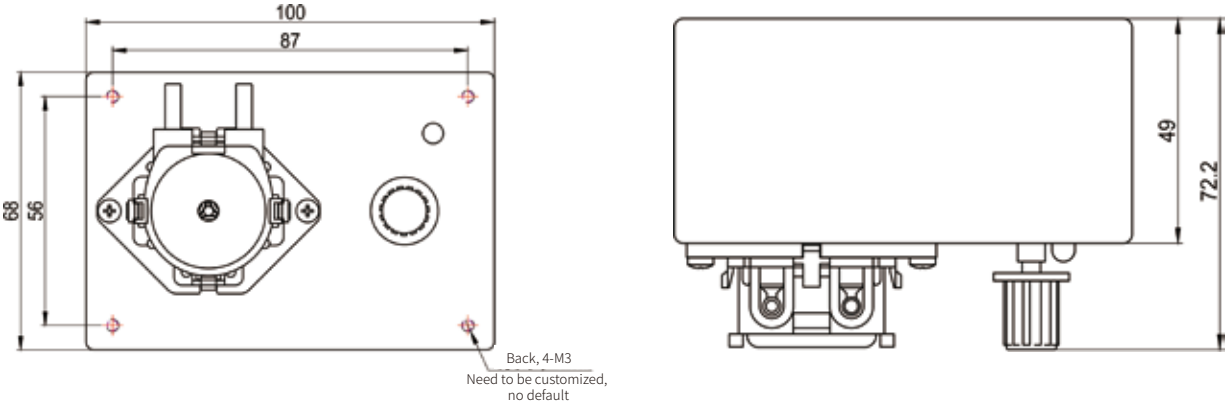
Connector	Straight connector sales code	L Connector sales tags	Y Connector sales code	T-Joint sales code	Cruciform joint sales tags	Suitable pump tube inner diameter
1/16	32050004	32050027	32050006	/	32050039	0.6≤φ≤1.6
3/32	25010021	32050028	32050029	32050053	/	1.6 < φ≤2.4
1/8	32050066	32050037	32050015	32050020	32050019	2.4 < φ≤3.2

Power and power cord selection

Power Adapter	24VCN	24VUS	24VEU	24V United Kingdom	24V Australia
Sales code	32040002	10080033	10080021	10080038	10080039
Power cable	Code L; Sales code: BB040022				

A schematic view of the power adapter

Dimensions



Other parameters

Pump tube length: 135mm (exposed 29.5mm) code B tube, 175mm (exposed 49.5mm) code is S tube;
Working conditions: temperature 0~40 °C, humidity <80%

Weight: 270g(Without power);330g(With power supply)

Lab Pump Series (Controlled)
- KSP-F01A

Adjustable speed intelligent machine pump
Supports forward and reverse rotation, with calibration function

F01A

F01A-STP

Aquarium

Aquarium water circulation, adding trace elements, fish tank pumping

Teaching Equipment

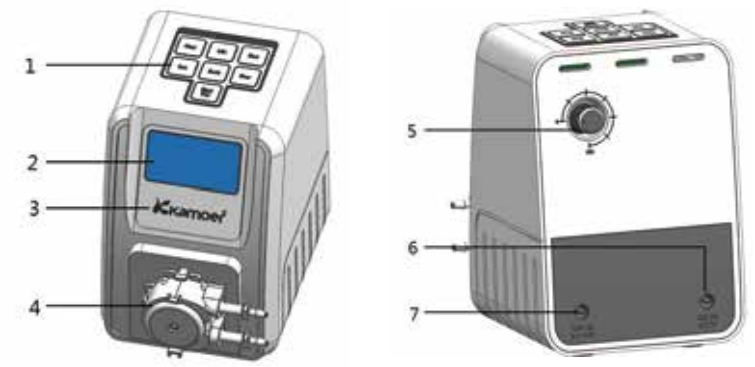
Schools, research institutions

Program control

Precise liquid dispensing, dispensing, quantitative extraction, filling

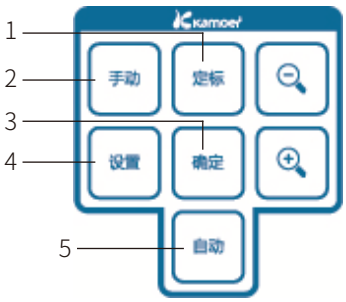
- Small appearance and powerful
- LCD display, button operation
- Support speed regulation, can be adjusted to the required speed through the speed control knob
- Real-time clock, support timing start and stop
- Run interval can be set to support cyclic operation
- Support time period operation
- Support multi-machine serial connection through expansion line
- Calibration function (the number of titrations is 96 times / day ~ 1 time / 4 days, each time dosing liquid volume is 1m ~ 9999m)

Appearance introduction



1. Button 2. LCD Screen 3. LCD Screen
4. Pump head assembly
5. Speed control button
6.DC 12V IN
7.DC 12V OUT

Key Description



1. Calibration button: calibration button;
2. Manual button: manual run button
3. OK button: OK button;
4. Set button: set button;
5. Auto button: auto run button;

Performance parameter

Model		F01A-DC	F01A-STP
Pump head		KPP DC motor pump	KAS stepper motor pump
Adapter	Input	AC 100-240V 50-60Hz 1.0A max	
	Output	DC 12V 1A	DC 24V 1.9A
Power input power		12W	
Add times		96 times / day - 1 time / 4 days	
Flow range		1 ml - 9999 ml	
Quantitative accuracy		<±2%	
Working environment		Temperature 0-70 ° C	
Storage environment	Humidity	10%-90% (Non-condensing)	
	Temperature	-20℃-85℃	
	Humidity	10%-90% (Non-condensing)	
Size (length * width * height)		200*170*110mm	
Weight		660g	

High precision intelligent peristaltic pump

Performance characteristics

- ◆Small volume, large flow
- ◆ Suitable for viscous, non-viscous liquid transfer
- ◆Replace the pump tube is simple
- ◆Stainless steel rotor, long life
- ◆Stepper motor, precise control
- ◆The pump tube has a thick wall and can withstand large pressure
- ◆External sensing device for automation
- ◆ can realize mobile phone App remote control
- ◆ Built-in 2 working modes, making it easier to use
- ◆Advanced calibration method

UIP WIFI intelligent peristaltic pump

UIP WIFI series intelligent peristaltic pump is an upgraded version of CK-ODM peristaltic pump. It uses peristaltic pump tube with wall thickness of 1.6mm or 2.5mm. The maximum flow rate can reach 1500ml/min. The series of peristaltic pumps are controlled by microcomputer touch screen. Users are more convenient and quick to use.

UIP WIFI series intelligent peristaltic pump has two working modes built in for users to set: continuous mode, volume mode (including copy function). According to the user's usage, the two modes cover the working modes that can be used in various industries. The UIP WIFI series of intelligent peristaltic pumps offer an extended function for connection to temperature sensing and level sensing devices. The connection of the temperature detection and liquid level sensing device makes the instrument work more intelligent. At the same time, UIP WIFI series intelligent peristaltic pump,It also has a mobile phone app control function that allows people to operate the machine remotely.

UIP WIFI series intelligent peristaltic pump has adjustable number of rotors and is currently in mass production. The number of kamoer UIP WIFI series intelligent peristaltic pump rotors is 3 or 6
Note: The more the number of rotors, the smaller the pulse of the pump

Material / Rotor	Different pump tube specification flow rate ml/min				
BPT	#19	#16	#25	#17	#18
CK15/3 Rotor	190ml/min	310ml/min	650ml/min	/	/
CK15/6 Rotor	140ml/min	220ml/min	390ml/min	/	/
S	#19	#16	#25	#17	#18
CK15/3 Rotor	170ml/min	300ml/min	670ml/min	1050ml/min	1520ml/min
CK15/6 Rotor	120ml/min	200ml/min	440ml/min	630ml/min	780ml/min
S	#15	#24			
CK25/3 Rotor	530ml/min	950ml/min			

Other technical parameters

Instrument size: 295mm * 158mm * 240mm (including handle, with pump)
Motor life: ⩾6000h ; Working voltage: AC 100~240V ; Maximum power: 25W
Maximum speed: 300RPM; Speed control resolution: 0.1RPM ; Language setting: Chinese / English
Mode setting: continuous mode / volume mode
External control: temperature sensor (optional), liquid level sensor (optional), bracket (optional), foot switch (standard)

Accessories selection

The UIP WIFI series of intelligent peristaltic pumps offer the following accessories:

Temperature sensor (optional) ;level sensor (optional) ;bracket (optional) ;foot switch (standard)

Temperature Sensor

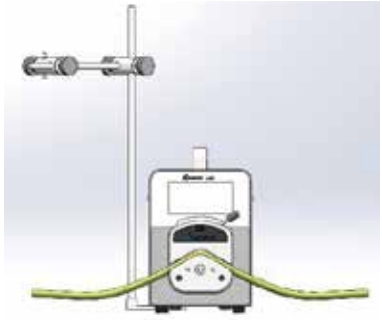
Temperature sensors can be used to monitor ambient temperature, liquid temperature, or the temperature of other objects.We have two temperature sensors, one is a normal temperature model, codenamed CT-2, and its sensing temperature range is -55°C to +85C. The other is a high temperature model, codenamed 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.

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 pipeline 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.

Lab Pump Series (Controlled) - LLS Plus

Experimental intelligence assistant

LLS Plus series peristaltic pump is a low-flow high-precision stepper peristaltic pump with the following advantages: stepper motor drive, high precision; 128*64 LCD screen display, touch button operation, simple and convenient; use AC 220V direct power supply, wiring simple.

Application areas: filling industry, calcium counter, cosmetic / beverage volume, laboratory, school, medical equipment

Weight: 2.5KG
Power supply: AC110V-240V
Power: 20W max

LLS Plus pump customer selection table

Imported Norprene® tube (N)		Imported PharMed®tube (BPT)		Silicone tube(S)		Pump tube size (mm)	Flow
6 Rotor	3 Rotor	6 Rotor	3 Rotor	6 Rotor	3 Rotor		
/	/	/	/	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 sales code starting with CK in the selection table. For example: CK40200301, on behalf of this LLS Plus pump with 3 rotor, 0.8 × 4 domestic silica gel pump tube, factory qualified flow rate ⩾17.6ml / min

Lab Pump Series (Controlled) -AIPWiFi

Performance characteristics

- ◆Small volume, large flow
- ◆ Suitable for viscous, non-viscous liquid transfer
- ◆Replace the pump tube is simple
- ◆Stainless steel rotor, long life
- ◆Stepper motor, precise control
- ◆The pump tube has a thick wall and can withstand large pressure
- ◆External sensing device for automation
- ◆Can be controlled by mobile app
- ◆ Built-in two working modes
- ◆Advanced calibration method

AIP WiFi intelligent peristaltic pump

AIP WIFI intelligent peristaltic pump adopts 1.6mm or 2.5mm wall thickness pump tube for the upgraded version of AIP peristaltic pump, the maximum flow rate can reach 6000ml/min. The series of peristaltic pump adopts large-size touch screen and button control, which is convenient and quick to use.

The AIP WIFI intelligent peristaltic pump has two working modes: continuous mode and volume mode (including copy function). These two modes of operation basically meet the needs of various industries. The AIP WIFI intelligent peristaltic pump provides an extended function that can be connected to a temperature sensor and a liquid level sensing device. The sensor feedback can make the peristaltic pump work more intelligent. At the same time, the AIP WIFI smart peristaltic pump can be controlled by the mobile app.

The AIP WIFI series of intelligent peristaltic pumps have an adjustable number of rotors and are available in 3 or 6 rotors.

Note: The more the number of rotors, the smaller the pump pulse.

Applicable pump head	Tube ID	Size	Maximum flowml/min
KK15 3 Rotor	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 Rotor	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#	7.9x12.9	5000
	36#	9.6x14.6	6000

Accessories selection

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~+85°C; the other is a high temperature model, codenamed GT-2, its sensing temperature. The range is -55 ° C ~ +125. At the usual temperature (-10 ° C ~ +85 ° C), the temperature accuracy can reach ± 0.5 °. The temperature sensor line length defaults to 2 meters, which is CT-2 or GT-2; but it can also be customized at 1, 3, 4, and 5 meters.
The temperature sensor line is an optional accessory.

Foot switch

The foot switch is used to replace the start/stop button. Under the appropriate interface, step on the foot switch.It can 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.

Level sensor

1. A liquid storage bottle for providing a stock solution, the instrument provides an alarm when the amount of liquid in the liquid storage bottle is running out;
2. A collecting bottle for collecting externally transported liquid, the instrument provides an alarm when the collecting bottle is almost full.

The liquid supply can be stopped automatically.
The default container capacity is 2L, the container size is Φ125mm*230mm; the sensor line length is 2Meter, the pipeline length is 2 meters, the default pipeline specification is Φ5mm*Φ10mm. 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.

Other 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
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*

Lab Pump Series (Controlled)
-KCP2-KXF

Performance characteristics

- Low-cost adjustment of flow rate, multiple pumps combined into one
- Convenient and quick replacement of pump tube
- Low noise, small space occupation
- Simple structure, maintenance-free
- Three rotors, moderate pulsation

KCP2-KXF series adjustable speed intelligent machine pump

KCP2-KXF series adjustable speed peristaltic pump is derived from KPP series peristaltic pump. Users can adjust the flow rate of the pump by rotating the knob. One pump can meet the requirements of bidirectional transmission of various flow rates.
The lowest cost of adjustable speed pump .

Structural component

KCP2-KXF series speed control peristaltic pump mainly consists of outer casing, governor, motor, rotor, pump tube and other components. The pump tube and pump tube joints are available in various forms for customers to choose. The motor and pump tube affect the pump flow rate.

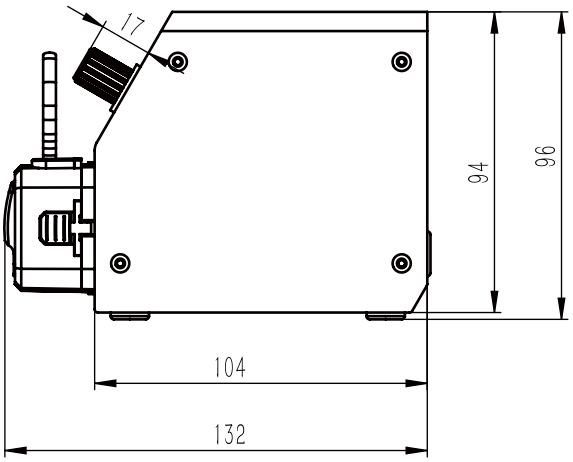
Customer selection table

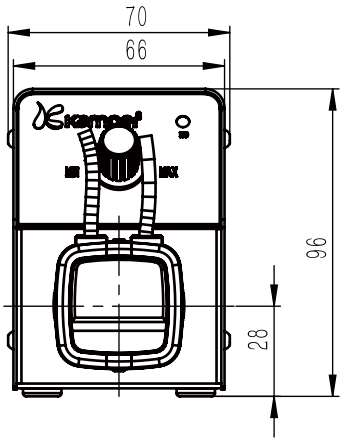
Material number	Power supply	Silicone tube	BPT tube	Flow ml/min
CK.10.36.0645	DC24V	1X3.3	1X3.3	4-10
CK.10.36.0646	DC24V	2.0X4.0	2.0X4.0	9.3-32
CK.10.36.0647	DC24V	2.5X4.5	2.5X4.5	14.6-41.5

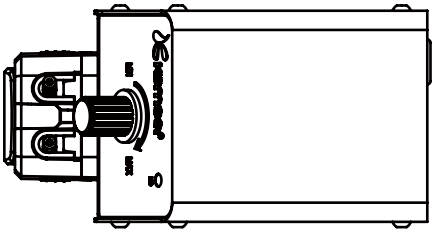
Pump pipe joint shape (material PP)

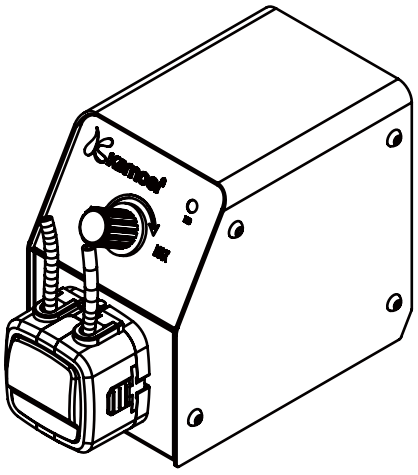
Connector	Straight connector sales code	L Connector sales tags	Y Connector sales code	T-Joint sales code	Cruciform joint sales tags	Suitable pump tube inner diameter
1/16	32050004	32050027	32050006	/	32050039	0.6≤φ≤1.6
3/32	25010021	32050028	32050029	32050053	/	1.6 < φ≤2.4
1/8	32050066	32050037	32050015	32050020	32050019	2.4 < φ≤3.2

Dimensional drawing









Other parameters

BPT pump tube length: 135mm (exposed 29.5mm)
Working environment: temperature 0~40°C; humidity <80%
Bare metal weight: 500g
Package weight: 700g (including power supply)

Lab Pump Series (Controlled)
-KCP2-KFS

Performance characteristics

- Gear transmission, higher precision
- Adjustable speed, measurable
- Meet a variety of traffic needs
- Intelligent adjustment knob
- Simple structure and easy maintenance

KCP2-KFS series adjustable speed intelligent machine pump

KCP2-KFS series speed intelligent peristaltic pump, users can adjust the pump flow rate by rotating the knob. One pump meets the need for bi-directional transmission of multiple flow rates, with the lowest cost in variable speed pumps.

Component structure

KCP2-KFS series speed intelligent peristaltic pump mainly consists of outer casing, governor, motor, rotor, pump tube and other components. The pump tube and pump tube joints are available in a variety of forms for the customer to select, and the motor and pump tube affect the pump flow rate.

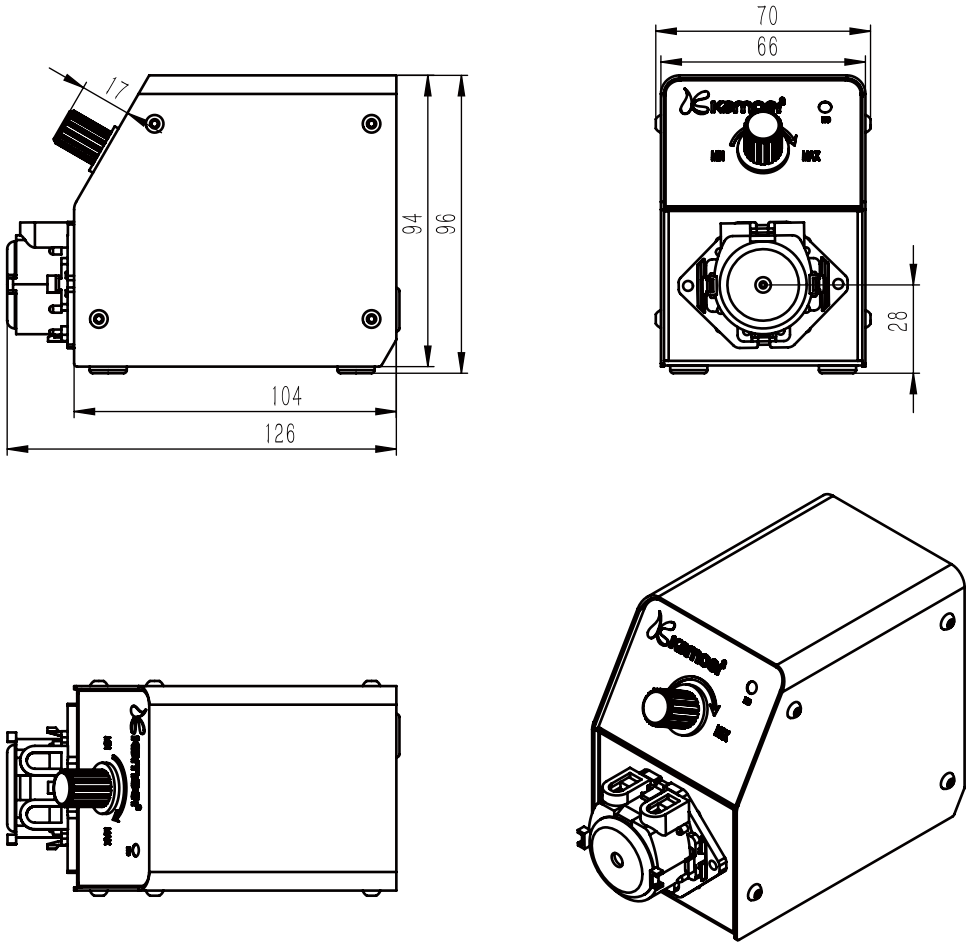
Customer selection reference

Material number	Power supply	Silicone tube	BPT tube	Flow 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

Pump pipe joint shape (material PP)

Connector	Straight connector sales code	L Connector sales tags	Y Connector sales code	T-Joint sales code	Cruciform joint sales tags	Suitable pump tube inner diameter
1/16	32050004	32050027	32050006	/	32050039	0.6≤φ≤1.6
3/32	25010021	32050028	32050029	32050053	/	1.6 < φ≤2.4
1/8	32050066	32050037	32050015	32050020	32050019	2.4 < φ≤3.2

Dimensional drawing



Other parameters

BPT pump tube length: 135mm (exposed 29.5mm)
Working environment: temperature 0~40°C; humidity <80%
Bare metal weight: 480g
Package weight: 625g (including power supply)

Lab Pump Series (Controlled)
-KCPPro2

Performance characteristics

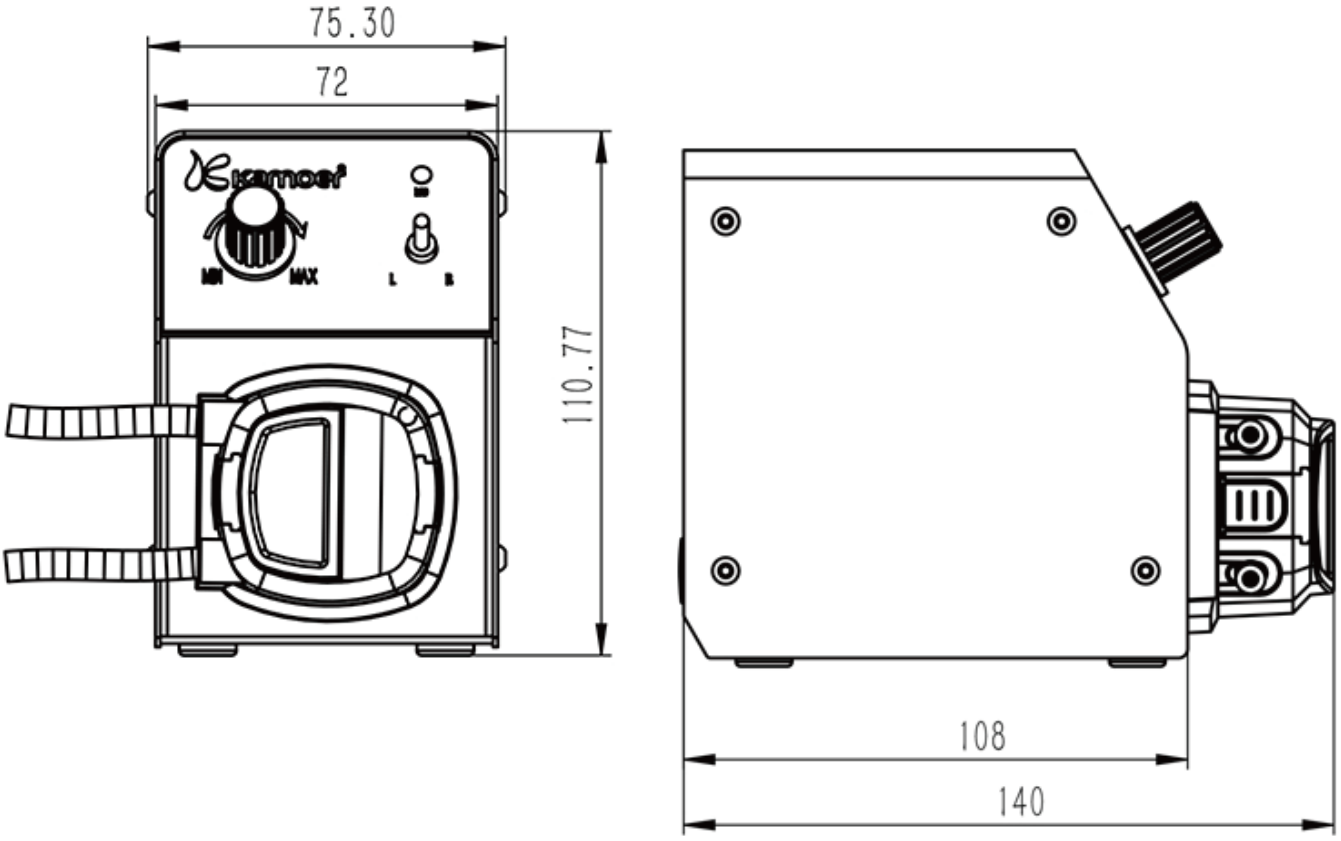
- Luxury upgrade, large pump head design,
- Motor life is up to 1000 hours
- Low noise, small space occupation
- Flow rate 30-260ml/min (specified pipe diameter)
- Standard French Norprene pump tube (according to FDA certification, very suitable for food, dairy application, heat resistance, ozone resistance, acid and alkali resistance, anti-aging, anti-oxidation, working degree -60 ° C -135 ° C)

KCP PRO2 series speed intelligent peristaltic pump

The KCP PRO2 Series Speed Control Intelligent Peristaltic Pump is an economical and convenient laboratory pump. The user can switch and speed control the pump through the potentiometer, and stop and forward and reverse control through the twist switch. Note: If you need the screen to display the flow rate or the user-specified flow rate, the pump will automatically adjust to the user's required flow rate. It is recommended to use the UIP or KCS PRO series of intelligent peristaltic pumps.

Product model	KCPPro2 - N19	KCPPro2 - N16	KCPPro2 - N40
Pump tube material	France Saint-gobain		
Pump tube model	2.4x5.6mm	3.2*6.4mm	4.0*7.2mm
Flow	24-92 ml/min	40-210ml/min	50-260ml/min
Positive pressure	0.15 Mpa		
Negative pressure	-0.09 Mpa		
Voltage	24V		
Electric current	0.3- 0.35(A)		
Net size	L139 x W79 x H110		
Weight	About 765g (with power supply)		

Dimensional drawing



Lab Pump Series (Controlled) -DIP

Performance characteristics

- Speed range: 0.1RPM-550RPM, 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: fully automatic cycle, semi-automatic cycle, manual
- Support functions: start and stop, forward and reverse, speed control, parameter memory, etc.
- Multi-machine interconnection: up to 15 units
- Flow range: ⩽670ml/min
- Power: <50W
- Power supply mode: external power adapter

Pump tube model selection

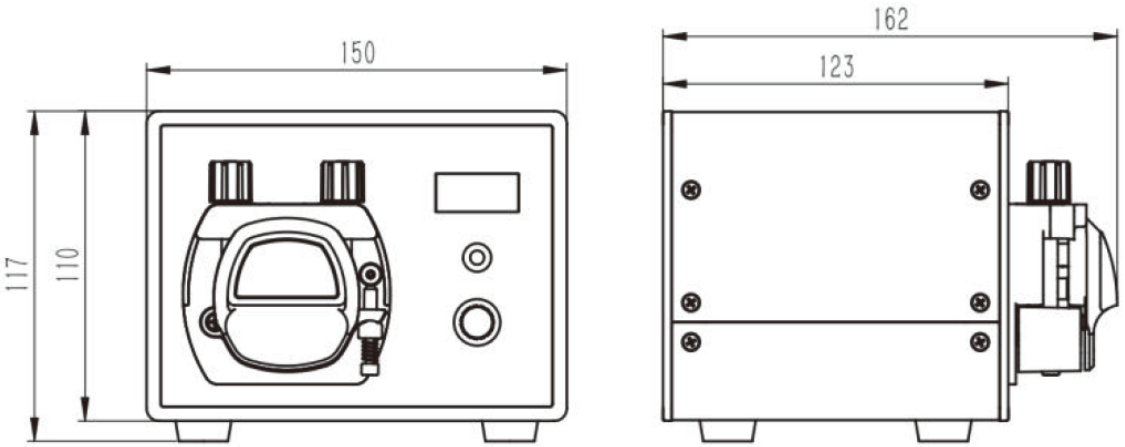
Pump tube model	Pump tube size	External pipe size	Rotor	Reference flow ml/min
S13	0.8*4.0	3*5	6	22
B14	1.6*4.8		6	60
B19	2.4*5.6		6	130
B16	3.2*6.4	4*6	3	300
B40	4.0*7.2		3	480
B25	4.8*8.0		3	670

Note: The maximum flow test environment is standard atmospheric pressure, transmission medium water, and new pump tube; the actual flow rate will vary depending on the transport medium, the air pressure and the new and old pump tubes.

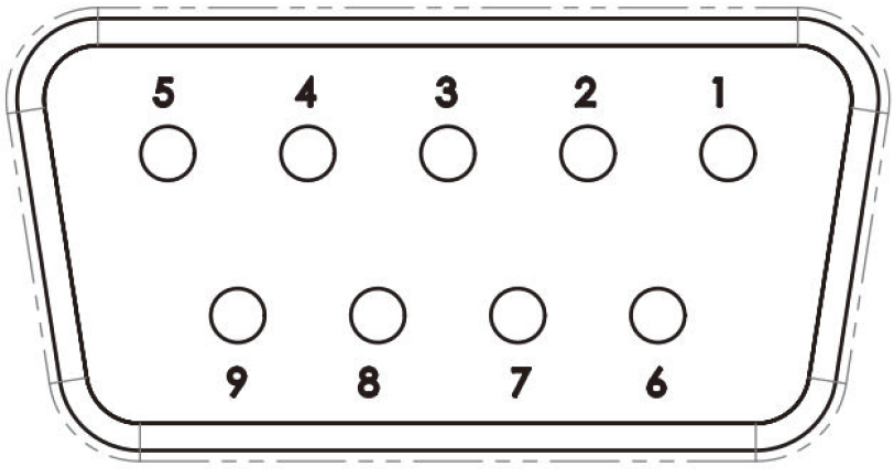
Working conditions

Ambient temperature: -20 ° C ~ 60 ° C
Rated voltage: 24V
Maximum current: 2A

Dimensional drawing



Subsequent interface name



1.Leave blank
2.485 B
3.485 A
4. Foot switch +
5. Foot switch -
6. Analog signal 5V-
7. Analog signal 5V+
8. Analog signal mA-
9. Analog signal mA+

Lab Pump Series (Controlled)
-BIP

Performance characteristics

- Speed range: 0.1RPM-600RPM, forward and backward
- Speed 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
- Close parameter memory: support
- Working mode: fully automatic cycle, semi-automatic cycle, manual
- Support functions: start and stop, forward and reverse, speed control, parameter storage, etc.
- Flow range: ⩽6000ml/min BIPump600
- Power: <150W BIPump600

Pump tube model selection

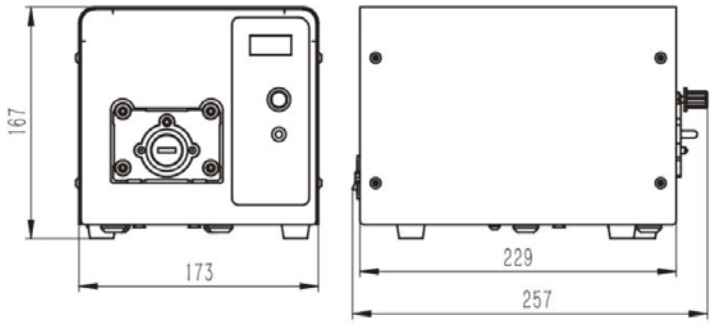
Product model	Pump head type and quantity	Recommended maximum rotation speed
BIPump600-KK25	KK25 X1	600RPM
BIPump600-KK25D	KK25 X2	600RPM
BIPump600-KK153	KK15 3 Rotor X1	600RPM
BIPump600-kk153D	KK15 3 Rotor X2	600RPM
BIPump600-KK156	KK15 6 Rotor X1	600RPM
BIPump600-KK156D	KK15 6 Rotor X2	600RPM

Working conditions

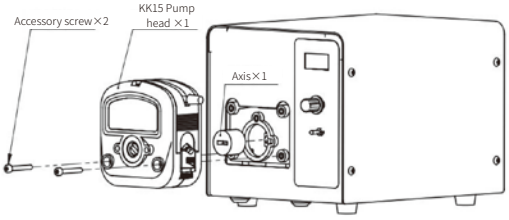
Ambient temperature: -20 ° C ~ 60 ° C
Rated voltage: 220VAC
Working voltage: AC 100~240V
Maximum power: 150W
Maximum current: 2A @220VAC

Pump tube number	Pump tube size	Suitable for pump head	Flow ml/min
19#	2.4x5.6	KK15 3 Rotor	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 Rotor	
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

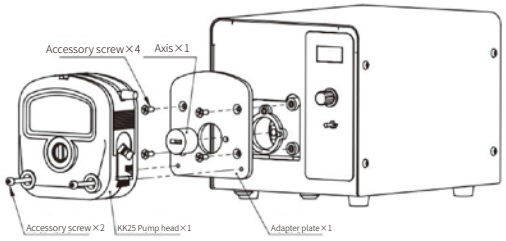
Dimensional drawing



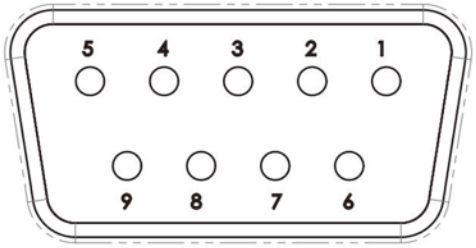
With KK15 pump head installation diagram



With KK25 pump head installation diagram



Subsequent interface name



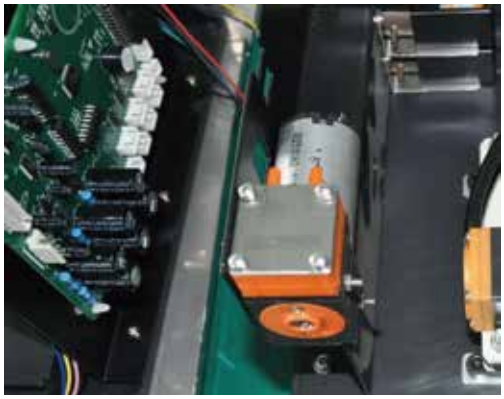
1.Leave blank 2.485 B 3.485 A 4. Foot switch +
5. Foot switch - 6. Analog signal 5V- 7. Analog signal 5V+
8. Analog signal mA- 9. Analog signal mA+

	Maximum flow ml/min	Product Series	Specific traffic ml/min	Application range	Function	Page number
Liquid pump	≤500	KLP180	≥160ml/min	Inkjet printer	Cleaning line	75
		KLP04	320±80ml/min	Fax machine	Supply ink pump	74
		ELLP400	≥160ml/min	Fax machine	Supply ink pump	76~77
	500~1200	EDLP600	≥600ml/min	Remote control boat	Recycled water	78~79
		KLP01	350~700ml/min	Biomedical analyzer	Waste discharge	70~71
		KLP02	700-1500ml/min	Solar wafers pipeline	Water film formation	72~73
		KLP01双头	350~700ml/min	Cell production machine	Waste discharge	70~71
	1200~2000	KLP02双头	700-1500ml/min	Cell production machine	Waste discharge	72~73
	> 2000	KLP40	4l/min	Garden watering car wash	Water pressure	80~81
Transport gas pump	< 2000	KVP04	> 66l/h	Fragrance emitting instrument	Provide positive pressure to spread the fragrance	91~92
	2000~8000	KVP300	60~360l/h	Portable humidifier	Negative pressure gas circulation	89~90
		HLVP6	300~400l/h	Breast enhancement instrument	Provide negative pressure	101~102
		KVP8	60~480l/h	Gas detection instrument	Pressure sampling	82~87
		KZP	420l/h	Portable oxygen generator	Pressure molecular sieve sample preparation	95~96
	8000~12000	KVP15单头	10l/min	Extraction instrument	Provide positive pressure	93~94
		KVP8 PLUS	≥380l/h	Genetic testing No.	Provide negative pressure	88
	> 12000	KVP15双头	13l/min	Automobile exhaust emission test	Negative pressure taking sample	93~94

Diaphragm Pump Series -KLP01

KLP01 Diaphragm Pump

KLP01 miniature diaphragm pumps are based on the simple principle of volumetric pump design. It is the diaphragm control imports and exports, after the formation of power-driven actuator pushes the piston reciprocating motion, encouraging work back and forth by the hydraulic diaphragm to the suction and discharge the liquid.
KLP01 Velocity Micro diaphragm pumps can reach 400~700ml/min, double heads liquid pressure for under 4bar time job, single head liquid pressure for under 2bar time job.



APPLICATION AREAS

Medical
Used with equipment supporting

Transport
Liquid transport and sample analysis

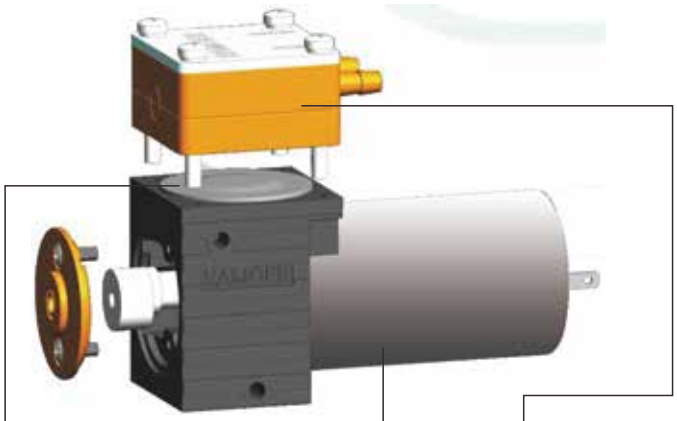
Inkjet
Ink transfer and pipeline cleaning

Laboratory
Liquid packaging and distribution

Aliquot samples
Liquid packaging and bottling

Washer
Used with equipment supporting

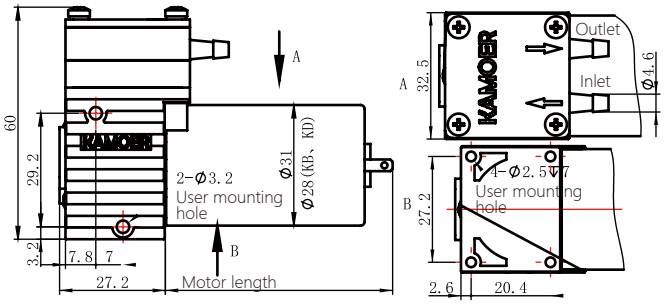
Environmental
Wastewater sampling and transport



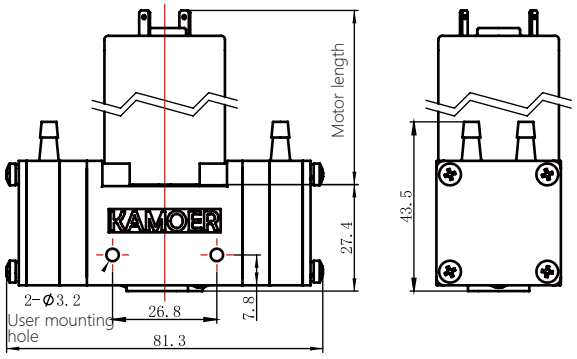
KLP01- E KA 1

The number of pump head is 1

Unit: mm



The number of pump head is 2



Note: When selecting the bottom's installation mode, M3 Cross screw is recommended.

Flow Model options

Model	Volt (V)	Type	Nember	Rated Load Current(A)	Weight (Kg)
KA	24	Brush	1	0.3	0.2
KB	24	Brushless	1	0.26	0.245
KC	12	Brush	1	0.36	0.2
KD	12	Brushless	1	0.38	0.275
KG	24	Brush	2	0.38	0.322
KH	12	Brush	2	0.69	0.322

Pump Nember	Materials	Flow rate (ml/min)	Positive Pressure (bar)	Negative Pressure (bar)
1	EPDM	≥350	0.6	0.5
	Fluoride	≥350		
2	EPDM	≥700		
	Fluoride	≥700		

KLP02 Diaphragm Pump

KLP02 miniature diaphragm pumps are based on the simple principle of volumetric pump design.
It is the diaphragm control imports and exports, after the formation of power-driven actuator pushes the piston reciprocating motion, encouraging work back and forth by the hydraulic diaphragm to the suction and discharge the liquid.
KLP02 Velocity Micro diaphragm pumps can reach 700~1500ml/min, double heads liquid pressure for under 4bar time job, single head liquid pressure for under 2bar time job.

APPLICATION AREAS

Medical
Used with equipment supporting

Transport
Liquid transport and sample analysis

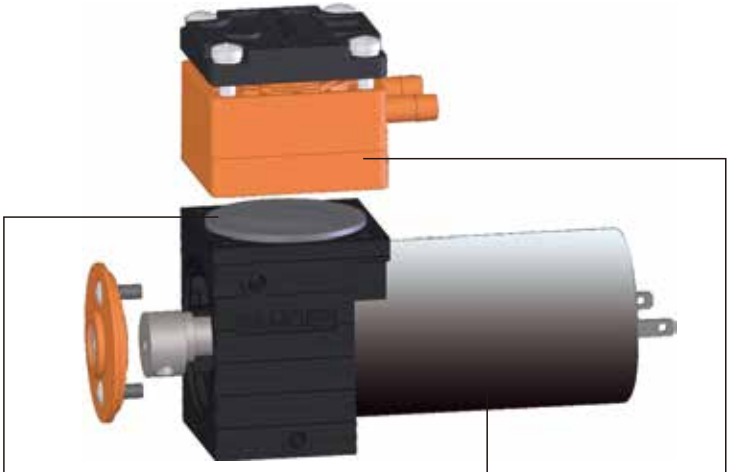
Inkjet
Ink transfer and pipeline cleaning

Laboratory
Liquid packaging and distribution

Aliquot samples
Liquid packaging and bottling

Washer
Used with equipment supporting

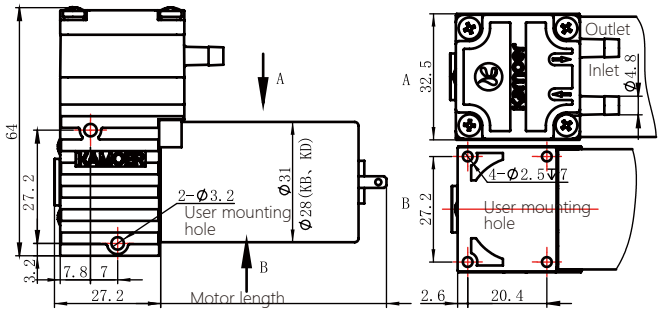
Environmental
Wastewater sampling and transport



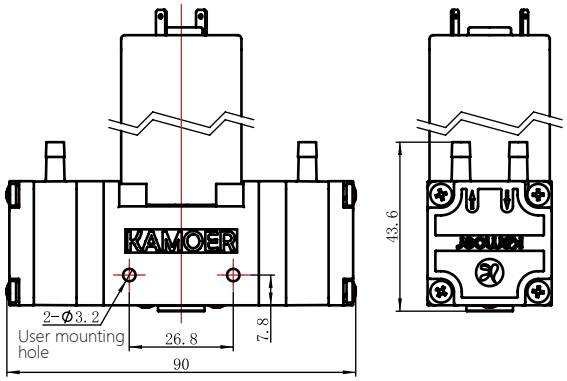
KLP02- E KA 1

The number of pump head is 1

Unit: mm



The number of pump head is 2



Note: When selecting the bottom's installation mode, M3 Cross screw is recommended.

Flow Model options

Model	Volt (V)	Type	Nember	Rated Load Current(A)	Weight (Kg)
KA	24	Brush	1	0.3	0.212
KB	24	Brushless	1	0.26	0.250
KC	12	Brush	1	0.36	0.212
KD	12	Brushless	1	0.49	0.250
KG	24	Brush	2	0.38	0.336
KH	12	Brush	2	0.69	0.336

Pump Nember	Materials	Flow rate (ml/min)	Positive Pressure (bar)	Negative Pressure (bar)
1	EPDM	≥700	0.6	0.4
	Fluoride	≥800		
2	EPDM	≥1400		
	Fluoride	≥1500		

Diaphragm Pump Series -KLP04

Small and power, Strong and durable

- Exquisite workmanship, durable structure
- Small and Strong
- Dry running/ durable/ Chemical stabilization
- Long-life DC brushless motor

Medical
Used with equipment supporting

Transport
Liquid transport and sample analysis

Inkjet
Ink transfer and pipeline cleaning

Laboratory
Liquid packaging and distribution

Washer
Used with equipment supporting

Flow Model options

Diaphragm Pump type	Liquid	
Motor type	DC Brushless motor	
Model	KLP04-320-12	KLP04-320-24
Rated Voltage	12V	24V
Load-Current	250mA	150mA
Flow rate	320±80ml/min	
Self-suction pump head	2m以上	
Maximum pressure	90kpa	
Diaphragm Material	EPDM : good sealing performance ; has good resistance to chemicals resistance, to alcohols, acids, antioxidants, ßavonoids and lipids and so on, chemical stability, resistance is poor ; NBR : the need for oil resistance;	
Noise	50Db以下	
Product weight	40g	
Lifetime	3000h以上	

Performance characteristics

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

KLP180 Series Diaphragm Pump Product Profile

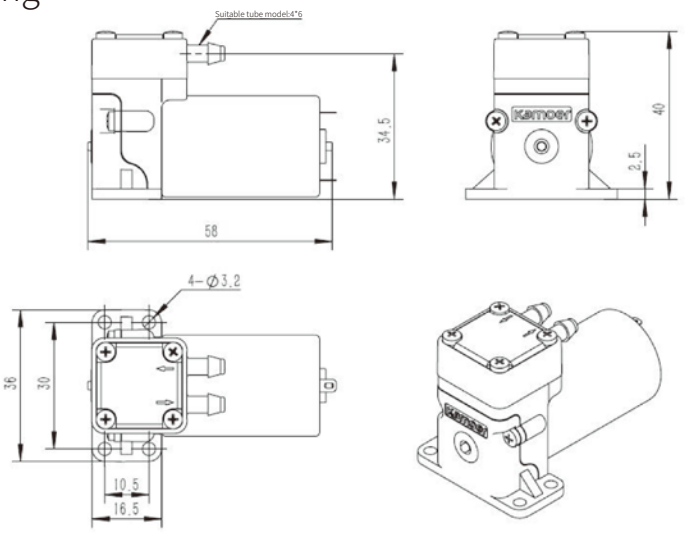
KLP180 series diaphragm pump is designed according to the design principle of positive displacement pump.
It controls the inlet and outlet of the diaphragm. After the power is driven, the transmission mechanism pushes the piston to reciprocate. The hydraulic pusher moves the diaphragm back and forth to do the work to suck in and push out. liquid.
Fluid medium: water, corrosive medium, viscous liquid is not allowed, high temperature liquid is not allowed.
Working environment: temperature 0 °C ~ 40 °C
Relative humidity: <80%

Product performance table

Reference flow ml/min	Liquid pressure (max)	Negative pressure (gas)	Noise	Power	Life expectancy	Diaphragm material
≥160ml/min	0.3Mpa	0.02Mpa	≤58Db	≤6W	Brush 500H/Brushless 5000H	V
≥180ml/min	0.3Mpa	0.02Mpa	≤58Db	≤6W	Brush 500H/Brushless 5000H	E

Note: The flow rate is tested under standard atmospheric pressure, room temperature 25 °C, inlet and outlet without pressure, and the noise is 500mm away from the product, and the silent room is tested.

Dimensional drawing



Diaphragm Pump Series
-ELLP400

Performance characteristics

- ◆Strong and durable structure
- ◆ Small size and great strength
- ◆ dry rotation, durable, chemical stability

APPLICATION AREAS


Experiment


Distribution


Inkjet printer


Supporting medical equipment

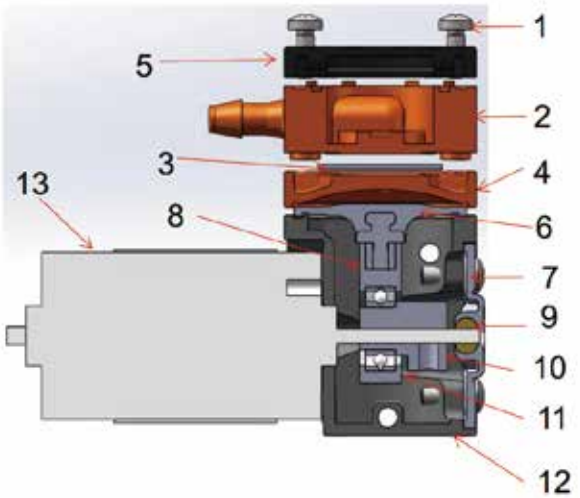

Washing machine


Sewage sampling

Product performance table

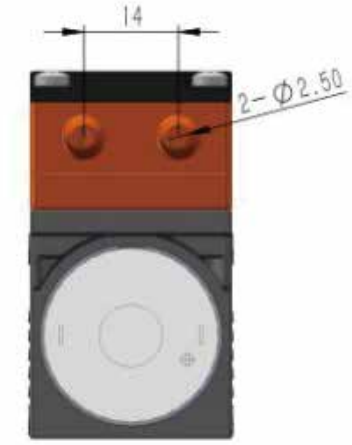
Material number	Voltage (V)	Electric current (A)	Power (W)	Liquid flow ml/min	Positive pressure Mpa	Negative pressure Mpa	Liquid pressure Bar	Weight g	Life expectancy H
CK.20.80.0001	DF/12	0.6	8	≥400	0.05	0.035	0.15	160	500
CK.20.80.0002	DG/24	0.3	8	≥400	0.05	0.035	0.15	160	500

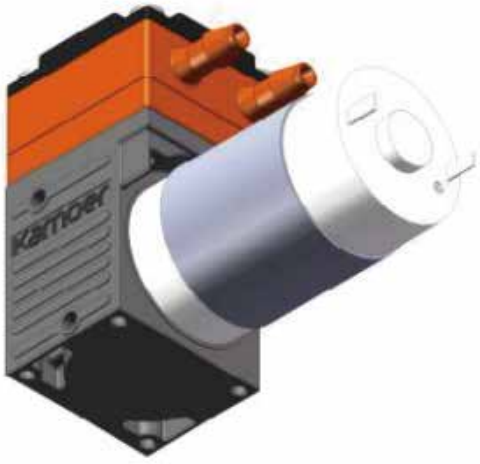
ELLP40 liquid pump structure and material table

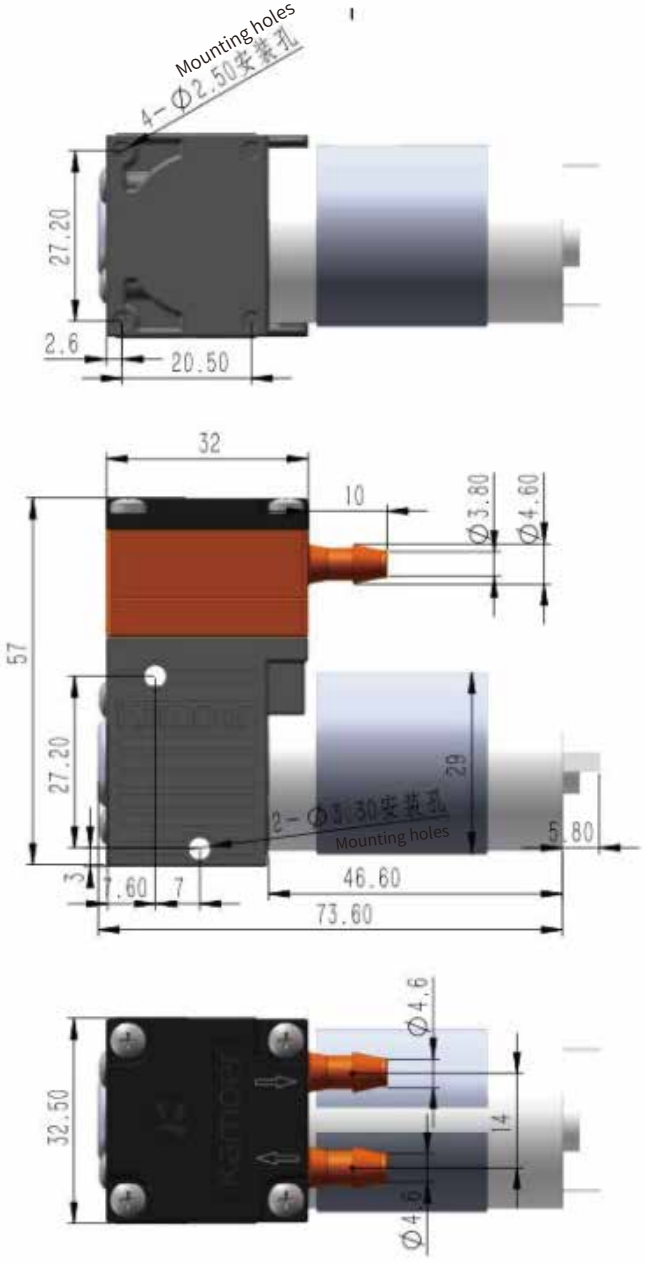


NO	Name	Material
1	Screw	304
2	Upper valve plate	PP
3	Valve plate	EPDM
4	Lower valve plate	PP
5	End cap	Aluminum
6	Diaphragm	EPDM
7	Back cover	PP
8	Transmission rod	PA6
9	Oil bearing	Metal
10	Eccentric wheel	PA6
11	Bearing	Metal
12	Pump body	PA6
13	Motor	Standard Parts

Dimensional drawing







Diaphragm Pump Series
-EDLP600

Performance characteristics

- No oil
- No maintenance required
- Compact design
- Low energy consumption

APPLICATION AREAS

Medical care and health

Cosmetology

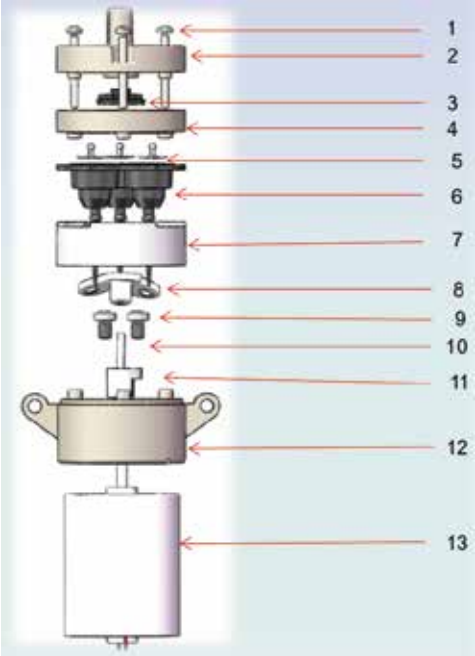
Gas analysis

Physiotherapy

Product performance table

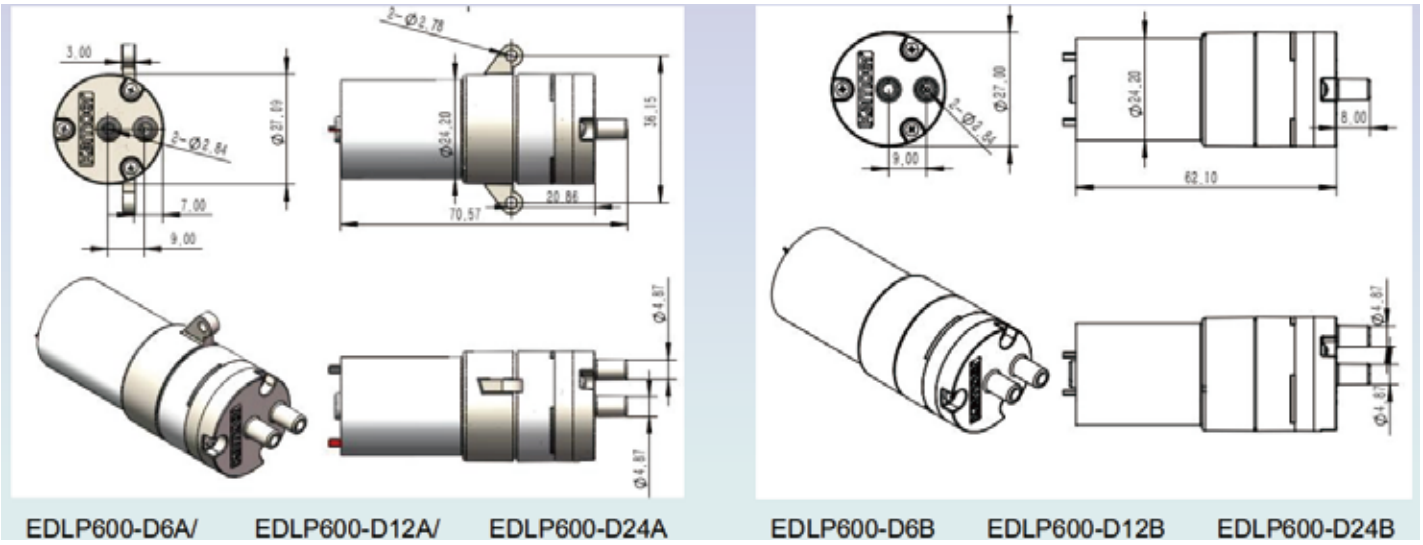
	Voltage (V)	Electric current (A)	Power (W)	Gas flow L/min	Liquid flow ml/min	Positive pressure Mpa	Negative pressure Mpa	Noise m/db	Model	Net weight
CK.20.84.0001	Brush 12	0.3	5	≥1	≥600	≥0.05	≥0.04	≤65	EDLP600-12A	65
CK.20.84.0002	Brush 24	0.15	5	≥1	≥600	≥0.05	≥0.04	≤65	EDLP600-24A	65
CK.20.84.0003	Brush 12	0.3	5	≥1	≥600	≥0.05	≥0.04	≤65	EDLP600-12B	65
CK.20.84.0004	Brush 24	0.15	5	≥1	≥600	≥0.05	≥0.04	≤65	EDLP600-24B	65
CK.20.84.0005	Brush 6	0.6	5	≥1	≥600	≥0.05	≥0.04	≤65	EDLP600-06A	65
CK.20.84.0006	Brush 6	0.6	5	≥1	≥600	≥0.05	≥0.04	≤65	EDLP600-06B	65

EDLP600 Gas pump liquid pump structure and material table



NO.	Name	Material
1	Screw	Metal
2	Upper valve plate	ABS
3	Valve plate	EPDM
4	Diaphragm plate	ABS
5	Umbrella nail	Rubber
6	Leather bowl	Rubber
7	Lower valve plate	POM
8	Liquid wheel	Rubber
9	Screw	Metal
10	Needle roller	304
11	Eccentric wheel	ABS
12	Partial pump body	ABS
13	Motor	Standard Parts

EDLP600-A/B Type gas pump liquid pump size installation diagram



Diaphragm Pump Series
-KLP40

Diaphragm pump liquid pump

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

The main parameters

Code	Colour	Image	Voltage	Power	Type of protection	Maximum working pressure	Water flow	Electric current	Suction	Lift height
KLP40-08T	Transparent		12V	60W	Pressure regulating switch	5bar (75psi) 4~6kg	4l/min	3.5A	1.5M	50M
					Reflux	5bar (75psi) 4~6kg	4l/min	3.5A	1.5M	50M
KLP40-00Y	Yellow		12V	60W	Pressure regulating switch	5bar (75psi) 4~6kg	4l/min	3.5A	1.5M	50M
					Reflux	5bar (75psi) 4~6kg	4l/min	3.5A	1.5M	50M

Dimensional drawing

Parameter details

KLP40-08T

KLP40-8T Wiring diagram

KLP40-00Y

KLP40-00Y Wiring diagram

Long life, High negative pressure

KVP8 Vacuum Pump

Micro diaphragm gas pumps from kamoer are based on a simple principle - an elastic diaphragm, Fixed on its edge, moves up and down its central point by means of an eccentric. In this way the gas is transferred using automatic valves. Fixed on its edge, moves up and down its central point by means of an eccentric. In this way the gas is transferred using automatic valves.

Features

Small and Strong
Series negative pressure < -0.082Mpa
Paralleling negative pressure < -0.06Mpa
Dry running, durableand maintenance free
Brushless and brush motor for selection

Flow rate is faster than 480L/H
Gas pressure >0.1Mpa
Extreme chemical stability

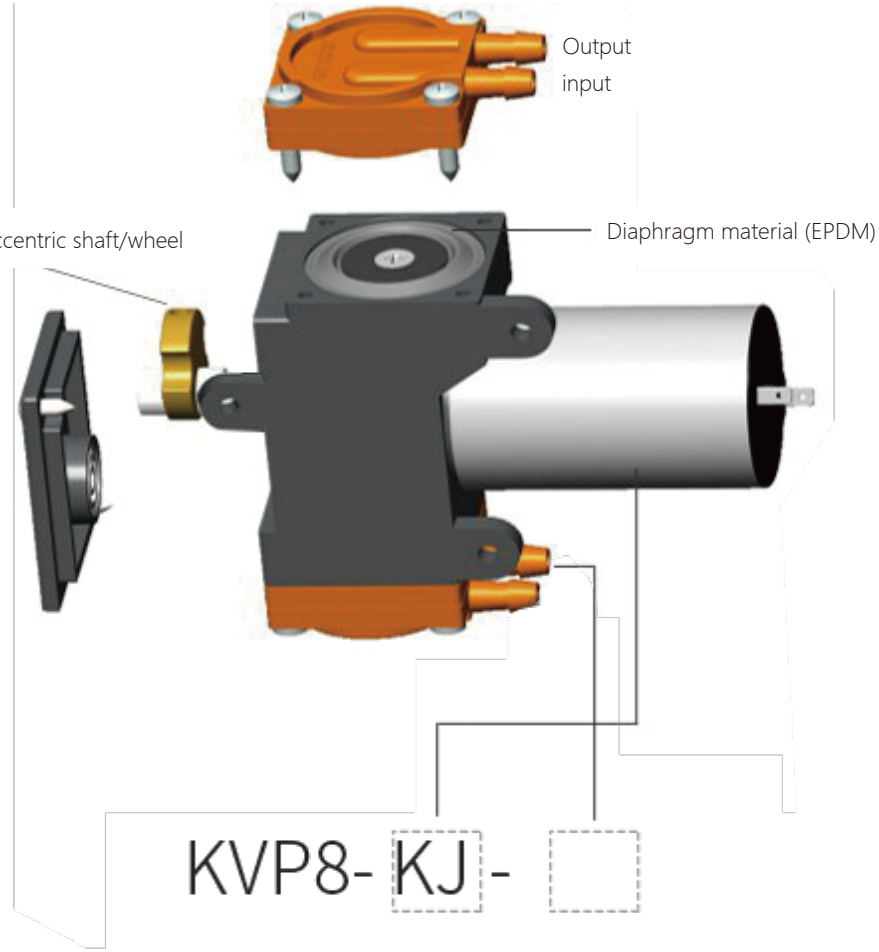
Applications

Gasometry

Physiotherapy

Placement equipment

Cosmetology



Brushless (In parallel)

Multi-wire Speed
Regulation (In series)

Brush (In series)

KVP8 -KJ - ☐

1. Motor selection

KJ: 24V Brush DC motor(58mm)
KB: 24V Brushless DC motor(67mm)
KBC: 24V Brushless speed motor(67mm)
Brush motor lifetime: 2000h (theoretical value)
*SpeciÞc depending on usage

KK: 12V Brush DC motor(58mm)
KD: 12V Brushless DC motor(67mm)
KDC: 12V Brushless speed motor(67mm)
Brushless motor lifetime: 8000h(theoretical value)

KVP8 -KJ - ☐

2. The type of tube connection

Currently we offer two types of tube connection
1) “empty” means parallel connection 2) “s” means series connection

3. Diaphragm material

Currently we offer the following diaphragm material
EPDM- Decent resistance and tolerance toward alcohol, acid, alkali, oxidant, ketone and grease, ect.
Poor resistance towad oil.

4. Performance chart

Code	Flow rate (L/H)	Positive pressure (Mpa)	Negative pressure (Mpa)
KJ、KK、KB、KD(in parallel)	> 480	> 0.1	< -0.06
KBC、KDC(in parallel)	60~480		
KJ、KK(in series)	> 320	> 0.12	< -0.082
KBC、KDC(in series)	60~320		
KD、KB(in series)	> 400		

Code	Volt (V)	No-load current average (A)	Rated current (A)	Weight (G)
KJ	24	0.20	> 0.5	238
KK	12	0.42	> 1.2	240
KB	24	0.32	> 0.6	277
KD	12	0.55	> 1.5	280
KBC	24	0.4	> 0.6	280
KDC	12	0.8	> 1.5	280

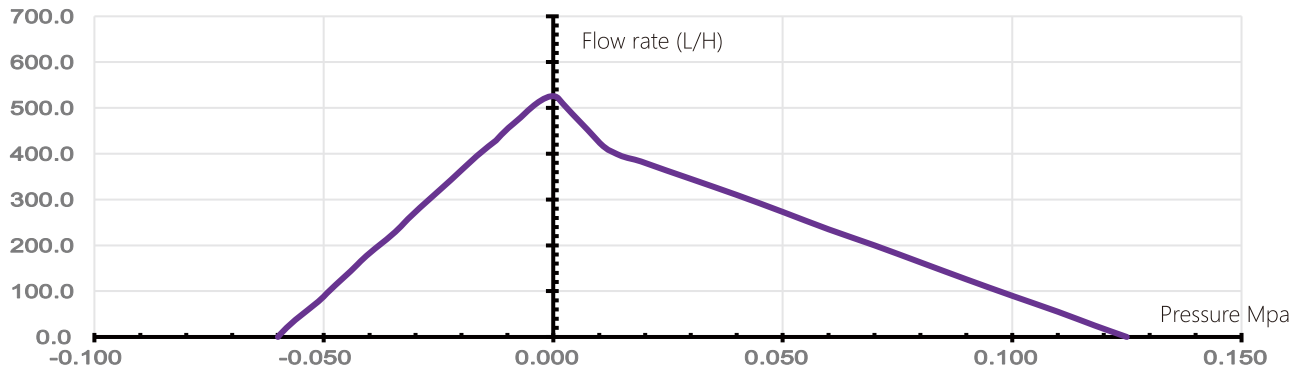
Note: 1. No load current is the current when no gas transportation.
2.Rated current is approximately the current value when gas transportation of the input and output under the atmospheric pressure. During actual use, with the gas input, the output pressure increases,the actual current values also increases accordingly.

Working condition

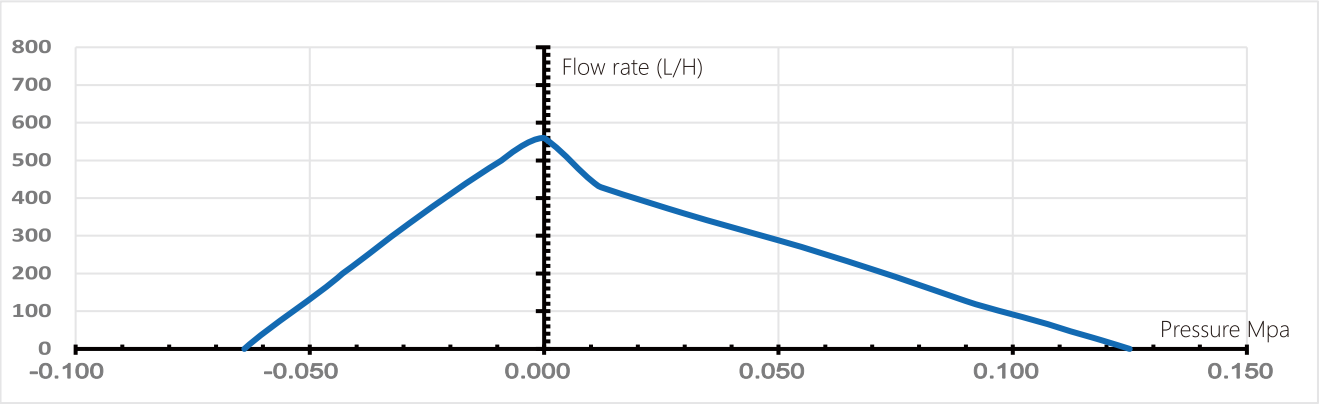
Environment temperature 0 ~ 40℃
Relative humidity < 80%

5. Flow rate curve

KJ、KK Graph (In parallel)

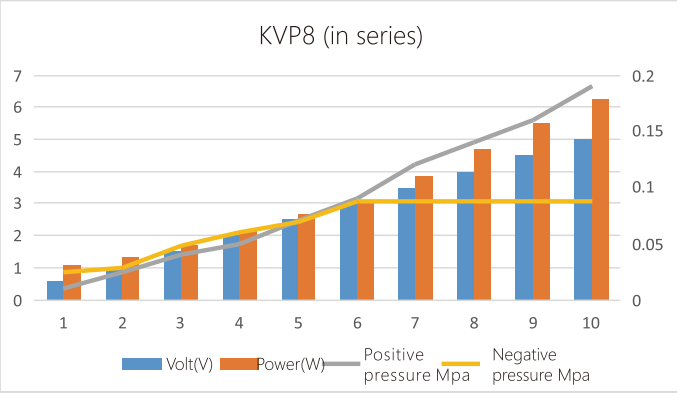


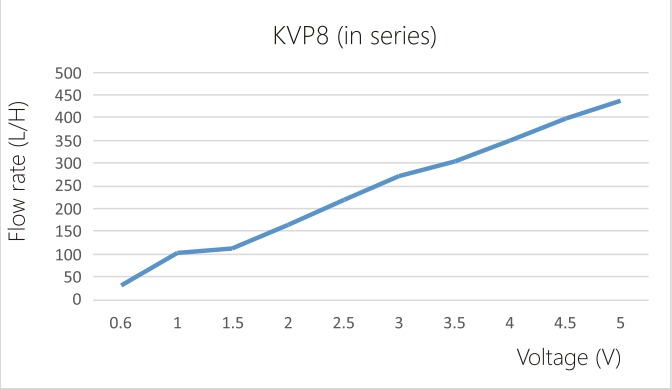
KB、KD Graph (In parallel)



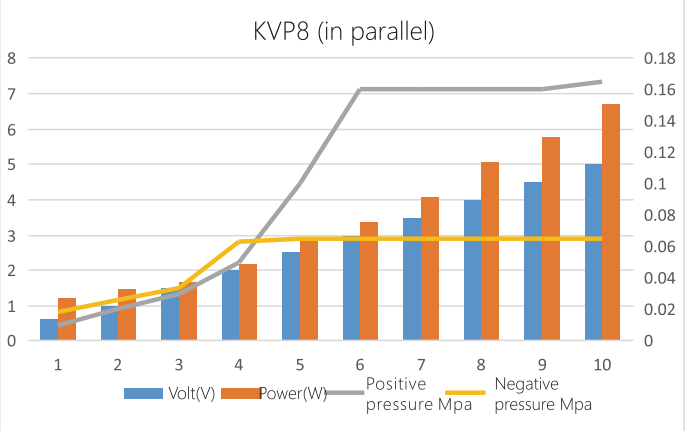
*Flow rate is closely linked with tubing connector and tubing ID thickness. In order to reduce the Flow rate loss.
Recommended Kamoer® series tubing connetor

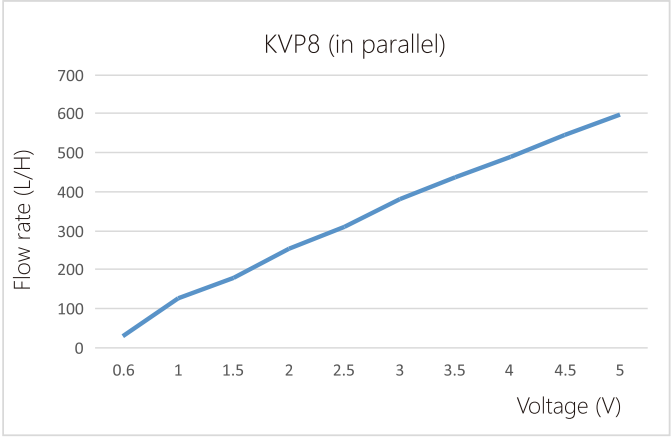
KBC、KDC Graph (In series)





KBC、KDC Graph (In parallel)

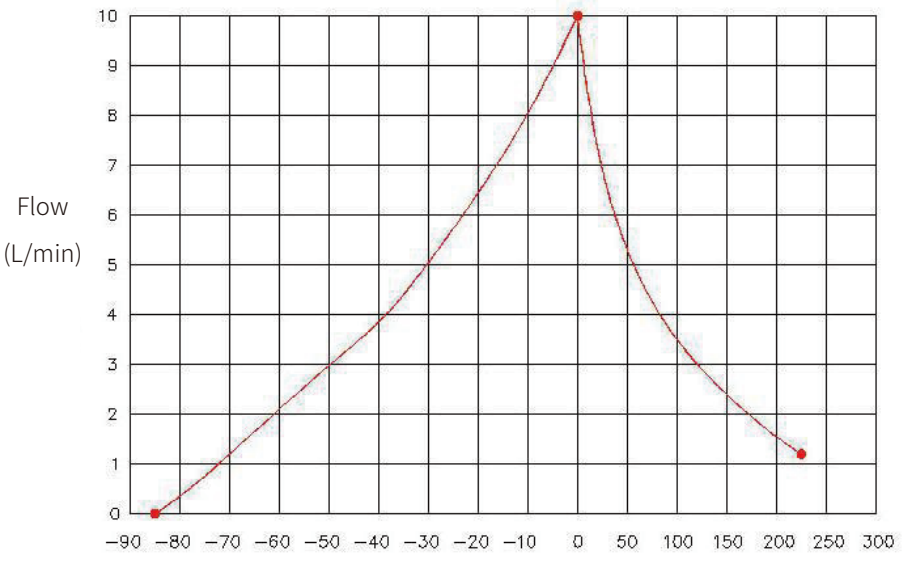


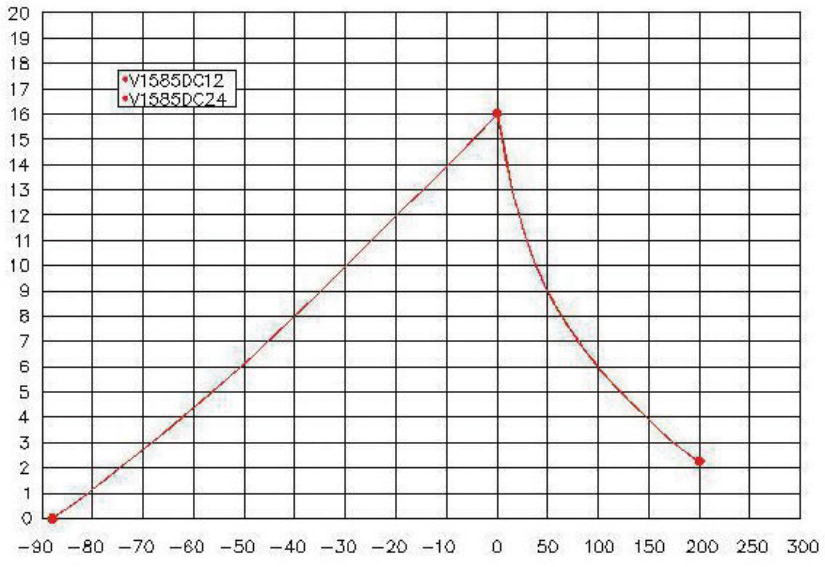


Performance parameter table

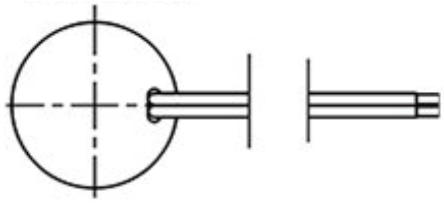
Code	Flow rate (L/min)	Positive pressure (Mpa)	Negative pressure (Mpa)	Power (W)	Noise (dB)
KJ、KK、KL、KM Single head	10L/min	≥0.10	≤-0.065	7	≤74
KJ、KK、 Double parallel circuit	13L/min	≥0.15	≤-0.075	12.5	≤78
KL、KM、Double-headed series circuit	10L/min	≥0.15	≤-0.082	12.5	≤78

Flow and pressure curve





2-Wire Built-in drive motor



1-UL1332 Red AWG20 Vcc(12V/24V)
2-UL1332 Black AWG20 GND

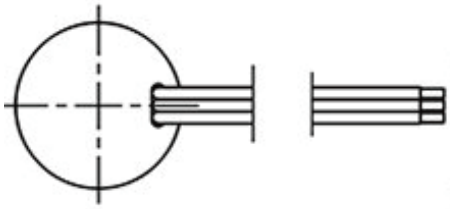
Description:

Red Line: 12V or 24V
Black line: GND

Optional Program:

1. Open-loop: The most high-speed operation
2. Closed-loop: fixed speed (such as conventional closed-loop 3500RPM)

3-Wire Built-in drive motor



1-UL1332 Red AWG20 Vcc(12V/24V)
2-UL1332 Black AWG20 GND
3-UL1332 Yellow AWG24 SP(0-5VSpeed control)

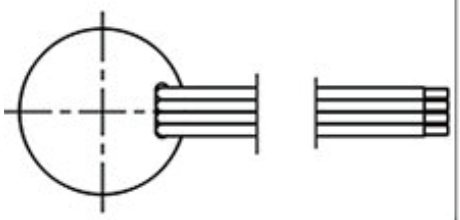
Description:

Red Line: 12V or 24V
Black line: GND
Yellow Line: Analog voltage 0-5V or 5V, 10-30KPWM, Duty 0%-100%

Optional Program:

1. Open loop: 0V or Duty cycle 0% represents the lowest speed
2. Closed loop: 0V or Duty cycle 0% represents the lowest speed
3. Open-loop: 0V or Duty cycle 0% represents the highest speed
4. Closed loop: 0V or Duty cycle 0% represents the highest speed

4-Wire Built-in drive motor



1-UL1332 Red AWG20 Vcc(12V/24V)
2-UL1332 Black AWG20 GND
3-UL1332 Yellow AWG24 SP(0-5VSpeed control)
4-UL1332 Green AWG24 FG(Speed Feedback)

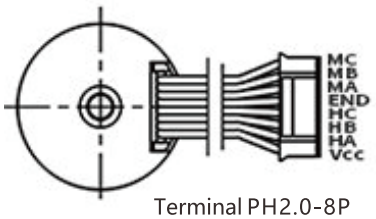
Description:

Red Line: 12V or 24V
Black line: GND
Yellow Line: Analog voltage 0-5V or 5V, 10-30KPWM, Duty 0%-100%
Green Line: Speed feedback, 1 pulses/rpm

Optional Program:

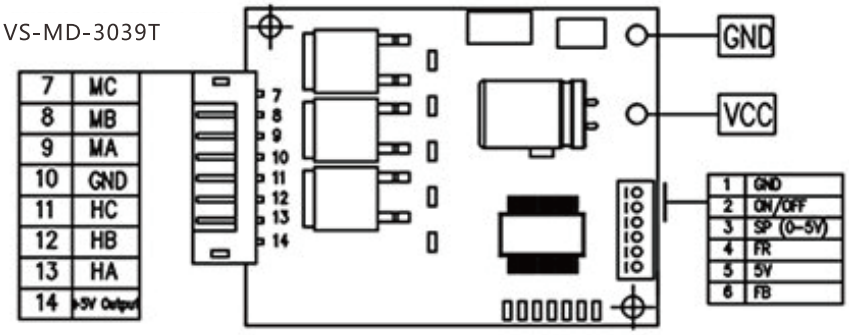
1. Open loop: 0V or Duty cycle 0% represents the lowest speed
2. Closed loop: 0V or Duty cycle 0% represents the lowest speed
3. Open-loop: 0V or Duty cycle 0% represents the highest speed
4. Closed loop: 0V or Duty cycle 0% represents the highest speed

External Drive motor



Terminal PH2.0-8P

VS-MD-3039T



Description: Default welding potentiometer, power transfer (through potentiometer speed control)

Customizable requirements: ON switch (effective to ground)
SP 0-5V or 5V, 10-30K PWM speed regulation
FR Turn forward and backward
FB Speed Feedback

Long life, High negative pressure

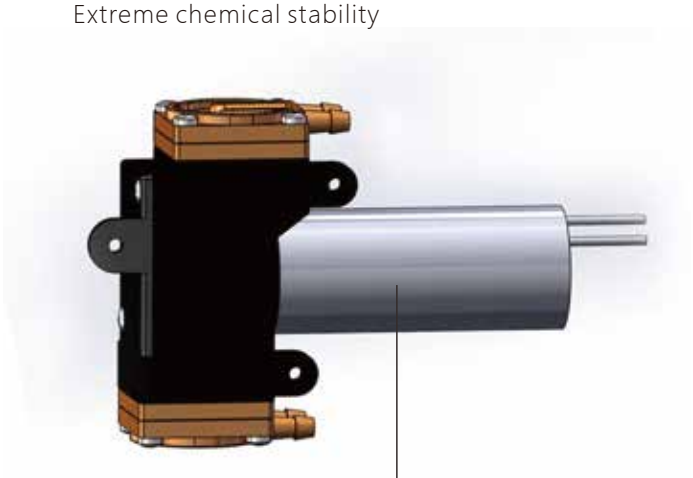
KVP8 Plus Vacuum Pump

Micro diaphragm gas pumps from kamoer are based on a simple principle - an elastic diaphragm,
Fixed on its edge, moves up and down its central point by means of an eccentric. In this way the gas is transferred using automatic valves. Fixed on its edge, moves up and down its central point by means of an eccentric. In this way the gas is transferred using automatic valves.

Features

Small and Strong
Series negative pressure < -0.09Mpa
Paralleling negative pressure < -0.07Mpa
Dry running, durableand maintenance free
Brushless and brush motor for selection

Flow rate is faster than 660L/H
Gas pressure >0.1Mpa
Extreme chemical stability



KVP8 PLUS- KJ - S

KVP300 Vacuum Pump

KVP300 micro diaphragm pump is designed according to the principle of volumetric form. It is controling the import and export diaphragm, forming power drive after drive mechanism reciprocating motion of the piston, the pressure pushing the diaphragm back and forth encouraging work to gas inhalation and ruled out.

Features

Oiless
Free maintenance
Compact design
Low energy consumption
Gas Flow rate≥6L/min
Inlet side negative pressure≤0.05Mpa
Outlet positive pressure≥0.1Mpa

KVP300-KK

1. Motor selection

KVP300-KK-

5 kinds of DC motor for selection, code as follows:

KJ: 24V Brush DC motor(58mm)
KK: 12V Brush DC motor(58mm)
KB: 24V Brushless DC motor(67mm)
KD: 12V Brushless DC motor(67mm)
KBC: 24V Brushless speed motor(67mm)
KDC: 12V Brushless speed motor(67mm)
Brush motor lifetime: 2000h (theoretical value)
Brushless motor lifetime: 6000h(theoretical value)
*Specipc depending on usage

2. Diaphragm material

Currently we offer the following diaphragm material
EPDM- Decent resistance and tolerance toward alcohol, acid, alkali, oxidant, ketone and grease, ect.
Poor resistance toward oil.

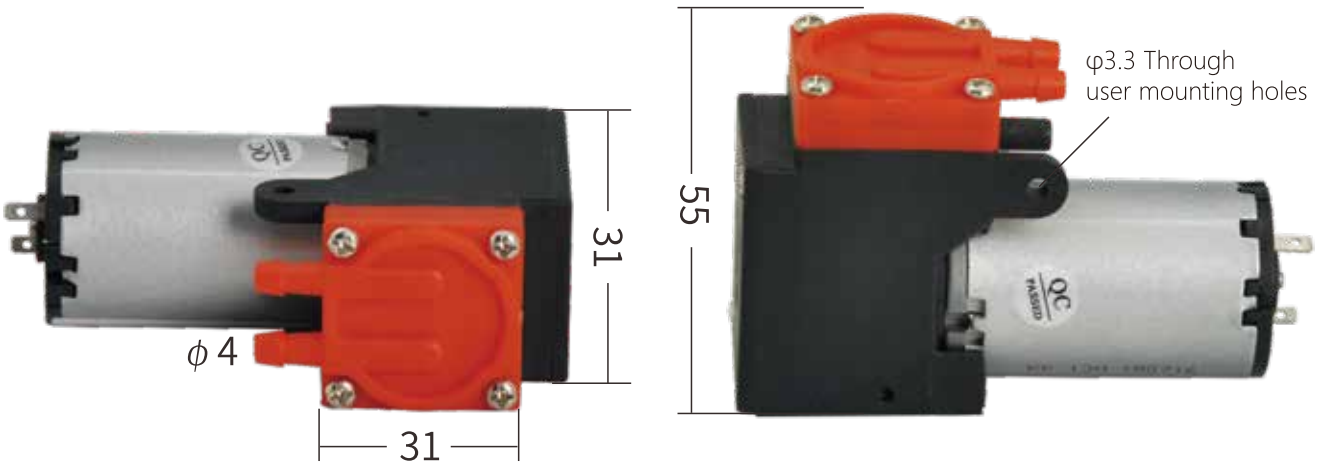
Performance chart

Code	Flow rate (L/H)	Power (W)	Positive pressure (Mpa)	Negative pressure (Mpa)	Noise (dB)
KJ、KK、KB、KD	≥360	5W/8W	⩾0.1	≤-0.05	< 70
KDC、KBC	60~360				

Code	Volt (V)	No-load current average (A)	Rated current (A)	Weight (G)
KJ	24	0.20	> 0.5	238
KK	12	0.42	> 1.2	240
KB	24	0.32	> 0.6	277
KD	12	0.55	> 1.5	280
KBC	24	0.4	> 0.6	280
KDC	12	0.8	> 1.5	280

4. Installation dimension

Currently we provide user installation methods: Side mounting



Long life, High negative pressure
KVP04 Vacuum Pump

Small and Strong
Long-life DC brushless motor
Excellent leakproofness, Low noise
Dry running/ durable/ maintenance-free
Diaphragm material: EPDM, highly resistant to acid, alkali, poor oil resistance
Able to choose the adjustable PWM, wide range Flow to control
12V, 24V Voltage for choosing

APPLICATION AREAS

Medical
Used with equipment supporting

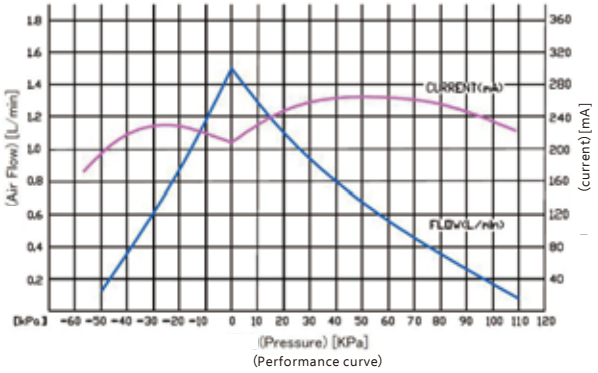
Sampling
Gas transfer and sample analysis

Environmental
Sampling and transport

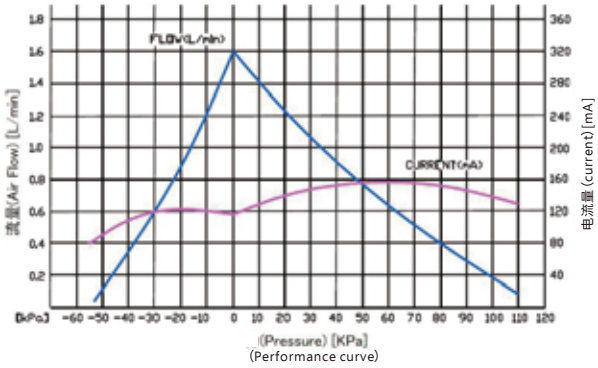
Gas Transfer
TransÞll and distribution

Flow Model Options

(A) KVP04-1.1-12 Performance characteristic curve as shown below

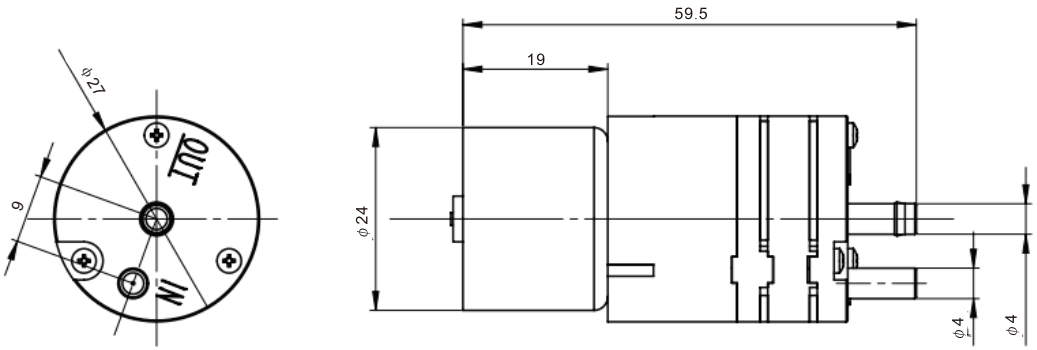


(B) KVP04-1.1-24Performance characteristic curve as shown below



Flow Model Options

Unit: mm



Flow Model Options

Type	Gas Pump	
Motor type	DC Brushless Motor	
Model	KVP04-1.1-12	KVP04-1.1-24
PWM control	Adjustable	Adjustable
Rated Voltage	12V	24V
Load-Current	320mA	170mA
Flow rate	≥1.1L/min	
Maximum pressure	90kpa	
Vacuum	-40kpa	
Diaphragm Material	EPDM: good sealing performance ; chemical stability	
Noise	≤50db	
Product weight	40g	
Lifetime	≥3000h	

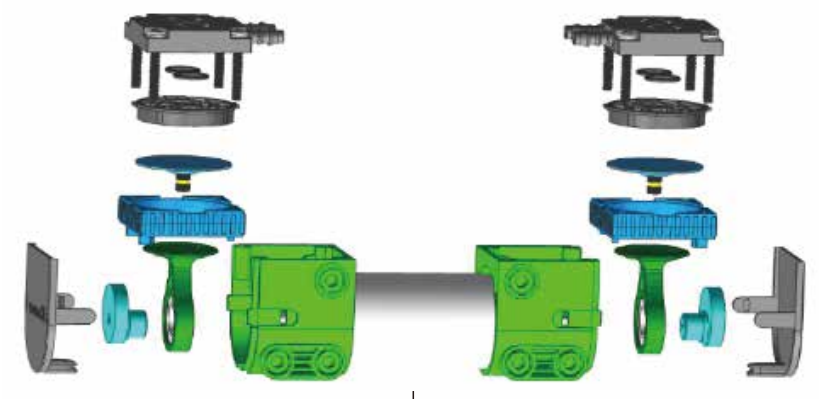
High negative pressure, High Flow, long life

APPLICATION AREAS

Analytical instrument

Medical instrument

Beauty equipment



KVP15-KL- □ □

1.Motor Type

Currentlly we provide 4 types motors for selection

KL: 24V brushless DC motor

KM: 12V brushless DC motor

KJ: 24V brush DC motor (Single head)

KK: 12V brush DC motor (Single head)

KVP15-KL- □ □

2.Single and double head selection

1: Single head

2: Double head

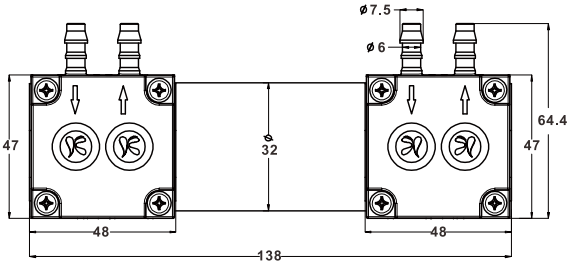
KVP15-KL- □ □

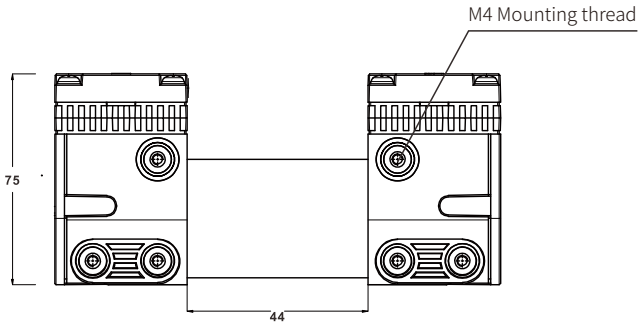
3.Pump diaphragm selection

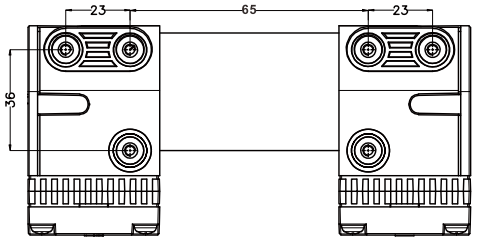
—、1: EPDM 2: PTFE

KVP15-KL- □ □

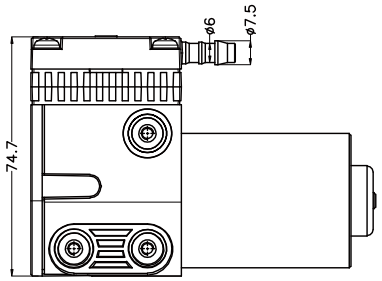
Double head size installation diagram

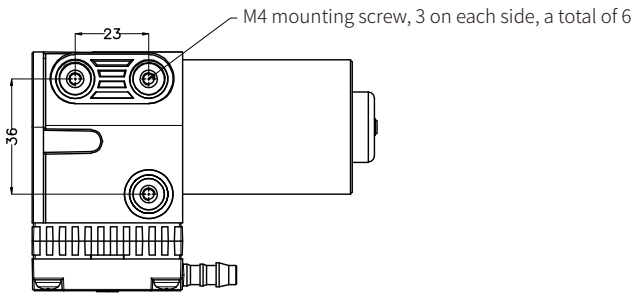


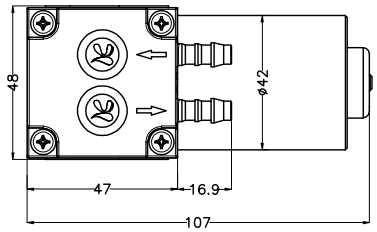




Single head size installation diagram







Performance characteristics

- Use external rotor brushless motor, long life (5000 hours)
- Large flow, high negative pressure
- dry, durable, maintenance free
- Good stability
- Flexible installation in the direction of gas outlet (consulting staff)

Introduction to KZP positive pressure gas pump

Working principle - it is designed according to the principle of positive displacement pump. It mainly controls the inlet and the mouth of the diaphragm. After the power is driven, the drive drives several pistons to reciprocate, and the diaphragm pushes the diaphragm back and forth to inhale. Exhaust gas.
Motor selection - a variety of motors are available; voltage optional: 12V / 24V; type optional: brush / brushless.
Diaphragm Note - Our company uses a high-fluorine diaphragm and the diaphragm is made of PTFE, which is resistant to conventional corrosive gases.
Accessories Selection - A variety of connecting pipes are available for different fluid transfer and docking with customer products.
Working environment - ambient temperature 0-40 degrees Celsius, relative humidity <80%, it is recommended not to work under positive pressure >0.2Mpa for a long time, otherwise it will greatly shorten the product life.
Precautions - Product temperature ⩽ 85 ° is a normal phenomenon, suitable for tube type: 4 × 6, please add a filter device at the inlet end to prevent foreign matter from entering the cavity.

APPLICATION AREAS


Medical care and health


Cosmetology

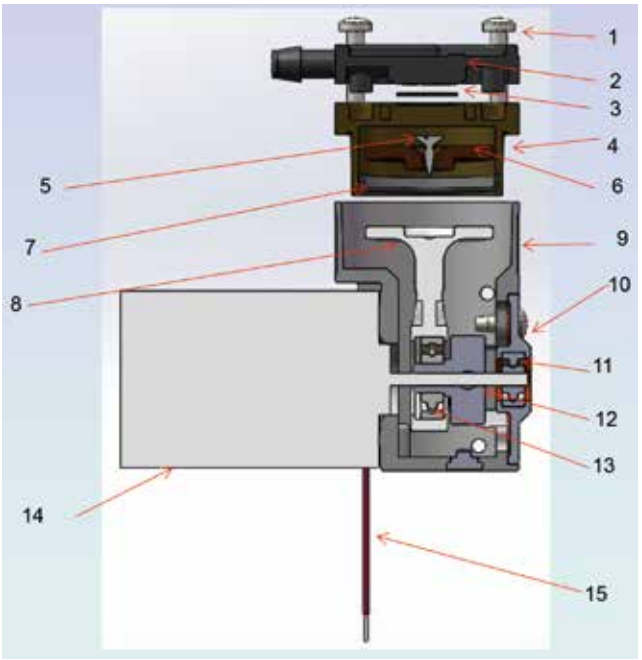

Gas analysis


Physiotherapy

KZP positive pressure air pump performance parameter table

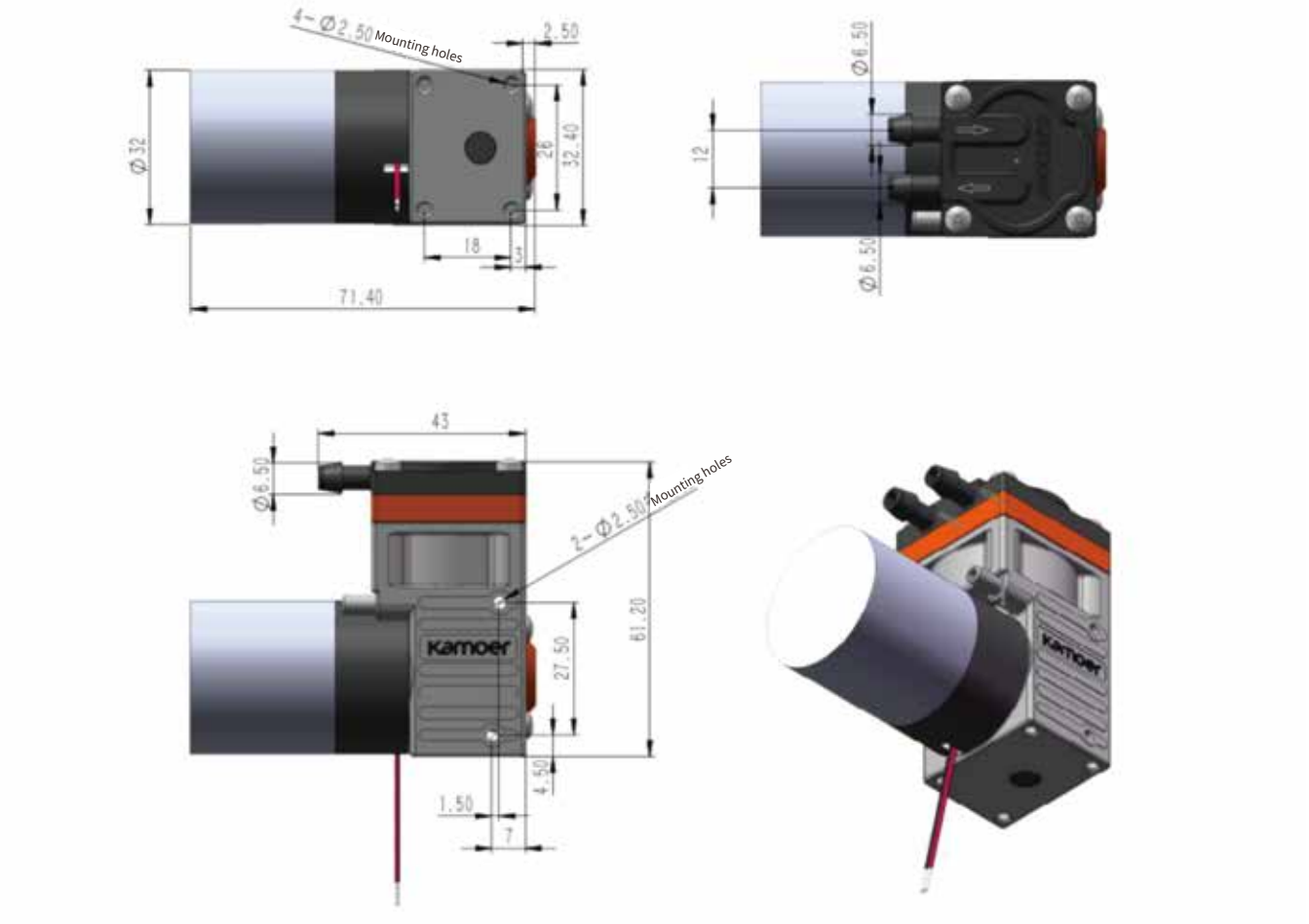
Code	Voltage (V)	Electric current (A)	Power (W)	Gas flow L/min	Positive pressure Mpa	Negative pressure Mpa	Noise m/db	Life expectancy H	Model	Net weight
CK.20.80.0005	Outer rotor 12	1	12	420	≥0.2	0.05	≤78	5000	KZP-PE	160
CK.20.81.0006	Outer rotor 24	0.5	12	420	≥0.2	0.05	≤78	5000	KZP-PF	160

KZP Positive pressure air pump structure and material table



NO	Name
1	Screw
2	Upper valve plate
3	Valve plate
4	Lower valve plate
5	Screw
6	Low voltage board
7	Diaphragm
8	Transmission rod
9	Pump body
10	Back cover
11	Bearing
12	Eccentric wheel
13	Bearing
14	Outer rotor brushless motor
15	Motor outlet

Outer rotor KZP positive pressure air pump size installation diagram



NEW New product
-EPST

Performance characteristics

- Suitable for viscous, non-viscous liquid transfer
- Compact structure and high maintenance
- Exquisite appearance, high cost performance
- A variety of pump tube materials are available

Introduction to EPST series peristaltic pump

Motor Selection - EPST Series Peristaltic Pump is a 42-stepper motor driven peristaltic pump with high flow and high cost performance.
Pump tube selection - The pump tube is imported PharMed@BPT (B) and silicone tube (S), which can be used for different transport liquid requirements.

Installation method - the installation method is fixed by means of plate (see the attached figure for details).

Transmission mode - The transmission mode is that the motor directly drives the pump head output.

The main material - the rotating part is made of PA plastic, the outer casing and the motor base are made of nylon plastic.

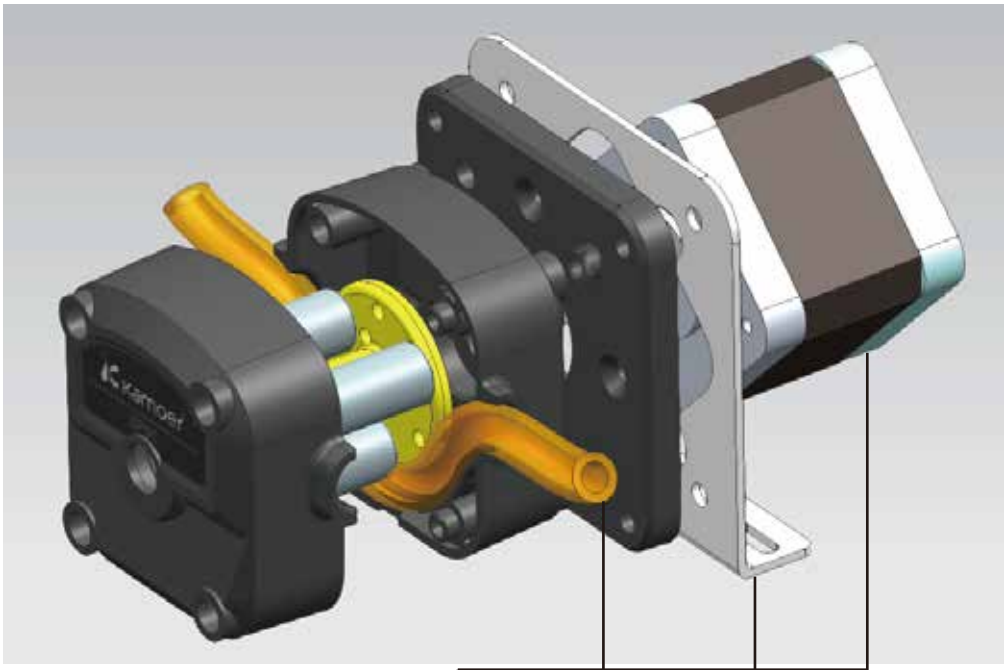
Performance parameter table

Pump tube code		B25	S25
ID*OD(mm)		4.8x8	5x8.2
Pump tube material		BPT	S
Flow rate	Motor (ST) 24V 1.5A	540ml（500rpm）	620ml（500rpm）

Note: The above flow parameters are measured by pure water without pressure under the standard atmospheric pressure of 20 °C. Actually, 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 used as a reference, the current value is The thickest tube type reference current is actually affected by the head, viscosity, and length of the inlet and outlet. When controlling the stepping motor, it needs to do the acceleration and deceleration directly, and the risk of losing the step directly reaches the maximum speed!

Pump pipe joint correspondence table

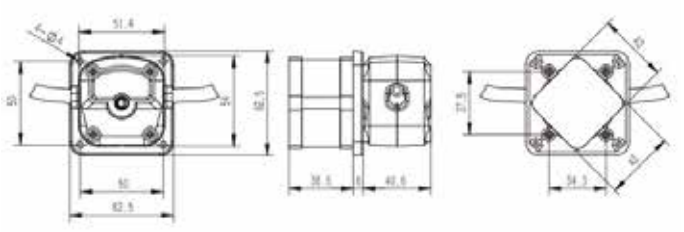
No.	Pump pipe joint specifications	Suitable pump tube diameter
1	3/16	4.5≤φ≤5.5



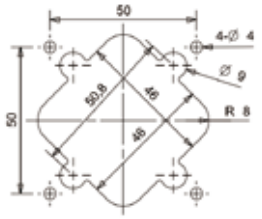
EPST-ST B25 L

Motor code | Pump tube selection | Sheet metal bracket

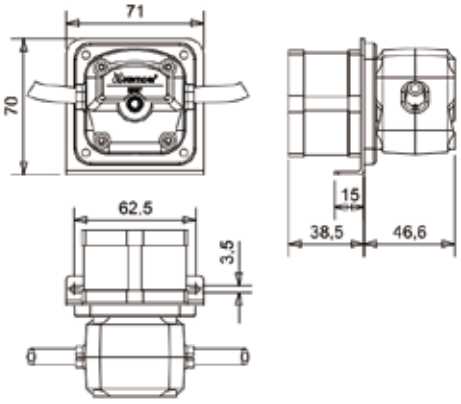
Dimensional drawing



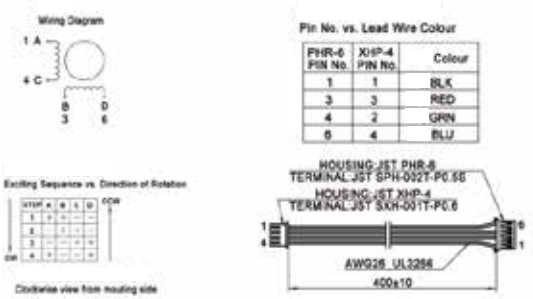
Recommended opening size



Sheet metal bracket dimensions



Stepper motor wiring diagram



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

NEW New product
-LAB Adjustment pump

Performance characteristics

- No oil
- No maintenance required
- Compact design
- Low energy consumption

APPLICATION AREAS

Medical care and health

Cosmetology

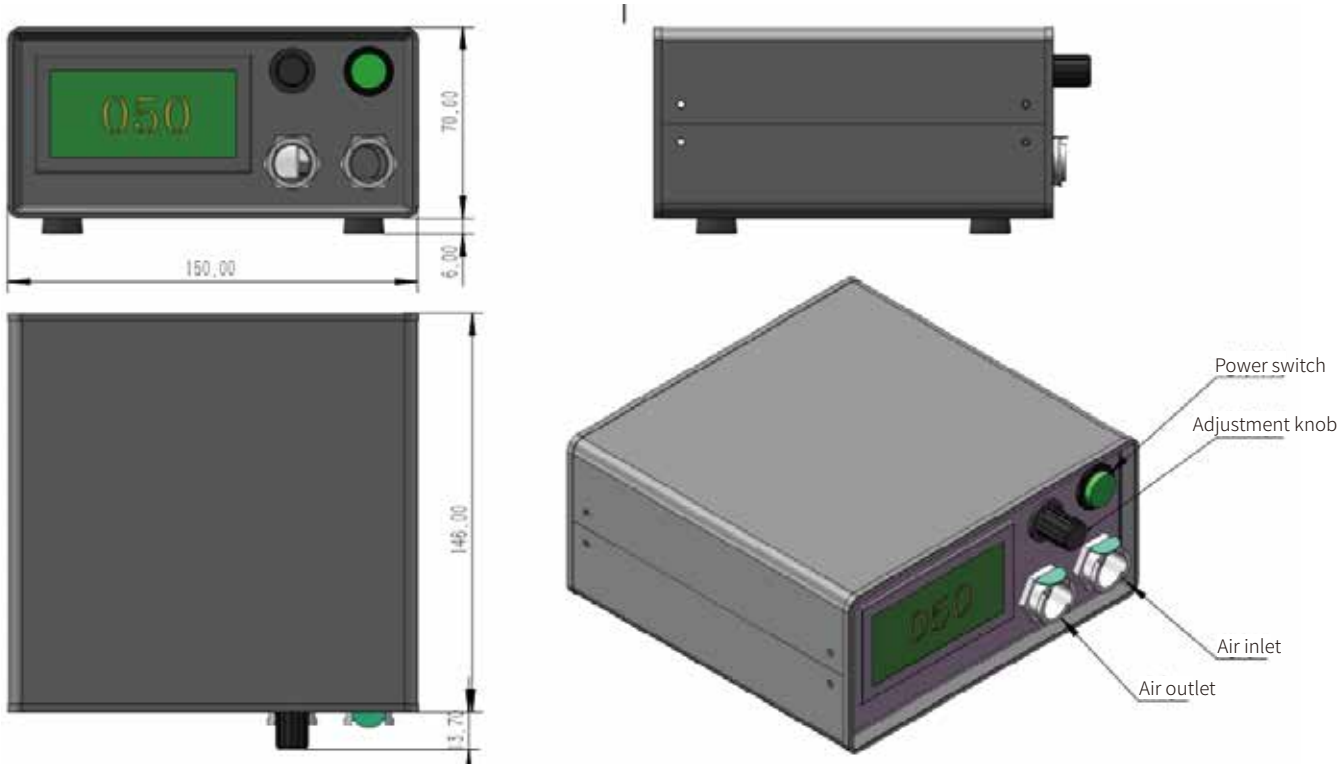
Gas analysis

Physiotherapy

Performance parameter table

BOM No	Voltage (V)	Electric current (A)	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	4-12	/	≥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

Dimensional drawing



NEW New product
-HLVP6

Performance characteristics

- Professional design, sturdy and beautiful
- Large cavity, sound absorbing material, high flow, low noise
- EPDM diaphragm, valve plate special process treatment, life expectancy is greatly extended
- Brushless motor, long life and stable performance.
- Rubber foot, effective vibration reduction

APPLICATION AREAS


Medical health


Beauty regimen


Environmental Engineering


Automated industry

HLVP6 Series diaphragm pump product introduction

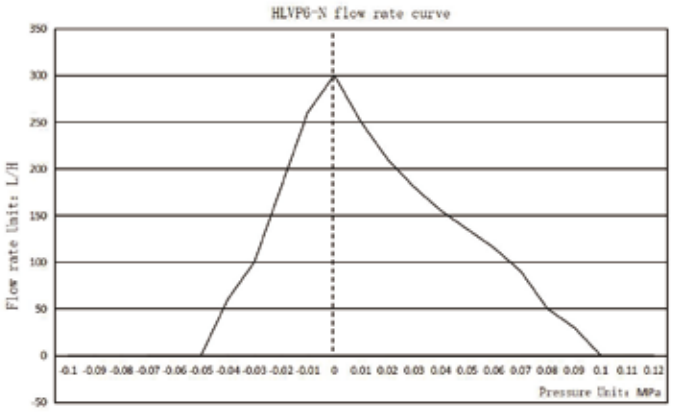
The HLVP6 series diaphragm pump is designed according to the design principle of the positive displacement pump. It is mainly suitable for occasions with high noise and vibration requirements (medical instruments, beauty regimen, laboratory gas analysis equipment, etc.). The core features of the product are low noise, low vibration and long life.
This series of products has a large compression chamber, enabling the product to achieve high flow rates with low compression. Thanks to the two core noise reduction technologies (1. In-pump noise reduction technology; 2. Rubber damping technology), coupled with precise balance design, the pump's working noise is effectively reduced.
Fluid medium: air, general gas; Working environment: temperature range: 0 °C ~ 40 °C; relative humidity: <80%;
Product weight: 230g

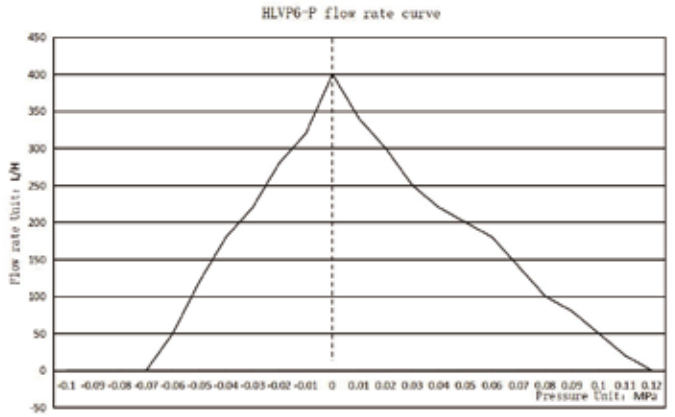
Performance parameter table

Model	Flow L/H	Negative pressure Mpa	Positive pressure Mpa	Noise db	Power W	Life expectancy H
HLVP6-NB12	300	0.05	0.08	58	5	5000
HLVP6-NB24	300	0.05	0.08	58	5	5000
HLVP6-PB12	400	0.06	0.10	62	8	5000
HLVP6-PB24	400	0.06	0.10	62	8	5000

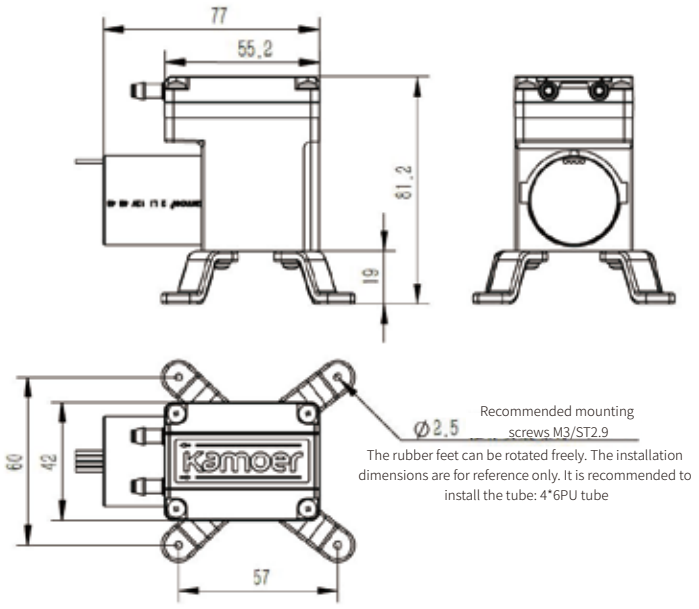
Note: The flow rate is under standard atmospheric pressure, room temperature is 25 °C, no pressure is applied to the inlet and outlet, and the test is carried out under straight discharge. The noise is 500mm away from the product. The silent indoor test is currently available. No other information is available. Please inform us. Advisory Service.
Note: The flow curve test environment, (standard atmospheric pressure, room temperature 25 ° C), due to practical differences, is for reference only.

Curve flow rate table





Dimensional drawing



Red	Yellow	Blue	Black
Vcc	FG	PWM	GND
Positive electrode	Speed feedback	Adjustment speed	Negative electrode

Two-wire connection (pump full speed operation): the positive line is connected to the red line and the blue line, and the negative line is connected to the black line.

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℃~200℃。 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℃~132℃。 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 certiÞcation.
		Applicable Temperature: -60℃~135℃。 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℃~60℃
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℃~250℃。 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	

Pump tube number	ID (mm)	OD (mm)	Wall thickness (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	

Pump 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	

Saint-gobain Norprene tube

Colour	Pump 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 Gas pump tube

Colour	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, Green, Blue, Yellow	PVC	3.0	5.0		

Accessories

Saint-gobain PharMed BPT tube

Pump 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	

American 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	

PU tube

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

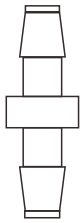
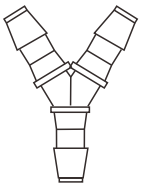
Tygon tube

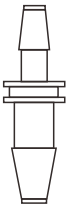
Colour	ID (mm)	OD (mm)	Wall thickness (mm)	Cross section (mm)
Transparent	3.2	6.4	1.6	
Yellow	2	4	1	

FEP Hard 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	

Connector

Straight-through pump pipe joint	ID (mm)		Suitable hose specifications
	(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		Suitable hose specifications 1	Suitable hose specifications 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		

Prevent drifting joints

Model	K01	K02
Products real shot		
Temperature range	5~60℃	150℃
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	

Closed structure, the liquid cann't touch the pump

Direct-acting solenoid valve, compact structure with little gap, easily washed.
Media only comes to contact with valve body, is sealed with FFKM.Valve body is seperated from coil, low heattransfer.

Features

- Non-dead zone offered according to customers' need
- Compact structure
- The liquid is seperated from the structure itself
- Valve material: PEEK (polyether-ether-ketone), kynar,
- ethylene-tetraßuoroethylene copolymer (ETFE)

Medical technology

Biological technology

Solvents, disinfectants

Acid, alkali and liquid oxidation

Rated Voltage	Voltage tolerance	Power	Workload cycles	Frequency	IP grade	Valve material
12, 24VDC	±10%	3.4W,4W	100% continuous work	About 300 times/min	Ip54(with cable) IP40 (Rectangular socket)	G1/8 and tube valve body: polyvinylidene diFluoride (PVDF)

Seal	Fluid	Temperature of Fluid	Environments temperature	Val max	Time
PerFluor rubber	Aromatic hydrocarbons, ethers, esters, ketone solvents. (Polyether ether ketone valve body only)	10-50℃/0-50℃	50/55 degrees centigrade	About 21mm²/s	About 25ms

A level Solenoid valve parameter

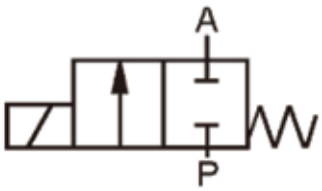
Order no	4000 0001
Model	KVE23PL12F11Q161
Valve material	PVDF
Sealing material	FKM
Temperature of fuild	10~50
Environments temperature	0~50
Connector	Tube
Inner bore diameter	1.6
KV value(water m3/h)	0.045
Qnn value(air L/min)	49
Pressure range (bar)	0-3
Back Pressure (bar)	1
Electrical connection	Extra with 500mm wire
Weight (g)	0.067
Volt (V)	12/DC
Power (W)	4

T level Solenoid valve parameter

Order no	4000 0002	4000 0003	4000 0004
Model	KVE33PL12F11Q161	KVE32PL24FF1Q163	KVE32PL12FF1Q163
Valve material	PVDF	PVDF	PVDF
Sealing material	FKM	FKM	FKM
Temperature of fuild	10-50	10-50	10-50
Environments temperature	0-50	0-55	0-55
Connector	Tube	Tube	Tube
Inner bore diameter	1.6	1.6	1.6
KV value(water m3/h)	0.045	0.025	0.025
Qnn value(air L/min)	49	27	27
Pressure range (bar)	0-3	Vacuum; 0-2	Vacuum; 0-2
Back Pressure (bar)	1	1	1
Electrical connection	Extra with 500mm wire	Rectangular socket	Extra with 500mm wire
Weight (g)	0.067	0.057	0.057
Volt (V)	12/DC	24/DC	12/DC
Power (W)	4	3.4	3.4

A level loop function

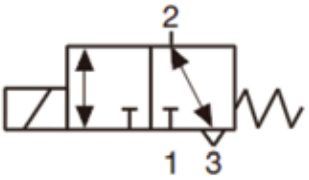
Two-way valve, Straight-through, normally-closed



Category A electromagnetic valve is closed when the electricity was turned off.
The electromagnetic valve will produce the electromagnetic force when it is energized. It will make moving iron core and static iron core pull-in, and open the valve directly, allowing the media ßow from import to export.
When the coil outages, the moving iron core will be reset with the help of the reset spring, and close the valve, cut off the media.

T level loop function

Two three-valves, direct-acting, common functions



Category C electromagnetic valve is 2 and 3 channel when the electricity was turned off.
The electromagnetic valve will produce the electromagnetic force when it is energized .it will make moving iron core and static iron core pull-in, and open the valve directly, Allowing the media ßowing during the 2 channel and 1 channel. When the coil outages, the moving iron core will be reset with the help of the reset spring, allowing the media Flowing from 2 channel to 3 channel.

Power adapter	Speciꝑcation
	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
Multi-function power	Speciꝑcation
 	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
Siliencer	Speciꝑcation
	L*W*H: 68*25*20mm

The compatibility of the pump

Tygon hose table chart chemical resistance performance assessments are based on laboratory test results. They reßect a variety of hose formula the relative ability of resistance to speciÞc chemicals. Note: the estimates in the table cannot be reßected 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 ßush 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, Þeld and clinical tests must be operated according to the actual requirements, to pipe in any speciÞc 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 E=Excellent G=Good F=Not bad X=Incompatible /=No info	PharMed®BPT	Viton	Norprene®	Norprene®Food	Silicon
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

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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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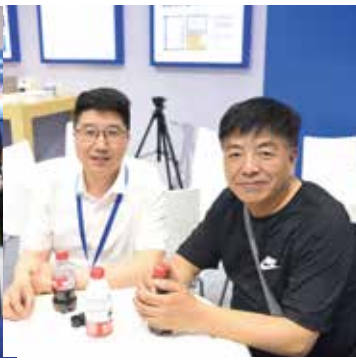

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证书

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：

上海市科学技术委员会　　上海市财政局　　国家税务总局上海市税务局

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

证 书

TÜV SÜD 管理服务有限公司
认证部

卡川尔流体科技(上海)有限公司
中国上海市松江区香泾路79号4号楼3层
邮政编码：201611

统一社会信用代码 / 组织机构代码：91310117596491073X

在以下适用范围
建立和实施了质量管理体系

微型泵的研发、生产、销售.

通过审核，报告号：**7482194091**
证明该体系满足

ISO 9001:2015

的要求。

本证书的有效期从**2018年12月04日**至**2021年12月03日**。
获证组织必须定期接受监督审核并经审核合格此证书方继续有效。

证书注册号：**12 100 57005 TMS**.

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ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH
certifies that

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

Unified social credit code / Organization code: 91310117596491073X

has established and applies
a Quality Management System for

Development, Manufacture and Sales of Micropump

An audit was performed, Report No. **7482194091**
Proof has been furnished that the requirements
according to

ISO 9001:2015

are fulfilled.

The certificate is valid from **2018-12-04** until **2021-12-03**.
The certified organization shall undergo and pass
the regular surveillance audit to maintain the validity of this certificate.

Certificate Registration No.: **12 100 57005 TMS**

Information about this certificate can be inquired at the official website
of Certification and Accreditation Administration of the People's Republic of China (www.cnca.gov.cn).

Product Compliance Management
Munich, 2018-12-06

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