



# Pump Head&OEM



## INNOFLUID CO.,LTD.

SHENCHEN PERISTALTIC PUMP  
Exported to **106** countries

# APPLICATION

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Fermentation



Medical equipment

















Reagent filling



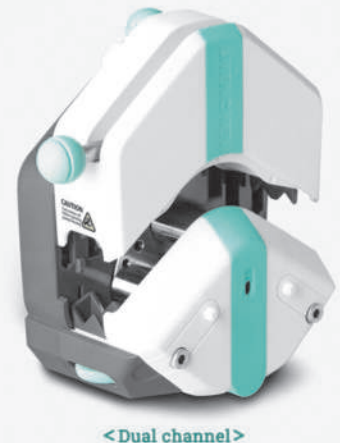
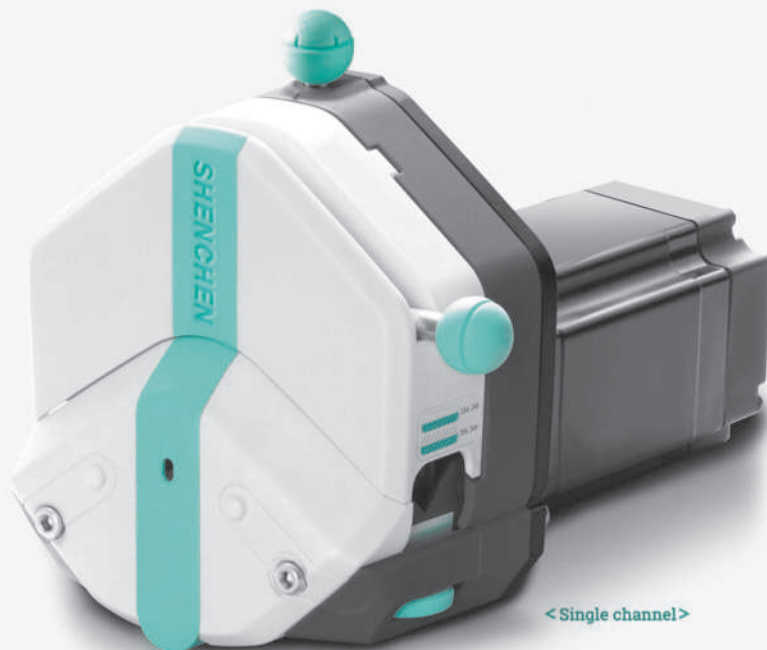
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Pump Head  
Flow Rate


		PAGE
	0.1~150rpm	
AMC Series	0.0002~65.17mL/min	11
	0.1~350rpm	
MicroPump	0.004~149.23mL/min	01
	0.1~300rpm	
MiniPump	0.0024~190mL/min	06
	0.1~300rpm	
HandyPump	0.0033~365.69mL/min	20
	0.1~600rpm	
KT15	0.0033~560.04mL/min	03
	0.1~350rpm	
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	0.1~600rpm	
SN Series	0.024~1500mL/min	26
	0.1~600rpm	
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	0.1~600rpm	
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	0.1~600rpm	
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	0.1~350rpm	
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	0.1~600rpm	
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	0.1~600rpm	
YZ35	0.69~12000mL/min	24
	30~350rpm	
DZ45	1.0~28.15L/min	33


# Quick Load Type Pump Head

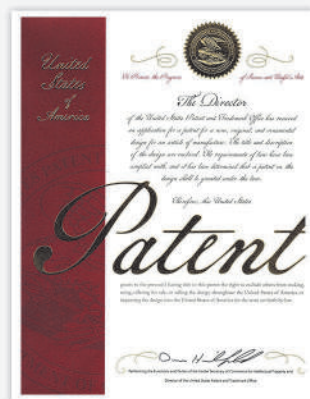
## EasyPump Series



- The tube clamp linkage mechanism makes it more convenient to install the tube.
- The rubbing wheel adjustment mechanism can easily fix different size tube.
- The lever assist mechanism makes the operation more labor-saving
- The tube pressure gap fine-tuning mechanism can adjust the pressure, extend the life of the tube and improve the dispensing accuracy.
- Two tubes can be installed at the same time to realize single pump head with two channels.

Easypump obtained  U.S.  
Invention patent and Appearance patent.

Easypump obtained  EU  
Appearance patent.

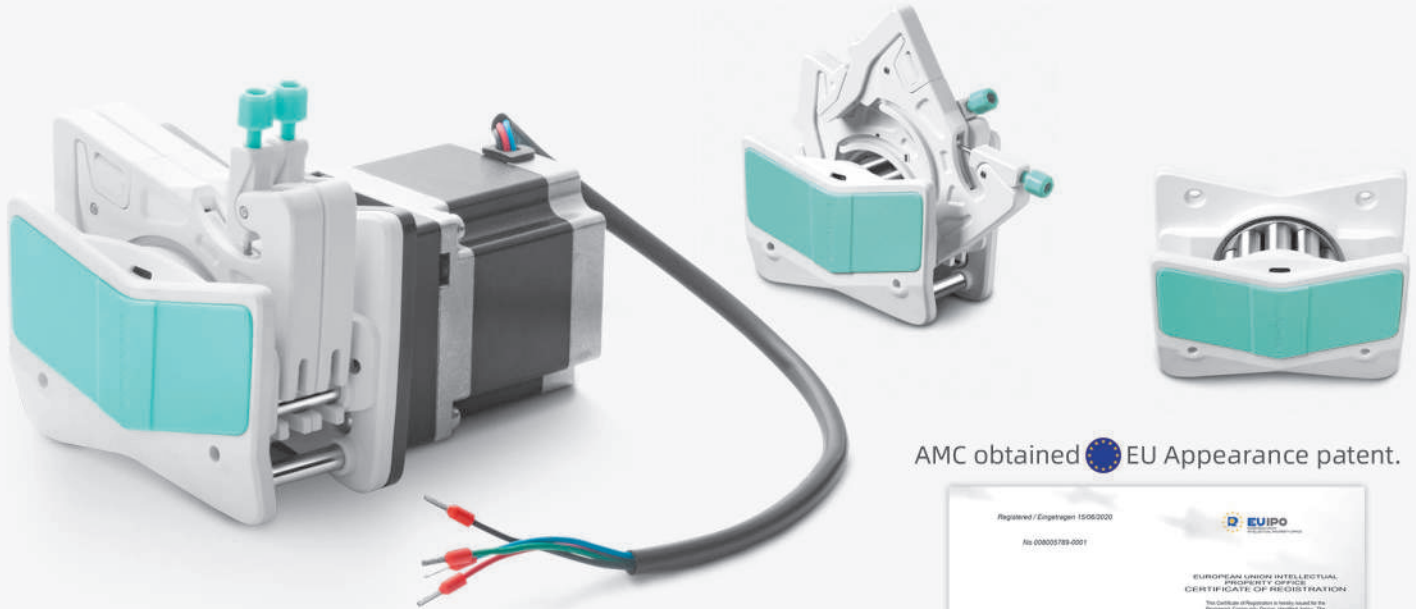


Invention Patent No.: US 11,852,136 B2  
Appearance patent No.: US D939,692 S

Appearance patent No.: 008005789-0002



## Multichannel Type Pump Head—AMC Series



- The elastic positioning mechanism enables users remove and install.
- The elastic pressure tube design effectively extends the life of the tube.
- Stepless adjustment of the tube pressure gap, effectively improving the flow rate accuracy between channels.
- Exquisite appearance, compact structure, ideal for supporting instruments.

AMC obtained  EU Appearance patent.



Appearance patent No.: 008005789-0001

## Compact Pump Head—KD15/25



Flow Rate:0.006-3240mL/min

- KD15/KD25 series compact pump head, opens the upper pressure block by flipping it over, which is easy to operate and allows changing tubing quickly.
- The rubbing wheel mechanism can adjust the position of the lower tubing clamp to fix different materials and diameters tubing. There is two types of roller assembly: 3 roller and 4 rollers. KD15 pump head for 1.6mm wall thickness tubing, KD25 pump head for 2.4mm wall thickness tubing.

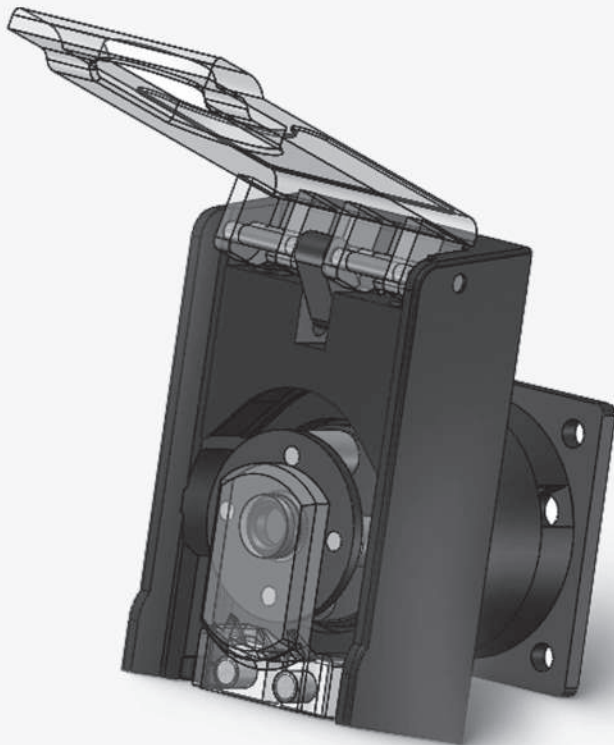
## Low Pulsation Pump Head(Launching Soon)——DY25-II/DY35



Flow Rate:0.35-13755mL/min

DY25-II/DY35 pump head housing material is aluminium alloy, stainless steel roller assembly. Through the phase difference between the two sets of rollers, reducing the fluid pulsation effectively, improve the flow rate stability. Elastic upper pressure block, reducing tubing abrasion.

## Compact Pump Head(Launching Soon)——KV10



Flow Rate:0.0001-24.68mL/min

Compact structure, can change tubing rapidly, high precision and stable running.



## Compact Pump Head

### MicroPump



(3 rollers)

### Product Features

Beautiful appearance, compact size, variety colors to choose, OEM ideal choice, can be driven by stepper motor, DC motor etc.

### Model No.

MicroPump, max flow rate: 0.004-149.23mL/min

### Industry Application

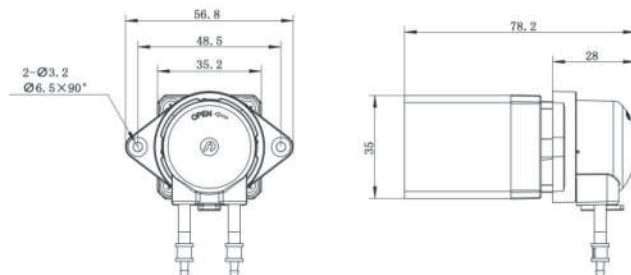
- Biochemical analyzer, support medical equipment
- Plant protection drone

### Pump Head Installation Procedure



35 Stepper motor

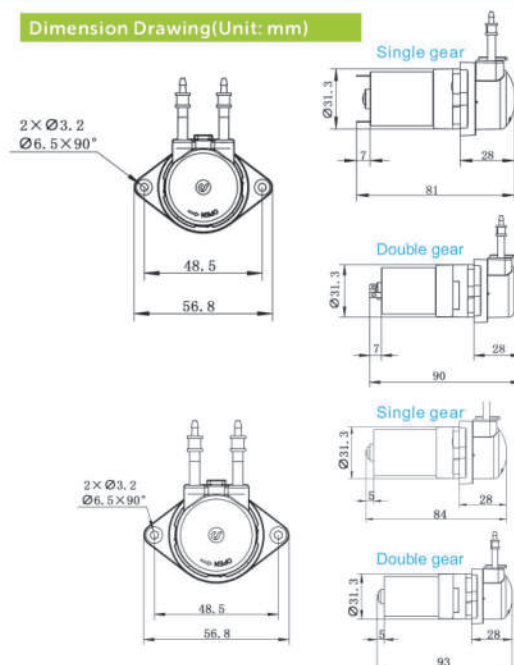
### Dimension Drawing(Unit: mm)



DC motor

DC Brush

### Dimension Drawing(Unit: mm)

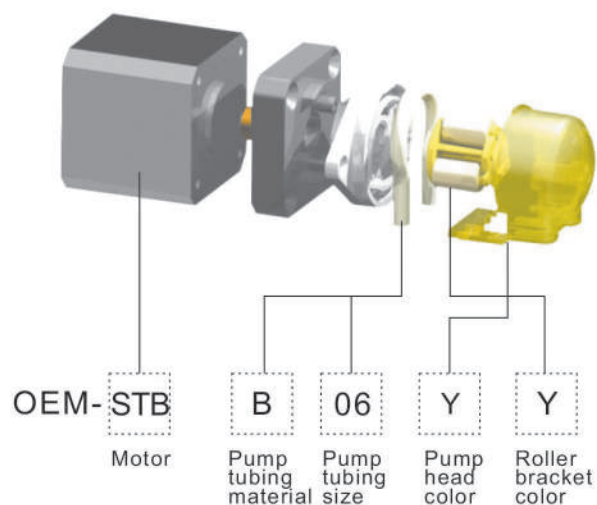


DC Brushless

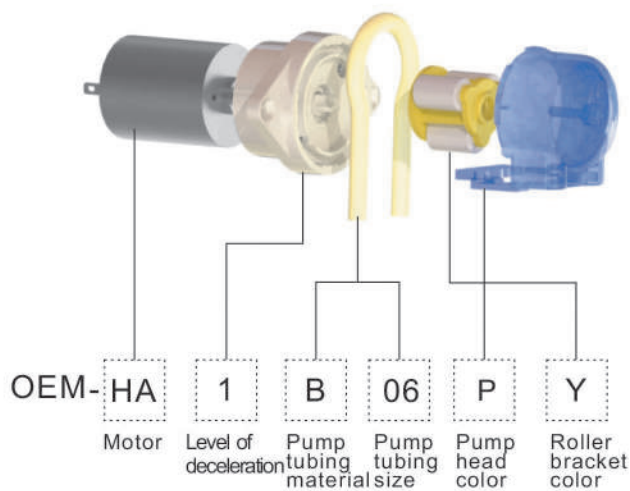


## Compact Pump Head

Stepper motor breakdown drawing



DC motor breakdown drawing



### Color Selection



Experimental conditions: standard atmospheric pressure, room temperature at 20°C, the liquid is pure water, no pressure, no suction and lift.

Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

### Flow model selection

Tubing No.			B04	B06	B10	B22
Tubing ID. (wall thickness 1mm)			1.0*1.1	2.0*1.0	3.0*1.0	4.0*1.0
Tubing material			PharMed BPT	PharMed BPT	PharMed BPT	PharMed BPT
Flow rate (mL/min)	24V Brush/Brushless HA/HD	Single gear	14.88	50.05	110.27	149.23
		Double gear	1.28	4.29	9.45	12.79
	12V Brush/Brushless HB/HE	Single gear	14.88	50.05	110.27	149.23
		Double gear	1.28	4.29	9.45	12.79
	6V Brush/Brushless HC/HF	Single gear	14.88	50.05	110.27	149.23
		Double gear	1.28	4.29	9.45	12.79
	35 Stepper motor (350rpm) STB		14.88	50.05	110.27	—
	42 Stepper motor (350rpm) STA		14.88	50.05	110.27	149.23





## Compact Pump Head

### KT15



(4 rollers)

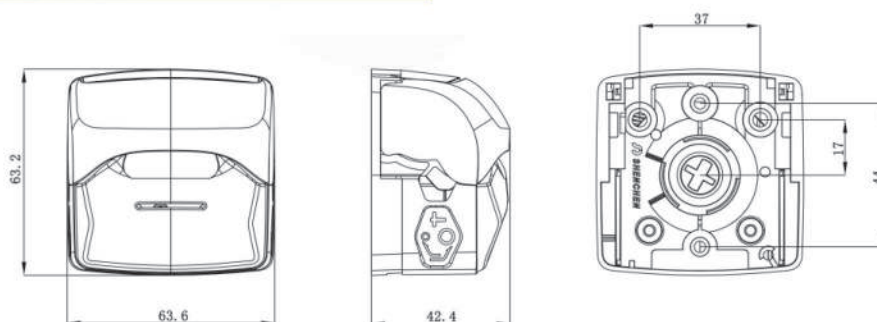
### Product Introduction

Exquisite appearance, small size. The upper pressing block is opened by a turning method, and the operation is simple. The elastic upper block can reduce tubing wear. Quickly replace tubing with self-adaptive tube clamp. Suitable for 5 different sizes of tubes to meet different flow rate requirements.

### Typical Application

- Medical equipment, biotechnology, pharmaceutical
- Chemical and food industries

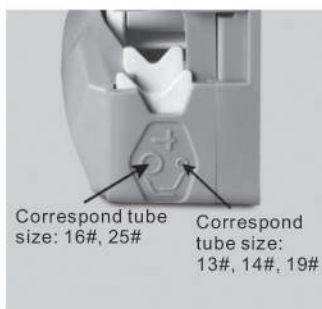
### Dimension Drawing (Unit: mm)



### Tubing Installation Procedure



1. Lift the flip top of the pump head to open the pump head.



2. Adjust the tube holder to the position corresponding to the installed size.



3. Put the tubing into the pump head.



4. Close the flip top of the pump head downward to complete the installation.

Experimental conditions: standard atmospheric pressure, room temperature at 20°C, the liquid is pure water, no pressure, no suction and lift.

Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

### Technical Specifications

Pump Head	Channel number	Tubing	ID×Wall thickness(mm)	mL / r	Speed(rpm)	Flow Rate(mL/min)	Weight(kg)
KT15	Single channel	13 <sup>#</sup>	0.8×1.6	0.033	0.1~600	0.0033~19.97	0.096
		14 <sup>#</sup>	1.6×1.6	0.156		0.0156~93.42	
		19 <sup>#</sup>	2.4×1.6	0.286		0.0286~171.6	
		16 <sup>#</sup>	3.1×1.6	0.477		0.0477~286.32	
		25 <sup>#</sup>	4.8×1.6	0.933		0.0933~560.04	



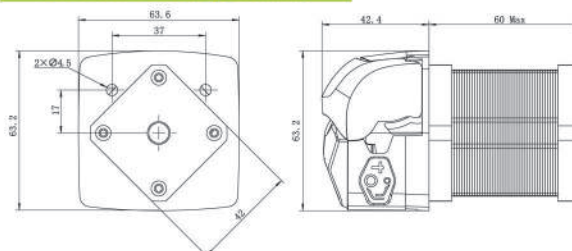
## OEM Product

### Compact Pump Head KT15

#### OEM-KTB001 (42 stepper motor)



Dimension Drawing(Unit: mm)



#### OEM-KTB001 Technical Specifications

Speed range	0.1-400rpm	Motor step angle	1.8°
Flow rate range	0.0033-373.2mL/min	Motor phase voltage	3.6V
Motor type	42 stepper motor	Motor phase current	1.7A
Motor phase number	2	Working environment	0-40°C, 80%RH

#### OEM-KTB031/032/033(42 stepper motor)

#### OEM-KTB028/029/030(Closed-loop stepper motor)

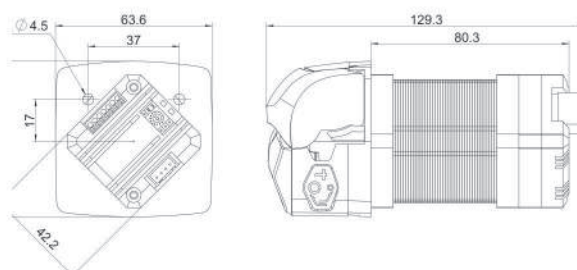
Dimension Drawing(Unit: mm)



(42 stepper motor)



(Closed-loop stepper motor)



#### OEM-KTB031/032/033 Technical Specifications

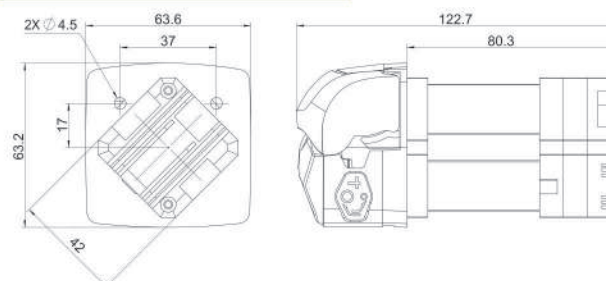
Speed range	0.1-400rpm	Speed control	OEM-KTB031: 4-20mA analog signal
Flow rate range	0.0033-373.2mL/min		OEM-KTB032: 0-5V analog signal
Motor type	42 stepper motor		OEM-KTB033: 0-10V analog signal
Control mode	2	Power supply	DC24V-DC36V (DC24V recommended), ≥50W
		Working environment	0-40°C, 80%RH

#### OEM-KTB028/029/030 Technical Specifications

Speed range	0.1-600rpm	Speed control	OEM-KTB028: 4-20mA analog signal
Flow rate	0.0033-560.04mL/min		OEM-KTB029: 0-5V analog signal
Motor type	Closed-loop stepper motor		OEM-KTB030: 0-10V analog signal
		Power supply	DC24-36V (DC24V recommended), ≥50W
		Working environment	0-40°C, 80%RH

#### OEM-KTB016(Closed-loop stepper motor)

Dimension Drawing(Unit: mm)



#### OEM-KTB016 Technical Specifications

Speed range	0.1-600rpm	Subdivision setting	1/16 (default), can set different subdivision through dip switch.
Flow rate range	0.0033-560.04mL/min	Power supply	DC24-36V (DC24V recommended), ≥50W
Speed control	External input pulse signal	Logic input voltage	DC5V
Motor type	Closed-loop stepper motor	Working environment	0-40°C, < 80%RH

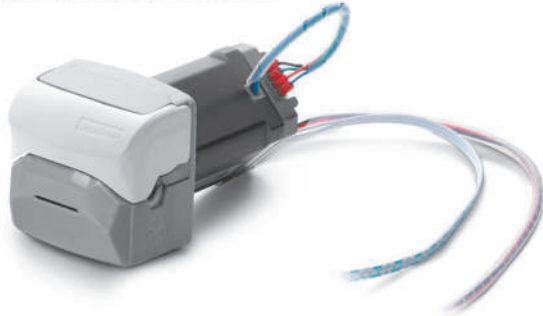




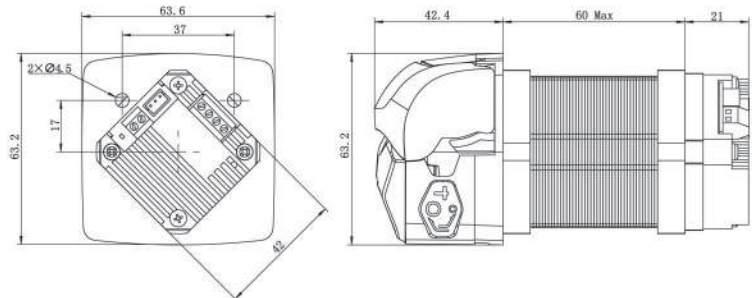
## OEM Product

### Compact Pump Head KT15

#### OEM-KTB009/KTB010



Dimension Drawing(Unit: mm)

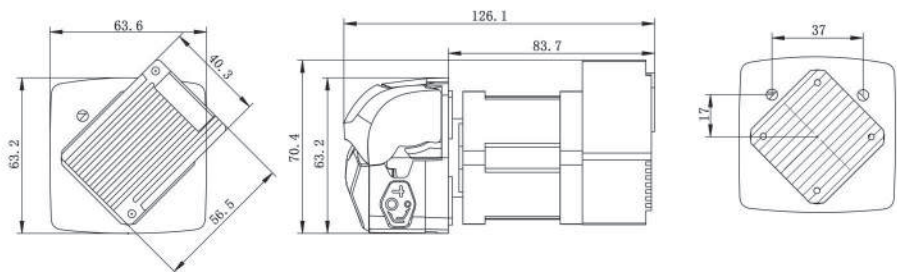


#### OEM-KTB009/KTB010 Technical Specifications

Speed range	0.1-400rpm	Motor type	42 stepper motor
Flow rate range	0.0033-373.2mL/min	Power supply	DC24V, ≥36W
Control mode	KTB009: RS232(Modbus protocol) KTB010: RS485(Modbus protocol)	Working environment	0-40°C, 80%RH

#### OEM-KTB012

Dimension Drawing(Unit: mm)

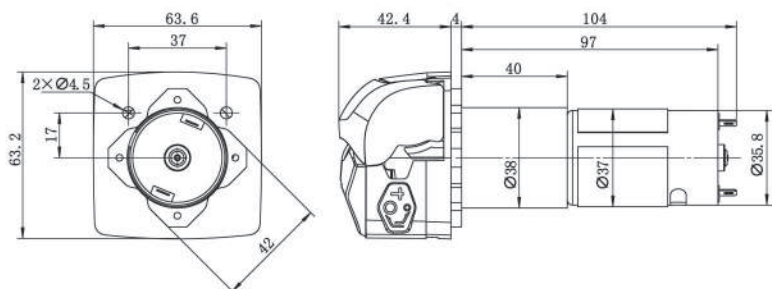


#### OEM-KTB012 Technical Specifications

Speed range	0.1-600rpm	Motor type	Integrated closed-loop stepper motor
Flow rate range	0.0033-560.04mL/min	Power supply	DC24V, ≥36W
Speed control	Pulse signal control speed, RS485	Logic input voltage	DC5V
Subdivisions	1/16(Default), can be set through RS485	Working environment	0-40°C, 80%RH

#### OEM-KTXZ001(DC motor)

Dimension Drawing(Unit: mm)



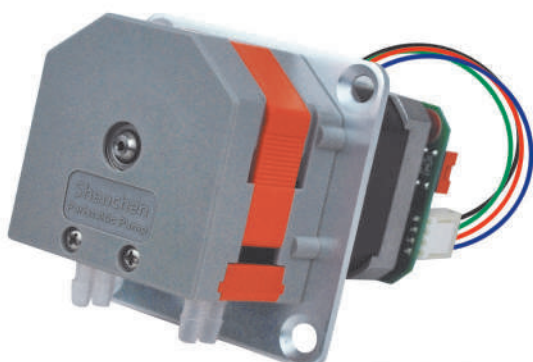
#### OEM-KTXZ001 Technical Specifications

Speed range	350rpm	Power supply	DC24V
Speed error	≤±10%	Working environment	0-40°C, 80%RH
Motor type	DC geared motor		



## Compact Pump Head

### MiniPump Series



(4 rollers)

### Material: PVDF



### Features

- Attractive appearance, compact structure.
- Easy to operate and economical cost.
- Accept many kinds of motors to drive.
- Supply several colors of appearance, ideal for supporting analytical instruments.

### Tubing Installation Procedure

A. Make the two tubing clamps align the slide way of pump head two sides.



B. Ensure that the tubing is in the middle of rollers, and push the clamps into the pump head.



C. Make the compression block align the upper slide way of pump head.



D. Press the compression block into the pump head, and ensure it fixed.



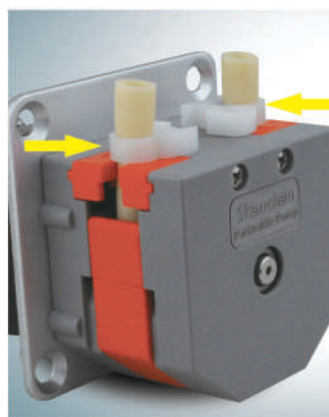
### Product Introduction

Minipump series products which adopt compact and embedded design are more suitable for supporting a variety of instruments and equipments. Single and dual channel are optional. It accepts 8 kinds of tubing. Flow rates are 0.0024-190 mL/min. PharMed BPT long-life tubing from French Saint-Gobain is installed in internal part of pump head. Applicable motors for Minipump are stepper motor, DC motor, AC motor and other modes to drive with wide applications.



Soft tube connect to hard tube

Supporting conversion connector (soft tube transfer hard tube), connect directly with a variety of hard tubes.



Install hose without connector

- Adopt special hygienic grade tube, The whole tube is installed.
- No connection simplifies design to prevent leakage and pollution risk.

### Typical Application

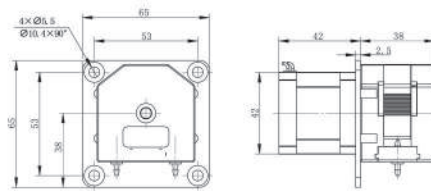
- Discharge condensate water in the flue gases survey meter.
- Support biochemistry analytical instruments.



## OEM-B01



Dimension Drawing(Unit: mm)



## OEM-B01 Technical Specifications

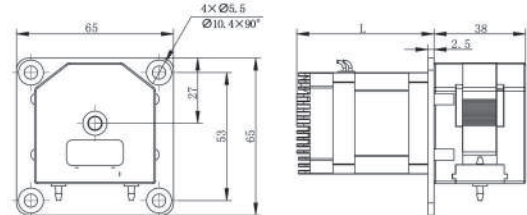
Speed range	0.1-300 rpm
Flow rate range	190mL/min
Motor type	42 stepper motor
Motor phase number	2
Motor step angle	1.8°
Motor phase voltage	2.2V
Motor phase current	1.0A
Working environment	0-40°C, 80%RH

## OEM-B02, OEM-B022, OEM-B067(with drive module)



Dimension Drawing(Unit: mm)

Model No.	L
OEM-B02	57
OEM-B022	57
OEM-B067	83.5



## OEM-B02 Technical Specifications

Speed range	0.1-300 rpm
Flow rate range	0.0024-190mL/min
Speed control	Preset speed or serial port control
Motor type	42 stepper motor
Power supply	DC 24V, ≥24W
Working environment	0-40°C, 80%RH

## OEM-B022 Technical Specifications

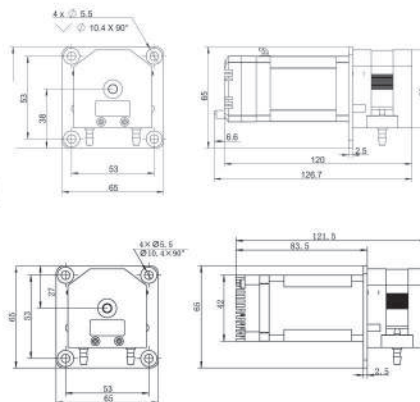
Speed range	0.1-300 rpm
Flow rate range	0.0024-190mL/min
Speed control	Adjust speed by internal potentiometer
Motor type	42 stepper motor
Power supply	DC 24V, ≥24W
Working environment	0-40°C, 80%RH

## OEM-B067 Technical Specifications

Speed range	0.1-300 rpm
Flow rate range	0.0024-190mL/min
Speed control	External input pulse frequency speed control
Subdivision settings	1/16(recommend), 1/2, 1/4, 1/8, 1/32, 1/64, 1/128
Motor type	42 stepper motor
Power supply	DC 24V, ≥36W
Working environment	0-40°C, 80%RH

## OEM-B078/B079/B080

Dimension Drawing(Unit: mm)



## Model No. OEM-B078/B079/B080

Speed range	0.1-300 rpm
Flow rate range	0.0024-190mL/min
Outer control	Passive switch signal control start/stop and direction
Speed control	OEM-B078: 4-20mA analog signal OEM-B079: 0-5V analog signal OEM-B080: 0-10V analog signal
Motor type	42 stepper motor
Power supply	DC24-36V (DC24V recommended), ≥36W
Working environment	0-40°C, 80%RH

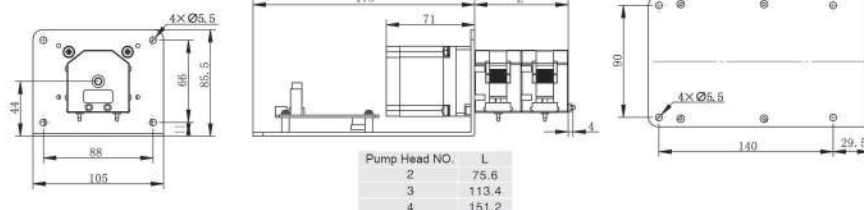
## OEM-B060/B061

## Model No. OEM-B060/OEM-B061

Speed range	0.1-300 rpm
Flow rate range	0.0024-190mL/min
Outer control	OEM-B060: RS232 interface(Modbus) OEM-B061: RS485 interface(Modbus)
Motor type	42 stepper motor
Power supply	DC 24V, ≥36W
Working environment	0-40°C, 80%RH

## OEM-B136, OEM-B137

Dimension Drawing(Unit: mm)



Pump Head NO.	L
2	75.6
3	113.4
4	151.2

## OEM-B136 Technical Specifications

Speed range	0.1-300 rpm
Flow rate range	0.0024-190mL/min
Speed control	Preset speed and manual control
Control mode	External passive signal level (normally closed or open) mode; control the start/stop of direction
Display(optional)	0.96" OLED screen
Motor type	57 stepper motor
Power supply	DC 24V, ≥50W
Working environment	0-40°C, 80%RH

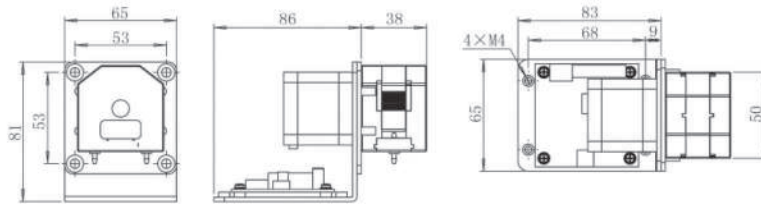
## OEM-B137 Technical Specifications

Speed range	0.1-300 rpm
Flow rate range	0.0024-190mL/min
Speed control	Pulse frequency speed control
Logic input voltage	5V, 12V, 24V(default 5V)
Multiple segments	1/16(recommend), 1/2, 1/4, 1/8, 1/32, 1/64, 1/128
Motor type	57 stepper motor
Power supply	DC 24V, ≥50W
Working environment	0-40°C, 80%RH



## OEM-B013

Dimension Drawing(Unit: mm)

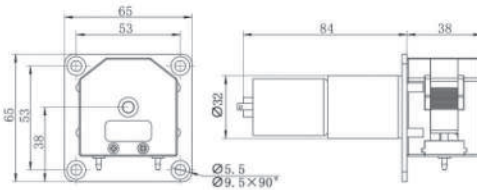


OEM-B013 Technical Specifications

Speed range	0.1-300rpm	Address setting	1-32
Flow rate range	0.0024-190mL/min	Motor type	42 stepper motor
Speed control	Communication control	Power supply	DC 24V, ≥24W
Communication interface	RS232, RS485 interface modbus protocol, control start/stop, direction and speed	Working environment	0-40°C, 80%RH

## OEM-MZ Series

Dimension Drawing(Unit: mm)

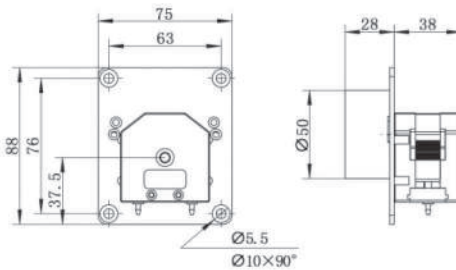


Note: OEM-MZ306 outline dimension drawing

Model No.	Motor Type	Power Supply	Motor Speed (rpm±10%)	Flow Rate (mL/min)
OEM-MZ001	Φ37 DC motor	DC12V	170	≤107.67
OEM-MZ004			300	≤190.00
OEM-MZ104		DC24V	20	≤12.67
OEM-MZ107			100	≤61.98
OEM-MZ108			160	≤101.33
OEM-MZ111			300	≤190.00
OEM-MZ304	Φ32 DC planetary gear motor	DC24V	50	≤31.14
OEM-MZ306			100	≤61.98

## OEM-MJ Series

Dimension Drawing(Unit: mm)



Model No.	Motor Type	Power Supply	Motor Speed (rpm±10%)	Direction
OEM-MJ107	AC motor	AC220V	15.5/18.6	CCW

Note: In the rotation of speed, "/" represents the rotation speed in 50/60HZ.

Experimental conditions: standard atmospheric pressure, room temperature at 20°C, the liquid is pure water, no pressure, no suction and lift.

Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

Technical Specifications

Pump Head	Tubing	ID Wall (thickness (mm))	mL/r	Speed (rpm)	Flow Rate (mL/min)
MiniPump01	13"	0.8×1.6	0.024	0.1~300	0.0024-8.28
	14"	1.6×1.6	0.112		0.0112-33.88
	19"	2.4×1.6	0.252		0.0252-77.23
	16"	3.1×1.6	0.394		0.0394-114.31
	25"	4.8×1.6	0.652		0.0652-190.00
	1×1	1×1	0.05		0.005-15.01
	2×1	2×1	0.18		0.018-54.63
	2.5×1	2.5×1	0.256		0.0256-76.84
	3×1	3×1	0.356		0.0356-108.39
MiniPump02	1×1	1×1	0.05	0.1~300	0.005-15.01
	2×1	2×1	0.18		0.018-54.63
	2.5×1	2.5×1	0.256		0.0256-76.84
	3×1	3×1	0.356		0.0356-108.39





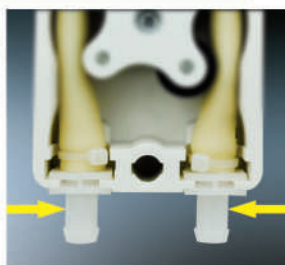
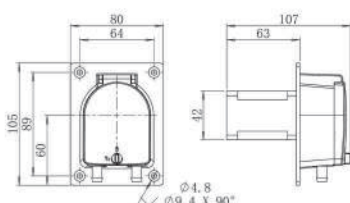
## Compact Pump Head

### UD15



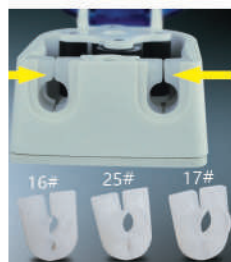
(2 rollers)

Dimension Drawing(Unit: mm)



Connection type  
installation hose

**Standard fast plug joint**, convenient for external and different materials of the hose, the application of flexibility, cost saving



Install hose without  
connector

1. Adopt special hygienic grade tube, The whole tube is installed.
2. No connection simplifies design to **prevent leakage and pollution risk**.

### Product Introduction

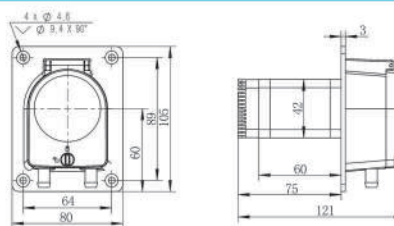
PES material, transparent protecting cover, easily to observe the working situation of pump head and tubing at any time. Various of colors are available. There is water-proof groove in the pump head mounting side. Can use stepper motor, DC motor, AC motor and so on to drive.

Model No.	OEM-UB01
Speed range	0.1-350 rpm
Flow rate range	0.08-930mL/min
Motor type	42 stepper motor
Motor phase number	2
Motor step angle	1.8°
Motor phase voltage	2.2V
Motor phase current	1.0A
Working environment	0-40°C, 80%RH

### OEM-UB02, OEM-UB09/UB010, OEM-UB016



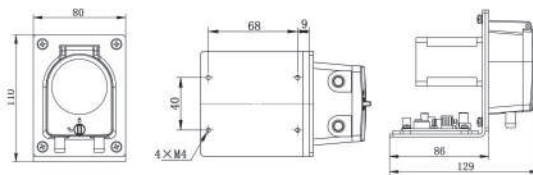
Dimension Drawing(Unit: mm)



OEM-UB02 Technical Specifications		OEM-UB09/UB010 Technical Specifications		OEM-UB016 Technical Specifications	
Speed range	0.1-350 rpm	Speed range	0.1-350 rpm	Speed range	0.1-350 rpm
Flow rate range	0.08-930mL/min	Flow rate range	0.08-930mL/min	Flow rate range	0.08-930mL/min
Speed control	Preset speed or serial port control	Speed control	External input pulse frequency speed control	Speed control	Adjust speed by internal potentiometer
Motor type	42 stepper motor	Subdivision settings	1/16(recommend), 1/12, 1/4, 1/8, 1/32, 1/64, 1/128	Motor type	42 stepper motor
Power supply	DC 24V, ≥36W	Motor type	42 stepper motor	Power supply	DC 24V, ≥36W
Working environment	0-40°C, 80%RH	Power supply	DC 24V, ≥36W	Working environment	0-40°C, 80%RH
		Working environment	0-40°C, 80%RH		

### OEM-UB04

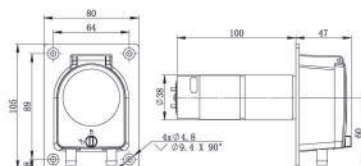
Dimension Drawing(Unit: mm)



Model No.	OEM-UB04
Speed range	0.1-350 rpm
Flow rate range	0.08-930mL/min
Motor type	42 stepper motor
Speed control	Communication control
Address setting	1-32
Power supply	DC 24V, ≥36W
Communication interface	RS232, RS485 interface modbus protocol, control start/stop, direction and speed
Working environment	0-40°C, 80%RH

### OEM-UXZ Series

Dimension Drawing(Unit: mm)



Model No.	Motor Type	Power Supply	Motor Speed (rpm±10%)	Flow Rate (mL/min)
OEM-UXZ03	Φ37 DC planetary gear motor	DC12V	150	≤398
OEM-UXZ06			350	≤930
OEM-UXZ13		DC24V	150	≤398
OEM-UXZ16			350	≤930

Experimental conditions: standard atmospheric pressure, room temperature at 20°C, the liquid is pure water, no pressure, no suction and lift.

Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

Model No.	Housing Material		Tubing		Speed Range(rpm)	Flow Rate (mL/min)	Weight (kg)
	Body	Protective cover	Tubing Sizes	ID×Wall Thickness			
UD15 (2 rollers)	PSF	Transparent PC	16"	3.1×1.6(mm)	0.1~350	0.08~280	0.12
			25"	4.8×1.6(mm)		0.16~580	
			17"	6.4×1.6(mm)		0.26~930	





## Spring Pump Head

UC15/UC20



### Product Introduction

UC15/UC20 spring pump head is widely used for hemodialysis machine equipment. Transparent protective cover, can observe the working situation anytime; uncover signal output, stop working when uncover to ensure safety; Elastic roller assembly, running smoothly; manual lever help install the tube, and can finish liquid circulation when power down unexpectedly; support stepper motor, DC motor, AC motor and servo motor.

### Roller Assembly



### Tubing Installation Procedure



1. Press the pipe clamp, put the tube into the U shaped groove.



2. Put the tube between the two guide posts. Hold the spanner, rotate the wheel body.



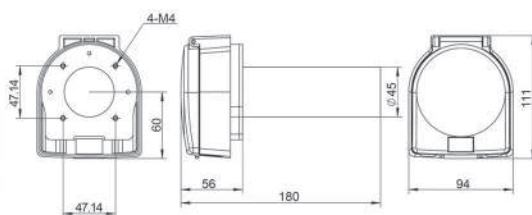
3. Press the pipe clamp, put the tube into the U shaped groove.



4. Installation is finished.



Dimension Drawing(Unit: mm)

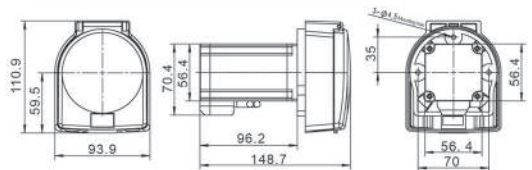


DC motor Technical Specifications

Model No.	UCXZ00X series, UCXZ10X series, UCXZ20X series, UCXZ30X series	
Motor type	Brush/Brushless DC planetary gear motor	
Voltage	DC12V/DC24V	
Power consumption	30W	60W
Motor size	φ45mm	φ50mm
Speed(rpm)	5,10,20,80,100,120	200,300
Speed error	±10%	
Working temperature	0-40°C	
Relative humidity	< 80%	



Dimension Drawing(Unit: mm)



Servo motor Technical Specifications

Model No.	OEM-UCB001	
Motor type	Step servo motor	
Speed range	≤600rpm	
Speed control	Pulse signal	
Subdivision setting	1/16	
Power consumption	≤80W	
Working temperature	0-40°C	
Relative humidity	< 80%	

### Technical Specifications

Model	Housing Material		Rollers assemble construction	Tubing		Speed Range (rpm)	Flow Rate (mL/min)	Weight(kg)
	Base	Protecting cover		Size	ID×Wall(mm)			
UC15	PSF	PC	spring-like structure	16"	3.1x1.6	0.1-350	0.1651-596	1.37
				25"	4.8x1.6		0.3440-1251	
				17"	6.4x1.6		0.5818-2186	
				18"	7.9x1.6		0.8652-3281	
UC20	PSF	PC	spring-like structure	Medical dialysis tube	8×2	0.1-200	0.7327-811	1.37

## Multichannel Pump Head

### AMC Series



(6 rollers,  
10 rollers)



### Product Introduction

- The unique elastic positioning mechanism allows users to install and remove cartridge with one hand. Multichannel, small volume transferring.
- Elastic pressure tube design to extend the service life of the tube.
- Stepless adjustment of the tube pressure gap, effectively improving the accuracy between channels.
- 304 stainless steel roller assembly, including 6 rollers and 10 rollers structure, which are designed with low noise and high speed, suitable for supporting various analytical instruments.

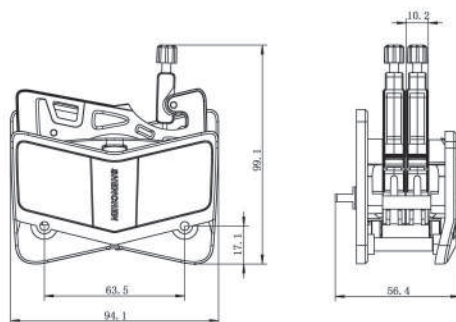
### Product Features

- The elastic positioning mechanism enables users remove and install cartridge with one hand.
- The elastic pressure tube design effectively extends the life of the tube.
- Stepless adjustment of the tube pressure gap, effectively improving the flow rate accuracy between channels.
- The mute design of the roller assembly realizes low noise and high speed operation.
- Exquisite appearance, compact structure, ideal for supporting instruments.

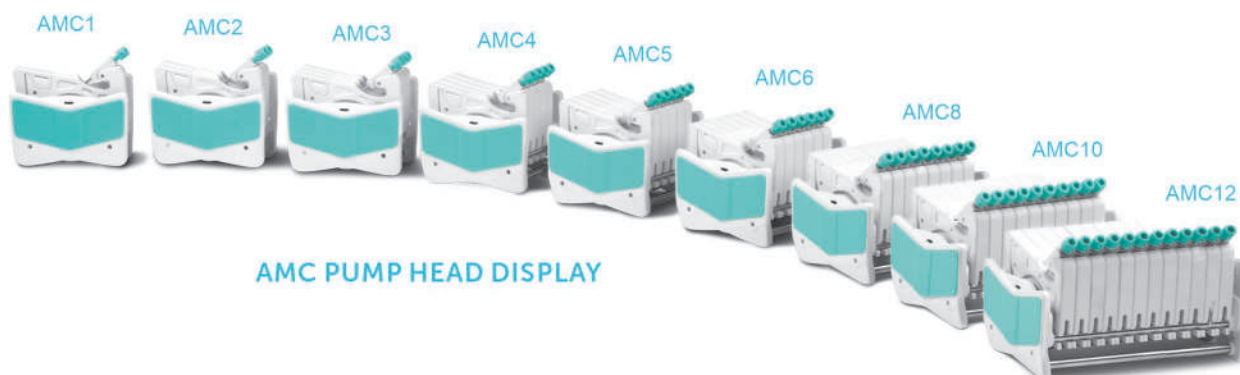
### Typical Application

- Support blood sugar analytical device.
- Support ammonian analytical instrument.

### Dimension Drawing (Unit: mm)



**Note:** Increasing or reducing one channel, the pump head size need to increase or reduce the thickness of one cartridge.



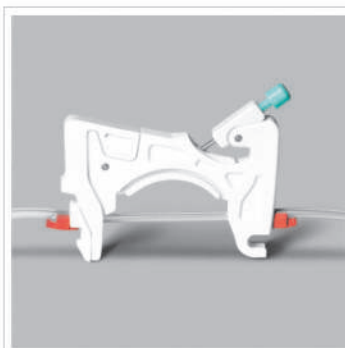
AMC PUMP HEAD DISPLAY



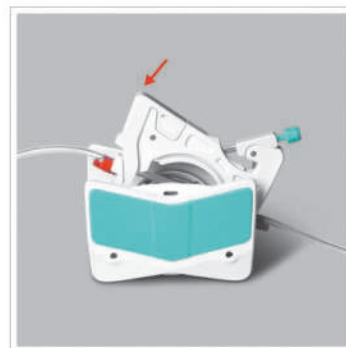
## Tubing Installation Procedure



1. Easily press the elastic lock arm mechanism to open the cartridge.



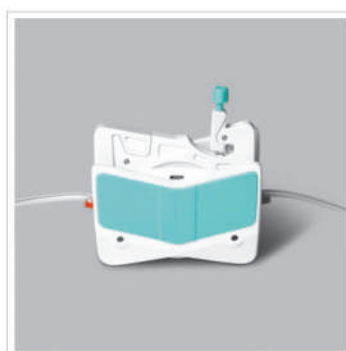
2. After the cartridge is disconnected, install the tube, the two adjacent tube stoppers determine a working position.



3. Press the cartridge to make the cartridge enter the working position.



4. Pull the pressing device to enter the pressure tube state.



5. Installation finished.

Experimental conditions: standard atmospheric pressure, room temperature at 20°C, the liquid is pure water, no pressure, no suction and lift.

Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

### AMC Series Pump Head Technical Specifications

Channel number	1	2	3	4	5	6	8	10	12
Rollers material	304 stainless steel material								
Rollers number	10 rollers, 6 rollers								
Tubing	Speed	Flow rate of pump head with 10 rollers (mL/min)	Flow rate of pump head with 6 rollers (mL/min)	Tubing maximum pressure (Mpa)					
				Continuous	Intermittent				
1×1	0.1~150rpm	0.0050~7.55	0.0062~9.36	0.1	0.1				
2×1		0.0183~27.52	0.0220~33.06						
2.4×0.8		0.0254~38.13	0.0319~47.81						
3×1		0.0323~48.38	0.0434~65.17						
0.13×0.86		0.0002~0.29	0.0002~0.31						
0.19×0.86		0.0003~0.44	0.0003~0.46						
0.25×0.86		0.0005~0.76	0.0005~0.80						
0.51×0.86		0.0013~2.00	0.0014~2.05						
0.89×0.86		0.0030~4.47	0.0031~4.65						
1.14×0.86		0.0061~9.16	0.0065~9.74						
1.42×0.86		0.0125~18.75	0.0142~21.28						
2.06×0.86		0.0197~29.60	0.0234~35.17						
2.79×0.86		0.0286~42.86	0.0372~55.77						

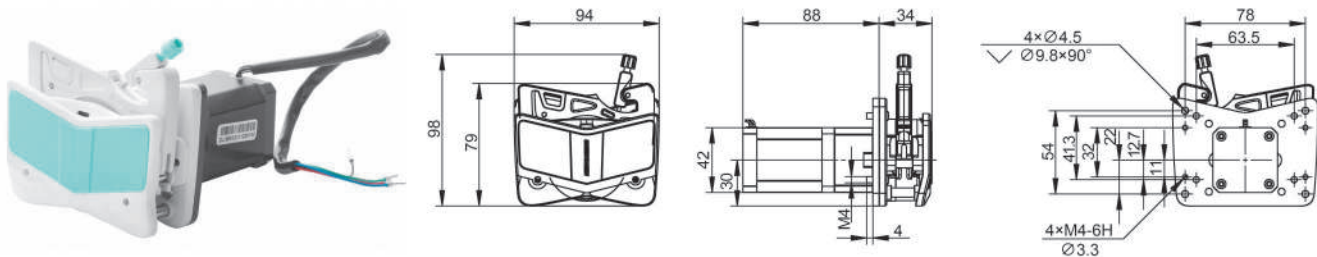


## OEM Product

### New Generation Multichannel Pump Head Series

#### OEM-AMCB001

Dimension Drawing(Unit: mm)

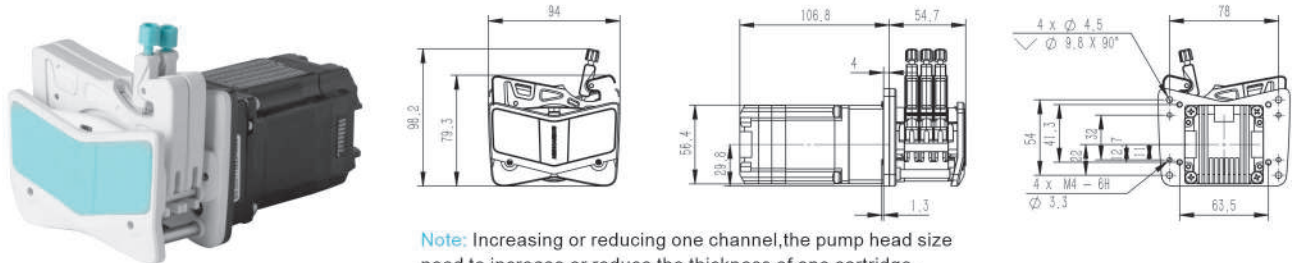


#### OEM-AMCB001 Technical Specifications

Speed range	0.1-150rpm	Motor step angle	1.8°
Flow rate range	0.0002-65.17mL/min	Motor phase voltage	3.6V
Motor type	42 stepper motor	Motor phase current	1.7A
Motor phase number	2	Working environment	0-40°C, <80%RH

#### OEM-AMCB104

Dimension Drawing(Unit: mm)



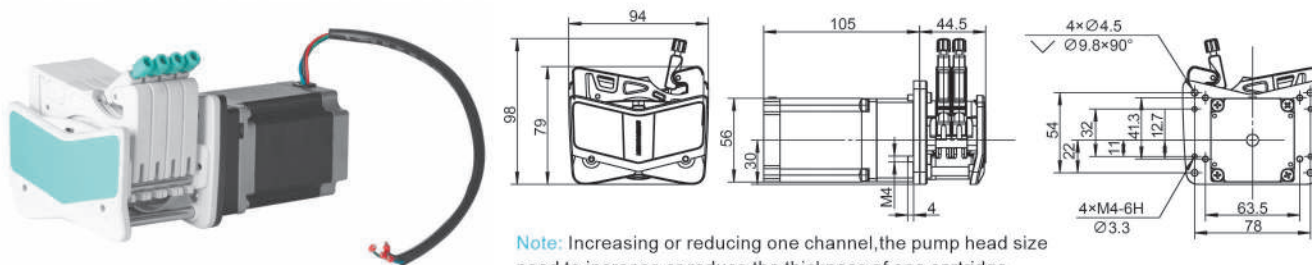
Note: Increasing or reducing one channel, the pump head size need to increase or reduce the thickness of one cartridge.

#### OEM-AMCB104 Technical Specifications

Speed range	0.1-150rpm	Subdivision setting	1/16 (default), can set different subdivision through dip switch.
Flow rate range	0.0002-65.17mL/min	Power supply	DC24-36V (DC24V recommended), ≥100W
Motor type	Closed-loop stepper motor	Logic input voltage	DC5V
External control	External input pulse signal	Working environment	0-40°C, <80%RH

#### OEM-AMCB201

Dimension Drawing(Unit: mm)



Note: Increasing or reducing one channel, the pump head size need to increase or reduce the thickness of one cartridge.

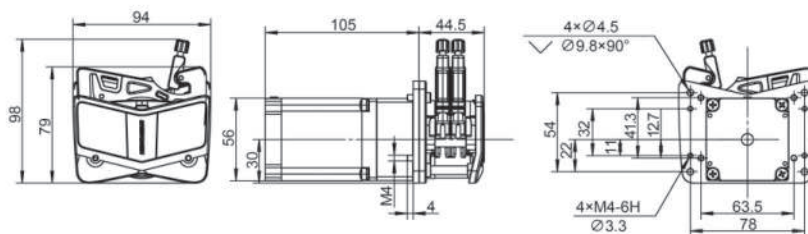
#### OEM-AMCB201 Technical Specifications

Speed range	0.1-150rpm	Motor step angle	1.8°
Flow rate range	0.0002-65.17mL/min	Motor phase voltage	3.4V
Motor type	57 stepper motor	Motor phase current	3.0A
Motor phase number	2	Working environment	0-40°C, <80%RH



## OEM-AMCB202

Dimension Drawing(Unit: mm)



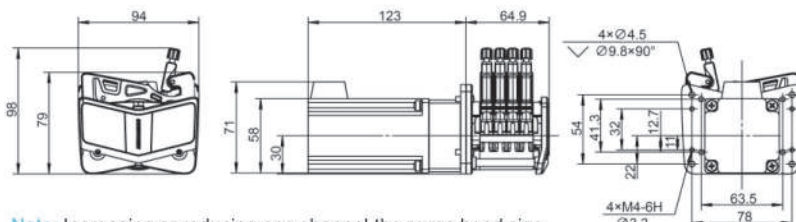
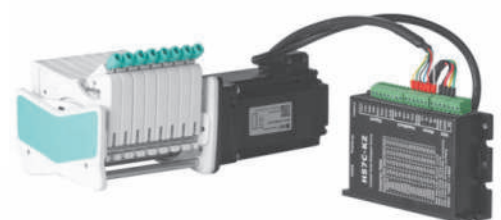
**Note:** Increasing or reducing one channel, the pump head size need to increase or reduce the thickness of one cartridge.

### OEM-AMCB202 Technical Specifications

Speed range	0.1-150rpm	Current setting	3-speed DIP switch setting (default 2.84A)
Flow rate range	0.0002-65.17mL/min	Motor type	57 stepper motor
Speed control	External input pulse frequency speed control	Power supply	DC18-50V(recommend 36V), ≥80W
Multiple segments	4-speed DIP switch setting (default 16 subdivisions)	Logic input voltage	5V
		Working environment	0-40°C, 80%RH

## OEM-AMCB302

Dimension Drawing(Unit: mm)



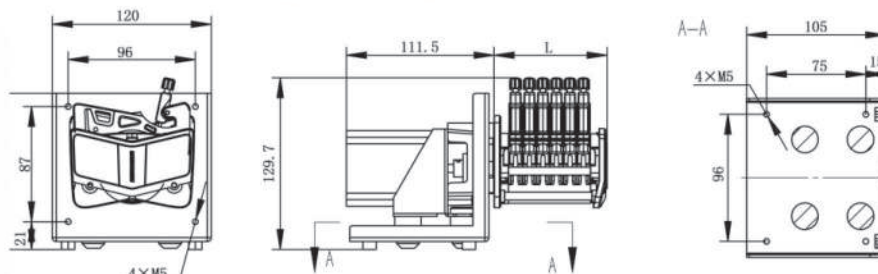
**Note:** Increasing or reducing one channel, the pump head size need to increase or reduce the thickness of one cartridge.

### OEM-AMCB302 Technical Specifications

Speed range	0.1-150rpm	Current setting	Adaptive current
Flow rate range	0.0002-65.17mL/min	Motor type	57 Closed-loop stepper motor
Speed control	External input pulse frequency speed control	Power supply	DC24-48V(recommend 36V), ≥80W
Multiple segments	4-speed DIP switch setting (default 16 subdivisions)	Logic input voltage	5V
		Working environment	0-40°C, 80%RH

## OEM-B29/AMC

Dimension Drawing(Unit: mm)



When the length of one channel is L=31mm, each additional channel L increases by 10.2mm, this picture shows 6 channels

### OEM-B29 Technical Specifications

Speed range	0.1-150rpm	Motor step angle	1.8°
Flow rate range	0.0002-65.17mL/min	Motor phase voltage	1.5V
Motor type	57 stepper motor	Motor phase current	3.0A
Motor phase number	2	Working environment	0-40°C, 80%RH



# Quick Load Pump Head

(Pressure Adjustable)

## EasyPump Series



(Fixed Pressure)



(4 rollers)



## Product Introduction

The unique tube clamp linkage mechanism, with the opening process of the upper pressure block, the tube clamp automatically lifts, the user can easily install the tube. As the upper pressure block is closed, the tube clamp is automatically reset to fix the tube. At the same time, "the Trigger lever assist mechanism" assists the user in pressing the upper pressure block.

The rubbing wheel mechanism can adjust the position of the lower tube clamp to fix different materials and diameters tube.

Users can choose single or dual-channel pump heads. You can also choose a pump head with a fixed or adjustable tube pressure gap according to your requirements. The shell material of the pump head including two types: resistant to organic solvents and intolerant to organic solvents.

## Product Features

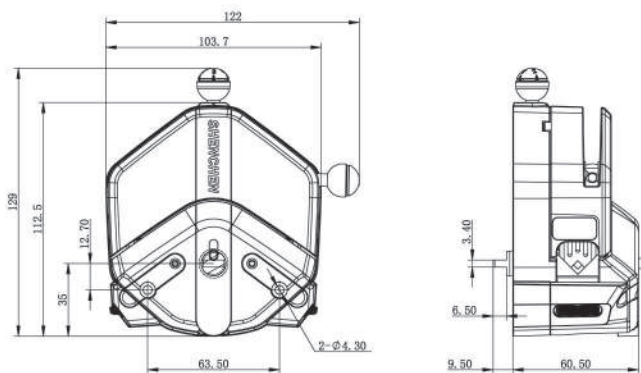
- The tube clamp linkage mechanism makes it more convenient to install the tube.
- The rubbing wheel adjustment mechanism can easily fix different size tube.
- The lever assist mechanism makes the operation more labor-saving.
- The tube pressure gap fine-tuning mechanism can adjust the pressure, extend the life of the tube and improve the dispensing accuracy.

Tube tubes can be installed at the same time to realize single pump head with two channels.

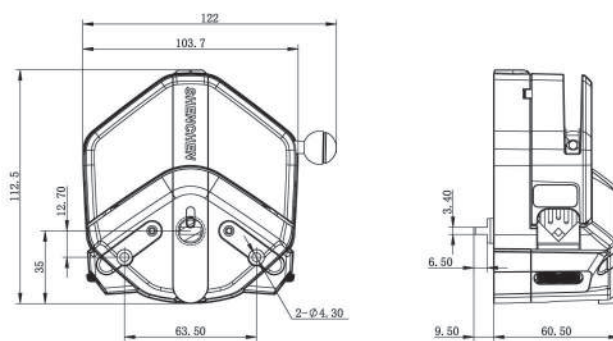
## Typical Application

- Support COD on-line monitor.
- Support anorectal therapeutic instrument.
- Support biofermentation cylinder.

## Dimension Drawing (Unit: mm)



EasyPump Pressure Adjustable



EasyPump Fixed Pressure

Patent No: ZL2019307234329; ZL201921663136.5 EU patent number: 008005789-0002

United States Invention Patent No.: Us 11,852,136 B2

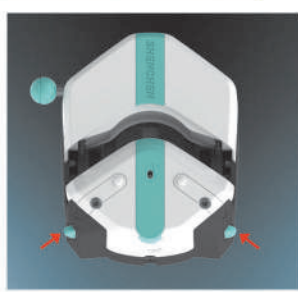




## Tubing Installation Procedure



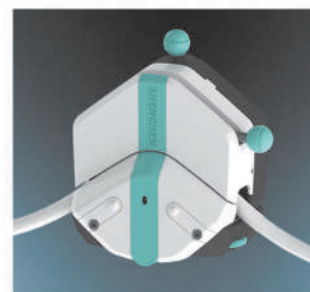
1. Turn the knob anticlockwise 180°, open the upper block.



2. Turn the rubbing wheel to adjust the lower tube clamp position, according to the tubing size.



3. Put the tube between rollers and upper block, tighten up the tubing lightly.



4. Turn the knob clockwise 180°, put the upper block back to original position, fasten the tube.

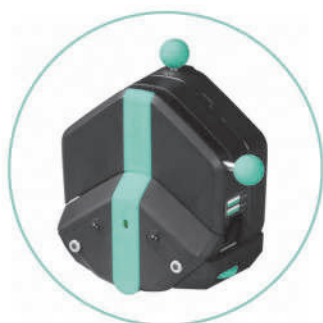
Experimental conditions: standard atmospheric pressure, room temperature at 20°C, the liquid is pure water, no pressure, no suction and lift.

Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

## Technical Specifications

Pump Head	Tubing	ID×Wall thickness(mm)	mL/r	Flow Rate(mL/min) (0.1-600rpm)	Tubing Max.Pressure(Mpa)		Weight(kg)
					Intermittent	Continuous	
Single Channel EasyPumpI/III	13 <sup>#</sup>	0.8×1.6	0.053	0.0053-32	0.27	0.17	0.6
	14 <sup>#</sup>	1.6×1.6	0.27	0.027-162			
	19 <sup>#</sup>	2.4×1.6	0.55	0.055-330			
	16 <sup>#</sup>	3.1×1.6	0.933	0.093-560	0.24	0.14	
	25 <sup>#</sup>	4.8×1.6	1.967	0.197-1180			
	17 <sup>#</sup>	6.4×1.6	3.333	0.333-2000			
Single Channel EasyPumpII/IV	18 <sup>#</sup>	7.9×1.6	4.3	0.430-2580	0.10	0.07	
	15 <sup>#</sup>	4.8×2.4	1.8	0.180-1080	0.27	0.17	
	24 <sup>#</sup>	6.4×2.4	2.733	0.273-1640			
	35 <sup>#</sup>	7.9×2.4	3.833	0.383-2300	0.24	0.14	
Dual Channel EasyPumpV/VI	36 <sup>#</sup>	9.6×2.4	5.167	0.517-3100			
	13 <sup>#</sup>	0.8×1.6	0.053	0.0053-32	0.27	0.17	
	14 <sup>#</sup>	1.6×1.6	0.27	0.027-162			
	19 <sup>#</sup>	2.4×1.6	0.55	0.055-330			
	16 <sup>#</sup>	3.1×1.6	0.933	0.093-560	0.24	0.14	
25 <sup>#</sup>	4.8×1.6	1.967	0.197-1180				
Pump Head		Single/Dual Channel		Tubing Wall Thickness(mm)		Pressure Adjustable	
EasyPumpI		Single Channel		1.6		Fixed Pressure	
EasyPumpII		Single Channel		2.4		Fixed Pressure	
EasyPumpIII		Single Channel		1.6		Pressure Adjustable	
EasyPumpIV		Single Channel		2.4		Pressure Adjustable	
EasyPumpV		Dual Channel		1.6		Fixed Pressure	
EasyPumpVI		Dual Channel		1.6		Pressure Adjustable	

## Other Color Selection(EasyPump-PPS Series)



EasyPump-PPSG(Pressure Adjustable)



EasyPump-PPSG(Fixed Pressure)

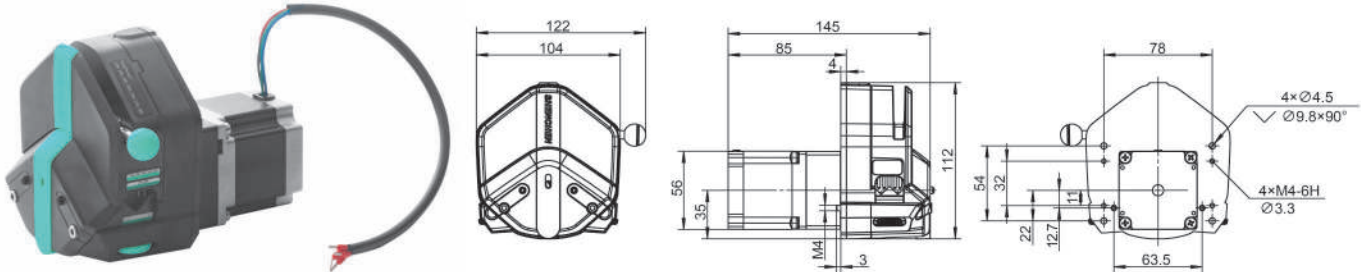


## OEM Product

### Quick Load Pump Head Series EasyPump

#### OEM-EYB101

Dimension Drawing(Unit: mm)

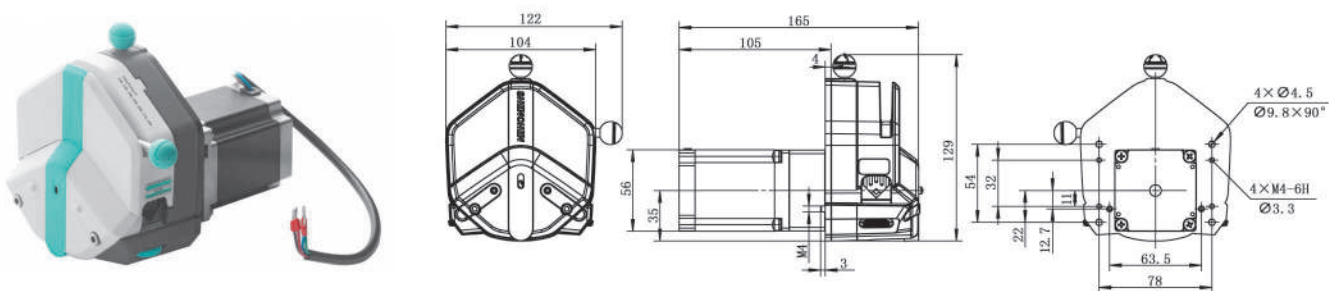


OEM-EYB101 Technical Specifications

Speed range	0.1-350 rpm	Motor step angle	1.8°
Flow rate range	0.0053-1505mL/min	Motor phase voltage	2.7V
Motor type	57 stepper motor	Motor phase current	3.0A
Motor phase number	2	Working environment	0-40°C, 80%RH

#### OEM-EYB201

Dimension Drawing(Unit: mm)

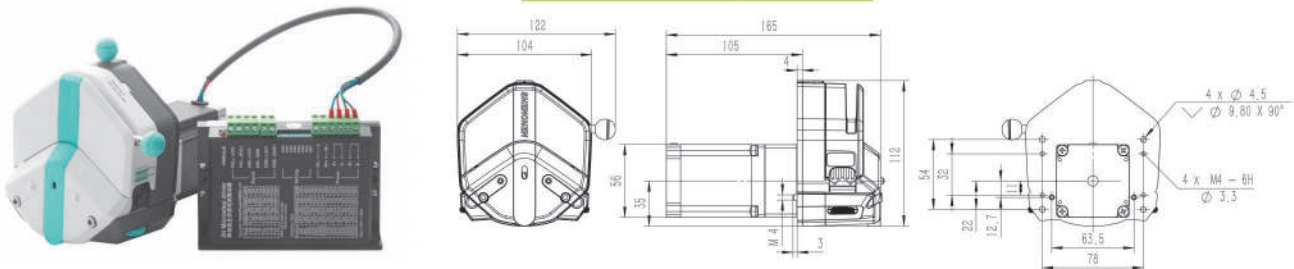


OEM-EYB201 Technical Specifications

Speed range	0.1-600 rpm	Motor step angle	1.8°
Flow rate range	0.0053-2580mL/min	Motor phase voltage	3.4V
Motor type	57 stepper motor	Motor phase current	3.0A
Motor phase number	2	Working environment	0-40°C, 80%RH

#### OEM-EYB204/205

Dimension Drawing(Unit: mm)



OEM-EYB204/205 Technical Specifications

Speed range	0.1-600 rpm	Speed control	OEM-EYB204: 0-10V analog signal
Flow rate	0.0053-2580mL/min		OEM-EYB205: 4-20mA analog signal
Motor type	57 stepper motor	Power supply	DC24-36V (DC24V recommended), ≥80W
		Working environment	0-40°C, <80%RH

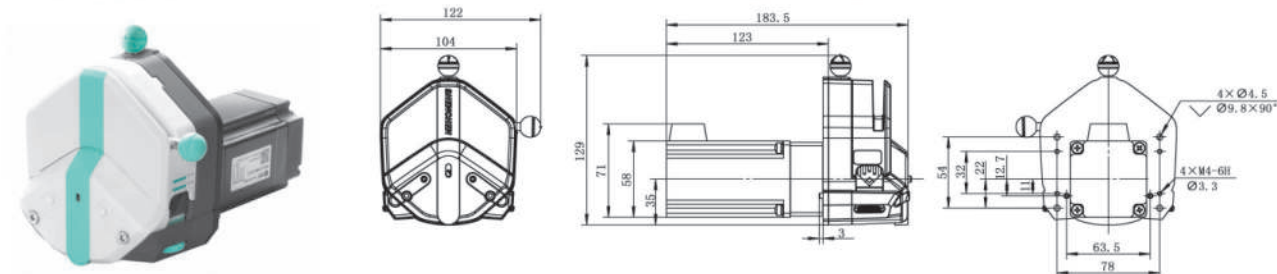


## OEM Product

### Quick Load Pump Head Series EasyPump

#### OEM-EYB301

Dimension Drawing(Unit: mm)

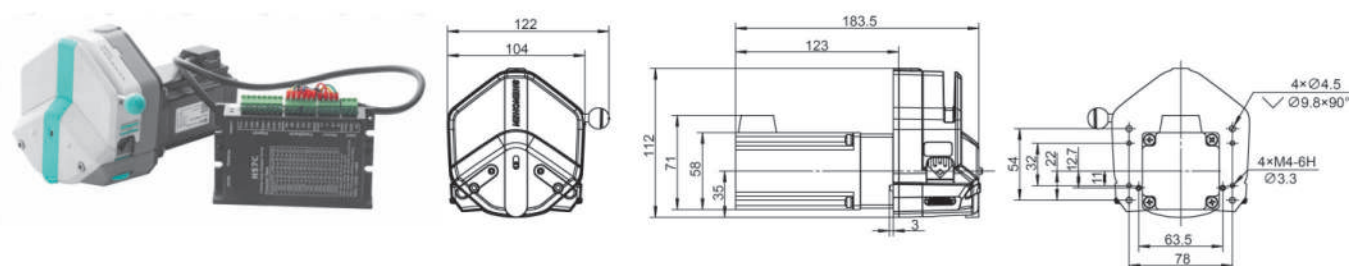


#### OEM-EYB301 Technical Specifications

Speed range	0.1-600 rpm	Motor phase voltage	1.9V
Flow rate range	0.0053-3100mL/min	Motor phase current	5.0A
Motor type	57 Closed-loop stepper motor	Encoder power voltage	DC5V(±10%)
Motor phase number	2	Encoder resolution	1000cpr
Motor step angle	1.8°	Working environment	0-40℃, 80%RH

#### OEM-EYB302

Dimension Drawing(Unit: mm)

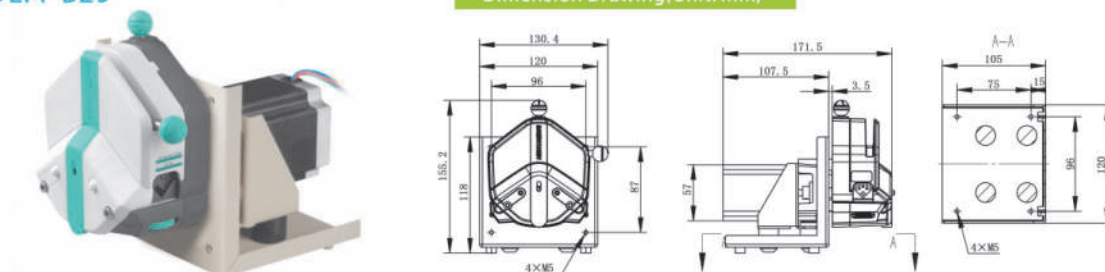


#### OEM-EYB302 Technical Specifications

Speed range	0.1-600 rpm	Motor type	57 Closed-loop stepper motor
Flow rate range	0.0053-3100mL/min	Power supply	DC18 50V(recommend36V),≥80W
Speed control	External input pulse frequency speed control	Logic input voltage	5V
Subdivision settings	4-speed DIP switch setting(default 16 subdivisions)	Working environment	0-40℃, 80%RH
Current setting	Adaptive current		

#### OEM-B29

Dimension Drawing(Unit: mm)



#### OEM-B29 Technical Specifications

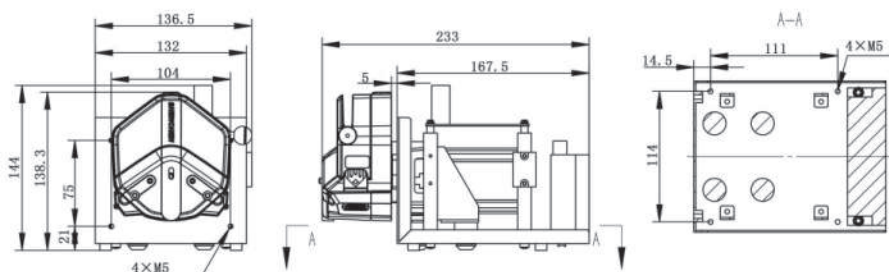
Speed range	0.1-600 rpm	Motor step angle	1.8°
Flow rate range	0.0053-2580mL/min	Motor phase voltage	1.5V
Motor type	57stepper motor	Motor phase current	3.0A
Motor phase number	2	Working environment	0-40℃, 80%RH





## OEM-B242/B243/B244

Dimension Drawing(Unit: mm)

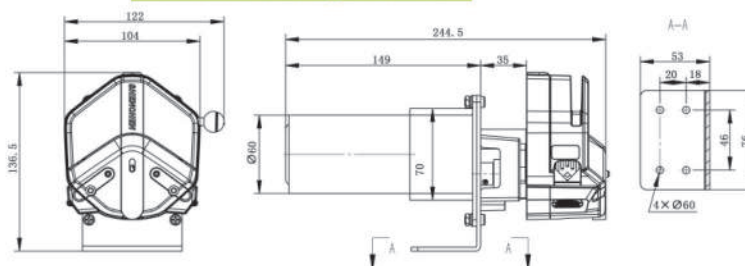


## OEM-B242/B243/B244 Technical Specifications

Motor type	Stepper motor	Function type	OEM-B242, Flow rate type
Display	Industrial grade 4.3" LCD color display		OEM-B243, Dispensing type
Control method	Touch screen and Mechanical keypad		OEM-B244, Multichannel filling type
Speed range	≤600rpm	Working environment	0-40°C, 80%RH
Max.flow rate	2580mL/min		

## OEM-Z216

Dimension Drawing(Unit: mm)

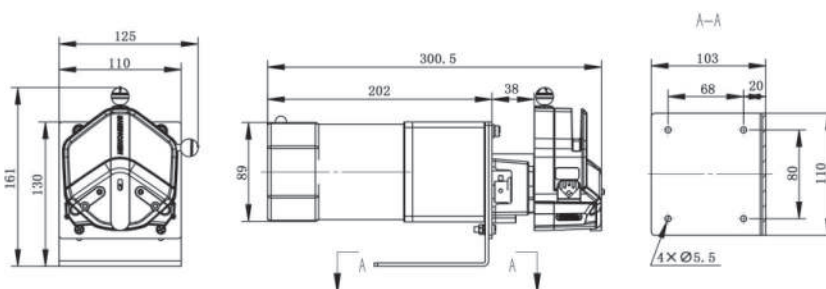


## OEM-Z216 Technical Specifications

Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-Z216	DC geared motor	DC24V	450	≤±10%	0-40°C, 80%RH

## OEM-JT12

Dimension Drawing(Unit: mm)



## OEM-JT12 Technical Specifications

Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-JT12	AC speed adjustable motor	AC220V/AC110V	43-430	≤±10%	0-40°C, 80%RH



## Quick Load Pump Head

### HandyPump



Single channel



Dual channel

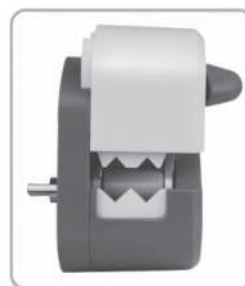
(3/6rollers)

### Product Features

- Flow rate range: 0.0033-365.69mL/min (3 rollers)  
0.0031-190.81mL/min (6 rollers)
- Front knob to open the pump head, save space.
- Automatic tubing retention makes tube loading easy and quick.
- Single and dual-channel head available.
- 5 different sizes tubing to meet different flow rate requirements.



Single channel  
HandyPump01



Dual channel  
HandyPump02

### Other Color Selection(HandyPump-PPS Series)

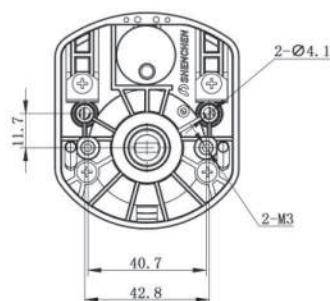
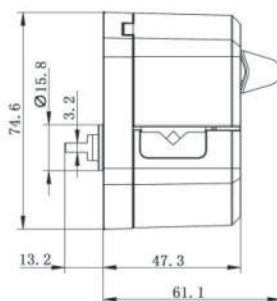
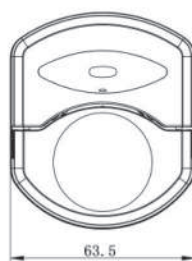


Single channel



Dual channel

### Dimension Drawing(Unit: mm)



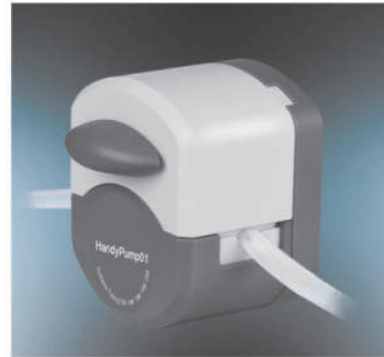
## Tubing Installation Procedure



A. Turn the knob anticlockwise 180°, open the upper block.



B. Put the tube between rollers and upper block, tighten up the tubing lightly.



C. Turn the knob clockwise 180°, put the upper block back to original position, fasten the tube.

Experimental conditions: standard atmospheric pressure, room temperature at 20°C, the liquid is pure water, no pressure, no suction and lift.

Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

### Technical Specifications

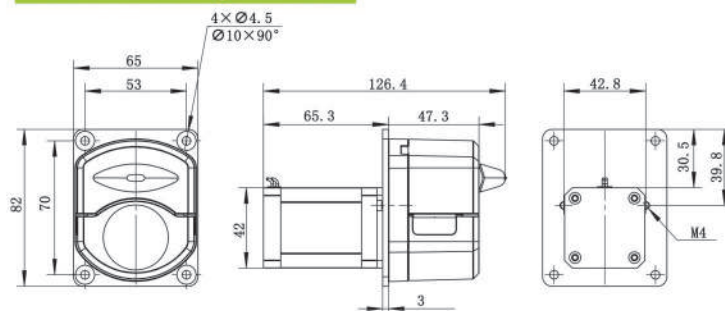
Pump Head	Channel number	Tubing	ID×Wall thickness(mm)	mL/r (3 rollers)	mL/r (6 rollers)	Speed (rpm)	Flow Rate(mL/min) (3 rollers)	Flow Rate(mL/min) (6 rollers)	Weight (kg)
HandyPump01	Single channel	13"	0.8×1.6	0.033	0.031	0.1~300	0.0033~10.03	0.00312~9.36	0.224 (3 rollers)
		14"	1.6×1.6	0.187	0.126		0.0187~56.09	0.0208~37.68	
		19"	2.4×1.6	0.371	0.215		0.0371~111.17	0.0036~64.51	0.302 (6 rollers)
		16"	3.1×1.6	0.636	0.345		0.0636~190.76	0.0059~103.51	
		25"	4.8×1.6	1.219	0.636		0.1219~365.69	0.01038~190.81	
HandyPump02	Dual channel	13"	0.8×1.6	0.033	—	0.1~300	0.0033~10.03	—	0.224 (3 rollers)
		14"	1.6×1.6	0.187	—		0.0187~56.09	—	
		19"	2.4×1.6	0.371	—		0.0371~111.17	—	
		16"	3.1×1.6	0.636	—		0.0636~190.76	—	

## OEM Product

### Quick Load Pump Head Series HandyPump01 HandyPump02

#### OEM-HYB001(42-60 stepper motor)

#### Dimension Drawing(Unit: mm)



### OEM-HYB001 Technical Specifications

Speed range	0.1-300rpm	Motor step angle	1.8°
Flow rate range	0.0033-365.69mL/min	Motor phase voltage	3.6V
Motor type	42 stepper motor	Motor phase current	1.7A
Motor phase number	2	Working environment	0-40°C, 80%RH





## OEM Product

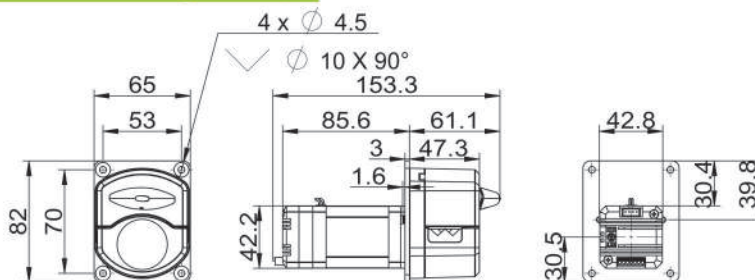
### Quick Load Pump Head Series HandyPump01 HandyPump02

#### OEM-HYB038/039/040

(42 stepper motor)



Dimension Drawing(Unit: mm)



#### OEM-HYB038/039/040 Technical Specifications

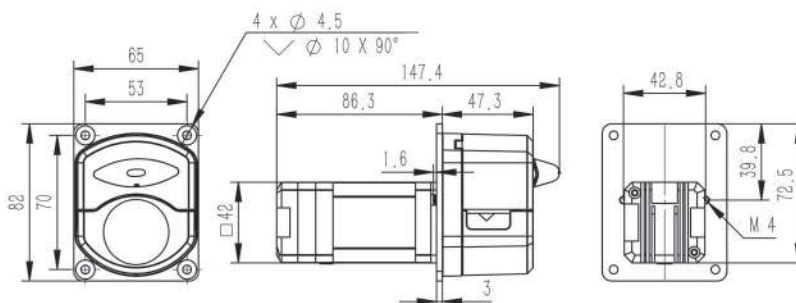
Speed range	0.1-300rpm	Speed control	OEM-B038: 4-20mA analog signal
Flow rate	0.0033-365.69mL/min		OEM-B039: 0-5V analog signal
Motor type	42 stepper motor	Power supply	OEM-B040: 0-10V analog signal
		Working environment	DC24-36V (DC24V recommended), $\geq 36W$ 0-40°C, <80%RH

#### OEM-HYB032/033/034

(Closed-loop stepper motor)



Dimension Drawing(Unit: mm)

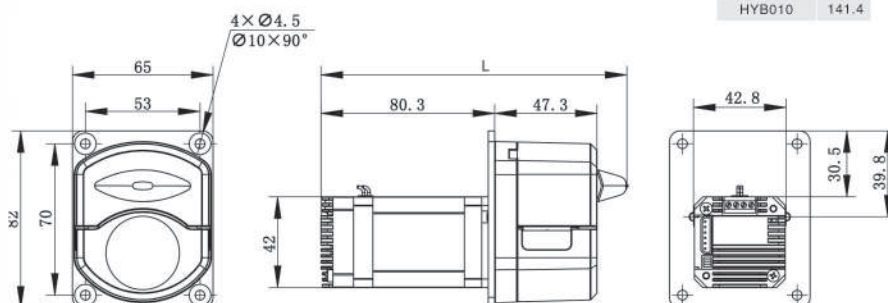
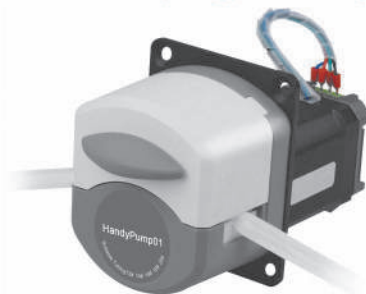


#### OEM-HYB032/033/034 Technical Specifications

Speed range	0.1-300rpm	Speed control	OEM-B032: 4-20mA analog signal
Flow rate	0.0033-365.69mL/min		OEM-B033: 0-5V analog signal
Motor type	Closed-loop stepper motor	Power supply	OEM-B034: 0-10V analog signal
		Working environment	DC24-36V (DC24V recommended), $\geq 50W$ 0-40°C, <80%RH

#### OEM-HYB018(stepper motor)

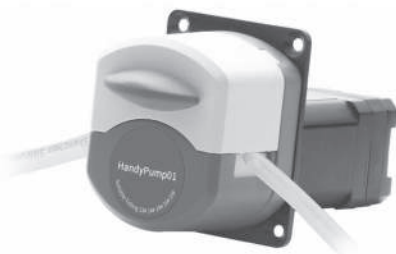
Dimension Drawing(Unit: mm)



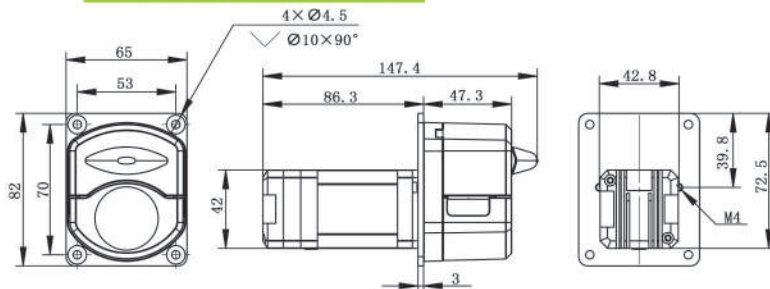
Model No.	L
HYB018	147.4
HYB009	141.4
HYB010	141.4

OEM-HYB018 Technical Specifications		OEM-HYB009 Technical Specifications		OEM-HYB010 Technical Specifications	
Speed range	0.1-300 rpm	Speed range	0.1-300 rpm	Speed range	0.1-300 rpm
Flow rate range	0.0033-365.69mL/min	Flow rate range	0.0033-365.69mL/min	Flow rate range	0.0033-365.69mL/min
Speed control	External input pulse frequency speed control	Speed control	Preset speed or serial port control	Speed control	Adjust speed by internal potentiometer
Subdivision settings	1/16(recommend), 1, 1/2, 1/4, 1/8, 1/32, 1/64, 1/128	Motor type	42 stepper motor	Motor type	42 stepper motor
Motor type	42 stepper motor	Power supply	DC 24V, ≥36W	Power supply	DC 24V, ≥36W
Power supply	DC 24V, ≥36W	Working environment	0-40°C, 80%RH	Working environment	0-40°C, 80%RH
Working environment	0-40°C, 80%RH				

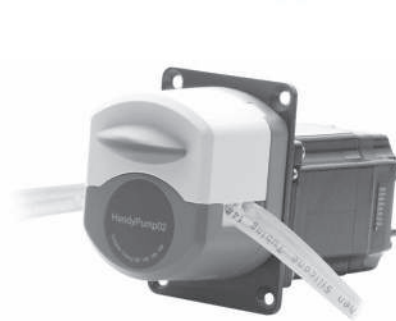
### OEM-HYB019(42 stepper motor)



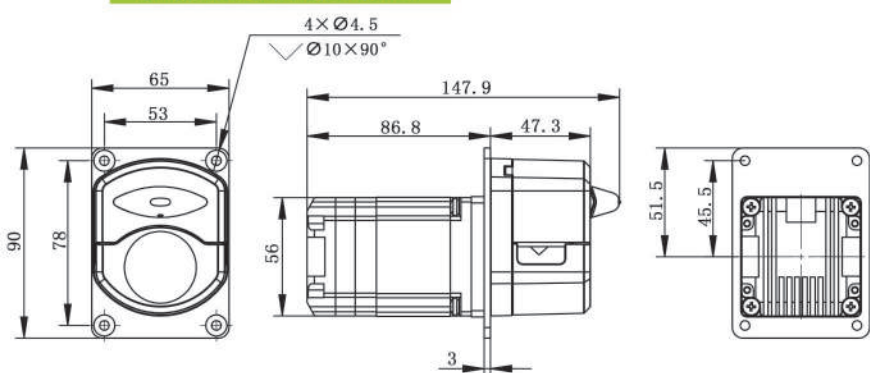
Dimension Drawing(Unit: mm)



### OEM-HYB109(57 stepper motor)



Dimension Drawing(Unit: mm)



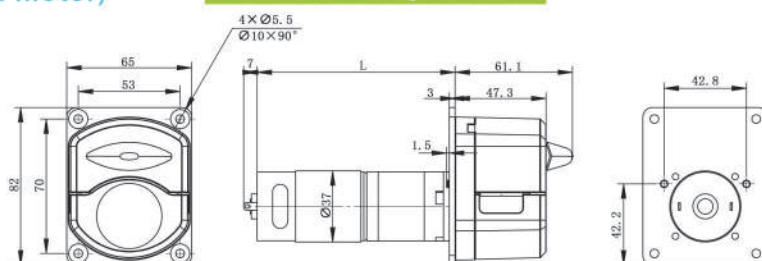
### OEM-HYB019/HYB109 Technical Specifications

Speed range	0.1-300rpm	Power supply	OEM-HYB019: DC24V~DC36V(recommendDC24V), ≥36W; OEM-HYB109: DC24V~DC36V (recommendDC24V), ≥50W;
Flow rate range	0.0033-365.69mL/min		
Motor type	Integrated closed-loop stepper motor	Logic input voltage	DC5V
Speed control	External input pulse frequency signal	Working environment	0-40°C, 80%RH
Subdivisions	1/16 (Default) DIP switch can set a variety of subdivisions		

### OEM-HYXZ Series(DC planetary gear motor)



Dimension Drawing(Unit: mm)



### OEM-HYXZ series Technical Specifications

Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-HYXZ001	37 DC planetary gear motor	DC24V	300	±10%	0-40°C, 80%RH
OEM-HYXZ002			200		
OEM-HYXZ003			100		
OEM-HYXZ101	37 DC planetary gear motor	DC12V	300		
OEM-HYXZ102			200		
OEM-HYXZ103			100		



## Quick Load Pump Head

### YZ35-PPS, YZ35(Aluminum Alloy)



(3 rollers)

#### Model Number

| YZ35-PPS, YZ35(Aluminum Alloy)



#### Product Introduction

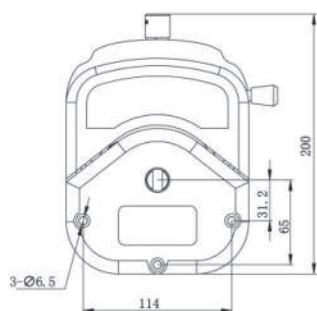
YZ35 pump head with aluminum alloy or PPS housing material. 304 stainless steel rollers assembly achieve high precision transferring liquid. Adaptive tubing cartridge structure makes it more easy to load the tubing.

#### YZ35 Pump Head Tubing Holder Advantages

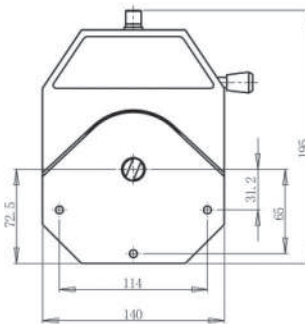
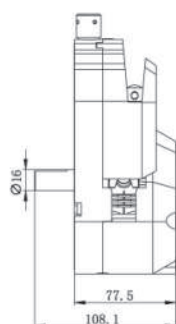
- 01/ Fix the tubing; lower the tubing shaking during working; **improve the stability and accuracy of flow rate.**
- 02/ Prevent the tubing wear, **extend the tubing lifetime.**



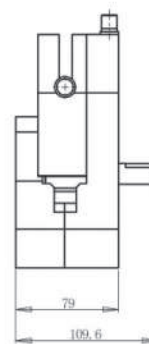
#### Dimension Drawing(Unit: mm)



YZ35-PPS



YZ35-Aluminum Alloy



Experimental conditions: standard atmospheric pressure, room temperature at 20°C, the liquid is pure water, no pressure, no suction and lift.

Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

#### Technical Specifications

Pump Head	Tubing	ID×Wall Thickness(mm)	mL / r	Flow Rate(mL/min) (0.1-600rpm)	Tubing Max. Pressure(Mpa)		Material/Weight(kg)	
					Intermittent	Continuous	Aluminum Alloy	PPS
YZ35	26"	6.4×3.3	6.9	0.69~4200	0.27	0.2	4.36	1.50
	73"	9.6×3.3	12.3	1.23~7400				
	82"	12.7×3.3	20	2~12000	0.14	0.1		

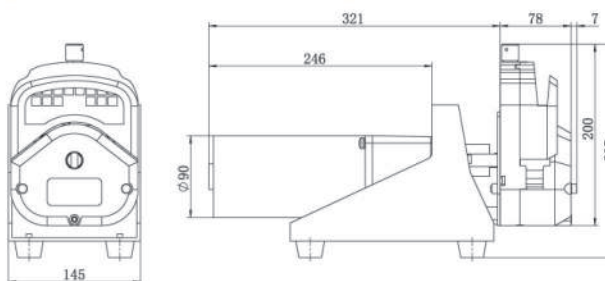


## OEM Product

### Quick Load Pump Head YZ35

#### OEM-Z501/YZ35

Dimension Drawing(Unit: mm)

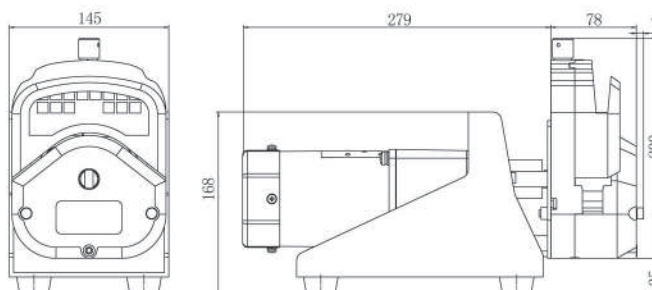


#### OEM-Z501 Technical Specifications

Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-Z501	DC geared motor	DC24V	600	$\leq \pm 10\%$	0-40°C, 80%RH

#### OEM-J401/YZ35

Dimension Drawing(Unit: mm)

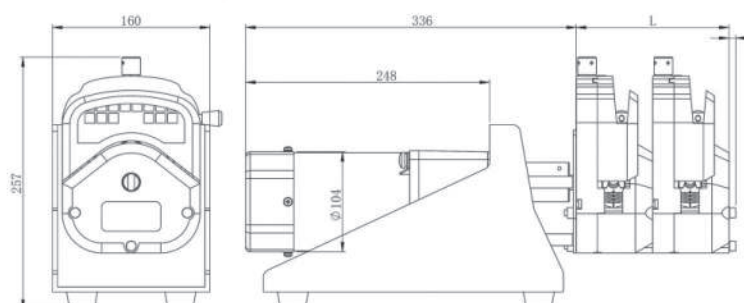


#### OEM-J401 Technical Specifications

Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-J401	AC geared motor	AC220V(standard), AC110V(optional)	450	$\leq \pm 10\%$	0-40°C, 80%RH

#### OEM-JT501/YZ35

Dimension Drawing(Unit: mm)



#### OEM-JT501 Technical Specifications

Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-JT501	AC speed motor	AC220V(standard), AC110V(optional)	45-450	$\leq \pm 10\%$	0-40°C, 80%RH



## Standard Pump Head

SN25, SN15-14, SN15-16



### Product Introduction

Standard pump head with compact structure, exquisite appearance, fixed occlusion and stable running. Can stack several pump heads, and support various equipment.

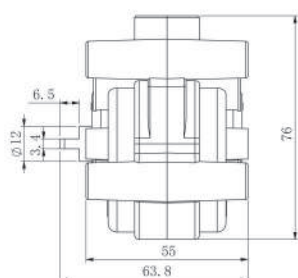
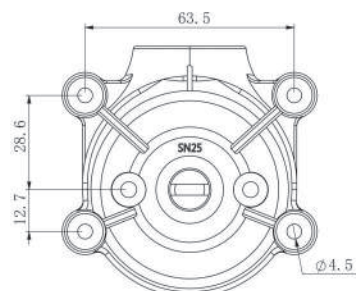
### Model Number

| SN25, SN15-14, SN15-16

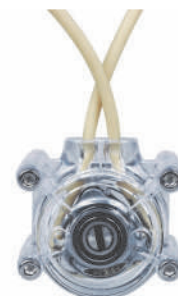
### Typical Application

- | Use in the ice cream machine and coffee making machine
- | Support COD on-line monitor

## Dimension Drawing (Unit: mm)



SN15-14



SN15-16

## Tubing Installation Procedure

A. Disassemble the pump head, and press the tubing on the rollers.



B. Make the tubing go around the rollers one cycle, and merge it on the exit.



C. Tighten the tubing aptly, and load the other half pump head body.



Experimental conditions: standard atmospheric pressure, room temperature at 20°C, the liquid is pure water, no pressure, no suction and lift.

Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

## Technical Specifications

Model No.	Housing Material	Rollers Material	Tubing		Flow Rate (mL/min) (0.1~600rpm)	Weight (kg)
			Tubing sizes	ID x Wall thickness		
SN15-14	PC	304 stainless steel	14"	1.6 x 1.6(mm)	0.024~144	0.20
SN15-16			16"	3.1 x 1.6(mm)	0.088~528	
SN25			24"	6.4 x 2.4(mm)	0.25~1500	



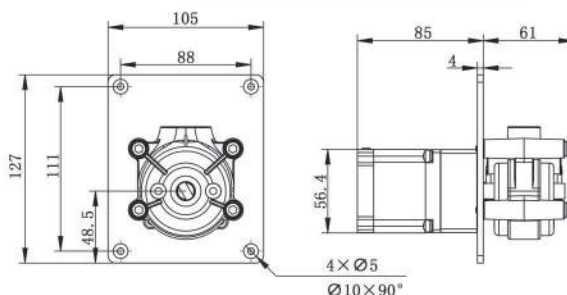
## OEM Product

### Standard Pump Head Series

#### OEM-B255/SN Series



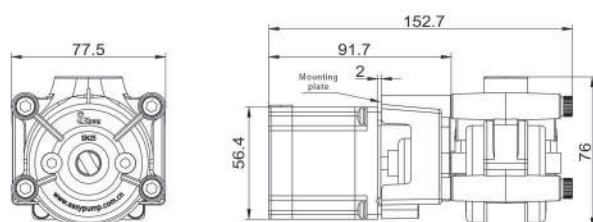
Dimension Drawing(Unit: mm)



Model No.	OEM-B255
Speed range	0.1-600 rpm
Flow rate range	0.024-1500mL/min
Motor type	57 stepper motor
Motor phase number	2
Motor step angle	1.8°
Motor phase voltage	2.7V
Motor phase current	3.0A
Working environment	0-40°C, 80%RH

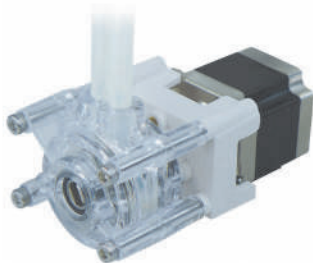


Dimension Drawing(Unit: mm)

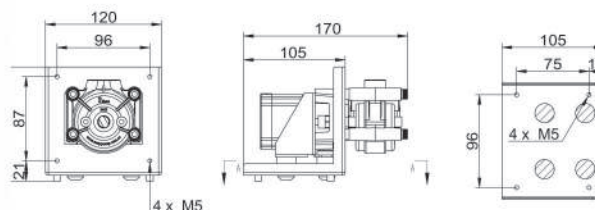


Model No.	OEM-B19
Speed range	0.1-350 rpm
Flow rate range	0.024-875mL/min
Motor type	57 stepper motor
Motor phase number	2
Motor step angle	1.8°
Motor phase voltage	3.3V
Motor phase current	3.0A
Working environment	0-40°C, 80%RH

#### OEM-B11/SN Series

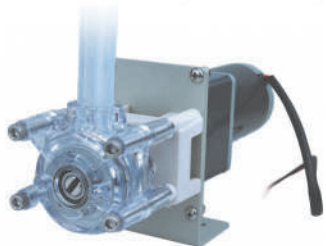


Dimension Drawing(Unit: mm)

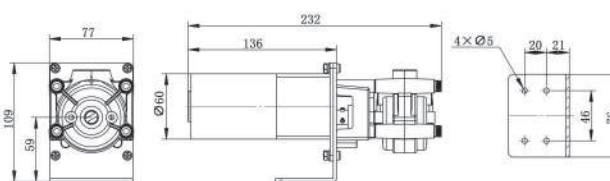


Model No.	OEM-B11
Speed range	0.1-350 rpm
Flow rate range	0.024-875mL/min
Motor type	57 stepper motor
Motor phase number	2
Motor step angle	1.8°
Motor phase voltage	3.3V
Motor phase current	3.0A
Working environment	0-40°C, 80%RH

#### OEM-Z109 (DC motor) /SN Series



Dimension Drawing(Unit: mm)

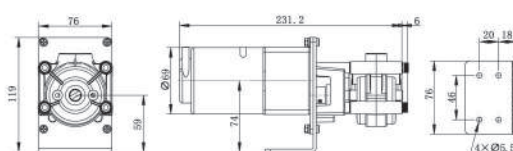


Model No.	OEM-Z109
Mix.flow rate	1500mL/min
Motor type	DC geared motor
Voltage	DC12V
Speed	600rpm
Speed error	±10%
Working environment	0-40°C, 80%RH

#### OEM-JT03 (AC motor) /SN Series



Dimension Drawing(Unit: mm)



Model No.	OEM-JT03
Flow rate	7.2-750mL/min
Motor type	AC speed adjustable motor
Voltage	AC220V(standard) DC110V(optional)
Speed	30-300rpm
Speed error	±10%
Working environment	0-40°C, 80%RH





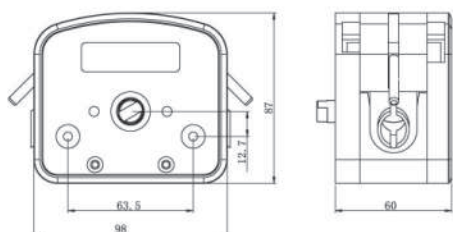
## Fast Load Pump Head

### DZ25-3L,DZ25-6L

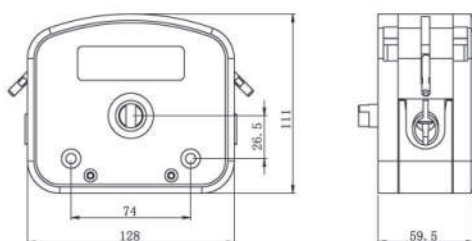


(3 rollers)

### Dimension Drawing(Unit: mm)



DZ25-3L Dimension



DZ25-6L Dimension

### Product Introduction

Easy operation, change tube rapidly. The house material is PPS (polyphenylene sulfite). 304 stainless steel rollers. DZ25 pump head use 2.4mm wall thickness tube, the flow rate range is 0.211-6000mL/min. This pump head is suitable for high viscous liquid which include granule and floc. It also suitable for high pressure request. New cartridge structure design, can use the special connector, connect low cost tubing outside the pump head to save cost; also can use flexible tube clamp, meet hygiene requirement.

### Model Number

DZ25-3L, DZ25-6L(Aluminum Alloy)/(PPS)

### Tubing Installation Procedure

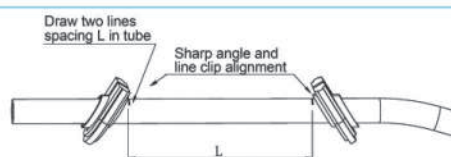
1.Lift both side levers, take off the upper block.



2.Put the tubing with cartridge or connector into pump housing.



3.Install the upper block, put down the levers to lock the block.



Tubing Clamp

DZ25-6L: the tubing length is 125mm between both tubing clamps.  
DZ25-3L: the tubing length is 90mm between both tubing clamps.

Experimental conditions:standard atmospheric pressure, room temperature at 20°C,the liquid is pure water, no pressure, no suction and lift.

Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

### Technical Specifications

Model No.	Housing Material	Tubing Clamp Material	Tubing		Flow Rate (mL/min) (0.1~600rpm)	Weight (kg)
			Tubing Sizes	ID x Wall Thickness		
DZ25-6L	Aluminum alloy/PPS	PP	15"	4.8 x 2.4(mm)	0.3~1800	1.86/0.86
			24"	6.4 x 2.4(mm)	0.55~3300	
			35"	7.9 x 2.4(mm)	0.8~4800	
			36"	9.6 x 2.4(mm)	1~6000	
DZ25-3L	PPS	PP	15"	4.8 x 2.4(mm)	0.211~1264	0.5
			24"	6.4 x 2.4(mm)	0.385~2310	
			35"	7.9 x 2.4(mm)	0.508~3050	
			36"	9.6 x 2.4(mm)	0.6~3600	

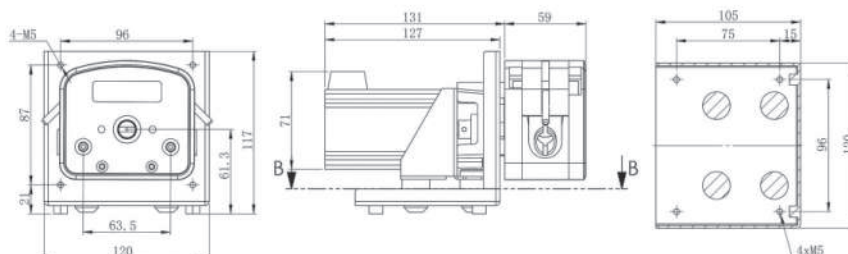


## OEM Product

### Fast Load Pump Head DZ25-3L(PPS)

#### OEM-B501/DZ25-3L

Dimension Drawing(Unit: mm)

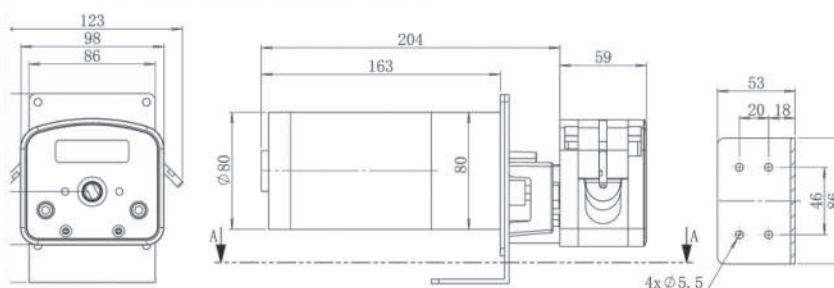


#### OEM-B501 Technical Specifications

Speed range	0.1-600 rpm	External control start and stop	Switch signal (default 5V)
Speed control	Digital knob(Optional)	External control speed	0-5V, 4-20mA(standard), 0-10V(optional)
Display	OLED(Optional)	Communication interface	RS485(Modbus protocol, RTU mode)
Control method	Toggle switch control start and stop, direction (optional)	Motor type	57 Closed-loop stepper motor
		Voltage	DC24V/1A(mainboard) DC36V/3A(driver)

#### OEM-Z402/DZ25-3L(DC motor)

Dimension Drawing(Unit: mm)

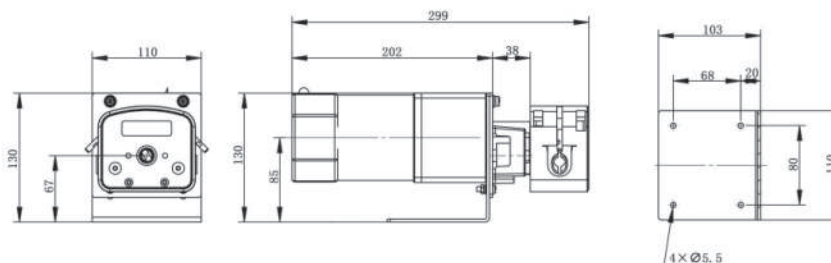


#### OEM-Z402 Technical Specifications

Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-Z402	DC geared motor	DC24V	600	±10%	0-40°C, 80%RH

#### OEM-JT12/DZ25-3L(AC speed motor)

Dimension Drawing(Unit: mm)



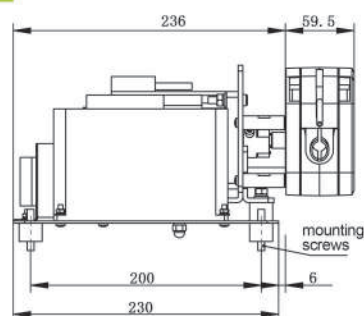
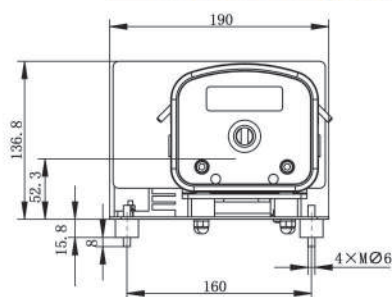
#### OEM-JT12 Technical Specifications

Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-JT12	AC speed motor	AC220V(standard), AC110V(optional)	43-430	±10%	0-40°C, 80%RH



## OEM-B504/DZ25-6L

Dimension Drawing(Unit: mm)

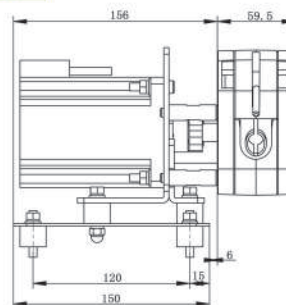
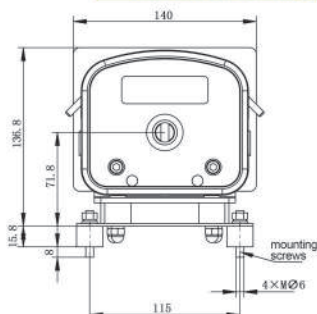


### OEM-B504 Technical Specifications

Speed range	0.1-600 rpm	Logic input voltage	5V
Flow rate range	0.3-6000mL/min	Motor type	Closed-loop stepper motor
Speed control	External input pulse frequency speed control	Power supply	AC220V(standard), AC110V(optional)
Subdivision settings	200-51200(Pulse response frequency maximum 200KHZ)	Working environment	0-40°C, 80%RH

## OEM-B508/DZ25-6L

Dimension Drawing(Unit: mm)

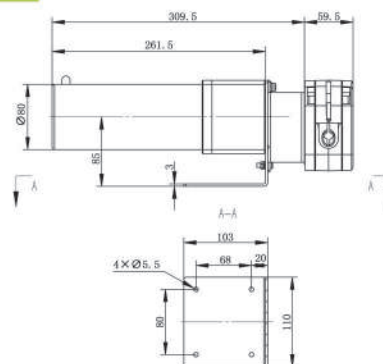
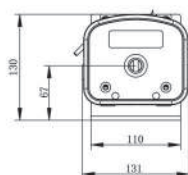


### OEM-B508 Technical Specifications

Speed range	0.1-600 rpm	Motor phase voltage	2V
Flow rate range	0.3-6000mL/min	Motor phase current	4.0A
Motor type	Closed-loop stepper motor	Encoder power	5V
Motor phase number	2	Working environment	0-40°C, 80%RH
Motor step angle	1.8°		

## OEM-Z506/DZ25-6L

Dimension Drawing(Unit: mm)



### OEM-Z506 Technical Specifications

Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-Z506	DC geared motor	DC24V	350	≤±10%	0-40°C, 80%RH



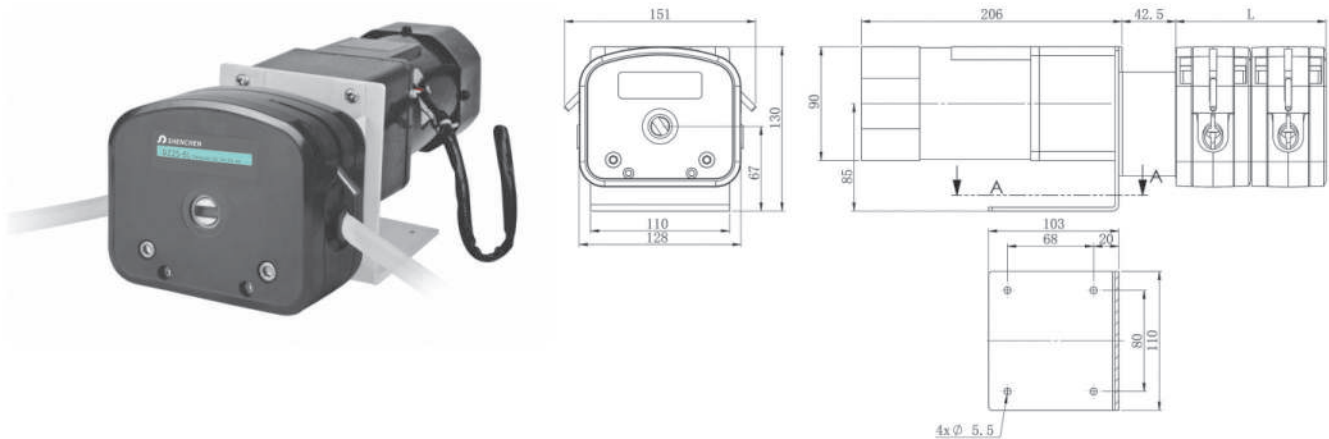
## OEM Product

### Fast Load Pump Head DZ25-6L(PPS)

#### OEM-J402/DZ25-6L(AC motor)

Dimension Drawing(Unit: mm)

Number of pump heads	L/mm
1	59.5
2	119

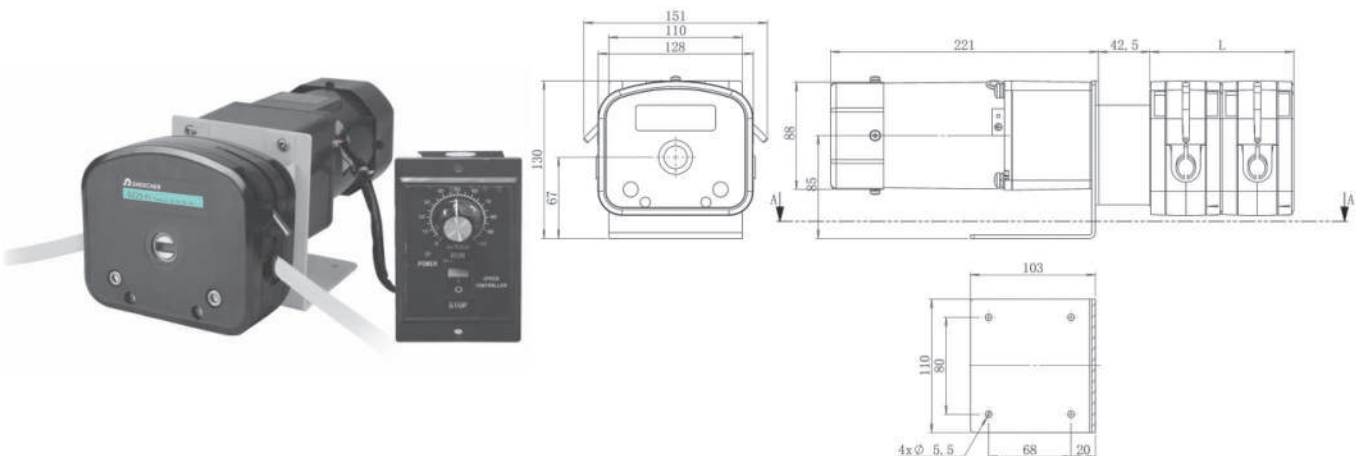


#### OEM-J402 Technical Specifications

Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-J402	AC geared motor	AC220V/AC110V	450	$\leq \pm 10\%$	0-40°C, 80%RH

#### OEM-JT407/DZ25-6L(AC speed motor)

Dimension Drawing(Unit: mm)



#### OEM-JT407 Technical Specifications

Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-JT407	AC speed adjustable motor	AC220V/AC110V	45-450	$\leq \pm 10\%$	0-40°C, 80%RH



## Low Pulsation Pump Head

DY15, DY25



(2\*6 rollers)

### Product Introduction

The 'low pulsation' pump head is specialized for high precision filling. Through the phase difference between the two sets of rollers, make the pulse crest and trough complementary, reducing the fluid pulsation effectively, reach high precision liquid transferring.

### Model Number

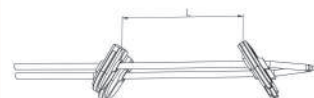
| DY15, DY25

### Typical Application

High precision dosing micro liquid.

"Y" connector and tubing cartridge schematic diagram

The tubing length is 125mm between two cartridges



### Tubing Installation Procedure

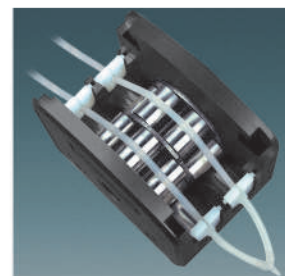
1. Lift both side levers, take off the upper block.



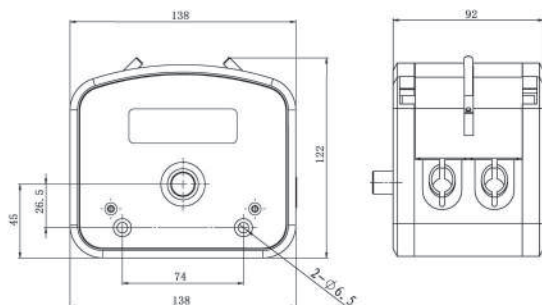
2. Put the tubing with tubing clamp into pump housing.



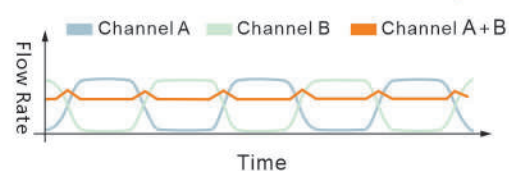
3. Install the upper block, put down the levers to lock the block.



### Dimension Drawing (Unit: mm)



### Pulsation Reduction Schematic Diagram



Experimental conditions: standard atmospheric pressure, room temperature at 20°C, the liquid is pure water, no pressure, no suction and lift.

Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

### Technical Specifications

Model No.	Housing Material	Tubing Clamp Material	Tubing		Flow Rate (mL/min) (0.1~350rpm)	Weight (kg)
			Tubing Sizes	ID x Wall Thickness		
DY15	Aluminum alloy	PP	13"	0.8 x 1.6(mm)	0.01~48	3.2
			14"	1.6 x 1.6(mm)	0.06~223	
			19"	2.4 x 1.6(mm)	0.13~448	
			16"	3.1 x 1.6(mm)	0.2~723	
			25"	4.8 x 1.6(mm)	0.47~1626	
			17"	6.4 x 1.6(mm)	0.64~2230	
DY25	Aluminum alloy	PP	18"	7.9 x 1.6(mm)	0.95~3337	
			15"	4.8 x 2.4(mm)	0.42~1480	
			24"	6.4 x 2.4(mm)	0.76~2670	
			35"	7.9 x 2.4(mm)	1~3600	
			36"	9.6 x 2.4(mm)	1.24~4340	



## Planetary Gear Type Industrial Pump Head

### DZ45



#### Product Introduction

DZ45 pump head, aluminum alloy shell, 304 stainless steel roller assembly. Four rollers design, low pulsation. Planetary gear roller, driven rotor.

#### Product Features

- Long service life of tube: The rollers of the planetary gears are powered by self-transmission, rolling friction with the tube, extending the service life of the tube.
- High torque, shock resistant: Planetary gears have multiple contact surfaces, multiple gear surfaces receive shock loads evenly across 360°, make the load on each gear smaller and can accept higher torque shock.
- Running smoothly: The unique multi-point uniform fit in planetary gear combinations, and our company's gear processing technology is fine grinding, can achieve higher precision positioning and make it run smoothly.

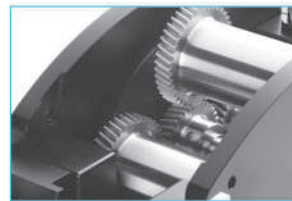


DZ45-I

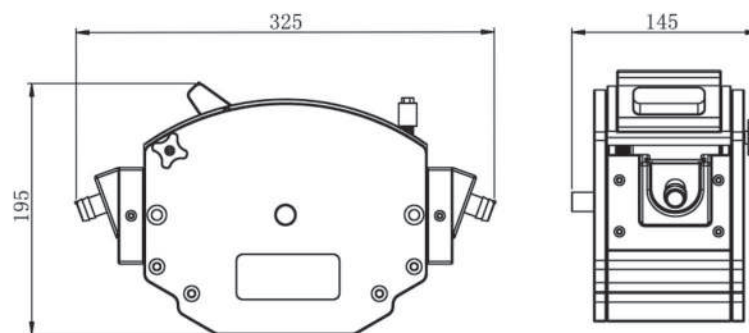


DZ45-II

#### Roller Components



### Dimension Drawing (Unit: mm)



### Technical Specifications

Pump Head	Housing Material	Tube Clamp Material	Tubing		Speed (rpm)	mL/r	Flow Rate (mL/min)	Weight (kg)
			Size	IDxWall Thickness				
DZ45	Aluminum alloy	Polyamide	193#	9.6x4.8	0.1-300	0.019	0.0019-5.66	10
			88#	12.7x4.8		0.035	0.0035-10.5	
			189#	15.9x4.8		0.047	0.0047-13.98	
			191#	19.4x4.8		0.063	0.0063-18.78	
			92#	25.4x4.8	0.1-270	0.104	0.0104-28.15	





## OEM Product

### DC Motor OEM

OEM-Z Series						
Model No.	Pump head	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-Z109	EasyPump Series, AMC Series SN Series	Φ60 DC motor	DC12V	600	± 10%	0-40°C, 80%RH
OEM-Z205		Φ70DC motor	DC12V	300		
OEM-Z208		Φ70 DC motor	DC12V	600		
OEM-Z216		Φ70 DC motor	DC12V	450		
OEM-Z218		Φ70 DC motor	DC12V	600		
OEM-Z402	DZ25-3L	Φ80 DC motor	DC12V	600		
OEM-Z501	YZ35	Φ90 DC motor	DC12V	600		
OEM-Z502		Φ90 DC motor		600		
OEM-Z503		Φ90 DC motor		240		
OEM-Z506	DZ25-6L	Φ90 DC motor	DC12V	350		
OEM-Z504		Φ90 DC motor		600		
OEM-Z505		Φ90 DC motor		460		

### AC Motor OEM

OEM-J Series						
Model No.	Pump head	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-J013	EasyPump Series, AMC Series SN Series	Φ70 AC motor	AC220V(standard), AC110V(optional)	417	± 10%	0-40°C, 80%RH
OEM-J022		Φ90 AC motor		430		
OEM-J024		3 phase AC motor		430		
OEM-J026		3 phase AC motor		430		
OEM-J027		3 phase AC motor		70		
OEM-J402	DZ25-6L	Φ90 AC motor		450		
OEM-J401	YZ35	Φ90 AC motor		450		

OEM-JT Series						
Model No.	Pump head	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-JT03	EasyPump Series, AMC Series SN Series	Φ70 AC motor	AC220V(standard), AC110V(optional)	30-300	± 10%	0-40°C, 80%RH
OEM-JT08		Φ90 AC motor		43-430		
OEM-JT12		Φ90 AC motor		43-430		
OEM-JT402		Φ90 AC motor		45-450		
OEM-JT406		Φ90 AC motor		45-450		
OEM-JT407	DZ25-6L	Φ90 AC motor		45-450		
OEM-JT501	YZ35	Φ104 AC motor		45-450		
OEM-JT502		Φ104 AC motor		45-450		

Tubing & Flow Rate		
Pump Head	Tubing	Flow Rate ( mL/min )
EasyPump Series	13", 14", 19", 16", 25", 17", 18"	<2580
	15", 24", 35", 36"	<3100
AMC Series	ID: 0.13-3mm Wall thickness: 0.8-1mm	<65.17
SN Series	14", 16", 24"	<1500
DZ25-3L	15", 24", 35", 36"	<3600
DZ25-6L	15", 24", 35", 36"	<6000
YZ35	26", 73", 82"	<12000


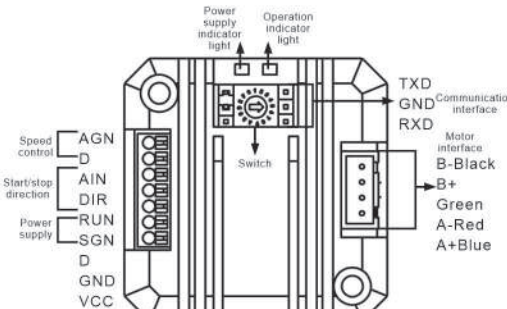

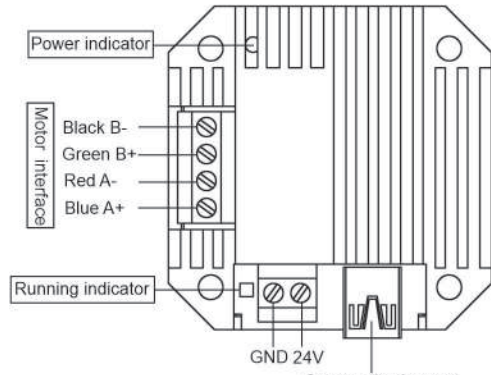

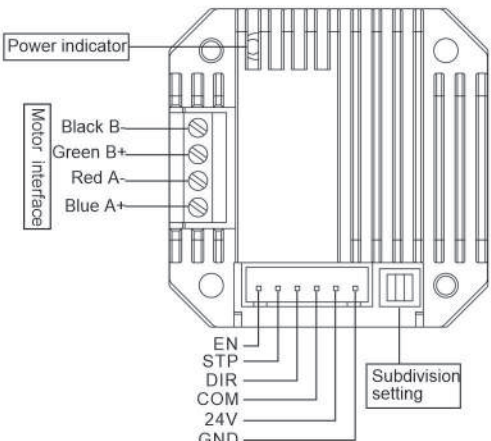


## OEM Product

### Integrated Drive Module(42 stepper motor)


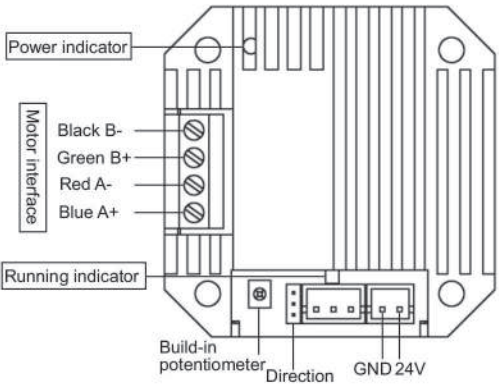
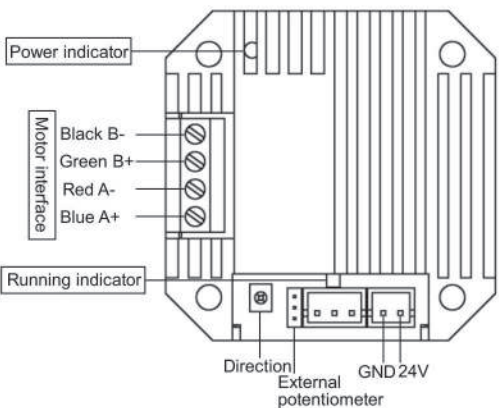

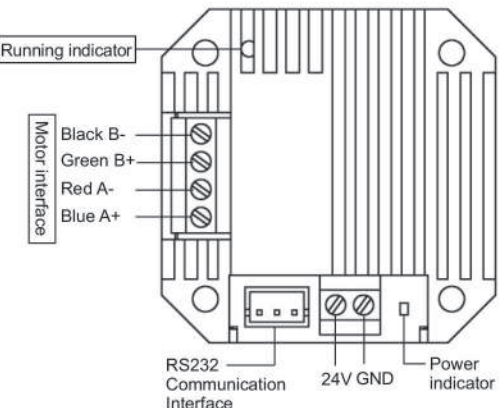
#### Technical Specifications

Suitable motor	35 stepper motor, 42-40 and 42-60 stepper motor	Output motor current	0.5-1.6A
		Power supply	DC24-36V(DC24V recommended)
Max. Speed	150rpm,300rpm,350rpm,400rpm optional	Working environment	0-40℃, 80%RH

Product	Model No.	Functions	Wiring Diagram
 <p>(Maximum speed can be adjusted through PC software)</p>	M42Q/0-5V	Start/stop control: Passive switch signal control start/stop. Speed control: External input analog signal 0-5V; Internal dip switch fixed speed	
	M42Q/0-10V	Start/stop control: Passive switch signal control start/stop. Speed control: External input analog signal 0-10V; Internal dip switch fixed speed	
	M42Q/4-20mA	Start/stop control: Passive switch signal control start/stop. Speed control: External input analog signal 4-20mA; Internal dip switch fixed speed	
 <p>M42/USB</p>	M42USB	Speed control: Preset speed or adjust the speed through USB communication port. Built-in EEPROM can save the setting speed.	
 <p>M42/PULSE</p>	M42/PULSE	Speed control: External input pulse frequency Control mode: support common cathode, common anode wiring mode Subdivision setting: 1/16(recommend), 1, 1/2, 1/4, 1/8, 1/32, 1/64, 1/128 Logic input voltage: 3.3V-24V	


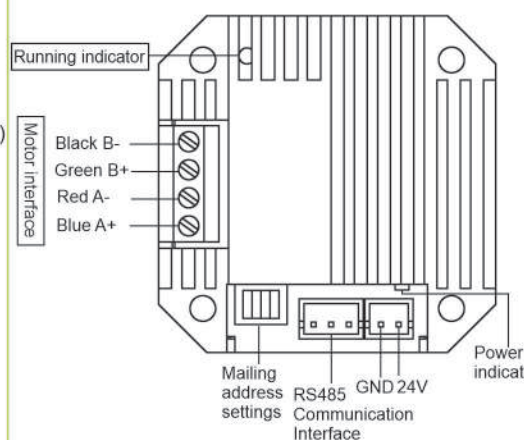


## OEM Product

Product	Model No.	Functions	Wiring Diagram
 <p>M42/RP M42/RP-A</p>	M42/RP	Speed control: Built-in potentiometer control speed	
	M42RP-A	Speed control: External potentiometer control speed	
 <p>M42/RS232</p>	M42/RS232	Speed control: RS232(Modbus protocol) Built-in EEPROM can save the setting speed	


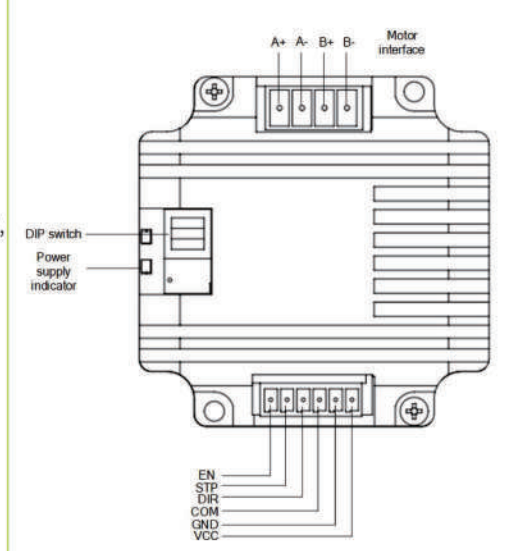


## OEM Product

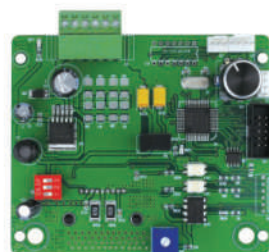
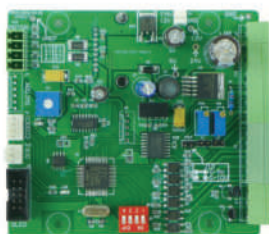
Product	Model No.	Functions	Wiring Diagram
 <p>M42/RS485</p>	M42/RS485	<p>Speed control: RS485(Modbus protocol)</p> <p>Built-in EEPROM can save the setting speed</p>	

### Integrated Drive Module(57 stepper motor)

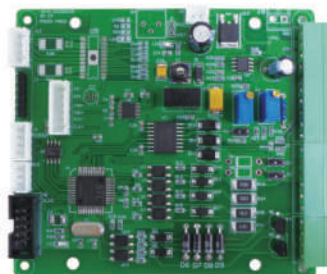
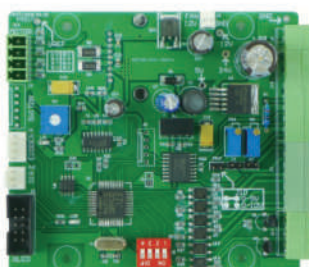
Technical Specifications			
Suitable motor	57 stepper motor	Output motor current	2-4.5A
		Power supply	DC24V
Speed range	0.1-600rpm	Working environment	0-40°C, 80%RH

Product	Model No.	Functions	Wiring Diagram
 <p>M57Pulse</p>	M57Pulse	<p>Speed control: Internal constant speed or external input pulse frequency control (common cathode/common anode)</p> <p>Subdivision setting: 1/16 (Recommended), 1/8, 1/32, 1/64</p> <p>Power supply: DC24V-DC36V (DC24V recommended), <math>\geq 80W</math></p> <p>Logic input voltage: 5V-24V</p> <p>Working environment: 0-40°C, <math>\leq 80\% RH</math></p>	

## Control Board For OEM Product



PD03 Main board technical specification		PMD07 Main board technical specification	
Speed range	0.1–350 rpm	Speed range	0.1–350 rpm
Speed control	Pulse frequency speed control	Display(optional)	0.96" OLED screen
Logic input voltage	5V, 12V, 24V(default 5V)	Speed control	Preset speed or manual control
Multiple segments	1/16(recommend), 1, 1/2, 1/4, 1/8, 1/32 1/64, 1/128	Control mode	External passive signal level (normally closed or open) mode; control the start/stop and direction
Input voltage	DC 24V	Input voltage	DC 24V
Power	< 60W	Power	< 60W
Dimension (L*W)	98.48 × 82.68 mm	Dimension (L*W)	98.48 × 82.68 mm



PMD17 Mainboard technical specification		PM29 Mainboard technical specification	
Speed range	0.1-350 rpm(optional)	Speed range	0.1-600rpm(optional)
Flow rate range	0.000067-1330mL/min	Speed resolution	0.1rpm
Speed resolution	0.1rpm	Display(optional)	OLED screen(optional)
Display	0.96" OLED screen(optional)	Control mode	Membrane keypad/Toggle switch
Speed control	Preset speed or membrane keypad speed control (optional)	Speed control(optional)	Preset speed or membrane keypad speed control (optional)
Control mode	Digital knob and toggle switch	External control speed	0-5V, 4-20mA(standard), 0-10V (optional)
External control	Start/stop;Active switch signal: 5V (standard)	Communication interface	RS485 support Modbus protocol (RTU mode)
Communication interface	RS485 support Modbus protocol (RTU mode)	External control	Start/stop,change direction signal ; Passive switch signal
External control speed	0-5V, 4-20mA(standard), 0-10V (optional)	Motor type	57 stepper motor
Motor type	57 stepper motor	Voltage	DC24V, ≥48W
Input voltage	DC 24V	Working environment	0-40°C, 80%RH
Power	<60W		

## Peristaltic Pump Accessories

### A Filling Nozzle

Name	Material	Picture
Reducer anti-splash filling nozzle	SS316	
Flat filling nozzle	SS304/316	

### B One Way Checkvalve



Avoid liquid drop off after filling and transferring.

### C Filling Countersunk



Used for the output of tube, preventing the tube floating or absorbing the wall of container.

Name	Material	Tube
Counter sunk	304/316 stainless steel	13", 14", 19", 16", 25", 17", 18", 15", 24", 35", 36", 26", 73", 82"










### D Fluid Pulse Damper



Special design for peristaltic pump, effectively suppress the peristaltic pump pulsation and improve the flow rate accuracy. The pulsation suppression rate can reach more than 95%.

### E Handling Dispenser



Filling nozzle and tubing cap			
Filling nozzle size	13"	14"	19"
Inner diameter	3mm	3.5mm	4.5mm
Picture			
Filling nozzle size	16"	15"/25"	17"/24"
Inner diameter	5mm	7mm	9mm
Picture			
Tubing size	17"	18"	Plum blossom cap
Inner diameter	9.6mm	11.1mm	
Picture			

Based on ergonomics design, elegant appearance, grip feeling comfortable, easy operation. Connect to peristaltic pump external control interface, with start/stop and full speed control, can realize transferring and dispensing function. Power supply and working indicator, show the dispenser working status. With hanging hole, can be hang up when do not use.

### F Foot Pedal Switch



Control the pump start/stop with foot pedal switch.





## G Tube Connector



a Straight tube connector



b "Y" tube connector



c Tee tube connector



d Reducer tube connector



e "L" tube connector



f Flexible/Hard tube connector

## H PH Controller



Work with peristaltic pump, can control the liquid PH value, add acid or alkali automatically.

Function:

1. Liquid: Acid-Base Solutions
2. PH value : 0-14PH
3. Set up target PH value
4. Add acid or alkali liquid automaticall
5. Control: RS485 , 4-20mA
6. Power supply: DC24V (AC220V for option)
7. Suitable temperature: 0-60℃

## I 5V Sensor



When applied in the dispensing line, it can detect whether there is filling bottle in the production line. When the bottle approach the sensor side, the switch action will be made without any mechanical contact or pressure, thereby providing filling control order to the pump. In the same way, when no filling bottle is detected, the stop filling control order is provided to the pump.

## J Benchtop Tubing Cutter



Stainless steel blade, makes right-angle cuts in several sizes of plastic tubing.

## K Support Stand



The multiple filling stand is suitable for more than 2 channels filling. It can hold 2-8 filling nozzles. We can customize the suitable one according to your request.



## Peristaltic Pump Tubing

### Silicone Tubing

- Platinum-Cured Silicone Tubing
- Slightly clarity, smooth surface, low protein binding levels, fewer potential leachable.
- Ideal for pharmaceutical and biotechnology use, suitable temperature range  $-51 \sim 238^{\circ}\text{C}$ .

Micro Flow Rate Tubing										
Tubing Size	0.13×0.86	0.5×0.86	0.86×0.86	1.52×0.86	2.06×0.86	2.79×0.86	1×1	2×1	3×1	2.4×0.8
Tubing cross sections (1:1)										
Wall thickness (mm)	0.86						1.0			0.8
Inside diameter (mm)	0.13	0.5	0.86	1.52	2.06	2.79	1.0	2.0	3.0	2.4
Maximum pressure (Mpa)	Continuous									
	Intermittent									

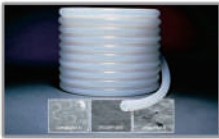




Basic Flow Rate Tubing											
Tubing Size	13"	14"	19"	16"	25"	17"	18"	15"	24"	35"	36"
Tubing cross sections (1:1)											
Wall thickness	1.6							2.4			
	1/16							3/32			
Inside diameter	mm	0.8	1.6	2.4	3.2	4.8	6.4	7.9	4.8	6.4	7.9
	inch	1/32	1/16	3/32	1/8	3/16	1/4	5/16	3/16	1/4	5/16
Maximum pressure (Mpa)	Continuous				0.17	0.14	0.1	0.07	0.17		0.14
	Intermittent				0.27	0.24	0.14	0.1	0.27		0.24

Industrial Tubing							
Tubing Size	26"	73"	82"	86"	90"	88"	92"
Tubing cross sections (1:1)							
Wall thickness	3.3			6.4		4.8	
	1/8			1/4		3/16	
Inside diameter	mm	6.4	9.6	12.7	9.5	19	12.7
	inch	1/4	3/8	1/2	3/8	3/4	1/2
Maximum pressure (Mpa)	Continuous				0.25		
	Intermittent				0.3		






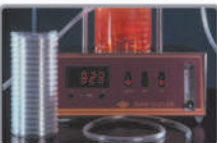

## Peristaltic Pump Tubing

SAINT-GOBAIN Tubing: Tygon, PharMed BPT, Norprene etc

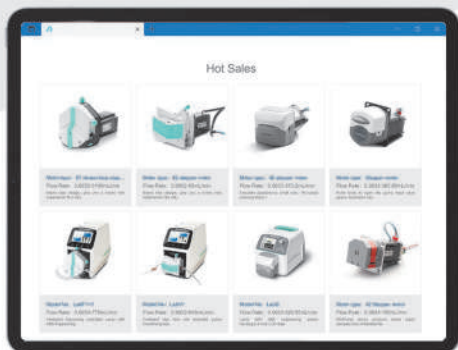
	<b>A</b> Tygon3350	<b>B</b> Tygon E-3603	<b>C</b> Norprene Chemical	<b>D</b> PharMed	<b>E</b> Norprene A-60-F
					
Formulation	Tygon3350	Tygon R-3603	Norprene Chemical	PharMed	Norprene A-60-F
Application	Pharmaceutical, cosmetic, medical and auto-analysis application.	General laboratory, food & beverage, biopharmaceutical, analytical instruments.	Excellent for chemical processing and general industrial applications. Food and beverage applications where extractables are a concern.	Cell and tissue culture work and pharmaceutical uses. Also good for light-sensitive samples.	Ideal for the food, dairy and beverage.
Advantages	Ultra-smooth; minimizes bacterial growth. Good for mild to medium concentration bases, salts and alcohols; odorless, tasteless, and nontoxic. Transparent.	Inexpensive tubing for general lab application. Nonaging, nonoxidizing. Clear for easy flow monitoring. Handles virtually all inorganic chemicals. Low gas permeability. Smooth bore; good for viscous fluids. High dielectric constant.	Norprene thermoplastic elastomer outer jacket with chemically inert Tygon® 2075 inner bore for excellent chemical resistance. Plasticizer-free to guard against extractables. Long flex life. Opaque beige.	Great for tissue and cell work-nontoxic and nonhemolytic; long service life minimizes risk of fluid exposure; reduces tubing costs and pump downtime. Opaque to UV and visible light to protect light-sensitive fluids. Heat sealable, bondable, and formable. Extremely low gas permeability.	Heat, ozone, and UV light resistant. Nonaging; nonoxidizing; superior acid and alkali resistance. Opaque beige.
Application Suitability	—————	ACIDS      GOOD ALKALIES      GOOD ORGANIC SOLVENTS      NO PRESSURE      GOOD VACUUM      GOOD VISCOUS FLUIDS      EXCELLENT STERILE FLUIDS      GOOD	—————	ACIDS      GOOD ALKALIES      GOOD ORGANIC SOLVENTS      NO PRESSURE      GOOD VACUUM      EXCELLENT VISCOUS FLUIDS      GOOD STERILE FLUIDS      EXCELLENT	—————
Physical characteristics	—————	Thermoplastic. PVC-based material with plasticizer. Firm (stiff) material. Transparent, clear.	—————	Thermoplastic elastomer. Polypropylene-based material with USP mineral oil. Excellent tensile strength. Firm (stiff) material. Opaque, beige.	—————
Temp. range	-75 to 450° F (-60~232° C)	-58 to 165° F (-50~74° C)	-76 to 165° F (-60~74° C)	-60 to 270° F (-59~135° C)	-60 to 275° F (-51~135° C)
Meets classifications	FDA 21 CFR 177.2600 USP Class VI EP 3.1.9. Exceeds 3A standards Manufactured according to GMP.	FDA 21 CFR 175.300	None.	None.	FDA 21 CFR 177.2600 NSF listed (Standard 51) Manufactured according to GMP.
Cleaning/ Sterilization	Ethylene oxide gamma irradiation, or autoclave for 30 min, 15psi (1 bar).	Unaffected by commercial sanitizers (with recommended procedures). Sterilize with ethylene oxide (ETO) or autoclave. To autoclave: Coil loosely in nonlinting cloth or paper, autoclave at 121°C (250°F). 1KG/cm² (15psi) for 30 minutes (tubing will appear milky); air dry at max 66°C (150°F) for 2 to 2 ½ hours until clear.	Sterilize with ethylene oxide (ETO), autoclave or gamma irradiation up to 2.5Mrad. Repeated autoclaving will not affect overall life.	Autoclave, ethylene oxide, or gamma irradiation.	Autoclave.



## Peristaltic Pump Tubing

	<b>F</b> Norprene A-60-G 	<b>G</b> Tygon F-4040-A 	<b>H</b> Tygon LFL 	<b>I</b> TYGON 2475 	<b>K</b> Viton 
Formulation	Norprene A-60-G	Tygon F-4040-A	Tygon LFL	TYGON 2475	Viton
Application	For applications requiring excellent chemical, heat, ozone, and ultra-violet (UV) light resistance.	Fuels and industrial lubricants-gasoline, kerosene, heating oils, cutting compounds, and glycol-based coolants. Resists most hydrocarbons.	General laboratory use, provides longer life with peristaltic tubing pumps.	Sensitive fluid transfer applications requiring high purity.	Acid and solvent transfer, high-temperature.
Advantages	Best choice for vacuum/pressure applications. Offers longest life with good flow consistency. Heat and ambient ozone resistant. Good resistance to acids/alkalies. Black color hides dirt and dust. Heat sealable, nonaging, and nonoxidizing. High dielectric constant.	Resists embrittlement and swelling, ozone-and UV-resistant, with low-extractability. Translucent yellow.	Longest life of all Tygon® peristaltic tubing (1000hrs). Nonaging, nonoxidizing. Clear for easy flow monitoring. Broad chemical resistance; low gas permeability. Smooth bore. Good for viscous fluids. High dielectric constant.	Plasticizer free, smooth inner surface (inhibits particulate buildup and bacterial growth), safely disposed of through incineration and nontoxic. Transparent.	The most chemical resistant tubing. Resistant to corrosives, solvents, and oils at elevated temperatures. Low gas permeability.
Application Suitability	ACIDS      GOOD ALKALIES      GOOD ORGANIC SOLVENTS      NO PRESSURE      EXCELLENT VACUUM      EXCELLENT VISCOUS FLUIDS      EXCELLENT STERILE FLUIDS      NO	—————	ACIDS      GOOD ALKALIES      GOOD ORGANIC SOLVENTS      NO PRESSURE      GOOD VACUUM      GOOD VISCOUS FLUIDS      EXCELLENT STERILE FLUIDS      POOR	—————	ACIDS      EXCELLENT ALKALIES      EXCELLENT ORGANIC SOLVENTS      EXCELLENT PRESSURE      GOOD VACUUM      GOOD VISCOUS FLUIDS      GOOD STERILE FLUIDS      FAIR
Physical characteristics	Thermoplastic elastomer. Polypropylene-based material with USP mineral oil. Excellent tensile strength. Firm (stiff) material. Opaque, black. Manufactured according to GMP.	—————	Thermoplastic. PVC-based material with plasticizer. Firm (stiff) material. Transparent, clear.	—————	Thermal set rubber. Viton B (67% fluorine) Firm (stiff) material Opaque, black. Manufactured according to GMP.
Temp. range	-60 to 270° F (-59~135° C)	-35 to 165° F (-37~74° C)	-58 to 165° F (-50~74° C)	-94 to 125° F (-70~52° C)	-25 to 400° F (-32~205° C)
Meets classifications	None.	Meets NSF-51 and 3A sanitary standards.	USP Class VI, FDA 21 CFR 175.300	FDA 21 CFR 177.1520, USP 23 Class VI, Manufactured according to GMP.	None.
Cleaning/ Sterilization	Sterilize by autoclave only.	Not recommended.	Sterilize by ETO/autoclave. Coil loosely in nonlinting cloth or paper; autoclave at 250°F(121°C), 15 psi (1kg/cm²), 30 minutes (tubing will appear milky); air dry at max 150°F (66°C) for 2 to 2 ½ hrs until clear.	Ethylene oxide or gamma irradiation.	Sterilization is not recommended.





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Our experienced team of professional engineers can provide you with products and technical solutions for your needs

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**[www.innofluid.com](http://www.innofluid.com)**



OFFICIAL WEBSITE

**Innofluid Co.,Ltd.**

Building 10, No. 860, Xinyang Road, Lingang New Area  
Pilot Free Trade Zone, Shanghai, China.

Website: [www.innofluid.com](http://www.innofluid.com)

Email: [info@innofluid.com](mailto:info@innofluid.com)