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SHENCHEN

Pump Equipment Line

Shenchen Pump

Peristaltic Pump | Pump Head & OEM

Exported to 106 countries

REVODIX
레보딕스(주)

Catalog No. PUMP-C8-2

Peristaltic Pump

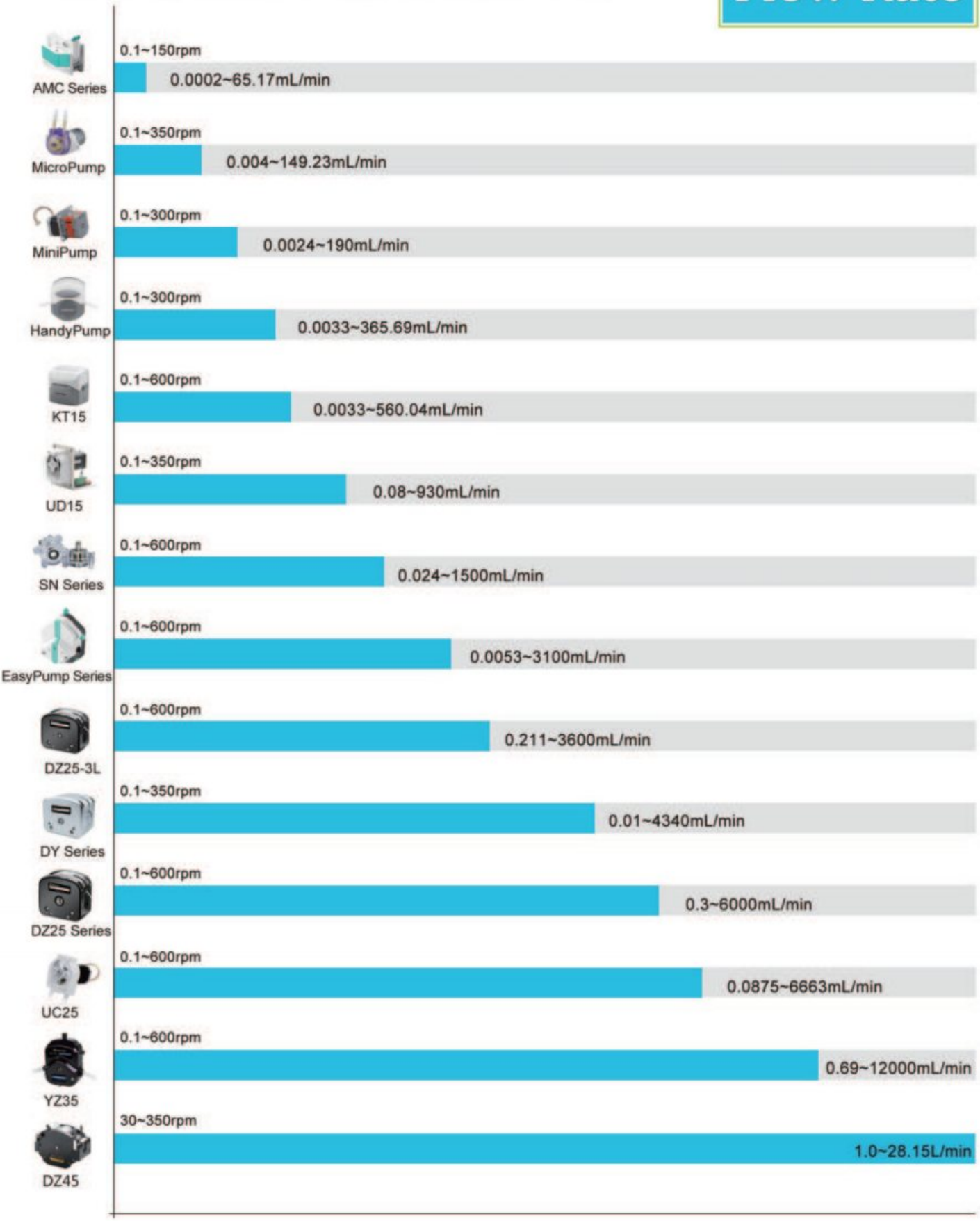


Pump Head & OEM



SHENCHEN

Pump Head
Flow Rate



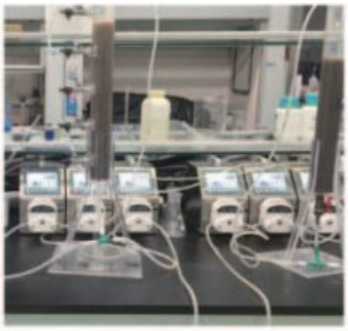
Peristaltic Pump

APPLICATION

Laboratory chemical dosing

Analytical instrument sampling

Waste water treatment



Chromatography

Cosmetic filling

Pharmaceutical filling

Food & beverage filling

Diagnostic reagents filling

What is ODM

ODM (Original Design Manufacturer)

- Peristaltic pump core technology
- ODM System Solutions
- User–defined work mode

PROBLEMS

Conventional products can't be solved

Adding in order | Different flow rate | Different reagents | Complicated process

Various combinations

Time and labor costing | Error-prone

How to solve the problems?

ODM provides system solutions for you.

1 Analyze problem 2 Design solution 3 Design ODM product

Our advantages

CUSTOMIZED	Professional engineer offer one to one customized service.
EXPERIENCE	16 years of fluid transmission.
TECHNOLOGY	Peristaltic pump technology research center.

ODM Application

01 Printing and Dyeing Industry

Pigment accurate allocation, use several different pump heads to allocate different colors of pigment.

02 Pharmaceutical Industry

Filling one bottle with several times during filling process to prevent foaming.

03 Reagent Dispensing

It can fill a variety of different liquids in same time. About 5000-6000 pcs 96 deep well plates can be filled every day.

04 Fermentor Supporting

Peristaltic pump used in fermentor supporting, 4 Handypump head used for adding acid, alkali, antifoaming agents and nutritional agents. The Lab series pump used for waste discharge.

05 Ink Cartridge Filling

30 channels peristaltic pump filling 30 ink cartridges in same time, high accuracy and high efficiency.

Nucleic acid detection reagent dispensing system

INTRODUCTION

This product is an intelligent platform for automatic separation of nucleic acid detection reagents. It has achieved high precision automatic batch production of reagents.

FEATURES

1. 8 different reagents are packed in unequal or equal amounts.
2. Up to 0.5% packing accuracy.
3. 7 inch industrial true color LCD touch screen operation, man-machine interface is friendly, can store more than a group of commonly used work mode, simple and convenient.
4. The utility model has two-way quick liquid filling function, can be used for bidirectional operation and is convenient for cleaning the hose, and can quickly fill the reagent in the preparation stage or the packing line before and after the packing.
5. Mechanical arm operation program can be edited to apply different size, different shape of reagent box, accurate positioning, production efficiency.

APPLICATION

This product is used for gene testing reagent packing, microporous plate packing, reagent box packing, micro reagent packing, biological reagent packing and so on.


Gene testing reagent packing


Microporous plate packing


Reagent box packing


Micro reagent packing


Biological reagent packing

Patent No: ZL201711043271.5; ZL201721422976.3

Programmable Dispensing System

3 years warranty

PDS

Introduction

- One controller can control maximum 8 pump units.
- Each pump unit with same or different pump head.
- The OCM controller and pump unit, can be integrated type or split type.

Four working modes

- Logic working mode: PDSI
- Independent working mode: PDSII
- Independent working mode and steps filling mode: PDSIII
- Comprehensive working mode: PDSIV

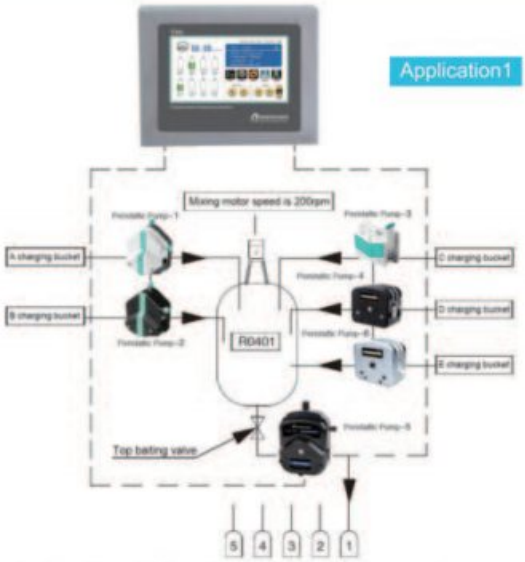
Suitable pump head

- AMC series, MC series, MiniPump, UD15, HandyPump, KT15
- EasyPump series, YZ1515x, YZ2515x, YZ35
- DZ25-3L, DZ25-6L, DY15, DY25

Technical Specifications

Speed range	0.1~600rpm, also depend on pump head	Power supply	AC 220V±10%, AC 110V±10%
Speed resolution	0.01rpm	Power consumption	15W
Back suction angle	0-360°	Controller dimension	240*221*111mm
Display	7 inch- industrial grade- true color LCD TFT screen	Controller weight	2.1kg
Control	Touch screen	Memory function	Storage the running parameters when power off
Start/stop, direction signal	Active switch signal 5V	Pump housing material	Mirror stainless steel

Application1

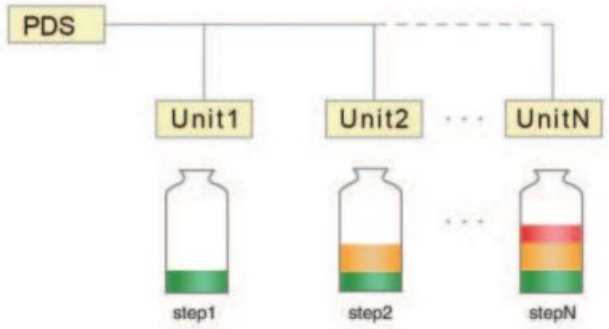


Application 1 Chemical industry: Reactor liquid adding,dispensing and washing, with different volume and adding liquid according to preset order.

Application2

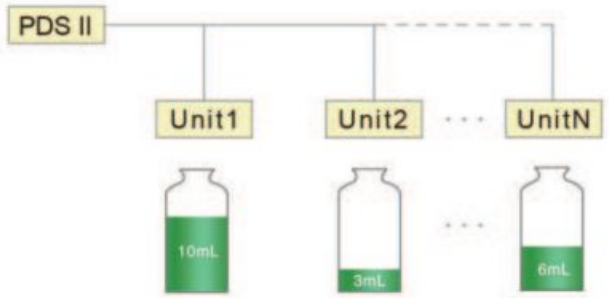
Application2: PDSIV, one controller with 7 pump units, 4 minipump and 3 YZ1515x pump heads, for different liquid filling with different time sequence.

Patent No: ZL2015104866578; ZL2017305717405; ZL201520600482.4



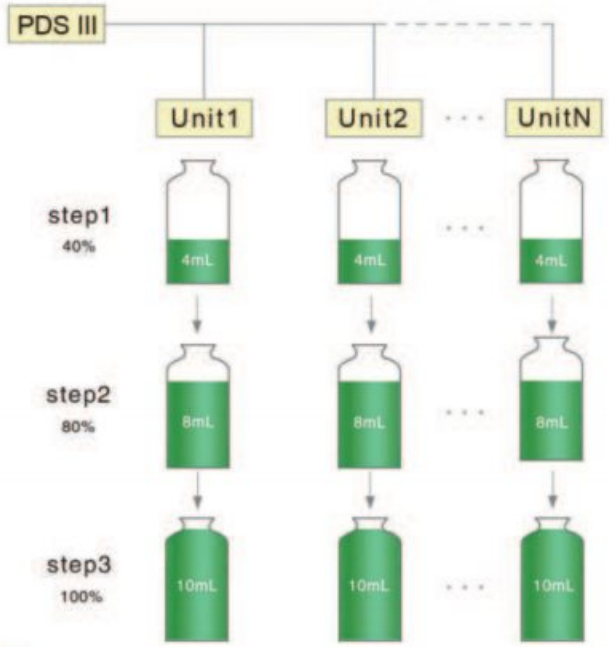
Logic working mode

In logic working mode, each unit working cooperatively.
Filling or transferring with orders, also with different proportion adding, finish automation mixing work.
Maximum steps: 50 steps
Common mode: Can save maximum 5 groups data.
Working time: 0.1sec ~9999hour
Pause time: 0.1sec ~9999 hour
Steps trigger way: Time trigger or external trigger.
Calibration: Can calibrate each step separately, online micro adjusting function.



Independent working mode

In independent working mode, each unit working independently, can fill different volume.
Working mode: transferring or dispensing
Common mode: In dispensing mode can save 5 groups data.
Calibration: Each pump unit can calibrate separately, online micro adjusting function.
Dispensing time: 0.1–9999sec
Pause time: 0.1–9999sec
Repeat number: 1–9999 times, set '0' for unlimited times
Communication: RS232/RS485, Modbus protocol (RTU mode)



Independent and steps filling working mode

In independent working mode, each unit can finish filling process with multiple different filling volume. This function suitable for prevent fluid splashing and foaming. This process can also repeat many times, achieving complicated dispensing function.
Working mode: Transferring and dispensing mode
Transferring total volume: Can record the total liquid volume transferred by each unit in transfer mode.
Dispensing step: It can be dispensed in three steps, and different parameters can be set for each step.
Calibration: Can calibrate each step separately, online micro adjusting function.
Common mode: In dispensing mode can save 5 groups data.
Dispensing time: 0.1-9999.99sec
Pause time: 0.1-9999.99 sec
Repeat number: 1-9999times, set '0' for unlimited times.
Communication: RS232/RS485, Modbus protocol (RTU mode)

PDS IV

Comprehensive working mode

Working mode: Include logic working mode, independent working mode, independent and steps filling mode.

Compact Peristaltic Pump

LabQ

3 years warranty

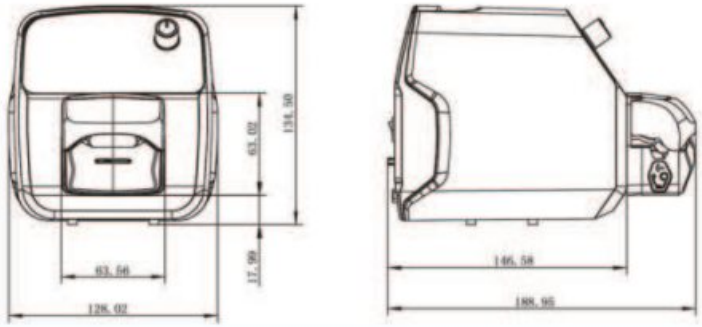
Product Introduction

- LabQ with ABS engineering plastic housing, 2.4 inch LCD display; small and compact, low power and ultra-silence.
- The digital knob is convenient for speed regulation and easy to operate.
- Multiple external control modes are optional, support RS485 communication, standard MODBUS protocol (RTU mode).
- Meet complex work environment with the super anti-interference and wide voltage design.

Product Features

- Flow rate and motor speed display in the same screen.
- Super silent drive setting, precise control, low vibration and low noise.
- Mechanical keypad control, menu interface, convenient for users setting the parameters.
- Digital rotary knob is convenient for speed regulation and easy to operate.
- Various external control functions, support 0-5V, 0-10V, 4-20mA analog signals control speed.

Dimension Drawing (Unit: mm)



Technical Specifications

Speed range	0.1-350rpm	Start/stop, reversing signal	Switch signal(The default is passive signal, active signal is optional)
Speed resolution	0.1rpm		
Control method	Mechanical keypad and digital Knob	Communication interface	RS485, (MODBUS protocol, RTU mode)
Display	2.4 inch LCD screen		
External speed control signal	0-5V, 0-10V, 4-20mA	Dimension	188*128*135mm(L×W×H)
		Weight	1.1kg
Output interface	Open-Collector output	Power consumption	<30W
Power supply	Output: (24V/1.25A)	Temperature	0-40℃
	Input: AC100V-240V, 50Hz/60Hz	Relative humidity	<80%

Product Composition and Flow Rate Range

Model	Channel number	Tubing	ID×Wall thickness(mm)	mL / r	Speed(rpm)	Flow Rate(mL/min)	Weight(kg)
LabQ/KT15	Single channel	13#	0.8×1.6	0.033	0.1~350	0.0033~11.55	1.1
		14#	1.6×1.6	0.156		0.0156~54.60	
		19#	2.4×1.6	0.286		0.0286~100.10	
		16#	3.1×1.6	0.477		0.0477~166.95	
		25#	4.8×1.6	0.933		0.0933~326.55	

Compact Peristaltic Pump

3 years warranty

LabK

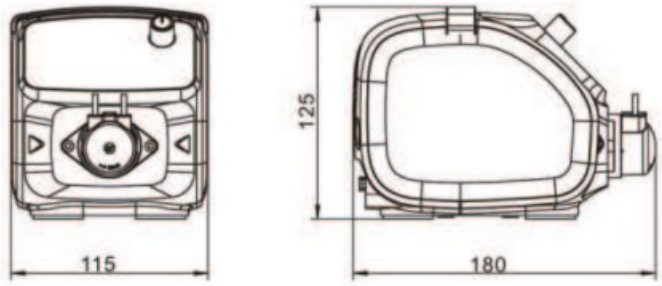
Product Introduction

- ABS engineering plastic housing, anti-corrosion, anti-static.
- OLED screen display motor speed, digital knob control speed.
- Compact design, various external control.
- Easy to observe the pump head and tubing working situation.

Product Features

- Low power consumption, mute working.
- Stable flow rate and suitable for continuous dosing applications.
- Easy to replace long life PharMed tubing.
- Digital knob control speed, memory back up, user setting saved if power lost.

Dimension Drawing (Unit: mm)



Color Selection

Technical Specifications

Flow rate range	0.004-63.96mL/min	External control	Start/stop direction control (switch signal) , 0-5V, 4-20mA (standard), 0-10V (optional)
Speed range	0.1-150rpm reversible		
Speed resolution	0.1rpm	Power adapter	Output: (12V/1A); Input: AC100V-240V, 50Hz/60Hz
Speed control	Digital knob		
Control method	Digital knob control and mechanical keypad	Dimension	180*115*125mm(L×W×H)
Keypad lifetime	300,000 times	Weight	0.8kg
Display	0.96" OLED display	Power consumption	<12W
Communication interface	USB connector, RS485 interface (MODBUS protocol, RTU mode)	Condition temperature	0-40℃
		Relative humidity	<80%

Product Composition and Flow Rate Range

Model	Pump Head	Speed(rpm)	Tubing Size (ID×Wall Thickness(mm))	Flow Rate Range (mL/min)
LabK	MicroPump	0.1-150	1*1	0.004-6.38
			2*1	0.014-21.45
			3*1	0.031-47.26
			4*1	0.042-63.96

Compact Peristaltic Pump

3 years warranty

LabT

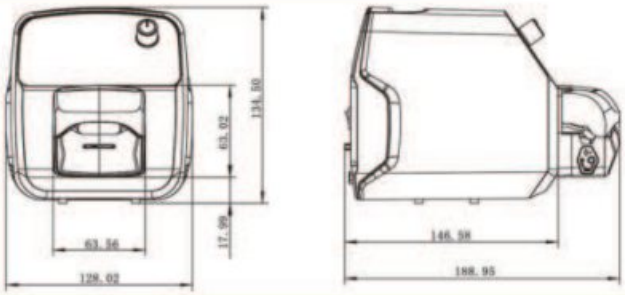
Product Introduction

- ABS engineering plastic housing, anti-corrosion, anti-static.
- OLED screen display motor speed, digital knob control speed.
- Compact design, various external control.
- Easy to observe the pump head and tubing working situation.

Product Features

- Low power consumption, mute working.
- Stable flow rate and suitable for continuous dosing applications.
- Easy to replace long life PharMed tubing.
- Digital knob control speed, memory back up, user setting saved if power lost.

Dimension Drawing (Unit: mm)



Pump Head

LabT/UD15 LabT/Minipump

Technical Specifications

Model	LabT/KT15 LabT/MiniPump LabT/UD15	Display	0.96" OLED display
		Power adapter	Output: 24V/1.25A; Input: AC100V-240V, 50Hz/60Hz
Speed range	LabT/KT15: 0.1-350rpm LabT/MiniPump: 0.1-300rpm LabT/UD15: 0.1-350rpm	Communication interface	USB connector, RS485 interface (MODBUS protocol, RTU mode)
		Dimension	189*128*135mm (L×W×H)
Speed resolution	0.1rpm	Weight	1100g
Control method	Digital knob control and mechanical keypad	Power consumption	< 15W
External control	Start/stop direction control (switch signal) , 0-5V, 4-20mA (standard), 0-10V (optional)	Condition temperature	0-40℃
		Relative humidity	<80%

Product Composition and Flow Rate Range

Model	Pump Head	Speed(rpm)	Tubing Size	Flow Rate Range(mL/min)
LabT	KT15	0.1-350	13"	0.0033~11.55
			14"	0.0156~54.6
			19"	0.0286~100.10
			16"	0.0477~166.95
			25"	0.0933~326.55
	MiniPump01	0.1-300	13", 14", 19", 16", 25", 1×1, 2×1, 2.5×1, 3×1	0.0024~190
	MiniPump02		1×1, 2×1, 2.5×1, 3×1	0.005~108.39
	UD15	0.1-350	16", 17", 25"	0.08~930

Compact Peristaltic Pump

3 years warranty

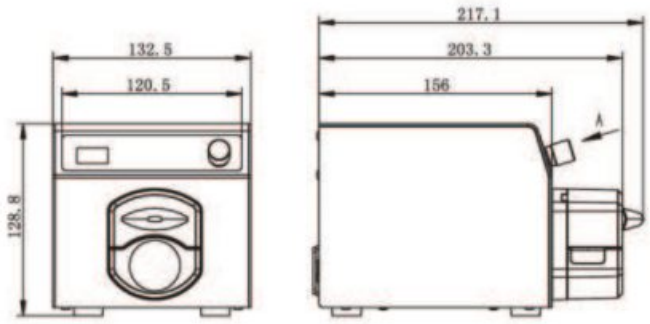
ST-HandyPump

Product Features

- 304 stainless steel shell , resist corrosion. Can be stacked to use.
- Closed-loop stepper motor, compact structure, low noise, low vibration.
- OLED screen display working speed and status. Digital knob control speed, easy operation.
- Support RS232 and RS485 communication.
- Various external control interface.
- Wide voltage design, high versatility.

Model number | ST-HandyPump

Dimension Drawing (Unit: mm)



Pump Head

HandyPump01

HandyPump02

Technical Specifications

Flow rate range	0.0033~365.69mL/min	Power supply	Output: (24V/1.25A); Input: AC100V-240V, 50Hz/60Hz
Speed range	0.1~300rpm		
Speed resolution	0.1rpm	Communication interface	RS485, RS232
Control method	Digital knob control and mechanical keypad	Output interface	Output motor working status
Motor type	57 closed-loop stepper motor	Drive dimension	217.1*132.5*128.5mm(L*W*H)
Keypad lifetime	300,000 times	Weight	2.92Kg
Display	OLED display(0.96")	Power consumption	≤75W
External control	Start/stop control(switch signal)	Condition temperature	0-40℃
	Speed: 0-5V, 4-20mA(standard), 0-10V (optional)	Relative humidity	<80%

Product Composition and Flow Rate Range

Model	Pump Head	Speed(rpm)	Tubing Size	Flow Rate Range(mL/min)
ST-HandyPump	HandyPump01	0.1-300	13#,14#, 19#, 16#, 25#	0.0033-365.69
	HandyPump02		13#,14#, 19#, 16#	0.0033-190.76

Compact Peristaltic Pump

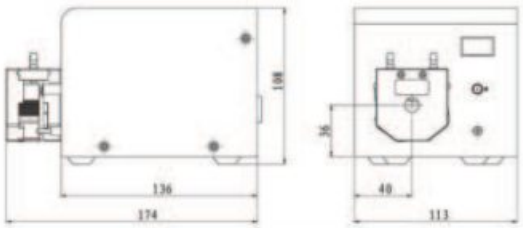
3 years warranty

SP-MiniPump

Features

- 304 stainless steel housing, resisting corrosion, space-saved.
- OLED screen,display the current motor speed and working status.
- Digital knob control speed, toggle switch control direction and start/stop.
- Various external control functions, support RS485 standard MODBUS protocol.

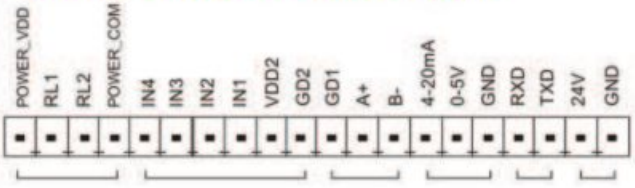
Dimension Drawing (Unit: mm)



Model Number

SP-MiniPump01, SP-MiniPump02

External Control Schematic Diagram



Technical Specifications

Flow rate range	0.0024~190 mL/min	Communication interface	RS232, RS485 support MODBUS protocol (RTU mode)
Speed range	0.1~300 rpm		
Speed resolution	0.1rpm	Power supply	24V/1.25A DC power
Speed control	Digital knob control speed	Drive dimension	136×113×108 mm (L×W×H)
Motor type	Stepper motor	Weight	1.64kg
Display	OLED display	Power consumption	< 30W
External control	Start/Stop control (switch signal)	Condition temperature	0-40℃
	0-5V, 4-20mA(standard), 0-10V(optional)	Relative humidity	< 80%

SP-MiniPump Speed/Flow Rate Reference

Model	Pump Head	Speed(rpm)	Tubing Size	Per Channel Flow Rate Range(mL/min)
SP-MiniPump	MiniPump01	0.1-300	13#	0.0024-8.28
			14#	0.0112-33.88
			19#	0.0252-77.23
			16#	0.0394-114.31
			25#	0.0652-190.00
	MiniPump01/ MiniPump02	0.1-300	1*1	0.005-15.01
			2*1	0.018-54.63
			2.5*1	0.0256-76.84
			3*1	0.0356-108.39

Flow Rates Peristaltic Pump

LabV/V Series

3 years warranty

ABS

- Laboratory
- Industrial equipment supporting

- Industrial grade 4.3" true color LCD screen, touch screen control.
- Dynamic display transferring status. Flow rate data, setting parameters and system configuration display in the same screen.
- 3 Kinds of working mode: fixed volume metering, fixed time and volume, timer start and stop, meet different transferring and dispensing request.
- Intelligent calibration function and online micro adjusting function.

Suitable Pump Head

EasyPump Series
(Pressure Adjustable)

EasyPump Series
(Fixed Pressure)

AMC Series

YZ Series

External Control Schematic Diagram

Flow Rates Peristaltic Pump

V1, V3, V6

3 years warranty

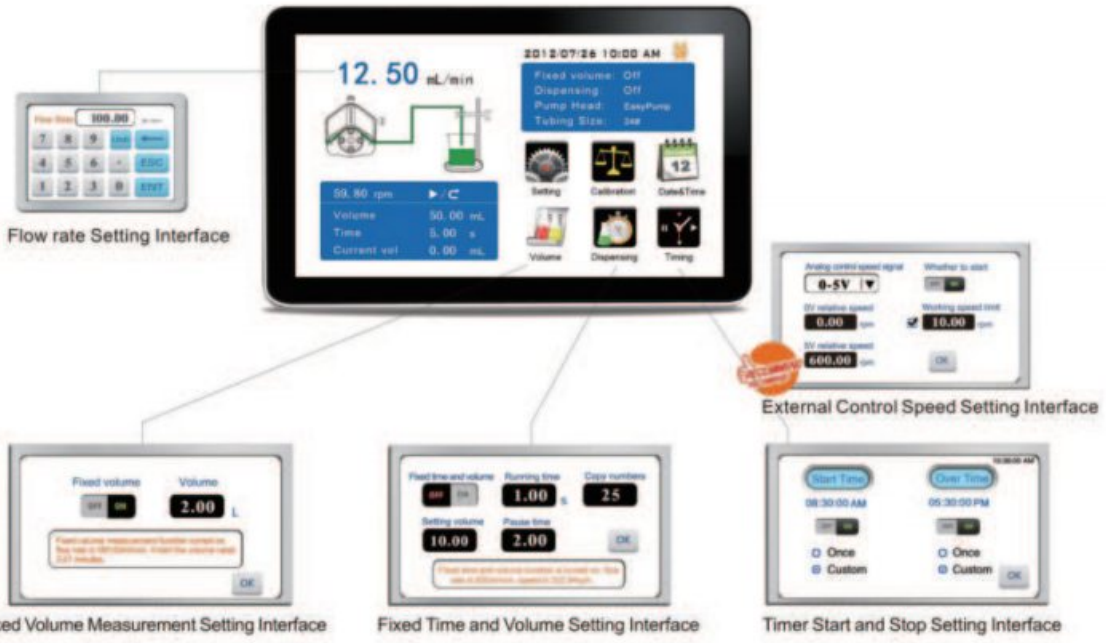
- V1, V3, V6
- Laboratory
  Industrial equipment

Technical Specifications

Flow rate range	LabV1-III: 0.0053~775 mL/min LabV3-III: 0.0053~1808 mL/min LabV6-III: 0.0053~3100 mL/min LabV1/ V1: 0.0002~570 mL/min LabV3/ V3: 0.0002~1330 mL/min LabV6/ V6: 0.0002~2280 mL/min	External speed control signal	0-5V, 0-10V, 4-20mA for option
		Start/stop, direction signal	Passive switch signal, such as foot pedal switch Active switch signal: 5-24V universal
		Communication interface	RS232, RS485 support MODBUS protocol (RTU mode)
Speed range	0.1-600 rpm	Output interface	Output motor working status (Open-Collector output)
Speed resolution	0.01 rpm		
Flow rate resolution	0.01 mL	Power supply	AC 220V±10% 50Hz/60Hz (standard)
Flow rate accuracy	<±0.5%		AC 110V±10% 50Hz/60Hz (optional)
Back suction angle	0-360°	Drive dimension (L×W×H)	LabV Series: 261.4×157.3×236.9 mm
Motor type	LabV-III series: Closed-loop stepper motor		V Series: 252×152×243 mm
	LabV/V series: Stepper motor	Drive weight	LabV Series: 4.40 kg
Display	Industrial grade 4.3" LCD color display		V Series: 4.20 kg
Control method	Touch screen and Mechanical keypad	Power consumption	<80W
Keypad lifetime	300,000 times	Condition temperature	0-40℃
		Relative humidity	< 80%

Product Composition and Flow Rate Range

Flow Rates Peristaltic Pump		Pump Head & Flow Rate (mL/min)			
		New Generation Quick Load Type Pump Head			
Drive&speed	Tubing	EasyPumpI/III	EasyPumpII/IV	EasyPumpV/VI(dual channel)	
		13#, 14#, 19#, 16#, 25#, 17#, 18#	15#, 24#, 35#, 36#	13#, 14#, 19#, 16#, 25#	
LabV1-III	0.1-150 rpm	0.0053~645	0.18~775	0.0053~295	
LabV3-III	0.1-350 rpm	0.0053~1505	0.18~1808	0.0053~688	
LabV6-III	0.1-600 rpm	0.0053~2580	0.18~3100	0.0053~1180	
Drive&speed	Tubing	YZ1515x	YZ2515x	AMC1~AMC12(10)	AMC1~AMC12(6)
		13#, 14#, 19#, 16# 25#, 17#, 18#	15#, 24#	Inner diameter: 0.13-3mm Wall thickness: 0.8-1mm	
LabV1/V1	0.1-150 rpm	0.007~570	0.17~435	0.0002-48(working speed≤150rpm)	0.0002-65(working speed≤150rpm)
LabV3/V3	0.1-350 rpm	0.007~1330	0.17~1015		
LabV6/V6	0.1-600 rpm	0.007~2280	0.17~1740		



Patent No: ZL201430015533.8; ZL2017305719218

Flow Rates Peristaltic Pump

Features

- Large flow rate, high precision, intelligent control of liquid transferring.
- Closed-loop stepper motor drive, accurate control, strong driving force.
- 304 stainless steel housing, the first choice for high level industrial sites.

Model Number

- V6-3L/EasyPump
- V6-3L/DZ25-3L
- V6-6L/DZ25-6L
- V6-12L/YZ35

Technical Specifications

Flow rate range	V6-3L: 0.0053~3600 mL/min	Start/stop,direction signal	Passive switch signal, such as foot pedal switch
	V6-6L: 0.3~6000 mL/min		Active switch signal: 5-24V universal
	V6-12L: 0.69~12000 mL/min	Communication interface	RS232, RS485 support MODBUS protocol (RTU mode)
Speed range	0.1-600 rpm		
Speed resolution	0.01 rpm	Output interface	Output motor working status (Open-Collector output)
Flow rate resolution	0.01 mL	Power supply	AC 220V±10% 50Hz/60Hz (standard)
Flow rate accuracy	<±0.5%		AC 110V±10% 50Hz/60Hz (optional)
Back suction angle	0-360°	Drive dimension	V6-3L: 223×152×231mm
Motor type	Closed-loop stepper motor		V6-6L: 283×192×274mm
Display	Industrial grade 4.3" color LCD display		V6-12L: 302×222×331mm
Control method	Touch screen and Mechanical keypad	Drive weight	V6-3L: 5.02kg; V6-6L: 7.85kg; V6-12L: 13.14kg
Keypad lifetime	300,000 times	Power consumption	V6-3L: <80W ; V6-6L: <180W ; V6-12L: <300W
External speed control signal	0-5V,0-10V,4-20mA	Environment temperature	0-40℃
		Relative humidity	< 80%

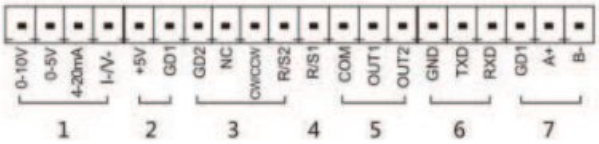
Product Composition and Flow Rate Range

Drive	Motor Type	Pump Head	Tubing Size	Speed Range(rpm)	Flow Rate(mL/min)
V6-3L	Closed-loop stepper motor	EasyPump	13#, 14#, 19#, 16#, 25#, 17# 18# / 15#, 24#, 35#, 36#	0.1-600	0.0053~3100
		DZ25-3L	15#, 24#, 35#, 36#		0.211~3600
V6-6L		DZ25-6L	15#, 24#, 35#, 36#		0.3~6000
V6-12L		YZ35	26#, 73#, 82#		0. 69~12000

V Series peristaltic pump has various external control interface, can meet different equipment supporting requirements.

| External control interface definition

1. Analog signal input port: Choose the external control speed signal from the external control setting interface. Turn on the external control speed function, control the motor speed range through the analog signal.
2. Internal isolation 5VDC output.
3. External control start/stop,direction signal input port: active signal input.
4. R/S1 external control start/stop signal input port: passive signal input.
5. Motor running status output port: output current running status of the motor.



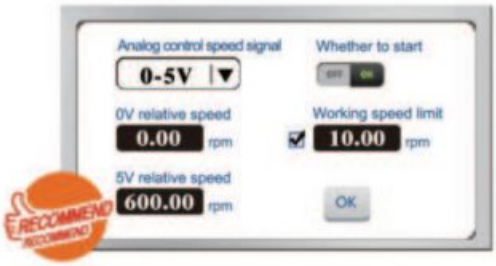
6. RS232 communication interface: choose RS232 in communication setting interface, this port is effective.
7. RS485 communication interface: choose RS485 in communication setting interface, this port is effective.

V Series peristaltic pump external control setting interface.

| Choose external control start/stop,direction signal

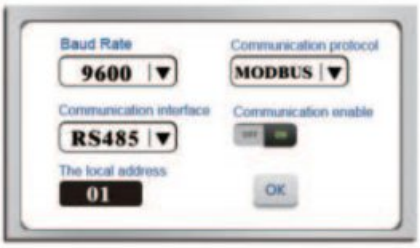
1. Can respectively set external control start/stop or reversing switch whether effective or not.
2. Can choose control mode according to requirement: pulse mode or level mode.
3. Can set the foot switch whether effective or not.
4. Can choose switch value signal 's high level values according to customers' main control equipment: 5-24V universal.

| Programmable external control speed setting



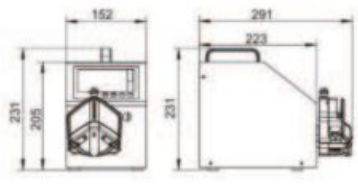
1. Can choose analog signal source according to requirements: 0-5V, 0-10V, 4-20mA.
2. When the signal source is chosen, can choose maximum speed and minimum speed which corresponding to the signal source's maximum value and minimum value according to actual demand, to reach userdefined rotate speed range purpose.
3. Working speed limit is at the situation that the linear relation of analog quantity signal and rotating speed keeps invariant, set peristaltic pump's maximum working rotate speed. This setting can avoid production accident caused by sudden change of transfer fluid amount with the sudden change of external analog signal.

| Communication setting

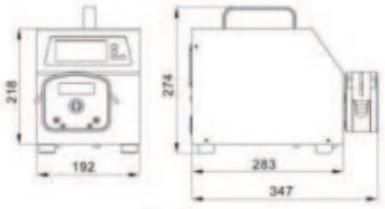


1. Support RS232 and RS485 interface, can be chosen in software interface.
2. Support various Baud rate : 2400bps, 4800bps, 9600bps, 19200bps.
3. Can choose standard modbus communication protocol or Shenchen communication protocol to control, modbus communication protocol is suitable to match with industrial site HMI, PLC or other upper computer which support standard modbus communication protocol; Shenchen communication protocol is suitable to match with single chip micro computer or upper computer on computer programme.

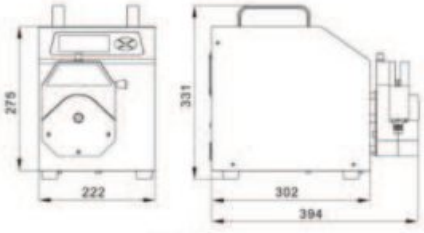
Dimension Drawing(Unit: mm)



V6-3L/EasyPump



V6-6L



V6-12L

Flow Rates Peristaltic Pump

LabN Series

3 years warranty

ABS

Suitable Pump Head

EasyPump Series
(Pressure Adjustable)

EasyPump Series
(Fixed Pressure)

AMC Series

YZ Series

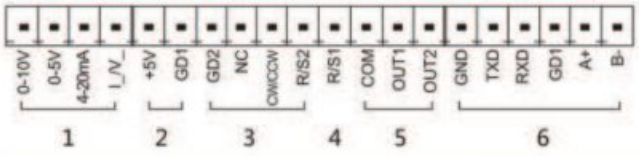
Typical Application

- Special for university laboratory and research institute.
- Ion chromatography and titrator
- Pilot scale and industry production

Features

- 3.2" color LCD screen display.
- Flow rate and motor speed display in same screen.
- Timing function, time range 0.1s-9999 hours, can be used for simple dispensing function.

LabN Series External Control Schematic Diagram



Technical Specifications

Flow rate range	LabN1-III: 0.0053~775 mL/min LabN3-III: 0.0053~1808 mL/min LabN6-III: 0.0053~3100 mL/min LabN1: 0.0002~570 mL/min LabN3: 0.0002~1330 mL/min LabN6: 0.0002~2280 mL/min	Start/stop, reversing signal	Passive switch signal, such as foot pedal Active switch signal: 5V-24V universal
Speed resolution	0.1rpm	Communication interface	RS232, RS485 support Modbus protocol(RTU mode)
Back suction angle	0-360°	Output interface	Output motor working status (Open-Collector output)
Testing time range	0.1 s-9999 h	Power supply	AC 220V±10% 50Hz/60Hz (standard) AC 110V±10% 50Hz/60Hz (optional)
Motor type	LabN-III series: Closed-loop stepper motor LabN series: Stepper motor		
Display	3.2" high definition LCD screen	Drive dimension	261.4×157.3×236.9mm
Control method	Digital knob and Mechanical keypad	Drive weight	4.40 kg
Keypad lifetime	300,000 times	Power consumption	<80W
External speed control signal	0-5V, 0-10V, 4-20mA for option	Condition temperature	0-40℃
		Relative humidity	< 80%

Product Composition and Flow Rate Range

Flow Rates Peristaltic Pump		Pump Head & Flow Rate (mL/min)		
		New Generation Quick Load Type Pump Head		
Drive&speed	Tubing	EasyPumpI/III	EasyPumpII/IV	EasyPumpV/VI(dual channel)
		13#, 14#, 19#, 16#, 25#, 17#, 18#	15#, 24#, 35#, 36#	13#, 14#, 19#, 16#, 25#
LabN1-III	0.1-150 rpm	0.0053~645	0.18~775	0.0053~295
LabN3-III	0.1-350 rpm	0.0053~1505	0.18~1808	0.0053~688
LabN6-III	0.1-600 rpm	0.0053~2580	0.18~3100	0.0053~1180

Drive&speed	Tubing	YZ1515x	YZ2515x	AMC1~AMC12(10)	AMC1~AMC12(6)
		13#, 14#, 19#, 16# 25#, 17#, 18#	15#, 24#	Inner diameter: 0.13-3mm Wall thickness: 0.8-1mm	
LabN1	0.1-150 rpm	0.007~570	0.17~435	0.0002-48(working speed≤150rpm)	0.0002-65(working speed≤150rpm)
LabN3	0.1-350 rpm	0.007~1330	0.17~1015		
LabN6	0.1-600 rpm	0.007~2280	0.17~1740		

LabN Series Interface and Keypad

Application

Flow Rates Peristaltic Pump

Features

- 3.2" LCD display.
- Ultra-quiet drive setting, precise control, small vibration and low noise.
- Imported button control, menu interface, convenient for users to set various parameters at any time.
- With timing dispensing function, various external control functions.

Model Number

- N6-3L/EasyPump
- N6-3L/DZ25-3L
- N6-6L/DZ25-6L
- N6-12L/YZ35

304 SS Housing

Technical Specifications

Flow rate range	N6-3L: 0.0053~3600 mL/min N6-6L: 0.3~6000 mL/min N6-12L: 0.69~12000 mL/min	Output interface	Output motor working status (Open-Collector output)
		Power supply	AC 220V±10% 50Hz/60Hz (standard) AC 110V±10% 50Hz/60Hz (optional)
Speed range	0.1-600 rpm		
Flow rate accuracy	<±0.5%	Power consumption	N6-3L: <80W ; N6-6L: <180W ; N6-12L: <300W
Speed resolution	0.1rpm	Communication interface	RS232, RS485 support MODBUS protocol (RTU mode)
Fixed time dispensing Function	0.1s~9999h	Motor type	Closed-loop stepper motor
Back suction angle	0-360°	Copy numbers	1-9999 times, setting '0' means unlimited
Control method	Mechanical keypad+Digital knob	Drive dimension (L×W×H)	N6-3L: 223×152×230mm N6-6L: 283×192×264mm N6-12L: 302×222×321mm
Display	3.2" high definition LCD screen		
Start/stop, direction signal	Passive switch signal, such as foot pedal switch Active switch signal: 5V, 12V and 24V for option	Drive weight	N6-3L: 5.06kg; N6-6L: 7.88kg; N6-12L: 13.01kg
External speed control signal	0-5V,0-10V,4-20mA for option	Condition temperature	0-40℃
		Relative humidity	<80%

Product Composition and Flow Rate Range

Drive	Motor Type	Pump Head	Tubing Size	Speed Range(rpm)	Flow Rate(mL/min)
N6-3L	Closed-loop stepper motor	EasyPump	13#, 14#, 19#, 16#, 25#, 17# 18#/ 15#, 24#, 35#, 36#	0.1-600	0.0053~3100
		DZ25-3L	15#, 24#, 35#, 36#		0.211~3600
N6-6L		DZ25-6L	15#, 24#, 35#, 36#		0.3~6000
N6-12L		YZ35	26#, 73#, 82#		0. 69~12000

Dispensing Peristaltic Pump

3 years warranty LabF/F Serirs

Suitable Pump Head

EasyPump Series
(Pressure Adjustable)

EasyPump Series
(Fixed Pressure)

AMC Series

YZ Series

Features

- Imported 4.3" industrial grade color LCD screen display, with touch screen control.
- Can preset dispensing volume, dispensing time, pause time and copy numbers.
- With intelligent calibration function and online micro adjusting function.
- The pump can store 60 commonly used filling modes.
- Back suction angle setting, avoid liquid drop off when the pump stops working.
- Two working mode:Volume dispensing and speed dispensing (speicial for viscous liquid)
- Can communicate with balance, closed-loop control.

Typical Application

- Medicine and chemical dispensing, such as oral liquid, diagnostic reagents.
- Cosmetic dispensing, such as perfume, essential oil.

Accessories

① Filling Countersunk
② Filling Nozzle
③ Foot Pedal Switch

Dispensing Peristaltic Pump

F1, F3, F6

3 years warranty

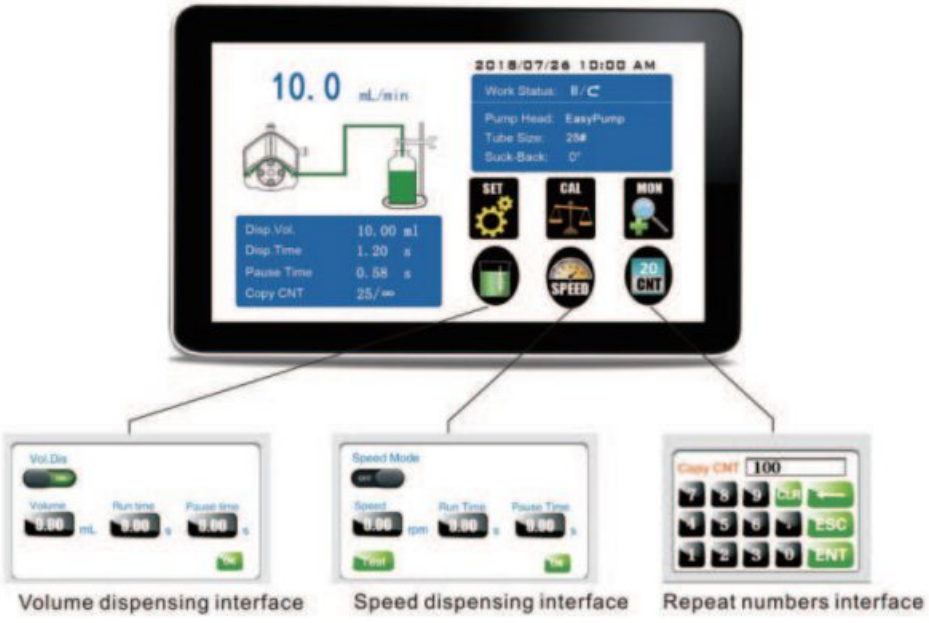
304 SS Housing

Technical Specifications

Flow rate range	LabF1-III: 0.0053~775 mL/min LabF3-III: 0.0053~1808 mL/min LabF6-III: 0.0053~3100 mL/min LabF1/F1: 0.0002~570 mL/min LabF3/F3: 0.0002~1330 mL/min LabF6/F6: 0.0002~2280 mL/min	Display	Industrial grade 4.3" color LCD display
		Control method	Touch screen and Mechanical keypad
		Keypad lifetime	300,000 times
		Start/stop, direction signal	Passive switch signal, such as foot pedal switch; Active switch signal: 5-24V universal
Speed range	0.1-600rpm	Output interface	Output motor working status (Open-Collector output)
Speed resolution	0.01rpm		
Dispensing volume range	0.1-9999.99mL	Communication interface	RS232, RS485 Modbus protocol (RTU mode)
Dispensing volume resolution	0.01mL		
Dispensing time	0.1-9999. 99s	Power supply	AC 220V±10% 50Hz/60Hz (Standard)
Pause time	0.1-9999. 99s		AC 110V±10% 50Hz/60Hz (Optional)
Time resolution	0.01s	Drive dimension (L×W×H)	LabF Series: 261.4×157.3×236.9 mm
Copy numbers	1-9999 times, setting'0' means unlimited		F Series: 252×152×243 mm
		Drive weight	LabF Series: 4.40 kg
Back suction angle	0-360°		F Series: 4.20 kg
Dispensing accuracy	<±0.5%	Power consumption	<80W
Motor type	LabF-III series: Closed-loop stepper motor	Condition temperature	0-40℃
	LabF/F series: Stepper motor	Relative humidity	<80%

Product Composition and Flow Rate Range

Flow Rates Peristaltic Pump		Pump Head & Flow Rate (mL/min)			
		New Generation Quick Load Type Pump Head			
Drive&speed	Tubing	EasyPumpI/III	EasyPumpII/IV	EasyPumpV/VI(dual channel)	
		13#, 14#, 19#, 16#, 25#, 17#, 18#	15#, 24#, 35#, 36#	13#, 14#, 19#, 16#, 25#	
LabF1-III	0.1-150 rpm	0.0053~645	0.18~775	0.0053~295	
LabF3-III	0.1-350 rpm	0.0053~1505	0.18~1808	0.0053~688	
LabF6-III	0.1-600 rpm	0.0053~2580	0.18~3100	0.0053~1180	
Drive&speed	Tubing	YZ1515x	YZ2515x	AMC1~AMC12(10)	AMC1~AMC12(6)
		13#, 14#, 19#, 16# 25#, 17#, 18#	15#, 24#	Inner diameter: 0.13-3mm Wall thickness: 0.8-1mm	
LabF1/F1	0.1-150 rpm	0.007~570	0.17~435	0.0002-48(working speed≤150rpm)	0.0002-65(working speed≤150rpm)
LabF3/F3	0.1-350 rpm	0.007~1330	0.17~1015		
LabF6/F6	0.1-600 rpm	0.007~2280	0.17~1740		



Volume dispensing interface　Speed dispensing interface　Repeat numbers interface

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.

LabF6-III/LabF6/F6 Filling Volume Reference Parameter(Media is water)

Drive	Pump Head	Tubing	Filling Volume (mL)	Filling Time(s)	Filling Accuracy (±%)	Output(pcs/min)	Motor Speed(rpm)
LabF6-III	EasyPump	13#	0.4	1.2	0.8	27	377.36
		13#	1	2.5	0.5	17	452.83
		14#	2	1	0.5	30	444.44
		19#	5	1.2	0.5	27	454.55
		16#	7	1	0.5	30	450.16
		25#	10	0.8	0.8	33	381.29
		25#	15	1	0.5	30	457.55
		25#	20	1.5	0.5	24	406.71
		17#	30	1.2	0.5	27	450.05
		18#	50	1.5	0.5	24	465.12
		15#	15	1.2	0.5	27	416.67
		24#	20	1.2	0.5	27	365.90
		35#	30	1.2	0.5	27	391.34
		36#	50	1.5	0.5	24	387.07
	2*EasyPump	13#	0.5	0.8	0.8	33	353.77
		13#	1	1.2	0.5	27	471.70
		14#	2	0.6	1	38	370.37
		14#	5	1.5	0.5	24	370.37
		19#	10	1.2	0.5	27	454.55
		16#	15	1.2	0.5	27	401.93
		16#	20	1.5	0.5	24	428.72
		25#	30	1	0.5	30	457.55
		17#	50	1	0.5	30	450.05
		18#	70	1	0.5	30	488.37
		15#	30	1.2	0.5	27	416.67
		24#	50	1.2	0.5	27	457.37
		35#	70	1.2	0.5	27	456.56
		36#	100	1.5	0.5	24	387.07

Dispensing Peristaltic Pump

Features

- Suitable for large flow rate, high efficiency, high precision filling.
- Closed-loop stepper motor drive, accurate control, strong driving force.
- 304 stainless steel drive housing can support the filling line.
- Two working mode: Voleme dispensing and speed dispensing (special for viscous liquid filling)

Model Number

- F6-3L/EasyPump
- F6-3L/DZ25-3L
- F6-6L/DZ25-6L
- F6-12L/YZ35

Technical Specifications

Flow rate range	F6-3L: 0.0053~3600 mL/min	Keypad lifetime	300,000 times
	F6-6L: 0.3~6000 mL/min	Start/stop, direction signal	Passive switch signal, such as foot pedal switch
	F6-12L: 0.69~12000 mL/min		Active switch signal: 5-24V universal
Speed range	0.1-600 rpm	Output interface	Output motor working status (Open-Collector output)
Speed resolution	0.01 rpm		
Dispensing volume range	0.1-9999.99 mL	Communication interface	Rs232, RS485 support Modbus protocol (RTU mode)
Dispensing volume resolution	0.01 mL		
Dispensing time	0.1-9999.99 s	Power supply	AC 220V±10% 50Hz/60Hz (Standard)
Pause time	0.1-9999.99 s		AC 110V±10% 50Hz/60Hz (Optional)
Time resolution	0.01 s	Drive dimension	F6-3L: 223×152×231mm
Copy numbers	1-9999 times, setting '0' means unlimited		F6-6L: 283×192×274mm
Back suction angle	0-360°		F6-12L: 302×222×331mm
Dispensing accuracy	<±0.5%	Drive weight	F6-3L: 5.02kg; F6-6L: 7.85kg; F6-12L:13.14kg;
Motor type	Closed-loop stepper motor	Power consumption	F6-3L:<80W ; F6-6L:<180W ; F6-12L:<300W
Display	Industrial grade 4.3" color LCD display	Condition temperature	0-40℃
Control method	Touch screen and Mechanical keypad	Relative humidity	<80%

Product Composition and Flow Rate Range

Drive	Motor Type	Pump Head	Tubing Size	Speed Range(rpm)	Flow Rate(mL/min)
F6-3L	Closed-loop stepper motor	EasyPump	13#, 14#, 19#, 16#, 25#, 17# 18#/ 15#, 24#, 35#, 36#	0.1-600	0.0053~3100
		DZ25-3L	15#, 24#, 35#, 36#		0.211~3600
F6-6L		DZ25-6L	15#, 24#, 35#, 36#		0.3~6000
F6-12L		YZ35	26#, 73#, 82#		0.69~12000

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.

F6-3L/6L/12L Filling Volume Reference Parameter(Media is water)

Drive	Pump Head	Tubing	Filling Volume (mL)	Filling Time(s)	Filling Accuracy (±%)	Output(pcs/min)	Motor Speed(rpm)
F6-3L	EasyPump	13#	0.4	1.2	0.8	27	377.36
		13#	1	2.5	0.5	17	452.83
		14#	2	1	0.5	30	444.44
		19#	5	1.2	0.5	27	454.55
		16#	7	1	0.5	30	450.16
		25#	10	0.8	0.8	33	381.29
		25#	15	1	0.5	30	457.55
		25#	20	1.5	0.5	24	406.71
		17#	30	1.2	0.5	27	450.05
		18#	50	1.5	0.5	24	465.12
		15#	15	1.2	0.5	27	416.67
		24#	20	1.2	0.5	27	365.90
		35#	30	1.2	0.5	27	391.34
		36#	50	1.5	0.5	24	387.07
	2*EasyPump	13#	0.5	0.8	0.8	33	353.77
		13#	1	1.2	0.5	27	471.70
		14#	2	0.6	1	38	370.37
		14#	5	1.5	0.5	24	370.37
		19#	10	1.2	0.5	27	454.55
		16#	15	1.2	0.5	27	401.93
		16#	20	1.5	0.5	24	428.72
		25#	30	1	0.5	30	457.55
		17#	50	1	0.5	30	450.05
		18#	70	1	0.5	30	488.37
		15#	30	1.2	0.5	27	416.67
		24#	50	1.2	0.5	27	457.37
		35#	70	1.2	0.5	27	456.56
		36#	100	1.5	0.5	24	387.07
	DZ25-3L	15#	16	1	0.5	30	443.54
		24#	30	1.2	1	27	454.88
		35#	150	4	0.6	12	447.94
		36#	200	4	0.6	12	481.80
F6-6L	DZ25-6L	15#	30	1.2	0.5	27	500.00
		24#	50	1.2	0.5	27	454.55
		35#	70	1.2	0.5	27	437.50
		36#	100	1.5	0.5	24	400.00
F6-12L	YZ35	26#	50	1	0.5	30	434.78
		26#	100	2	0.5	20	434.78
		73#	100	1.2	0.5	27	406.50
		73#	150	2	0.5	20	365.85
		82#	200	1.5	0.5	24	400.00
	2*YZ35	73#	100	1.2	0.5	27	203.25
		73#	200	1.5	0.5	24	325.20
		82#	500	2	0.5	20	375.00

F6 Series Filling Accuracy Reference Parameter(Media is water)

Drive	Pump Head	Tubing	Filling Volume	Filling Time	Actual Filling Volume(mL)										Filling Accuracy	
F6-3L	EasyPump I/III	13"	0.1mL	0.5s	0.1015	0.1013	0.1003	0.1013	0.1018	0.1004	0.1009	0.1014	0.1012	0.1008	-0.10%	1.80%
					0.1016	0.1013	0.1005	0.1016	0.1015	0.0999	0.1016	0.1016	0.0999	0.1016		
		13"	0.5mL	1.2s	0.5000	0.4996	0.5022	0.5011	0.4977	0.5018	0.5007	0.5005	0.4980	0.5017	-0.46%	0.44%
					0.5011	0.5001	0.4996	0.5014	0.5007	0.4983	0.5004	0.5005	0.5002	0.4978		
		13"	1mL	2.5s	1.0027	0.9996	0.9984	1.0044	1.0001	0.9980	1.0020	1.0025	0.9998	1.0000	-0.20%	0.44%
					1.0037	1.0008	0.9996	1.0017	1.0010	0.9998	0.9992	1.0039	1.0006	0.9997		
		14"	2mL	1s	2.0038	2.0023	1.9993	1.9979	1.9966	1.9960	1.9958	1.9957	1.9952	1.9948	-0.30%	0.19%
					1.9940	1.9993	1.9966	1.9971	1.9969	1.9973	1.9976	1.9982	1.9992	1.9984		
		19"	5mL	1.2s	5.0057	5.0045	5.0027	4.9994	4.9953	4.9896	5.0007	5.0100	5.0114	5.0090	-0.21%	0.27%
					5.0034	5.0059	5.0075	4.9967	4.9900	4.9976	5.0136	5.0091	5.0064	5.0060		
		16"	7mL	1s	7.00	7.02	7.02	7.03	7.00	7.01	6.99	7.00	6.99	6.99	-0.29%	0.43%
					6.98	6.99	7.00	7.02	7.02	7.01	7.03	7.02	7.01	6.98		
		25"	10mL	1s	10.02	10.03	10.05	10.04	10.02	10.04	10.01	10.01	10.02	10.01	-0.10%	0.50%
					10.01	10.01	10.00	10.00	10.00	10.00	10.00	9.99	10.01	10.01		
		25"	20mL	1.2s	20.04	20.06	19.98	19.96	19.98	20.07	20.08	20.10	20.02	19.96	-0.30%	0.50%
					19.94	20.04	20.08	20.07	20.05	19.98	19.96	19.98	20.05	20.09		
		17"	30mL	1.2s	30.15	30.07	29.96	30.19	30.16	30.04	29.89	30.19	30.15	30.00	-0.37%	0.70%
					30.08	30.21	30.20	29.93	30.14	30.20	30.06	29.98	30.18	30.21		
		17"	50mL	2s	50.14	50.04	50.28	49.98	50.22	49.88	50.23	50.14	49.98	50.23	-0.24%	0.56%
					49.98	50.14	50.13	49.99	50.27	50.17	49.98	50.28	49.98	50.20		
		18"	80mL	2.5s	80.05	80.27	80.32	80.05	80.37	79.99	80.31	80.13	80.42	80.08	-0.37%	0.53%
					80.21	80.24	80.03	80.40	80.00	80.36	80.00	80.33	79.70	80.14		
		18"	100mL	3s	100.22	100.14	100.05	100.03	99.90	99.85	100.03	100.07	99.99	100.05	-0.28%	0.22%
					99.79	99.92	99.82	99.72	99.86	100.00	99.96	100.02	99.97	99.90		
	EasyPump II/IV	15"	16mL	1s	16.05	15.98	16.03	16.02	15.96	16.08	15.92	16.12	15.86	16.13	-0.69%	0.81%
					15.94	16.07	15.99	16.01	16.04	15.94	16.09	15.91	16.12	15.90		
		15"	20mL	1.2s	19.91	19.92	20.00	20.02	20.02	20.02	20.00	20.02	19.98	19.97	-0.45%	0.10%
					19.94	19.91	19.94	20.00	20.01	20.02	20.00	20.01	19.99	19.97		
		24"	30mL	1.2s	30.05	30.03	30.04	30.06	30.06	30.05	29.92	29.97	30.08	30.06	-0.27%	0.27%
					29.97	30.03	29.99	30.01	30.02	30.04	30.00	29.99	29.99	30.05		
		24"	50mL	2s	50.09	50.04	49.84	50.15	50.08	50.07	49.78	50.18	50.14	49.97	-0.44%	0.36%
					49.86	50.17	50.14	49.96	49.88	50.16	50.07	49.98	49.86	50.16		
		35"	150mL	4s	149.79	150.15	149.75	150.21	149.77	150.08	149.92	150.06	150.07	149.85	-0.36%	0.14%
					149.88	149.46	150.03	149.59	149.97	149.62	149.93	149.81	149.82	149.91		
		36"	200mL	4s	200.22	200.07	200.15	200.26	200.20	200.20	199.94	200.13	200.02	200.22	-0.16%	0.13%
					200.10	200.12	200.11	200.12	199.79	199.68	199.93	200.11	200.10	200.03		
F6-3L	DZ25-3L	15"	16mL	1s	15.97	15.97	16.00	16.06	15.97	15.92	15.96	16.02	16.01	15.97	-0.50%	0.50%
					15.98	16.00	16.04	16.08	15.92	15.95	16.01	16.01	15.97	15.97		
		24"	30mL	1.2s	29.98	30.12	30.20	30.29	30.06	29.94	30.11	30.18	30.02	29.99	-0.20%	1.00%
					30.23	30.24	30.12	29.99	30.12	30.23	30.20	30.30	30.19	30.11		
		35"	150mL	4s	149.50	149.50	150.10	150.00	149.80	149.00	149.70	149.50	150.10	149.60	-0.15%	0.60%
					149.00	149.90	149.70	149.10	149.50	150.00	150.10	150.10	149.60	149.40		
		36"	200mL	4s	199.70	200.30	200.10	200.30	200.00	200.00	200.70	200.80	200.70	200.40	-0.67%	0.07%
					200.30	200.00	200.30	200.80	200.90	200.70	200.80	200.40	200.50	200.20		
F6-6L	DZ25-6L	15"	80mL	4s	80.2	80.0	80.3	80.2	80.1	80.1	80.2	80.1	80.2	80.1	-0.125%	0.375%
					80.1	79.9	80.1	79.9	80.0	80.1	19.9	80.1	80.1	80.0		
		24"	150mL	4s	149.9	150.2	150.0	150.1	150.0	150.3	150.0	150.1	150.3	150.0	-0.067%	0.200%
					149.9	150.1	150.0	150.0	150.1	150.0	150.1	149.9	150.2	150.2		
		35"	200mL	3.5s	199.7	199.9	200.2	200.2	200.2	199.6	199.8	199.8	200.1	199.9	-0.400%	0.100%
					199.5	199.2	199.5	199.9	199.5	199.3	199.8	199.3	199.6	199.9		
		36"	300mL	3.5s	300.4	300.1	300.3	300.3	300.4	300.1	300.3	300.4	300.6	300.2	-0.167%	0.200%
					300.2	300.0	300.1	300.2	300.2	299.9	299.5	300.5	300.5	300.6		
F6-12L	YZ35	26"	150mL	3s	149.3	150.3	149.6	150.2	150.5	150.1	150.5	150.1	150.5	150.0	-0.47%	0.33%
					150.4	149.9	150.4	150.0	150.3	149.8	150.3	149.9	150.4	150.0		
		73"	300mL	3s	299.9	299.8	300.0	300.1	300.4	300.2	300.4	300.4	300.6	300.5	-0.07%	0.27%
					300.8	300.6	300.5	300.5	300.5	300.6	300.7	300.5	300.6	300.6		
		82"	500mL	3s	500.0	497.8	499.7	498.3	498.4	499.5	498.2	499.7	499.2	498.4	-0.44%	0.38%
					499.5	498.3	501.5	501.9	500.0	501.8	501.1	500.5	501.6	499.6		

Low Pulsation Dispensing Peristaltic Pump

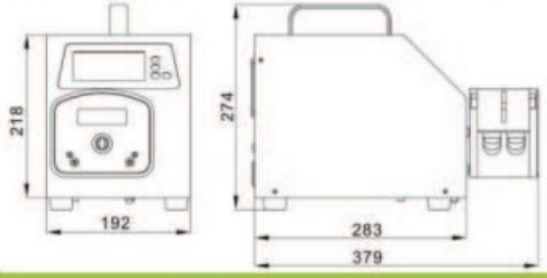
IF3

Features

- Closed-loop stepper motor drive, high precision, low pulsation dispensing peristaltic pump.
- The low pulsation pump head is special for high precision filling. Through the phase difference between the two sets of rollers, make the fluid peaks and valleys complementary, then reduce the pulsation of the fluid.
- Adaptive pressure tubing space, extend the tubing lifetime effectively.
- Achieving high precision dispensing of micro flow rate.
- New flow rate mode, can be used for continuous transferring.
- Can communicate with balance, closed-loop control.

Model Number | IF3

Dimension Drawing (Unit: mm)



Product Composition and Flow Rate Range

Drive	Motor Type	Pump Head	Tubing	Speed Range(rpm)	Flow Rate(mL/min)
IF3	Closed-loop stepper motor	DY15	13#, 14#, 19#, 16#, 25#, 17#, 18#	0.1-350	0.01~3337
		DY25	15#, 24#, 35#, 36#		0.42~4340

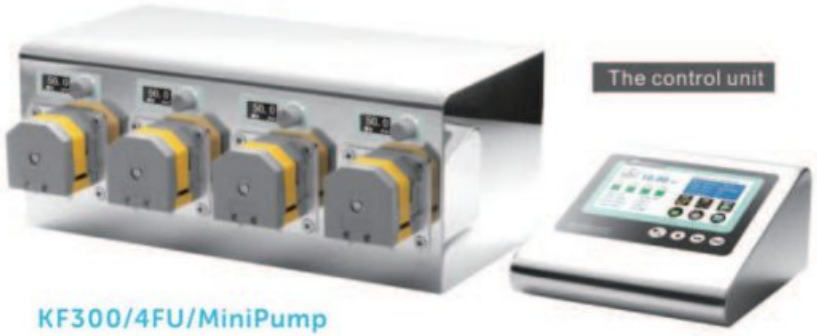
Experimental conditions:standard atmospheric pressure, room temperature at 20°C,the liquid is pure water, no pressure, no suction and lift.
Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only.

Filling Volume Reference Parameter(Media is water)

Tubing	Filling Volume	Filling Time	Actual Filling Volume(mL)										Filling Accuracy	
14#	0.5mL	0.5s	0.5003	0.5010	0.4982	0.5015	0.5015	0.5010	0.5014	0.5005	0.4981	0.4998	-0.37%	0.32%
			0.5025	0.4983	0.5024	0.5021	0.5020	0.5004	0.5005	0.4997	0.4977	0.5008		
14#	1mL	1s	1.0037	1.0000	1.0026	1.0003	1.0031	1.0015	1.0000	1.0007	1.0023	1.0035	-0.44%	0.42%
			1.0002	1.0020	0.9968	1.0010	0.9986	1.0026	1.0030	1.0029	1.0023	1.0017		
14#	2mL	1s	2.0020	2.0060	2.0039	2.0037	2.0047	1.9944	2.0062	2.0040	1.9951	2.0060	-0.58%	0.60%
			2.0036	1.9940	2.0024	2.0086	1.9946	2.0005	1.9951	2.0068	1.9971	1.9965		
19#	3mL	1s	3.0058	2.9935	3.0092	3.0008	2.9927	3.0072	3.0046	2.9914	3.0040	3.0000	-0.33%	0.31%
			2.9902	3.0048	3.0008	2.9919	2.9984	3.0012	3.0084	2.9915	2.9990	3.0051		
16#	5mL	1s	5.0215	4.9982	5.0145	5.0038	4.9864	5.0183	4.9962	5.0227	5.0158	4.9806	-0.39%	0.50%
			5.0248	5.0070	4.9861	5.0108	4.9995	5.0080	5.0044	4.9868	5.0231	4.9977		
25#	10mL	1s	10.02	10.04	10.00	9.98	10.02	10.03	10.04	10.04	10.01	9.99	-0.20%	0.40%
			10.00	10.02	10.02	10.04	9.99	9.98	10.00	10.04	10.02	10.03		
25#	15mL	1s	15.02	14.97	14.97	14.94	15.00	15.00	14.94	14.95	14.96	14.99	-0.47%	0.13%
			14.96	14.95	14.96	14.99	14.98	14.94	14.93	14.93	14.98	14.96		
17#	30mL	1s	29.92	30.01	29.99	29.91	29.83	29.86	29.91	29.91	29.91	29.89	-0.57%	0.20%
			29.88	29.96	30.03	30.06	30.02	30.02	30.06	29.96	29.96	29.83		
18#	100mL	2.5s	99.80	99.90	99.80	99.90	100.00	100.10	100.10	100.00	100.10	100.00	-0.20%	0.30%
			99.80	100.00	100.10	100.20	99.90	100.10	100.00	100.30	100.10	100.10		
15#	10mL	1s	9.97	10.01	9.96	9.98	10.01	9.96	9.97	9.99	9.96	9.96	-0.60%	0.10%
			10.00	9.94	9.97	10.00	9.96	9.97	10.00	10.00	10.01	9.97		
24#	30mL	1s	29.90	29.80	30.10	29.90	29.90	30.00	29.90	29.90	30.00	29.90	-0.67%	0.33%
			29.90	29.90	29.90	29.90	29.90	29.80	30.00	29.90	29.90	30.00		
35#	70mL	1.2s	69.80	69.90	69.90	69.90	69.70	70.10	70.00	69.70	69.90	69.90	-0.43%	0.43%
			69.90	70.10	70.00	69.90	70.30	69.70	70.10	69.70	69.70	69.90		
36#	100mL	2s	99.80	99.90	99.80	99.80	100.00	99.90	99.90	99.90	99.90	99.90	-0.20%	0.10%
			99.80	99.90	99.90	99.90	100.00	100.10	99.80	100.10	99.90	99.90		

Desktop Filling System

3 years warranty



KF300/4FU/MiniPump

3 years warranty

KF300/4FU/HandyPump

3 years warranty

KF300/4FU/KT15

Features

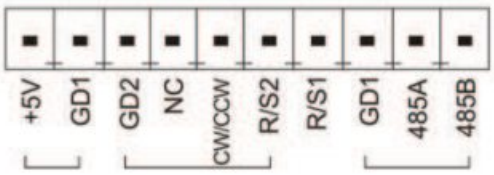
- Integrated design, a controller can control 1-32 units.
- Compact structure, compact size, beautiful appearance and saving space
- Suitable for high precision micro liquids filling in laboratory.

Model Number | KF300 Series

Typical Application

- Laboratory liquid distribution
- Diagnostic reagent components
- Medium dispensing

External Control Schematic Diagram



Technical Specifications			
Speed range	KF300+MiniPump:0.1-300 rpm	Keypad lifetime	300,000 times
	KF300+HandyPump:0.1-300 rpm	Control mode	Touch screen and Mechanical keypad
	KF300+KT15:0.1-300 rpm	Start/stop, direction signal	Passive switch signal, such as :foot pedal switch; Active switch signal, 5-24V universal
Filling volume	0.01-9999.99 ml		
Dispensing time	0.1-9999.99 s		
Interval time	0.1-9999.99 s	Output interface	Output motor working status (Open-collector output)
Volume resolution	0.01 ml		
Time resolution	0.01 s	Communication interface	RS485 support Modbus protocol (RTU mode)
Copy numbers	1-9999 times,0 represent unlimited		
Back suction angle	0-3600°	Power supply	AC 100V-240V(50Hz/60Hz)
Filling accuracy	<±0.5%		
Filling units	1-32 units	Condition Temperature	0-40℃
Display	4.3"Industrial grade –color LCD display	Relative humidity	<80%

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.

KF300 Filling Volume Reference Parameter(Media is water)								
Drive	Pump Head	Tubing	mL/r	Filling Volume (mL)	Filling Time(s)	Filling Accuracy (±%)	Output(pcs/min)	Motor Speed(rpm)
KF300	MiniPump	13#	0.027	0.06	0.8	3	33	166.67
		13#	0.027	0.1	1	2	30	222.22
		13#	0.027	0.2	2	0.8	20	222.22
		14#	0.114	0.8	1.5	0.8	24	280.70
		14#	0.114	1	2	0.5	20	263.16
		19#	0.248	2	2	0.5	20	241.94
		16#	0.377	3	2	0.5	20	238.73
	KT15	14#	0.156	1	1.5	1	24	256.41
		14#	0.156	2	3	0.5	15	314.69
		19#	0.286	3	2	0.8	20	314.47
		16#	0.477	5	2	0.8	20	225.08
		25#	0.933	7	2	1	20	241.94
	HandyPump (6 rollers)	13#	0.031	0.05	0.4	3	43	241.94
		13#	0.031	0.1	0.8	2	33	258.06
		13#	0.031	0.2	1.5	1	24	353.77
		13#	0.031	0.5	3	0.5	15	322.58
		14#	0.126	1	1.5	0.8	24	317.46
		19#	0.215	2	2.5	0.5	17	223.26
		16#	0.345	3	2	0.5	20	260.87
	HandyPump (4 rollers)	13#	0.033	0.2	1.5	1	24	242.42
		14#	0.187	1.5	2	0.8	20	240.64
		19#	0.371	3	2	0.5	20	242.59
		16#	0.636	5	2	0.8	20	235.85
		25#	1.219	10	2	0.5	20	246.10

Split Type Filling System

3 years warranty

304 SS Housing

CF600 PlusII

Features

- Split design, adding or deleting filling units freely.
- One controller can control 1-32 filling units.
- Each filling unit can receive stop filling signal when bottle absent.
- Controller screen display the working status of the filling units.

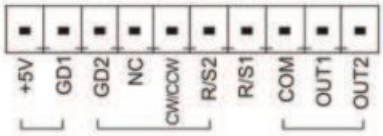
Model Number

- CF600 Plus, CF600 PlusII

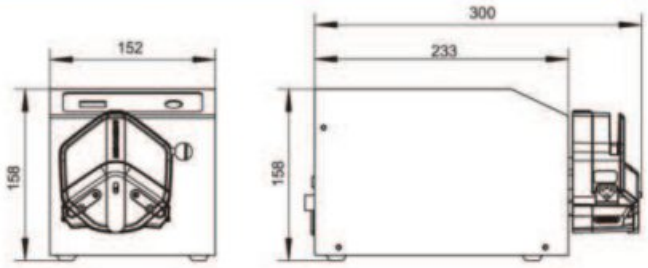
Typical Application

- Laboratory dispensing
- Industry filling

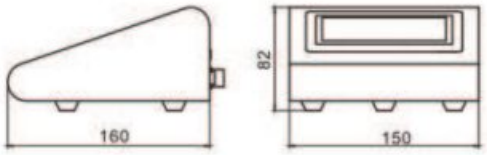
External Control Schematic Diagram



Dimension Drawing(Unit: mm)



Drive Dimension Drawing



Controller Dimension Drawing

Split Type Filling System

3 years warranty

CF350 Plus

Features

- Closed-loop stepper motor drive, precision control.
- Split type design, space-saving, easy installation.
- Use low pulsation pump head to reduce the pulsation of the fluid effectively.
- Suitable for micro volume high precision filling.

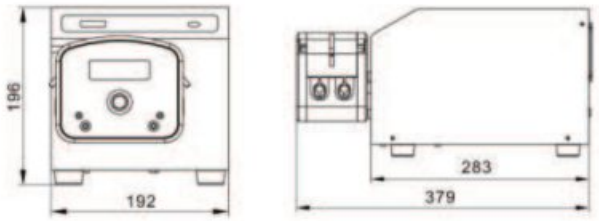
Model Number

- CF350 Plus
- CF600 PlusIII, CF600 PlusIV

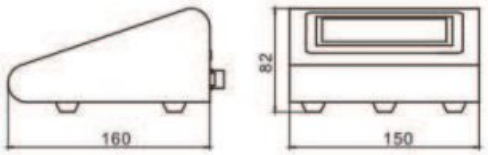
Control Unit

Filling Unit

Dimension Drawing(Unit: mm)



Drive Dimension Drawing



Controller Dimension Drawing

Product Composition and Flow Rate Range

Drive	Pump Head	Flow Rate (mL/min)	Motor Type	Drive Dimension (L×W×H)	Power Consumption	Drive Weight
CF600 Plus	YZ1515x	0.007-2280	Stepper motor	237.4×152×158mm	Each unit<50W	4.2kg
	YZ2515x	0.17-1740				
CF600 PlusII	EasyPump	0.0053-3100	Closed-loop stepper motor	237.4×152×158mm	Each unit<80W	4.95kg
	DZ25-3L	0.211-3600				
CF600 PlusIII	DZ25-6L	0.3-6000		283×192×196mm	Each unit<180W	7.8kg
CF350 Plus	DY15	0.01-3337		283×192×196mm	Each unit<180W	7.8kg
	DY25	0.42-4340				
CF600 PlusIV	YZ35	0.69-12000		310×228×248mm	Each unit<300W	11.9kg

Integrated Filling System

DF600 PlusII

Features

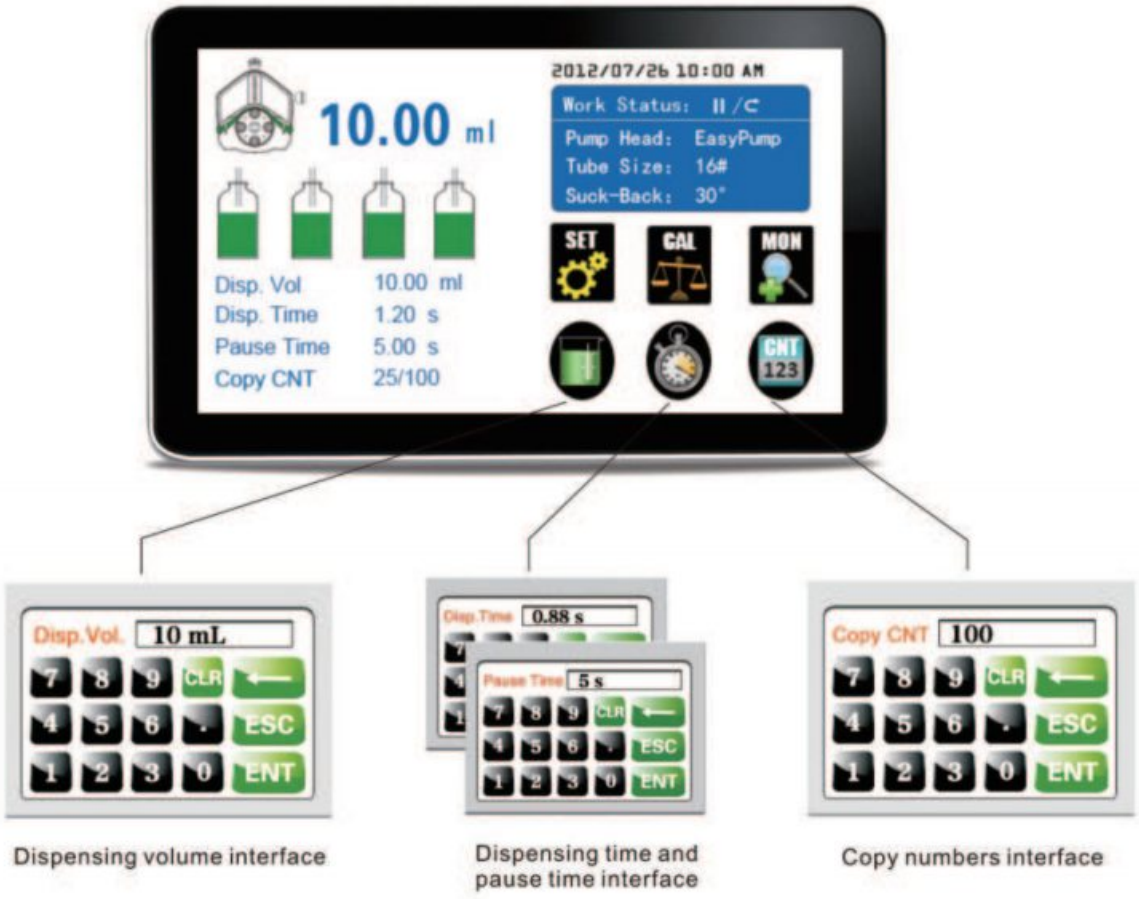
- Integrated design, one controller can control 8 groups (total 32) filling units.
- It can support the production filling line, store 30 commonly used filling modes.
- Each filling unit can independently receive stop filling signal when bottle absent.

Model Number

- DF600 Plus, DF600 PlusII

Typical Application

- Pharmaceutical, health product filling, diagnostic reagent dispensing.
- Food, beverage filling.
- Cosmetic filling.



Dispensing volume interface

Dispensing time and pause time interface

Copy numbers interface

Integrated Filling System

DF600 PlusIV

DF350 Plus

Product Introduction

DF600 Plus series closed-loop stepper motor control series is integrated type intelligent filling system with high precision and low pulsation driven by closed-loop stepper motor. It is composed by control unit and integrated type filling units, each group have 8 filling units, total 32 filling units. This system use imported 4.3" industrial grade true color display with touch screen control, can preset filling volume, filling time, pause time, copy numbers and back-suction angle. Dynamics display working status, filling data, setting parameter, system configuration display at the same screen; with intelligent calibration and online micro adjust function. Can connect foot pedal and receive switch signal, realize long-distance control. With motor working status output signal, can let other equipment realtime monitor the current filling status of peristaltic pump. This filling system use closed-loop stepper motor, and high precision, low pulsation pump head to make the filling precision higher, up to 0.1%-0.6%, make the micro volume and big volume high precision filling come true.

Model Number

- DF350 Plus
- DF600 PlusIII
- DF600 PlusIV

Typical Application

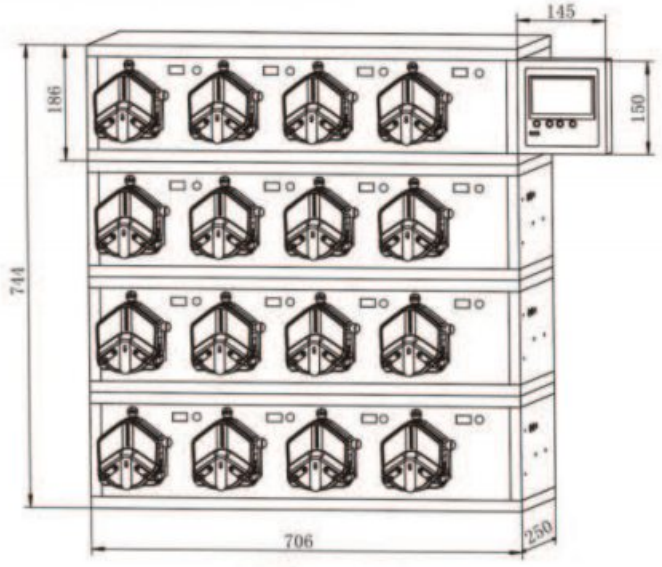
- Pharmaceutical, health product filling, diagnostic reagent dispensing.
- Food, beverage filling.
- Cosmetic filling.

Integrated Filling System

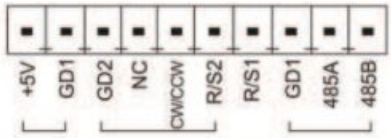
Product Composition and Flow Rate Range						
Drive	Pump Head	Flow Rate (mL/min)	Motor Type	Drive Dimension (L×W×H)	Power Consumption	Drive Weight
DF600 Plus	YZ1515x	0.007~2280	Stepper motor	706×250×186mm	Each Unit<50W	21.8kg
	YZ2515x	0.17~1740				
DF600 PlusII	EasyPump	0.0053-3100	Closed-loop stepper motor	706×250×186mm	Each Unit<80W	21.8kg
	DZ25-3L	0.211-3600				
DF600 PlusIII	DZ25-6L	0.3-6000		910×290×212mm	Each Unit<180W	41.45kg
DF350 Plus	DY15	0.01-3337		910×290×212mm	Each Unit<180W	41.45kg
	DY25	0.42-4340				
DF600 PlusIV	YZ35	0.69-12000		1056×310×248m	Each Unit<300W	58.6kg

Technical Specifications			
Speed range	CF350 Plus/DF350 Plus 0.1-350 rpm CF600 Plus/DF600 Plus/CF600 PlusII/ DF600 PlusII/CF600 PlusIII/DF600 PlusIII/ CF PlusIV/DF600 PlusIV 0.1-600 rpm	Control method	Touch screen and mechanical keypad
		Keypad lifetime	300,000 times
Filling volume range	0.1-9999.99 mL	Start/stop, direction signal	Passive switch signal, such as foot pedal switch;Active switch signal: 5-24V universal
Filling time range	DF600 Plus 0.1-9999.99 s	Communication interface	RS485 communication Modbus protocol(RTU mode)
Pause time range	DF600 Plus 0.5-9999.99 s		
Filling volume resolution	0.01 mL	Output interface	Output motor working status (Open-Collector output)
Time resolution	0.01 s		
Copy numbers	1-9999,'0' means unlimited	Power supply	AC 220V±10% 50Hz/60Hz (standard) AC 110V±10% 50Hz/60Hz (optional)
Back suction angle	0-3600°		
Filling accuracy	<±0.5%	Condition temperature	0-40℃
Display	4.3" industrial grade true color LCD screen	Relative humidity	<80%

Dimension Drawing(Unit: mm)



DF600 PlusII Dimension



DF600plus External Control Schematic Diagram

Product Composition and Flow Rate Range

Drive	Pump Head	Pump Head Material	Tube Clamp Material	Tubing		(Motor Speed 0.1~600rpm)
				Tubing Size	ID×Wall Thickness	Flow Rate mL/min
DF600 Plus CF600 Plus	YZ1515x	PSF PPS	———	13"	0.8×1.6 (mm)	0.07~42
				14"	1.6×1.6 (mm)	0.27~162
				19"	2.4×1.6 (mm)	0.55~330
				16"	3.1×1.6 (mm)	0.82~492
				25"	4.8×1.6 (mm)	1.7~1020
				17"	6.4×1.6 (mm)	2.9~1740
				18"	7.9×1.6 (mm)	3.8~2280
	YZ2515x	PSF PPS	———	15"	4.8×2.4 (mm)	1.7~1020
				24"	6.4×2.4 (mm)	2.9~1740
DF600 PlusII CF600 PlusII	EasyPump I/III	———	———	13"	0.8×1.6 (mm)	0.0053~32
				14"	1.6×1.6 (mm)	0.027~162
				19"	2.4×1.6 (mm)	0.055~330
				16"	3.1×1.6 (mm)	0.093~560
				25"	4.8×1.6 (mm)	0.197~1180
				17"	6.4×1.6 (mm)	0.333~2000
				18"	7.9×1.6 (mm)	0.430~2580
	EasyPump II/IV	———	———	15"	4.8×2.4 (mm)	0.180~1080
				24"	6.4×2.4 (mm)	0.273~1640
				35"	7.9×2.4 (mm)	0.383~2300
				36"	6.4×2.4 (mm)	0.517~3100
	EasyPump V/VI	———	———	13"	0.8×1.6 (mm)	0.0053~32
				14"	1.6×1.6 (mm)	0.027~162
				19"	2.4×1.6 (mm)	0.055~330
				16"	3.1×1.6 (mm)	0.093~560
				25"	4.8×1.6 (mm)	0.197~1180
	DZ25-3L	Aluminum alloy/PPS	PP	15"	4.8×2.4 (mm)	2.11~1264
				24"	6.4×2.4 (mm)	3.85~2310
				35"	7.9×2.4 (mm)	5.08~3050
				36"	4.8×2.4 (mm)	6~3600
DF600 PlusIII CF600 PlusIII	DZ25-6L	Aluminum alloy/PPS	PP	15"	4.8×2.4 (mm)	3~1800
				24"	6.4×2.4 (mm)	5.5~3300
				35"	7.9×2.4 (mm)	8~4800
				36"	4.8×2.4 (mm)	10~6000
DF600 PlusIV CF600 PlusIV	YZ35-PPS	Aluminum alloy/PPS	PP	26"	6.4×3.3 (mm)	6.9~4200
				73"	9.6×3.3 (mm)	12.3~7400
				82"	12.7×3.3 (mm)	20~12000

Drive	Pump Head	Pump Head Material	Tube Clamp Material	Tubing		(Motor Speed 0.1~350rpm)
				Tubing Size	ID×Wall Thickness	Flow Rate mL/min
DF350 Plus CF350 Plus	Aluminum alloy	DY15	PP	13"	0.8×1.6 (mm)	0.1~48
				14"	1.6×1.6 (mm)	0.6~223
				19"	2.4×1.6 (mm)	1.3~448
				16"	3.1×1.6 (mm)	2~723
				25"	4.8×1.6 (mm)	4.7~1626
				17"	6.4×1.6 (mm)	6.4~2230
				18"	7.9×1.6 (mm)	9.5~3337
	Aluminum alloy	DY25	PP	15"	4.8×2.4 (mm)	4.2~1480
				24"	6.4×2.4 (mm)	7.6~2670
				35"	7.9×2.4 (mm)	10~3600
				36"	9.6×2.4 (mm)	12.4~4340

Filling Volume Reference (Media is water)							
Drive	Pump Head	Tubing	Filling Volume (mL)	Filling Time (s)	Accuracy (±%)	Output (pcs/min)	Motor Speed (rpm)
DF600 PlusII CF600 PlusII	EasyPump	13#	0.4	1.2	0.8	27	377.36
		13#	1	2.5	0.5	17	452.83
		14#	2	1	0.5	30	444.44
		19#	5	1.2	0.5	27	454.55
		16#	7	1	0.5	30	450.16
		25#	10	0.8	0.8	33	381.29
		25#	15	1	0.5	30	457.55
		25#	20	1.5	0.5	24	406.71
		17#	30	1.2	0.5	27	450.05
		18#	50	1.5	0.5	24	465.12
		15#	15	1.2	0.5	27	416.67
		24#	20	1.2	0.5	27	365.90
		35#	30	1.2	0.5	27	391.34
		36#	50	1.5	0.5	24	387.07
	2*EasyPump	13#	0.5	0.8	0.8	33	353.77
		13#	1	1.2	0.5	27	471.70
		14#	2	0.6	1	38	370.37
		14#	5	1.5	0.5	24	370.37
		19#	10	1.2	0.5	27	454.55
		16#	15	1.2	0.5	27	401.93
		16#	20	1.5	0.5	24	428.72
		25#	30	1	0.5	30	457.55
		17#	50	1	0.5	30	450.05
		18#	70	1	0.5	30	488.37
		15#	30	1.2	0.5	27	416.67
		24#	50	1.2	0.5	27	457.37
		35#	70	1.2	0.5	27	456.56
		36#	100	1.5	0.5	24	387.07
	DZ25-3L	15#	16	1	0.5	30	454.98
		24#	30	1.2	0.5	27	389.61
		35#	150	4	0.5	12	442.91
		36#	200	4	0.5	12	500.00
DF600 PlusIII CF600 PlusIII	DZ25-6L	15#	30	1.2	0.5	27	500.00
		24#	50	1.2	0.5	27	454.55
		35#	70	1.2	0.5	27	437.50
		36#	100	1.5	0.5	24	400.00
DF350 Plus CF350 Plus	DY15	14#	0.5	0.5	0.8	40	94.19
		14#	1	0.6	0.8	38	156.99
		14#	3	1	0.5	30	282.57
		19#	5	1	0.8	30	234.38
		16#	15	1.5	0.5	24	290.42
		25#	20	1	0.5	30	258.29
		17#	30	1	0.5	30	282.53
		18#	100	2.5	0.5	17	251.73
	DY25	15#	10	0.8	0.8	33	177.35
		24#	30	1	0.8	30	235.94
		35#	70	1.5	0.5	24	272.21
		36#	100	2	0.5	20	241.94
DF600 PlusIV CF600 PlusIV	YZ35	26#	50	1	0.5	30	434.78
		26#	100	2	0.5	20	434.78
		73#	100	1.2	0.5	27	406.50
		73#	150	2	0.5	20	365.85
		82#	200	1.5	0.5	24	400.00
	2*YZ35	73#	100	1.2	0.5	27	203.25
		73#	200	1.5	0.5	24	325.20
		82#	500	2	0.5	20	375.00

Basic Peristaltic Pump

LabM Series

Suitable Pump Head

EasyPump Series
(Pressure Adjustable)

EasyPump Series
(Fixed Pressure)

AMC Series

YZ Series

Model Number | LabM1-III, LabM3-III, LabM6-III

Typical Application

- University laboratory.
- Supporting ion chromatography and titrator.

Features

- 3 digital LED display motor speed, mechanical keypad control.
- Timing function, the time range of 0.5 seconds -999 seconds can be used as a simple dispensing.
- Support RS232 and RS485 communication, Modbus protocol.

Technical Specifications

Flow rate range	LabM1-III: 0.0053~775 mL/min LabM3-III: 0.0053~1808 mL/min LabM6-III: 0.0053~3100 mL/min LabM1: 0.0002~570 mL/min LabM3: 0.0002~1330 mL/min LabM6: 0.0002~2280 mL/min	External speed control signal	0-5V, 4-20mA, 0-10V
		Start/stop, direction signal	Passive switch signal,such as foot pedal switch; Active switch signal: 5-24V universal
		Communication interface	RS232, RS458 communication Modbus protocol(RTU mode)
Speed resolution	0.1rpm when the speed is 0-100rpm, 1rpm when the speed is 100-600rpm.	Power supply	AC 220V±10%, 50Hz/60Hz (standard) AC 110V±10%, 50Hz/60Hz (optional)
Testing time range	0.5s-999s	Drive dimension	261.4×157.3×236.9mm (L×W×H)
Motor type	LabM-III series: Closed-loop stepper motor LabM series: Stepper motor	Drive weight	4.40 kg
		Power consumption	<80W
Display	3 digital LED	Condition temperature	0-40℃
Control method	Mechanical keypad	Relative humidity	<80%
Keypad lifetime	300,000 times		

Product Composition and Flow Rate Range

Flow Rates Peristaltic Pump		Pump Head & Flow Rate (mL/min)			
		New Generation Quick Load Type Pump Head			
Drive&speed	Tubing	EasyPumpI/III 13#, 14#, 19#, 16#, 25#, 17#, 18#	EasyPumpII/IV 15#, 24#, 35#, 36#	EasyPumpV/VI(dual channel) 13#, 14#, 19#, 16#, 25#	
LabM1-III	0.1-150 rpm	0.0053~645	0.18~775	0.0053~295	
LabM3-III	0.1-350 rpm	0.0053~1505	0.18~1808	0.0053~688	
LabM6-III	0.1-600 rpm	0.0053~2580	0.18~3100	0.0053~1180	
Drive&speed	Tubing	YZ1515x 13#, 14#, 19#, 16# 25#, 17#, 18#	YZ2515x 15#, 24#	AMC1~AMC12(10) Inner diameter: 0.13-3mm Wall thickness: 0.8-1mm	AMC1~AMC12(6)
LabM1	0.1-150 rpm	0.007~570	0.17~435	0.0002-48(working speed≤150rpm)	0.0002-65(working speed≤150rpm)
LabM3	0.1-350 rpm	0.007~1330	0.17~1015		
LabM6	0.1-600 rpm	0.007~2280	0.17~1740		

Basic Peristaltic Pump

Features

- Closed-loop stepper motor drive, powerful and maintenance-free.
- 3 digital LED display motor speed, rotary encoded switch control.
- Suitable for industrial sites, transfer liquid with large flow and high precision.

Model Number

- M6-3L/EasyPump
- M6-3L/DZ25-3L
- M6-6L/DZ25-6L
- M6-12L/YZ35

Technical Specifications

Flow rate range	M6-3L: 0.0053~3600 mL/min M6-6L: 0.3~6000 mL/min M6-12L: 0.69~12000 mL/min	Start/stop, direction signal	Passive switch signal, such as foot pedal Active switch signal: 24V default
Speed resolution	0.1-600 rpm	Communication interface	RS232, RS485 Modbus protocol(RTU mode)
Speed range	0-100rpm, 0.1rpm; 100-600rpm, 1rpm.	Power supply	AC 220V±10% 50Hz/60Hz (standard) AC 110V±10% 50Hz/60Hz (optional)
Flow rate accuracy	<±0.5%	Drive dimension (L×W×H)	M6-3L: 223×152×199mm M6-6L: 283×192×274mm M6-12L: 302×222×331mm
Motor type	Closed-loop stepper motor		
Display	3 digital LED		
Control method	Digital knob control and mechanical keypad	Drive weight	M6-3L: 5.02kg; M6-6L: 7.85kg M6-12L: 13.14kg
Keypad lifetime	300,000 times	Power consumption	M6-3L: <80W; M6-6L:<180W M6-12L: <300W
External speed control signal	0-5V, 0-10V, 4-20mA	Condition temperature	0-40℃
		Relative humidity	<80%

Product Composition and Flow Rate Range

Drive	Motor Type	Pump Head	Tubing Size	Speed Range(rpm)	Flow Rate(mL/min)
M6-3L	Closed-loop stepper motor	EasyPump	13#, 14#, 19#, 16#, 25#, 17# 18#/ 15#, 24#, 35#, 36#	0.1-600	0.0053~3100
		DZ25-3L	15#, 24#, 35#, 36#		0.211~3600
M6-6L		DZ25-6L	15#, 24#, 35#, 36#		0.3~6000
M6-12L		YZ35	26#, 73#, 82#		0.69~12000

Basic Peristaltic Pump

3 years warranty

BT100N, BT300N, BT600N

Suitable Pump Head

AMC Series

YZ Series

Features

- Plastic coated metal housing, compact structure.
- Timing function, time range 0.5s–999s, can be used for simple dispense.
- RS232, RS485 Communication Interface.
- Support Shenchen communication protocol or standard Modbus communication protocol(RTU mode).

Technical Specifications

Flow rate range	BT100N: 0.0002~570 mL/min BT300N: 0.0002~1330 mL/min BT600N: 0.0002~2280 mL/min	Start/stop, reversing signal	Passive switch signal, such as foot pedal Active switch signal: 5V,12V,24V for option
Speed range	0.1-600rpm	Communication interface	RS232, RS458 communication Modbus protocol(RTU mode)
Speed resolution	0-100rpm, 0.1rpm; 100-600rpm, 1rpm	Power supply	AC 220V±10% 50Hz/60Hz (standard) AC 110V±10% 50Hz/60Hz (optional)
Testing time range	0.5 s-999 s	Drive dimension	183×131×194mm
Display	LED Display	Drive weight	4.20 kg
Control method	Mechanical keypad	Power consumption	<50W
Keypad lifetime	300,000 times	Condition temperature	0-40℃
External speed control signal	0-5V, 4-20mA, 0-10V for option	Relative humidity	<80%

Product Composition and Flow Rate Range

Flow Rates Peristaltic Pump		Pump Head & Flow Rate (mL/min)			
		YZ1515x	YZ2515x	AMC1~AMC12(10)	AMC1~AMC12(6)
Drive&speed	Tubing	13#, 14#, 19#, 16# 25#, 17#, 18#	15#, 24#	Inner diameter: 0.13-3mm Wall thickness: 0.8-1mm	
BT100N	0.1-150 rpm	0.007~570	0.17~435	0.0002-48(working speed≤150rpm)	0.0002-65(working speed≤150rpm)
BT300N	0.1-350 rpm	0.007~1330	0.17~1015		
BT600N	0.1-600 rpm	0.007~2280	0.17~1740		

Planetary Gear Type Industrial Peristaltic Pump

J025

Product Introduction

J025 peristaltic pump head use aluminum alloy shell, 304 stainless steel rollers, long lifetime, corrosion resistance; big flow rate, high pressure, suitable for transfer high viscosity and high lift liquid; Driven by AC motor, can use frequency adapter to adjust speed and flow rate, can also connect with PLC, IPC and computers.

Typical Application

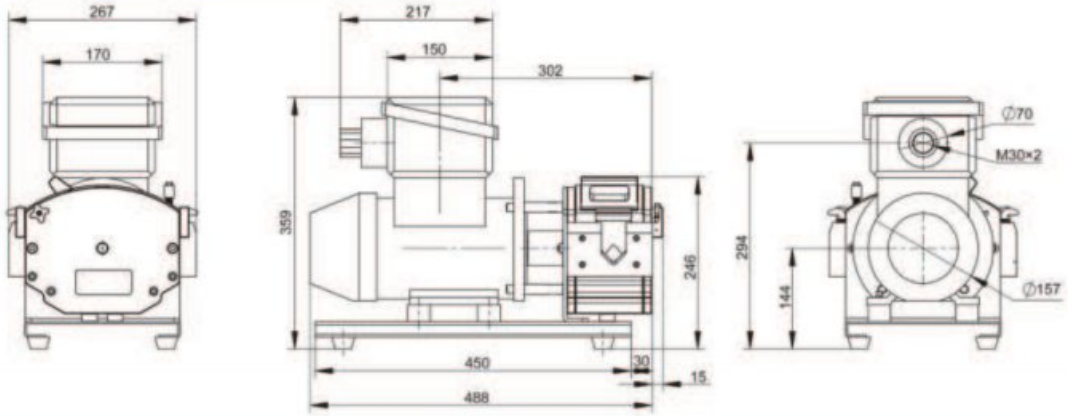
- Bio-medical
- Chemical industry
- Environmental protection

DZ45-I

DZ45-II

Roller Components

Dimension Drawing(Unit: mm)



Product Composition and Flow Rate Range

Drive	Pump Head	Power Supply	Power	Speed (rpm)	Tubing		Flow Rate (L/min)	Pressure (Mpa)		Weight
					Size	ID*Wall thickness (mm)		Continuous	Intermittent	
J025	DZ45	AC380V/ AC220V	370W	37.5-350	88#	12.7*4.8	1.0-12.5	0.25	0.3	30kg
				37.5-270	92#	25.4*4.8	3.68-28.15			

Explosion Proof Peristaltic Pump

EXP600/EasyPump

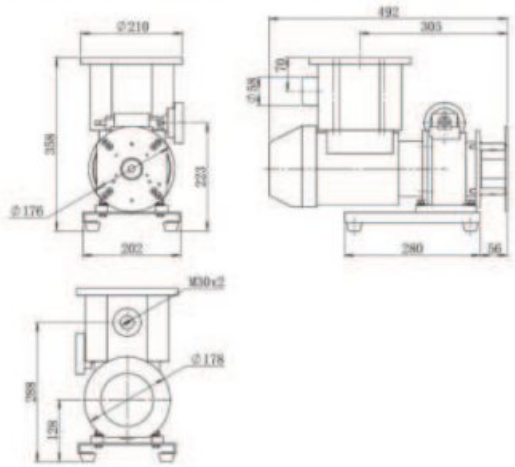
Features

Driven by explosion-proof motor, the power is strong.
Stepless speed regulation, reversible inversion.

IP rate: IP55
Explosion-proof grade:ExdIIBT4 Gb

Suitable for inflammable and explosive industrial sites.

Dimension Drawing(Unit: mm)



EXP600 with Frequency Converter

Technical Specifications			
Speed range	Manual control: 180-600 rpm Frequency converter control: 60-600rpm	Condition temperature	0~40℃
		Relative humidity	<80%
Speed control	Manual stepless speed regulation/ Inverter speed regulation	Explosion-proof grade	ExdIIBT4 Gb,ExdIICT4
		IP rate	IP55
Voltage	3 phase 380V(standard)/ 3 phase 220V(optional)	Drive weight	30 kg
		Drive dimension(L×W×H)	424×230×330(mm)

Product Composition and Flow Rate Range

Drive	Speed(rpm)	Pump Head	Tubing Size	Flow Rate (mL/min)
EXP600	60-600	AMC	1×1, 2×1, 2.4×0.8, 3×1, 0.13×0.86, 0.19×0.86, 0.25×0.86, 0.51×0.86, 0.89×0.86, 1.14×0.86, 1.42×0.86, 2.06×0.86, 2.79×0.86	0.12~65.17
		EasyPump	13#, 14#, 19#, 16#, 25#, 17#, 18#	3.18~2580
			15#, 24#, 35#, 36#	108~3100
		YZ1515x	13#, 14#, 19#, 16#, 25#, 17#, 18#	4.2~2280
		YZ2515x	15#, 24#	102~1740
		YZ35	26#, 73#, 82#	414~12000
		DZ25-3L	15#, 24#, 35#, 36#	126.6~3600
		DZ25-6L	15#, 24#, 35#, 36#	180~6000
		SN15	14#, 16#	14.4~528
		SN25	24#	150~1500
EXP300	37.5-350	DZ45	88#, 92#	1000~28150

Explosion Proof Peristaltic Pump

QD600

Features

- Pneumatic motor driver, gas driving, explosion-proof and safe.
- Stepless speed regulation, manual control flow valve. Start/stop,direction,overload protection functions.
- Barometer, convenient for users to check the pressure value.
- Suitable for inflammable,explosive industrial sites.

Suitable Pump Head


EasyPump Series

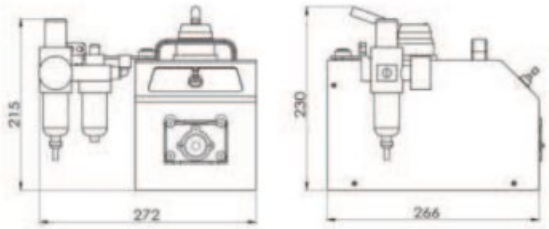

YZ Series


AMC Series

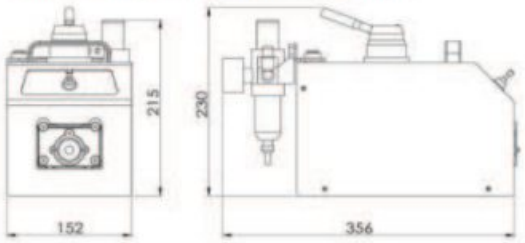

DZ25-3L

Dimension Drawing(Unit: mm)

Working status dimension drawing



Non-working status dimension drawing



Technical Specifications

Speed range	60~600 rpm	Gas consumption	0.4-8L/Sec
Display	Display air pressure	Drive dimension (L x W x H)	Working:266x 272 x 230mm
Speed control	stepless speed regulation (By adjusting the flow valve)		Non-working:356x 152 x 230mm
		Drive weight	4.10 kg
Control function	Start/stop, reversing(gas reversing valve control)	Condition temperature	0-40℃
Working air pressure	0.4-0.7Mpa	Relative humidity	<80%

Product Composition and Flow Rate Range

Peristaltic Pump		Pump Head & Flow Rate (mL/min)			
		EasyPump		AMC1~AMC12	
Drive & Speed	Tubing	EasyPumpI/III	EasyPumpII/IV	10 roller	6 roller
		13#, 14#, 19#, 16#, 25#, 17#, 18#	15#, 24#, 35#, 36#	Inner diameter: 0.13-3mm Wall thickness: 0.8-1mm	
QD600	60-600rpm	3.18~2580	108~3100	0.12~48.38	0.12~65.17
		YZ1515x	YZ2515x	DZ25-3L	
		13#, 14#, 19#, 16# 25#, 17#, 18#	15#, 24#	15#, 24#, 35#, 36#	
		4.2~2280	102~1740	126.6~3600	

Pump Head Flow Meter

AMC Series Technical Specifications

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		

EasyPump Series 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	
EasyPumpI/III	13#	0.8×1.6	0.053	0.0053-32	0.27	0.17	0.6
	14#	1.6×1.6	0.27	0.027-162			
	19#	2.4×1.6	0.55	0.055-330			
	16#	3.1×1.6	0.933	0.093-560			
	25#	4.8×1.6	1.967	0.197-1180	0.24	0.14	
	17#	6.4×1.6	3.333	0.333-2000	0.14	0.10	
	18#	7.9×1.6	4.3	0.430-2580	0.10	0.07	
EasyPumpII/IV	15#	4.8×2.4	1.8	0.180-1080	0.27	0.17	
	24#	6.4×2.4	2.733	0.273-1640			
	35#	7.9×2.4	3.833	0.383-2300	0.24	0.14	
	36#	9.6×2.4	5.167	0.517-3100			
EasyPumpV/VI	13#	0.8×1.6	0.053	0.0053-32	0.27	0.17	
	14#	1.6×1.6	0.27	0.027-162			
	19#	2.4×1.6	0.55	0.055-330			
	16#	3.1×1.6	0.933	0.093-560			
	25#	4.8×1.6	1.967	0.197-1180	0.24	0.14	

YZ Series 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	PSF	PPS
YZ1515x	13#	0.8×1.6	0.07	0.007~42	0.27	0.17	0.40 (3 rollers)	0.46 (3 rollers)
	14#	1.6×1.6	0.27	0.027~162				
	19#	2.4×1.6	0.55	0.055~330				
	16#	3.1×1.6	0.82	0.082~492				
	25#	4.8×1.6	1.7	0.17~1020	0.24	0.14	0.44 (6 rollers)	0.50 (6 rollers)
	17#	6.4×1.6	2.9	0.29~1740	0.14	0.10		
	18#	7.9×1.6	3.8	0.38~2280	0.10	0.07		
YZ2515x	15#	4.8×2.4	1.7	0.17~1020	0.27	0.17	0.40 (3 rollers)	0.46 (3 rollers)
	24#	6.4×2.4	2.9	0.29~1740				

DZ25 Series Technical Specifications

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

YZ35 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		

MiniPump Technical Specifications

Pump Head	Tube Size	ID×Wall Thickness(mm)	Speed (rpm)	Flow Rate (mL/min)
MiniPump01	13#	0.8×1.6	0.1~300	0.0024-8.28
	14#	1.6×1.6		0.0112-33.88
	19#	2.4×1.6		0.0252-77.23
	16#	3.1×1.6		0.0394-114.31
	25#	4.8×1.6		0.0652-190.00
MiniPump01/ MiniPump02	1×1	1×1	0.1~300	0.005-15.01
	2×1	2×1		0.018-54.63
	2.5×1	2.5×1		0.0256-76.84
	3×1	3×1		0.0356-108.39

HandyPump 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	0.0031~29.36	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	
		16#	3.1×1.6	0.636	0.345		0.0636~190.76	0.0059~103.51	0.302 (6 rollers)
		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	–	

KT15 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#	0.8×1.6	0.033	0.1~600	0.0033~19.97	0.096
		14#	1.6×1.6	0.156		0.0156~93.42	
		19#	2.4×1.6	0.286		0.0286~171.6	
		16#	3.1×1.6	0.477		0.0477~286.32	
		25#	4.8×1.6	0.933		0.0933~560.04	

UD15 Technical Specifications

Model No.	Housing Material		Tubing		Speed Range(rpm)	Flow Rate (mL/min)	Weight (kg)
	Body	Protective cover	Tubing Sizes	ID×Wall Thickness			
UD15	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	

UC25 Technical Specifications

Model No.	Housing Material		Tubing		Speed Range(rpm)	Flow Rate(mL/min)	Weight (kg)
	Base	Protective cover	Tubing Sizes	ID×Wall(mm)			
UC25	PSF	PC	15#	4.8×2.4	0.1-600	0.3423~2054	1.39
			24#	6.4×2.4		0.5033~3020	
			35#	7.9×2.4		0.8588~5153	
			36#	9.6×2.4		1.1105~6663	

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

water proof

Control the pump start/stop with foot pedal switch.

Handling Dispenser Patent No: ZL201830096683.4; ZL201820353029.1

G Tube Connector

A Straight tube connector

D "Y" tube connector

C Tee tube connector

G Reducer tube connector

B "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℃

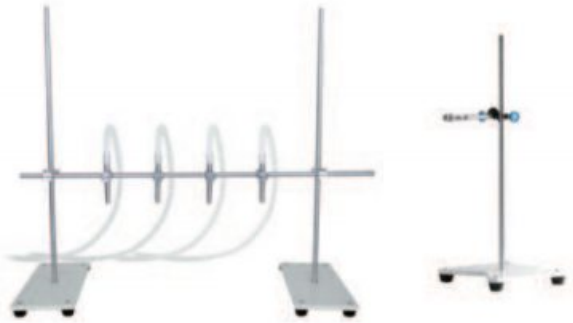
I 5V Sensor

When applied in the dispensing line, it can detect weather 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



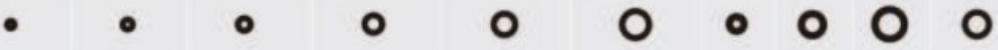
The multiple filling stand is suitable for more than 2 channels filling. It can hold 2-8 filling nozzles. We can customize the suiatble one according to your request.

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 -51~238 ℃.

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	0.1									
	Intermittent	0.1									

Basic Flow Rate Tubing

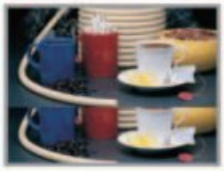
Tubing Size		13#	14#	19#	16#	25#	17#	18#	15#	24#	35#	36#
Tubing cross sections (1:1)												
Wall thickness	mm	1.6									2.4	
	inch	1/16									3/32	
Inside diameter	mm	0.8	1.6	2.4	3.2	4.8	6.4	7.9	4.8	6.4	7.9	9.6
	inch	1/32	1/16	3/32	1/8	3/16	1/4	5/16	3/16	1/4	5/16	3/8
Maximum pressure (Mpa)	Continuous	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

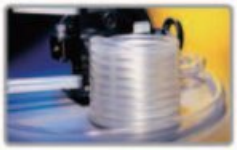
Tubing Size		26#	73#	82#	86#	90#	88#	92#
Tubing cross sections (1:1)								
Wall thickness	mm	3.3			6.4		4.8	
	inch	1/8			1/4		3/16	
Inside diameter	mm	6.4	9.6	12.7	9.5	19	12.7	25.4
	inch	1/4	3/8	1/2	3/8	3/4	1/2	1
Maximum pressure (Mpa)	Continuous	0.2				0.25		
	Intermittent	0.27				0.3		

Peristaltic Pump Tubing

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

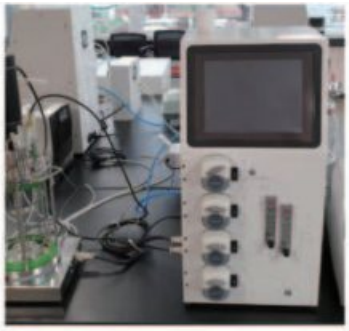
	A Tygon3350	B Tygon E-3603	C Norprene Chemical	D PharMed	E Norprene A-60-F
					
Formulation	Tygon3350	Tygon R-3603	Norprene Chemical	PharMed	Norprene A-60-F
Application	Pharmaceutical, cosmetic, medical and autoanalysis application.	General laboratory, food & beverage, biopharmaceutical, analytical instruments.	Elcellent 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 fluidexposure; 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℃ (250°F). 1KG/cm³ (15psi) for 30 minutes (tubing will appear milky); air dry at max 66℃ (150°F) for 2 to 2 ½ hours until clear.	Sterilize with ethyleneoxide(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

	F Norprene A-60-G	G Tygon F-4040-A	H Tygon LFL	I TYGON 2475	K Viton
					
Formulation	Norprene A-60-G	Tygon F-4040-A	Tygon LFL	TYGON 2475	Viton
Application	For applications requiring excellent chemical, heat, ozone, and ultraviolet (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. lear 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. Registand 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.

Pump Head & OEM

APPLICATION

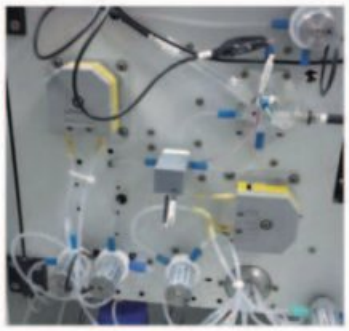


Fermentation tank supporting

Filling system support

Ocean detection analyzer

Cosmetic filling



Analysis instrument supporting

Environmental equipment support

Analysis instrument supporting

Reagents dispensing

OEM PRODUCT

Quality casts Magnificence!

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.

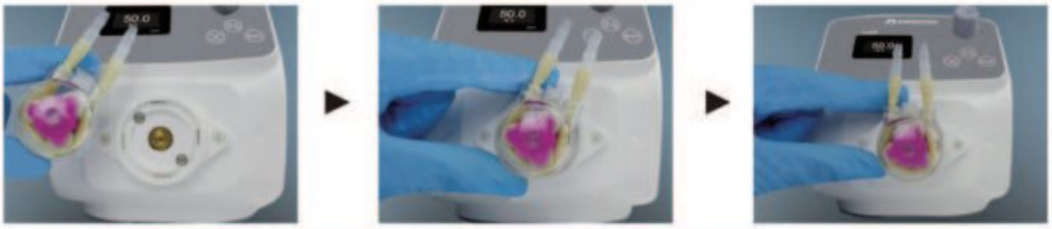
Model No.

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

Industry Application

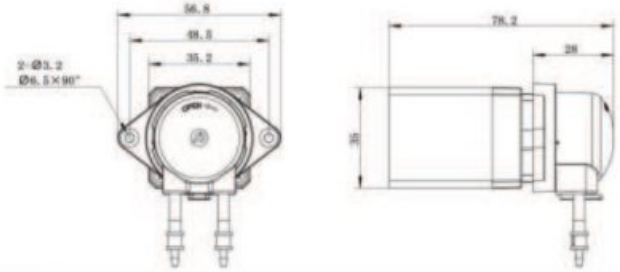
- Biochemical analyzer,support medical equipment
- Plant protection drone

Pump Head Installation Procedure



35 Stepper motor

Dimension Drawing(Unit: mm)

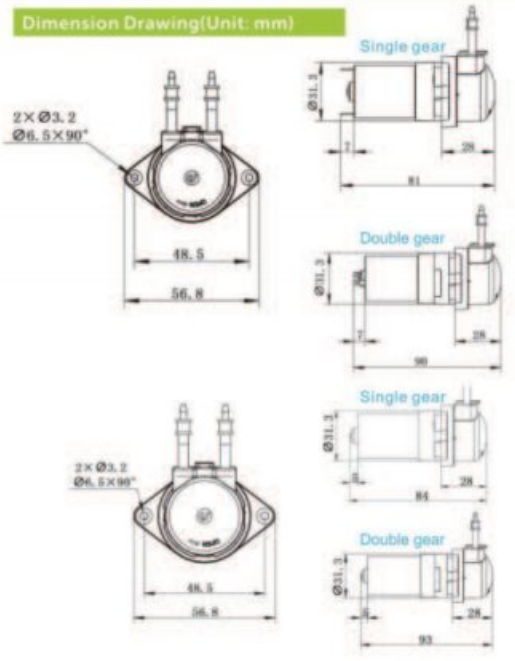


DC motor

DC Brush

DC Brushness

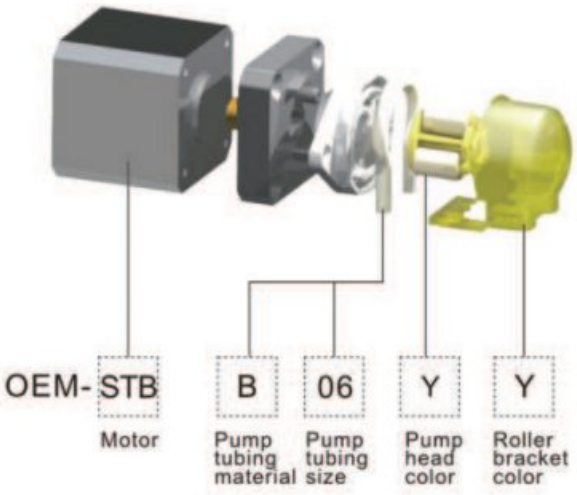
Dimension Drawing(Unit: mm)



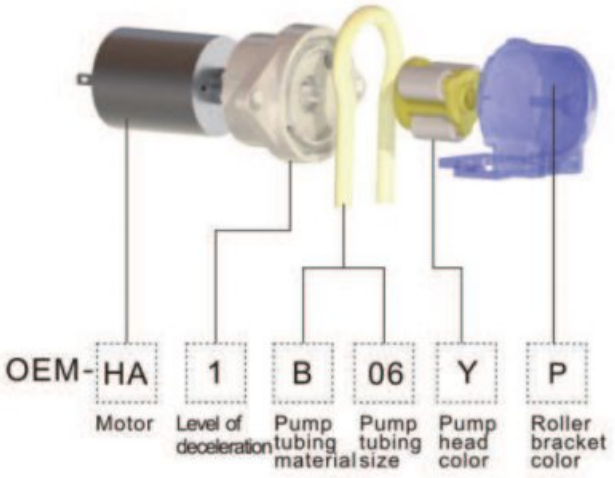
Patent No: ZL2017304471821; ZL201721210095.5

Compact Pump Head

Stepper motor breakdown drawing



DC motor breakdown drawing



Color Selection

Pump head housing and roller bracket color					
Pump head color	Transparency	Green	Red	Yellow	Purple
	T	G	R	Y	P
Roller bracket color	White	Green	Red	Yellow	Blue
	W	G	R	Y	B

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.			B03	B04	B06	B10	B22
Tubing ID. (wall thickness 1mm)			0.51*0.86	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	PharMed BPT
Flow rate (mL/min)	24V Brush/Brushless HA/HD	Single gear	4.55	14.88	50.05	110.27	149.23
		Double gear	0.35	1.28	4.29	9.45	12.79
	12V Brush/Brushless HB/HE	Single gear	4.55	14.88	50.05	110.27	149.23
		Double gear	0.35	1.28	4.29	9.45	12.79
	6V Brush/Brushless HC/HF	Single gear	4.55	14.88	50.05	110.27	149.23
		Double gear	0.35	1.28	4.29	9.45	12.79
	35Stepper motor(350rpm)STB		4.55	14.88	50.05	110.27	——
	42Stepper motor(350rpm)STA		4.55	14.88	50.05	110.27	149.23

Compact Pump Head

KT15

(4 rollers)

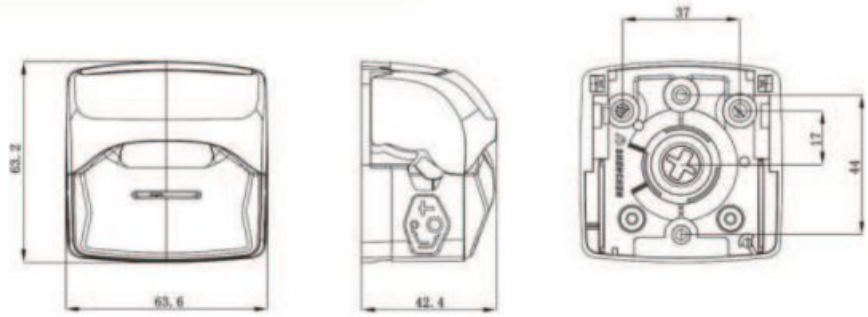
Product Introduction

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

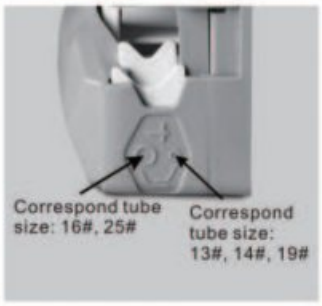
- Medical equipment, biotechnology, pharmaceutical
- Chemical and food industries

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

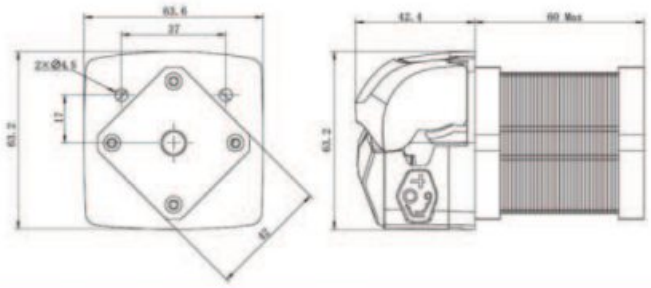
Pump Head	Channel number	Tubing	ID×Wall thickness(mm)	mL / r	Speed(rpm)	Flow Rate(mL/min)	Weight(kg)
KT15	Single channel	13#	0.8×1.6	0.033	0.1~600	0.0033~19.97	0.096
		14#	1.6×1.6	0.156		0.0156~93.42	
		19#	2.4×1.6	0.286		0.0286~171.6	
		16#	3.1×1.6	0.477		0.0477~286.32	
		25#	4.8×1.6	0.933		0.0933~560.04	

OEM Product

Compact Pump Head KT15

OEM-KTB001 (42 stepper motor)

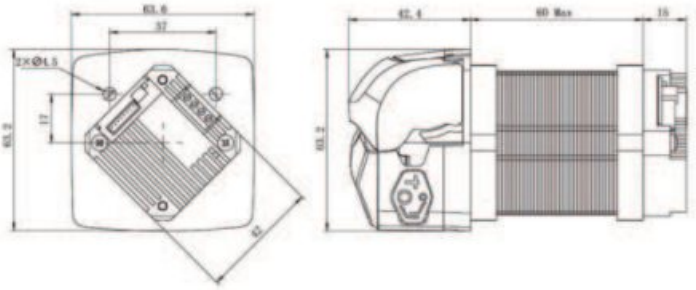
Dimension Drawing(Unit: mm)



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℃, 80%RH

OEM-KTB002/003/004 (42 stepper motor)

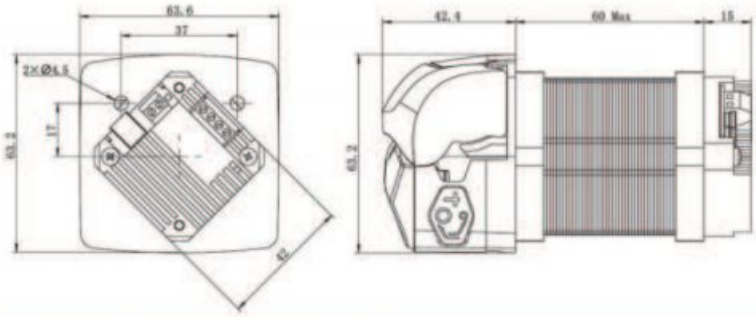
Dimension Drawing(Unit: mm)



OEM-KTB002/003/004 Technical Specifications			
Speed range	0.1-400rpm	Speed control	OEM-KTB002: 4-20mA Analog signal OEM-KTB003: 0-5V Analog signal OEM-KTB004: 0-10V Analog signal
Flow rate range	0.0033-373.2mL/min		
Motor type	42 stepper motor		
Control mode	Passive switch signal control start/stop and direction	Power supply	DC24V,≥36W
		Working environment	0-40℃, 80%RH

OEM-KTB005

Dimension Drawing(Unit: mm)



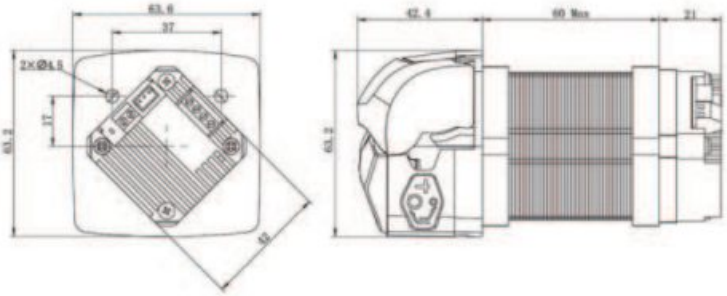
OEM-KTB005 Technical Specifications			
Speed range	0.1-400rpm	Motor type	42 stepper motor
Flow rate range	0.0033-373.2mL/min	Power supply	DC24V,≥36W
Speed control	Preset speed or serial port control	Working environment	0-40℃, 80%RH

OEM Product

Compact Pump Head KT15

OEM-KTB009/KTB010

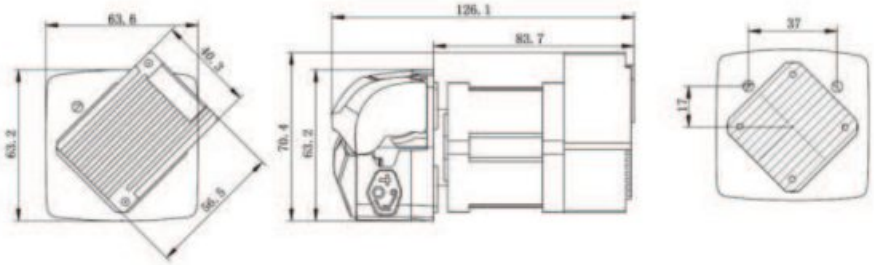
Dimension Drawing(Unit: mm)



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℃, 80%RH

OEM-KTB012

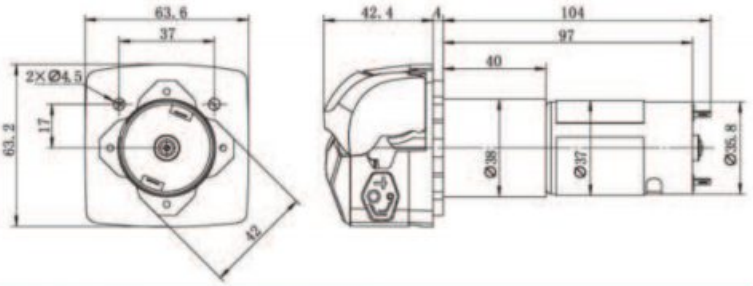
Dimension Drawing(Unit: mm)



OEM-KTB012Technical 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℃, 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℃, 80%RH
Motor type	DC geared motor		

Compact Pump Head

MiniPump Series

(4 rollers)

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.

Connection type installation hose

Standard fast plug , convenient for external connection with different materials of the tube, flexible application , 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.

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.

Typical Application

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

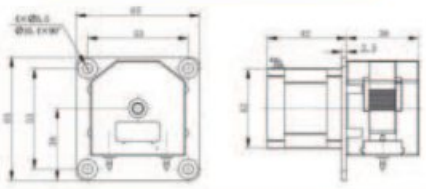
C. Make the compression block align the upper slide way of pump head.

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

Patent No: ZL201130002460.5; ZL201120015673.6

OEM-B01

Dimension Drawing(Unit: mm)

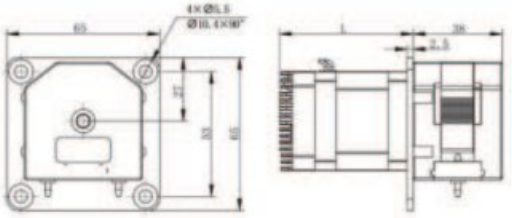


OEM-B01 Technical Specifications	
Speed range	0.1-300 rpm
Flow rate range	190mL/min
Motor type	42 stepper motor
Motor phase number	2
Motor step angle	1.8°
Motor phase voltage	2.2V
Motor phase current	1.0A
Working environment	0-40℃, 80%RH

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



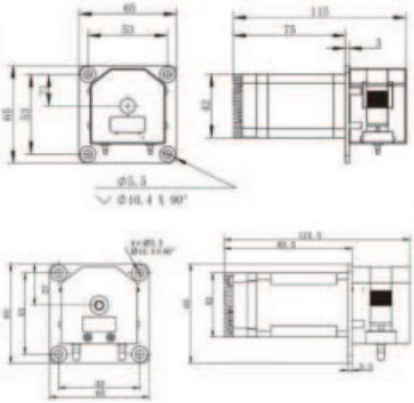
OEM-B02 Technical Specifications	
Speed range	0.1–300 rpm
Flow rate range	0.0024–190mL/min
Speed control	Preset speed or serial port control
Motor type	42 stepper motor
Power supply	DC 24V, ≥24W
Working environment	0-40℃, 80%RH

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℃, 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, 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℃, 80%RH

OEM-B047 OEM-B048 OEM-B049 OEM-060 OEM-061

Dimension Drawing(Unit: mm)

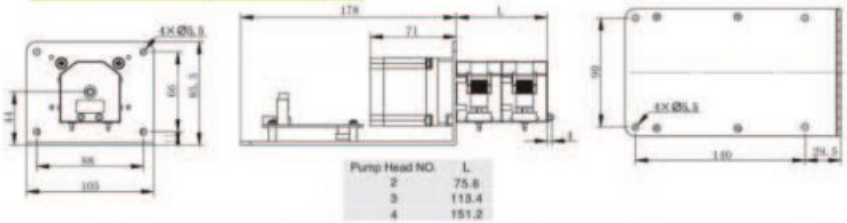


Model No.	OEM-B047/OEM-B048/OEM-B049
Speed range	0.1-300 rpm
Flow rate range	0.0024-190mL/min
Outer control	Passive switch signal control start/stop and direction
Speed control	OEM-B047:External potentiometer speed control 0-5V OEM-B048: External potentiometer speed control 0-10V OEM-B049: External potentiometer speed control 4-20mA
Motor type	42 stepper motor
Power supply	DC 24V, ⩾36W
Working environment	0-40℃, 80%RH

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℃, 80%RH

OEM-B136, OEM-B137

Dimension Drawing(Unit: mm)



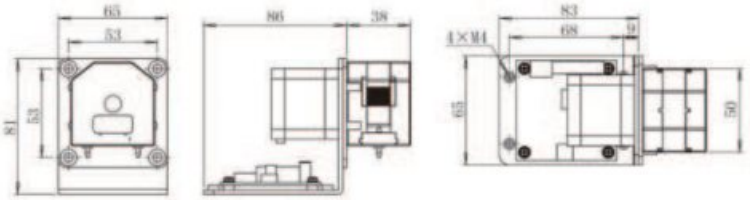
Pump Head NO.	L
2	75.6
3	113.4
4	151.2

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℃, 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, 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℃, 80%RH

OEM-B013

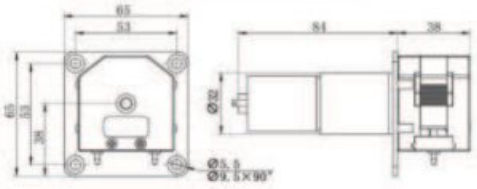
Dimension Drawing(Unit: mm)



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℃, 80%RH

OEM-MZ Series

Dimension Drawing(Unit: mm)

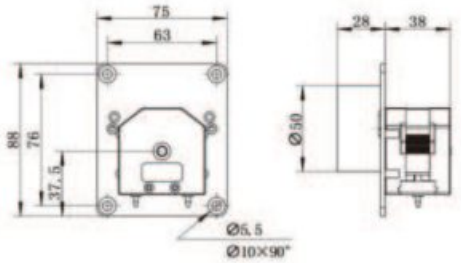


Note: OEM-MZ306 outline dimension drawing

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.

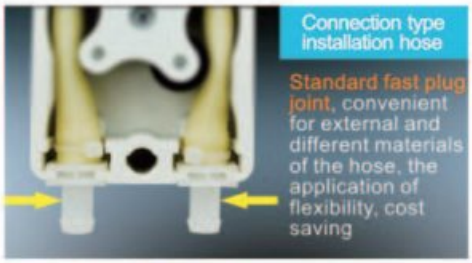
Experimental conditions:standard atmospheric pressure, room temperature at 20°C,the liquid is pure water, no pressure, no suction and lift.
Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data 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

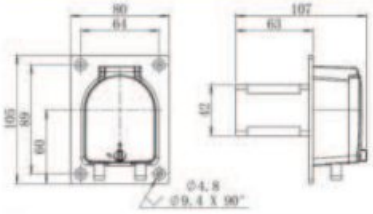
Compact Pump Head

UD15

(2 rollers)



Dimension Drawing(Unit: mm)



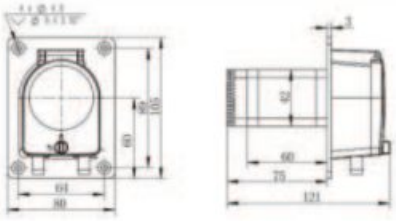
Product Introduction

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℃, 80%RH

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

Dimension Drawing(Unit: mm)



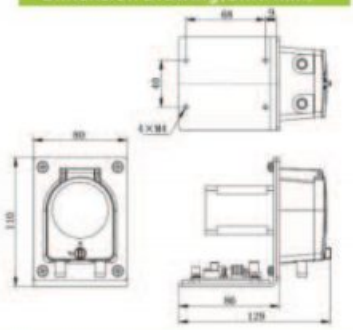
OEM-UB02 Technical Specifications	
Speed range	0.1–350 rpm
Flow rate range	0.08–930mL/min
Speed control	Preset speed or serial port control
Motor type	42 stepper motor
Power supply	DC 24V, ⩾36W
Working environment	0-40℃, 80%RH

OEM-UB09/UB010Technical Specifications	
Speed range	0.1–350 rpm
Flow rate range	0.08–930mL/min
Speed control	External input pulse frequency speed control
Subdivision settings	1/16(recommend), 1, 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℃, 80%RH

OEM-UB016 Technical Specifications	
Speed range	0.1–350 rpm
Flow rate range	0.08–930mL/min
Speed control	Adjust speed by internal potentiometer
Motor type	42 stepper motor
Power supply	DC 24V, ⩾36W
Working environment	0-40℃, 80%RH

OEM-UB04

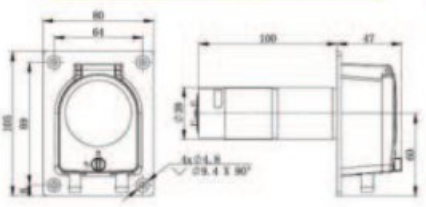
Dimension Drawing(Unit: mm)



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℃, 80%RH

OEM-UXZ Series

Dimension Drawing(Unit: mm)



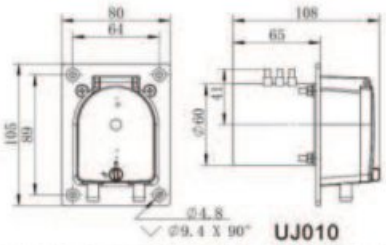
Model No.	Motor Type	Power Supply	Motor Speed (rpm±10%)	Flow Rate (mL/min)
OEM-UXZ03	Φ37 DC planetary gear motor	DC12V	150	≤398
OEM-UXZ06			350	≤930
OEM-UXZ13		DC24V	150	≤398
OEM-UXZ16			350	≤930

Compact Pump Head

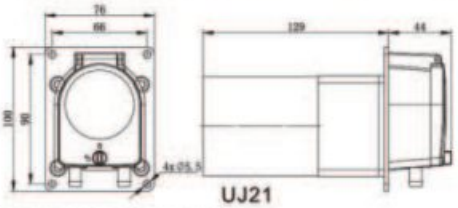
OEM-UJ Series

Model No.	Motor Type	Power Supply	Motor Speed (rpm±10%)	Flow Rate (mL/min)
OEM-UJ010	AC motor	AC220V	80	≤212
OEM-UJ21	Φ70 ACmotor	AC220V	350	≤930

Dimension Drawing(Unit: mm)



UJ010



UJ21

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	

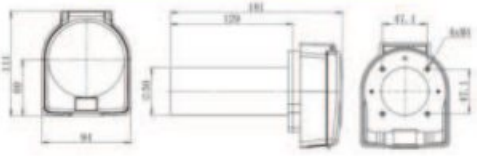
Compact Pump Head

Product Introduction

UC25, compact pump head, functional design, more practical. Transparent protective cover,can observe the working situation anytime; uncover signal output, stop working when uncover to ensure safety; running smoothly, low noise; support DC motor, brushless DC motor,stepper motor, closed-loop stepper motor and AC motor.

(2 rollers) OEM-UCXZ Series

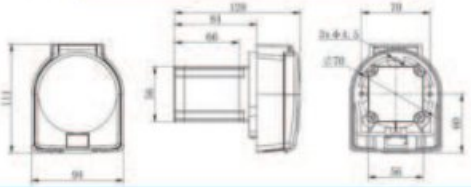
Dimension Drawing(Unit: mm)



DC motor Technical Specifications	
Model No.	UCXZ00X001, UCXZ00X101, UCXZ00X201, UCXZ00X301
Motor type	Brush/Brushless DC planetary gear motor
Voltage	DC12V/DC24V
Speed(rpm)	300
Working environment	0-40℃, 80%RH

OEM-B236

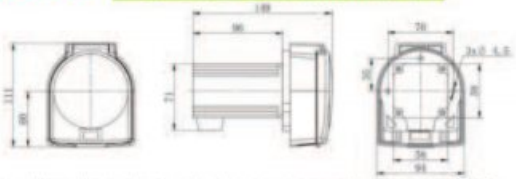
Dimension Drawing(Unit: mm)



Step motor Technical Specifications	
Model No.	OEM-B236
Motor type	57 stepper motor
Motor phase number	2
Motor step angle	1.8°
Motor phase voltage	1.5V
Motor phase current	3A
Working environment	0-40℃, 80%RH

OEM-UCB001

Dimension Drawing(Unit: mm)



Servo motor Technical Specifications	
Model No.	OEM-UCB001
Motor type	57 Closed-loop stepper motor
Motor phase number	2
Motor step angle	1.8°
Motor phase voltage	1.9V
Motor phase current	5A
Encoder power voltage	DC5V (±10%)
Encoder resolution	1000cpr
Working environment	0-40℃, 80%RH

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		Speed Range(rpm)	Flow Rate(mL/min)	Weight (kg)
	Base	Protective cover	Tubing Sizes	ID×Wall(mm)			
UC25 (2 rollers)	PSF	PC	15#	4.8×2.4	0.1-600	0.3423~2054	1.39
			24#	6.4×2.4		0.5033~3020	
			35#	7.9×2.4		0.8588~5153	
			36#	9.6×2.4		1.1105~6663	

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.

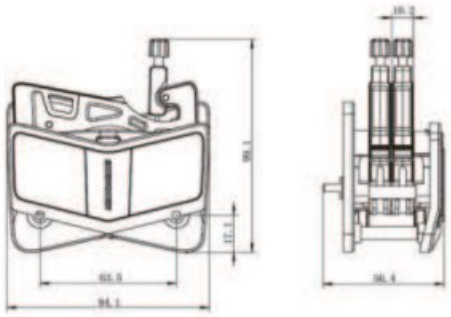
Product Features

- 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.

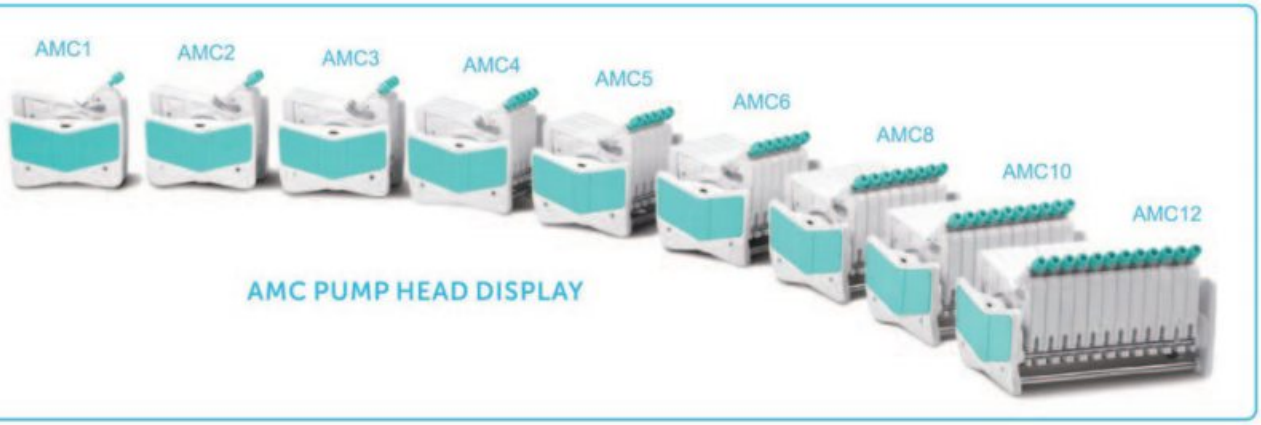
Typical Application

- 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

Patent No: ZL202030250105.9; ZL202030250745.X; ZL202030250744.5; ZL201922187842.3
EU patent number: 008005789-0001

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								

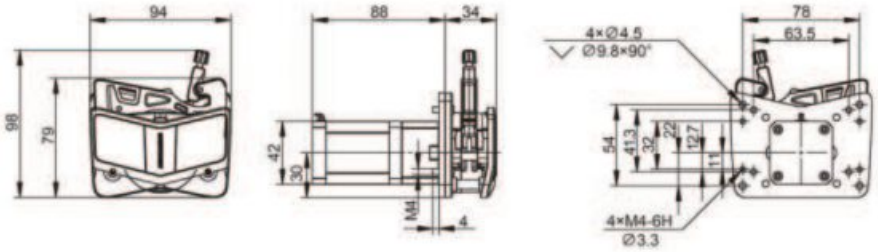
Tubing	Speed	Flow rate of pump head with 10 rollers (mL/min)	Flow rate of pump head with 6 rollers (mL/min)	Tubing maximum pressure (Mpa)	
				Continuous	Intermittent
1×1	0.1~150rpm	0.0050~7.55	0.0062~9.36	0.1	0.1
2×1		0.0183~27.52	0.0220~33.06		
2.4×0.8		0.0254~38.13	0.0319~47.81		
3×1		0.0323~48.38	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

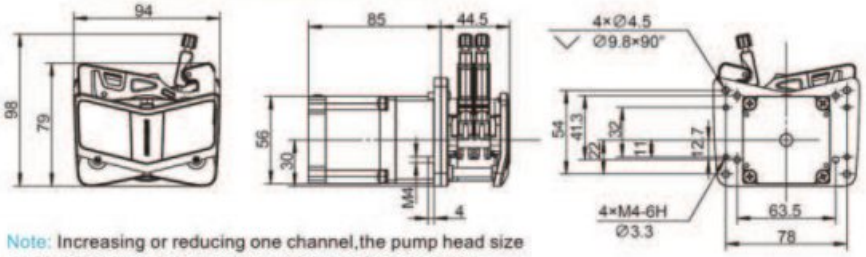
Dimension Drawing(Unit: mm)



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℃ , <80%RH

OEM-AMCB101

Dimension Drawing(Unit: mm)

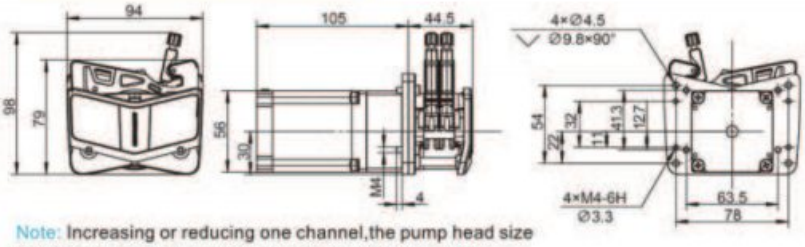


Note: Increasing or reducing one channel,the pump head size need to increase or reduce the thickness of one cartridge.

OEM-AMCB101 Technical Specifications			
Speed range	0.1-150rpm	Motor step angle	1.8°
Flow rate range	0.0002-65.17mL/min	Motor phase voltage	2.7V
Motor type	57 stepper motor	Motor phase current	3.0A
Motor phase number	2	Working environment	0-40℃ , <80%RH

OEM-AMCB201

Dimension Drawing(Unit: mm)

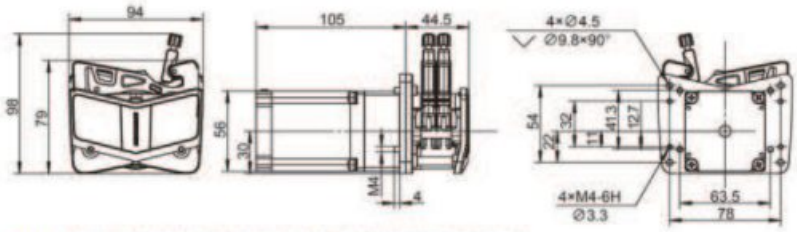


Note: Increasing or reducing one channel,the pump head size need to increase or reduce the thickness of one cartridge.

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℃,<80%RH

OEM-AMCB202

Dimension Drawing(Unit: mm)

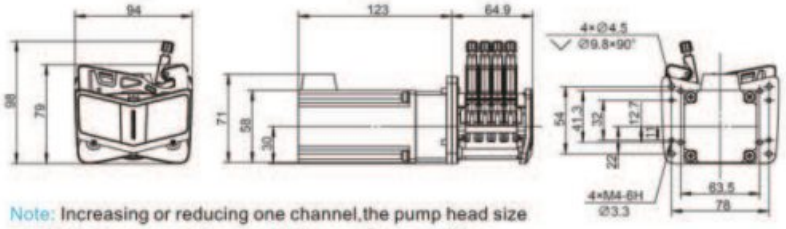


Note: Increasing or reducing one channel,the pump head size need to increase or reduce the thickness of one cartridge.

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(recommend36V),≥80W
Multiple segments	4-speed DIP switch setting (default 16 subdivisions)	Logic input voltage	5V
		Working environment	0-40℃, 80%RH

OEM-AMCB302

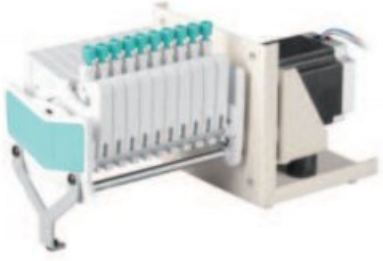
Dimension Drawing(Unit: mm)



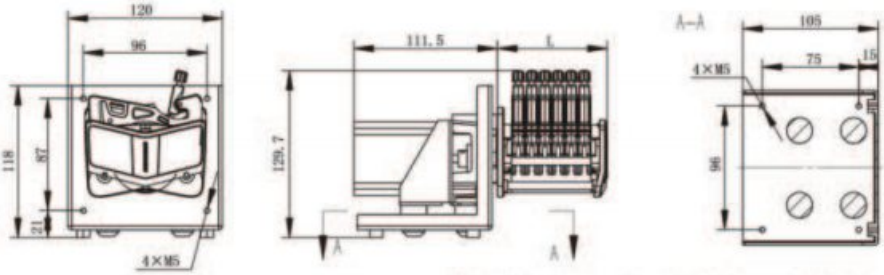
Note: Increasing or reducing one channel,the pump head size need to increase or reduce the thickness of one cartridge.

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(recommend36V),≥80W
Multiple segments	4-speed DIP switch setting (default 16 subdivisions)	Logic input voltage	5V
		Working environment	0-40℃, 80%RH

OEM-B29/AMC



Dimension Drawing(Unit: mm)



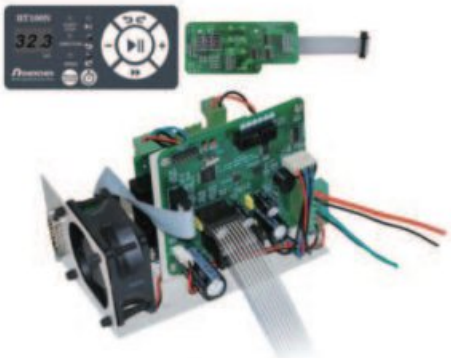
When the length of one channel is L=31mm, each additional channel L increases by 10.2mm, this picture shows 6 channels

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℃, 80%RH

Multichannel Pump Head

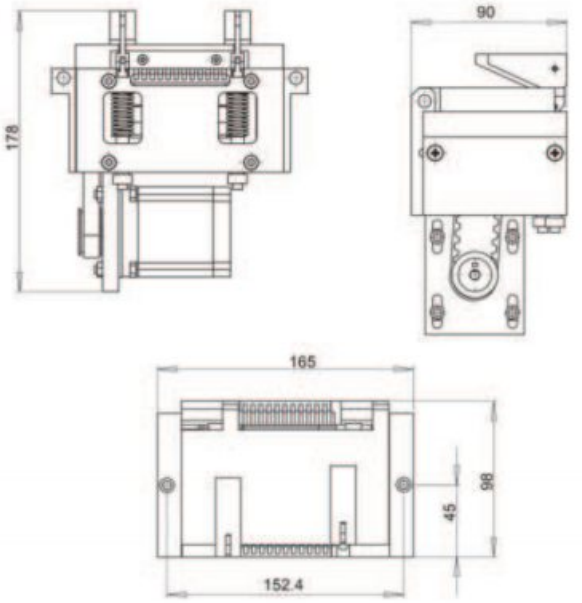
Appearance patent: 201630636794.0
Utility model patent: 201621426687.6

MT12



Embedded drive circuit

Dimension Drawing (Unit: mm)



Product Introduction

The unique complete compression solve the big error problem between channels from traditional multichannel pump.

Model Number

MT12

Typical Application

Support chemistry analytical instruments

Technical Specifications

Model No.	Housing Material	Rollers Material	Channel Number	Rollers Number	Speed (rpm)	Tubing and Flow Rate per channel (mL/min)				Tubing Maximum Pressure (Mpa)	
						0.51×0.9	1.02×0.86	2.06×0.86	2.54×0.86	Intermittent	Continuous
MT12	Aluminum alloy	304/316 stainless steel	12 channels	10 rollers	0.1~50	0.0016~0.84	0.005~2.5	0.015~7.5	0.020~10.5	0.1	0.1

Patent No: ZL201630636794.0; ZL201621426687.6

Quick Load Pump Head

EasyPump Series

(Pressure Adjustable)

(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, "theTrigger 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.

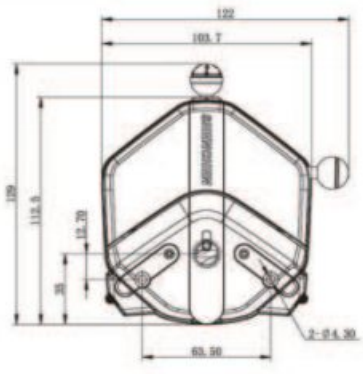
Product Features

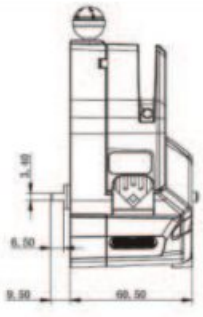
- The tube clamp linkage mechanism makes it more convenient to install the tube.
- The rubbing wheel adjustment mechanism can easily fix different size tube.
- The lever assist mechanism makes the operation more labor-saving.
- The tube pressure gap fine-tuning mechanism can adjust the pressure, extend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

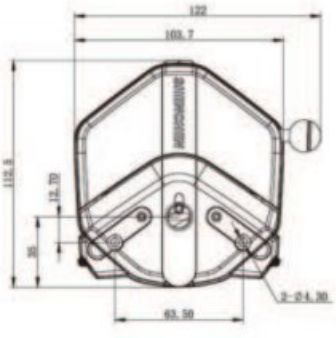
- Support COD on-line monitor.
- Support anorectal therapeutic instrument.
- Support biofermentation cylinder.

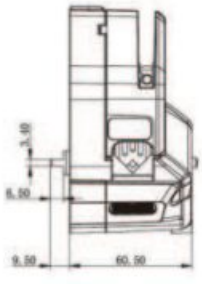
Dimension Drawing(Unit: mm)





EasyPump Pressure Adjustable

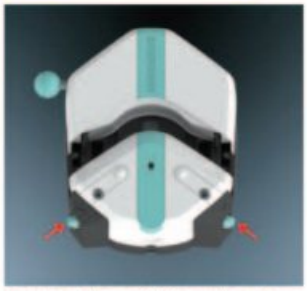




EasyPump Fixed Pressure

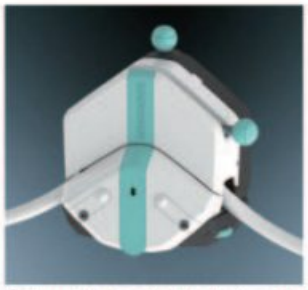
Tubing Installation Procedure

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#	0.8×1.6	0.053	0.0053-32	0.27	0.17	0.6
	14#	1.6×1.6	0.27	0.027-162			
	19#	2.4×1.6	0.55	0.055-330			
	16#	3.1×1.6	0.933	0.093-560			
	25#	4.8×1.6	1.967	0.197-1180	0.24	0.14	
	17#	6.4×1.6	3.333	0.333-2000	0.14	0.10	
	18#	7.9×1.6	4.3	0.430-2580	0.10	0.07	
Single Channel EasyPumpII/IV	15#	4.8×2.4	1.8	0.180-1080	0.27	0.17	
	24#	6.4×2.4	2.733	0.273-1640			
	35#	7.9×2.4	3.833	0.383-2300	0.24	0.14	
	36#	9.6×2.4	5.167	0.517-3100			
Dual Channel EasyPumpV/VI	13#	0.8×1.6	0.053	0.0053-32	0.27	0.17	
	14#	1.6×1.6	0.27	0.027-162			
	19#	2.4×1.6	0.55	0.055-330			
	16#	3.1×1.6	0.933	0.093-560			
	25#	4.8×1.6	1.967	0.197-1180	0.24	0.14	

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)

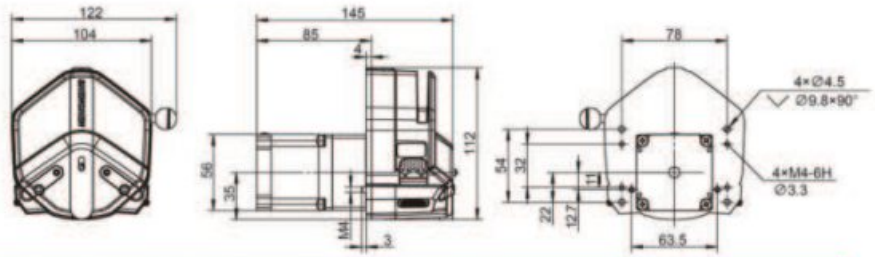
EasyPump-PPSG(Fixed Pressure)

OEM Product

Quick Load Pump Head Series EasyPump

OEM-EYB101

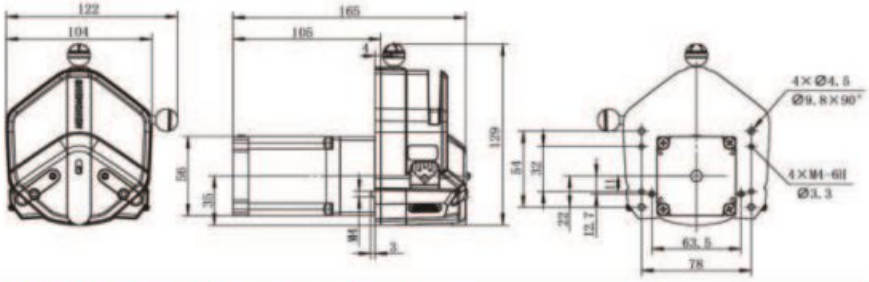
Dimension Drawing(Unit: mm)



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℃, 80%RH

OEM-EYB201

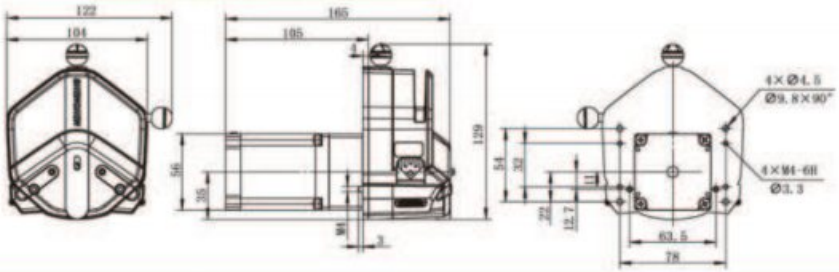
Dimension Drawing(Unit: mm)



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℃, 80%RH

OEM-EYB202

Dimension Drawing(Unit: mm)



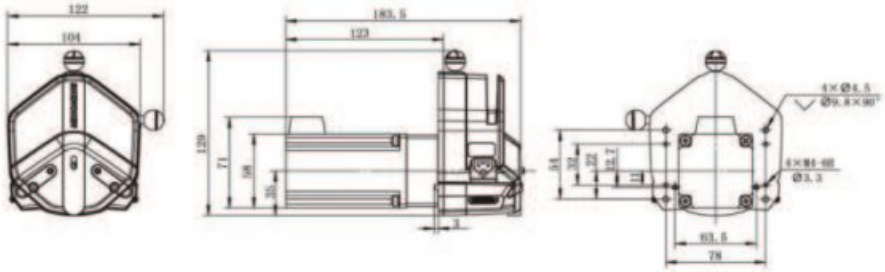
OEM-EYB202 Technical Specifications			
Speed range	0.1-600 rpm	Motor type	57 stepper motor
Flow rate range	0.0053-2580mL/min	Power supply	DC18～50V(recommend36V),≥80W
Speed control	External input pulse frequency speed control	Logic input voltage	5V
Subdivision settings	4-speed DIP switch setting(default 16 subdivisions)	Working environment	0-40℃, 80%RH
Current setting	3-speed DIP switch setting(default 2.84A)		

OEM Product

Quick Load Pump Head Series EasyPump

OEM-EYB301

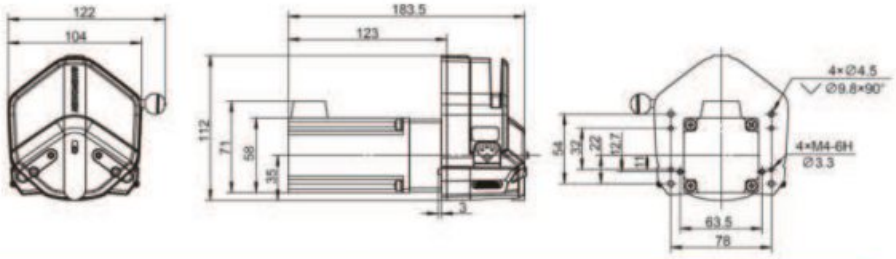
Dimension Drawing(Unit: mm)



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

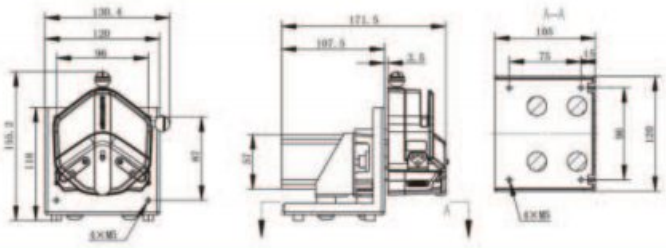
Dimension Drawing(Unit: mm)



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/EasyPump

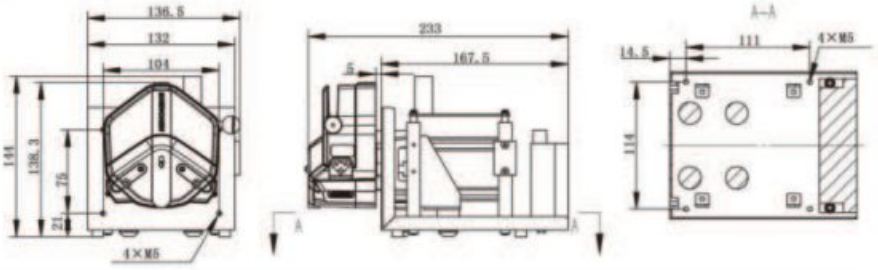
Dimension Drawing(Unit: mm)



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/EasyPump

Dimension Drawing(Unit: mm)

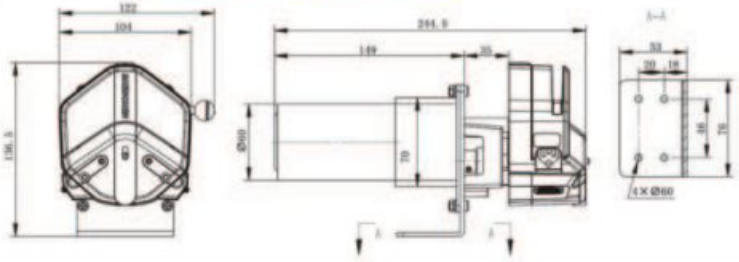


OEM-B242/B243/B244 Technical Specifications

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℃, 80%RH
Max.flow rate	2580mL/min		

OEM-Z216/EasyPump(DC motor)

Dimension Drawing(Unit: mm)

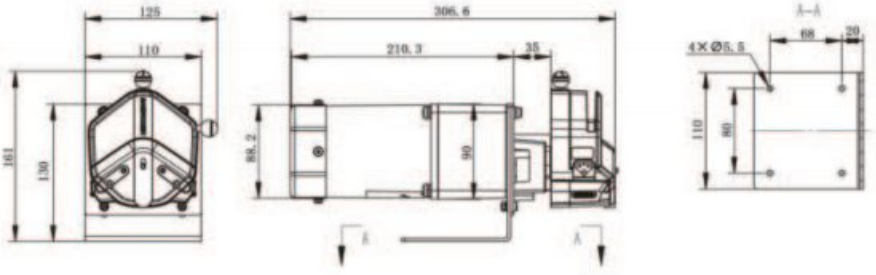


OEM-Z216 Technical Specifications

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

OEM-J022/EasyPump(AC motor)

Dimension Drawing(Unit: mm)

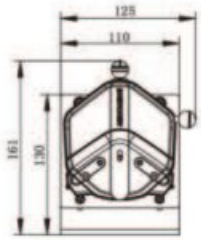


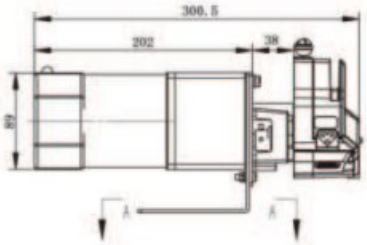
OEM-J022 Technical Specifications

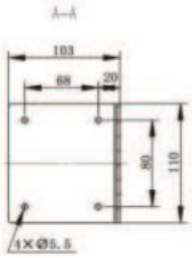
Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-J022	AC geared motor	AC220V/AC110V	430	≤±10%	0-40℃, 80%RH

OEM-JT12/EasyPump

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℃, 80%RH

Quick Load Pump Head

HandyPump

Single channel

Dual channel (3/6rollers)

Product Features

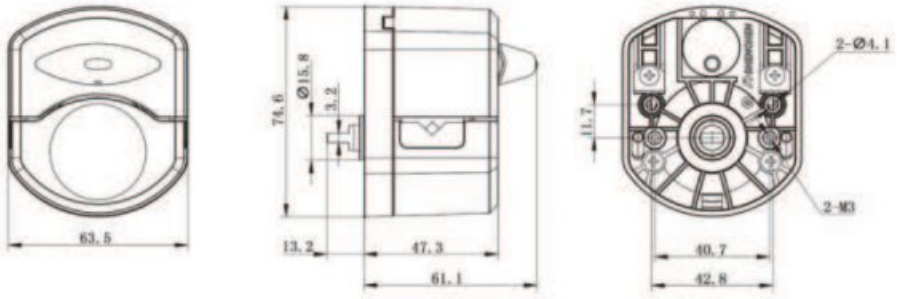
- Flow rate range: 0.0033-365.69mL/min (3 rollers)
  0.0031-190.81mL/min (6 rollers)
- Front knob to open the pump head, save space.
- Automatic tubing retention makes tube loading easy and quick.
- Single and dual-channel head available.
- 5 different sizes tubing to meet different flow rate requirements.

Single channel
HandyPump01

Dual channel
HandyPump02

Other Color Selection(HandyPump-PPS Series)

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

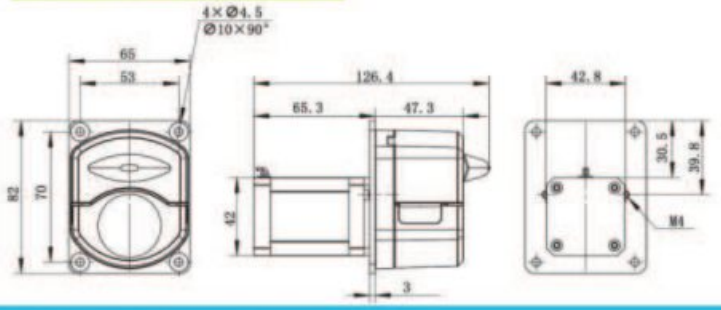
Pump Head	Channel number	Tubing	ID×Wall thickness(mm)	mL/r (3 rollers)	mL/r (6 rollers)	Speed (rpm)	Flow Rate(mL/min) (3 rollers)	Flow Rate(mL/min) (6 rollers)	Weight (kg)
HandyPump01	Single channel	13#	0.8×1.6	0.033	0.031	0.1~300	0.0033~10.03	0.0031~29.36	0.224 (3 rollers)
		14#	1.6×1.6	0.187	0.126		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	
		16#	3.1×1.6	0.636	0.345		0.0636~190.76	0.0059~103.51	0.302 (6 rollers)
		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)

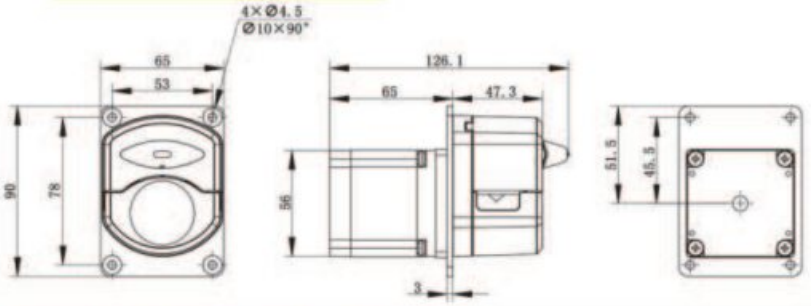
Dimension Drawing(Unit: mm)



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℃, 80%RH

OEM-HYB101(57stepper motor)

Dimension Drawing(Unit: mm)

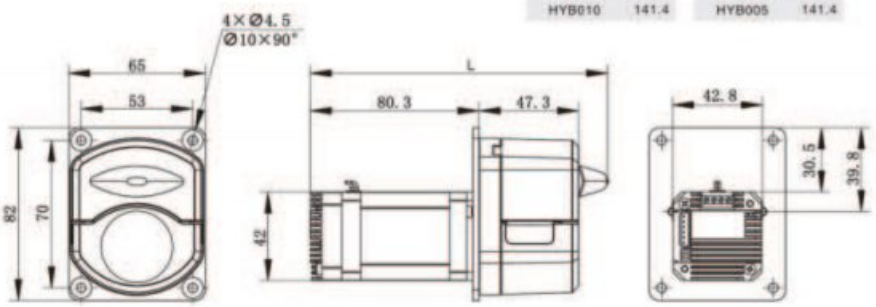


OEM-HYB101 Technical Specifications			
Speed range	0.1-300rpm	Motor step angle	1.8°
Flow rate range	0.0033-365.69mL/min	Motor phase voltage	3.3V
Motor type	57stepper motor	Motor phase current	3.0A
Motor phase number	2	Working environment	0-40℃, 80%RH

OEM-HYB018(stepper motor)

Dimension Drawing(Unit: mm)

Model No.	L	Model No.	L
HYB018	147.4	HYB003	141.4
HYB009	141.4	HYB004	141.4
HYB010	141.4	HYB005	141.4



OEM-HYB003/004/005 Technical Specifications			
Speed range	0.1-300rpm	Speed control	OEM-HYB003: 4-20mA Analog signal OEM-HYB004: 0-5V Analog signal OEM-HYB005: 0-10V Analog signal
Flow rate range	0.0033-365.69mL/min		
Motor type	42 stepper motor		
Outer control	Passive switch signal control start/stop and direction	Power supply	DC 24V, ≥36W
		Working environment	0-40℃, 80%RH

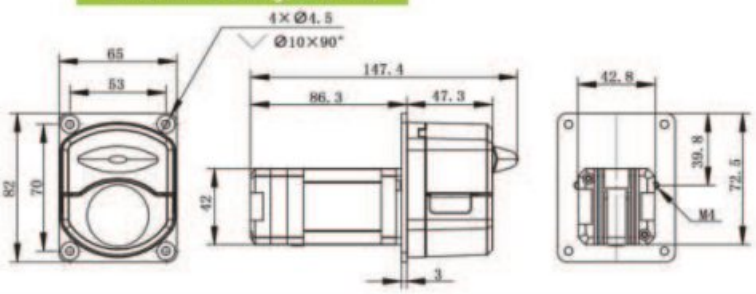
OEM-HYB018 Technical Specifications	
Speed range	0.1-300 rpm
Flow rate range	0.0033-365.69mL/min
Speed control	External input pulse frequency speed control
Subdivision settings	1/16(recommend), 1, 1/2, 1/4, 1/8, 1/32, 1/64, 1/128
Motor type	42 stepper motor
Power supply	DC 24V, ≥36W
Working environment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

OEM-HYB009 Technical Specifications	
Speed range	0.1-300 rpm
Flow rate range	0.0033-365.69mL/min
Speed control	Preset speed or serial port control
Motor type	42 stepper motor
Power supply	DC 24V, ≥36W
Working environment	0-40℃, 80%RH

OEM-HYB010 Technical Specifications	
Speed range	0.1-300 rpm
Flow rate range	0.0033-365.69mL/min
Speed control	Adjust speed by internal potentiometer
Motor type	42 stepper motor
Power supply	DC 24V, ≥36W
Working environment	0-40℃, 80%RH

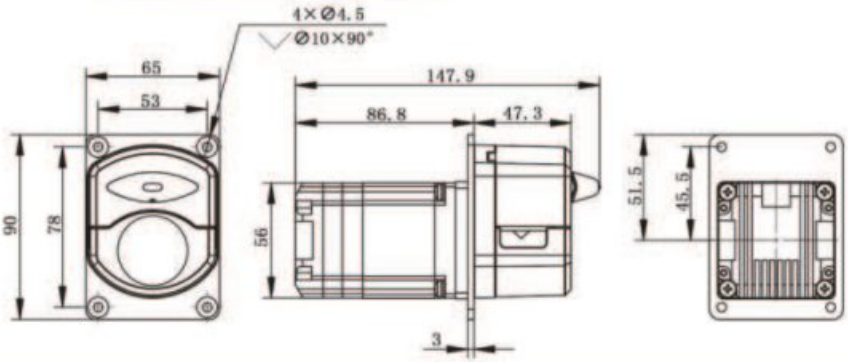
OEM-HYB019(42 stepper motor)

Dimension Drawing(Unit: mm)



OEM-HYB109(57 stepper motor)

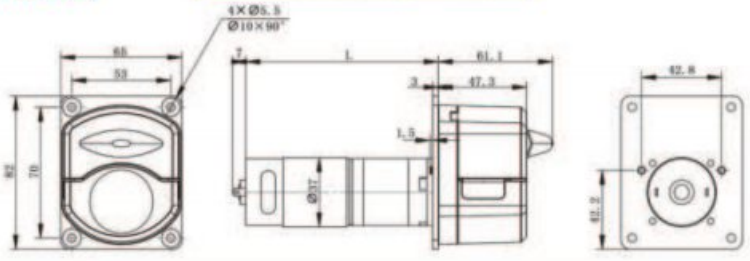
Dimension Drawing(Unit: mm)



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		
Speed control	External input pulse frequency signal	Logic input voltage	DC5V
Subdivisions	1/16 (Default) DIP switch can set a variety of subdivisions	Working environment	0-40℃, 80%RH

OEM-HYXZ Series(DC planetary gear motor)

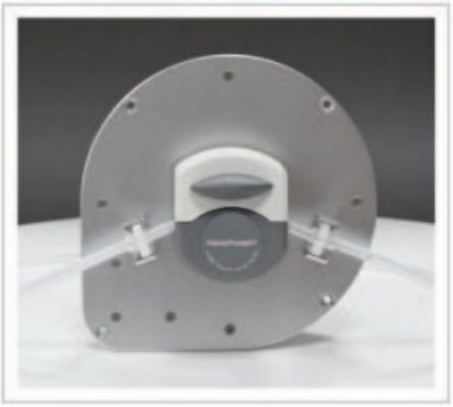
Dimension Drawing(Unit: mm)

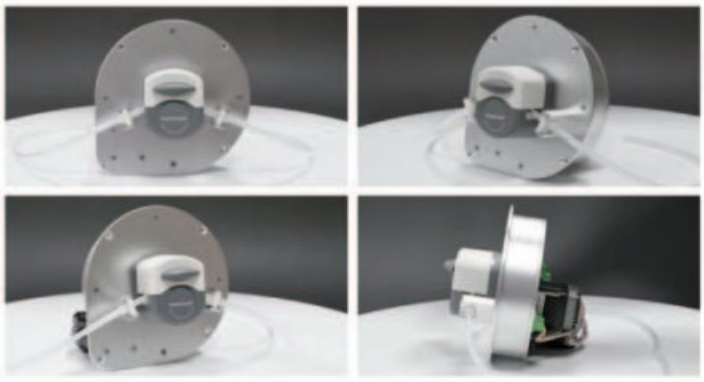


OEM-HYXZ series Technical Specifications					
Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-HYXZ001	37 DC planetary gear motor	DC24V	300	≤±10%	0-40℃, 80%RH
OEM-HYXZ002			200		
OEM-HYXZ003			100		
OEM-HYXZ101	37 DC planetary gear motor	DC12V	300		
OEM-HYXZ102			200	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

Quick Load Pump Head

AUD-I-HandyPump





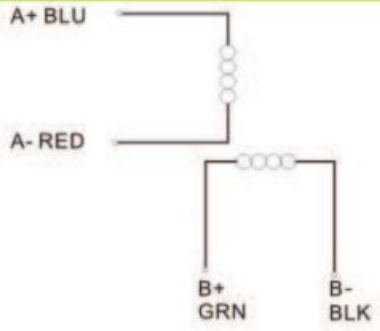
Product Introduction

AUD-I/HandyPump with compact and embedded design, can be used to automatically openand close the upper pressure block on the pump head. The device can open the upper pressure block on pump head to release the tubing when the pump stops running, extending theservice life of the tubing. The tubing clamp can be fixedly installed, to adapt the upper block automatic open function. It is suitable for supporting various instruments.

Product Features

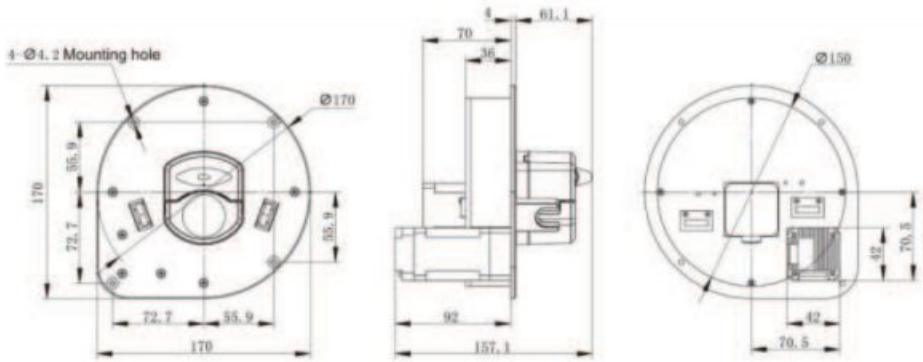
1. The upper block open automatically when the pump head stop running, extend thetubing service life.
2. The upper block close automatically before the pump start working.
3. Open and close upper block time: 5 seconds.
4. Can read open/close status, convenient to support equipment.

Motor Specification



Step angle	1.8°
Phase	2
Phase current	1. 7A
Phase voltage	3.6V
Speed range	0.1 -300rpm
Power supply	DC 24V, ⩾48W
Logic input voltage	DC5V
Working environment	0-40℃, 80%RH

Dimension Drawing(Unit: mm)



Patent No: ZL202020131016.7

Quick Load Pump Head

YZ35-PPS,YZ35(Aluminum Alloy)

(3 rollers)

Model Number

| YZ35-PPS, YZ35(Aluminum Alloy)

Product Introduction

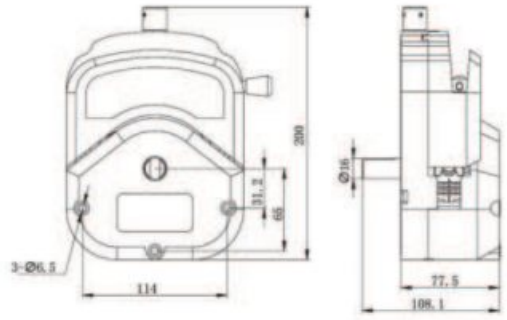
YZ35 pump head with aluminum alloy or PPS housing material. 304 stainless steel rollers assembly achieve high precision transferring liquid. Adaptive tubing cartridge structure makes it more easy to load the tubing.

YZ35 Pump Head Tubing Holder Advantages

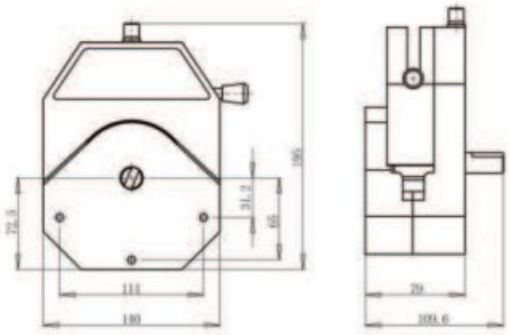
01/ Fix the tubing; lower the tubing shaking duringworking; improve the stability and accuracy of flow rate.

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

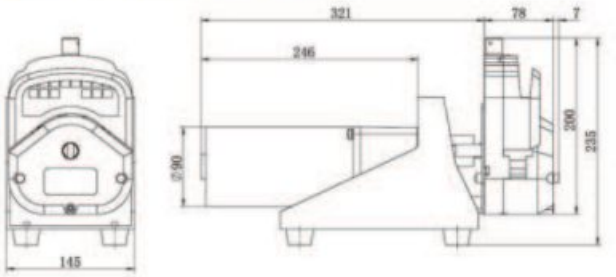
Pump Head	Tubing	ID×Wall Thickness(mm)	mL / r	Flow Rate(mL/min) (0.1-600rpm)	Tubing Max.Pressure(Mpa)		Material/Weight(kg)	
					Intermittent	Continuous	Aluminum Alloy	PPS
YZ35	26#	6.4×3.3	6.9	0.69~4200	0.27	0.2	4.36	1.50
	73#	9.6×3.3	12.3	1.23~7400				
	82#	12.7×3.3	20	2~12000	0.14	0.1		

OEM Product

Quick Load Pump Head YZ35

OEM-Z501/YZ35

Dimension Drawing(Unit: mm)

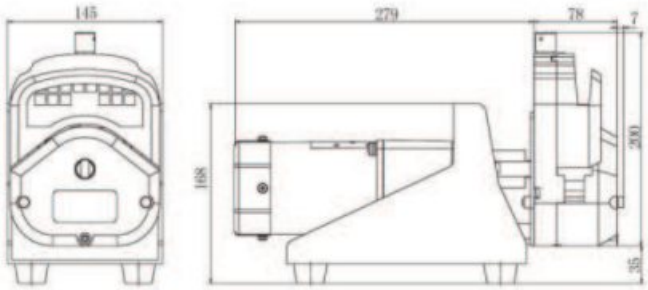


OEM-Z501 Technical Specifications

Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-Z501	DC geared motor	DC24V	600	≤±10%	0-40℃, 80%RH

OEM-J401/YZ35

Dimension Drawing(Unit: mm)

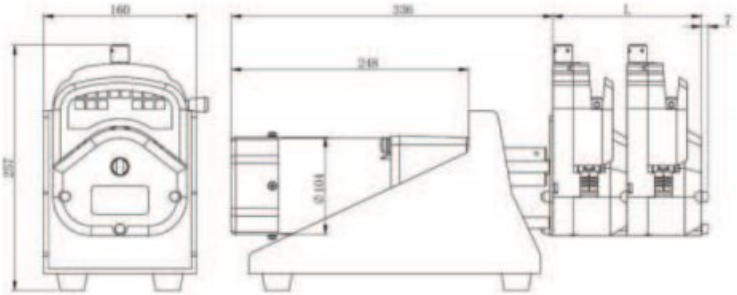


OEM-J401 Technical Specifications

Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-J401	AC geared motor	AC220V(standard), AC110V(optional)	450	≤±10%	0-40℃, 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	≤±10%	0-40℃, 80%RH

Standard Pump Head

SN25,SN15-14,SN15-16

(3 rollers)

Product Introduction

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

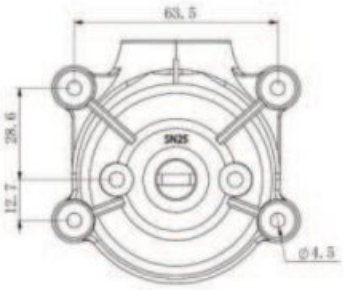
Model Number

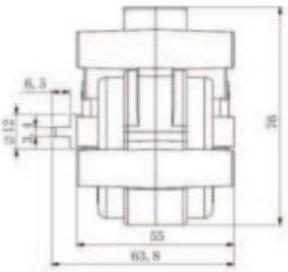
- SN25, SN15-14, SN15-16

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

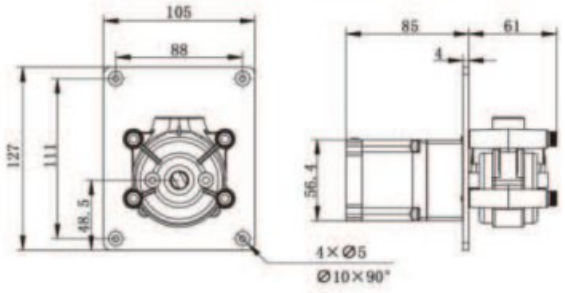
Model No.	Housing Material	Rollers Material	Tubing		Flow Rate (mL/min) (0.1~600rpm)	Weight (kg)
			Tubing sizes	ID × Wall thickness		
SN15-14	PC	304 stainless steel	14#	1.6 × 1.6(mm)	0.024~144	0.20
SN15-16			16#	3.1 × 1.6(mm)	0.088~528	
SN25			24#	6.4 × 2.4(mm)	0.25~1500	

OEM Product

Standard Pump Head Series

OEM-B255/SN Series

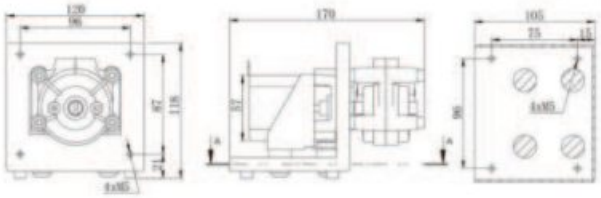
Dimension Drawing(Unit: mm)



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℃, 80%RH

OEM-B19/SN Series

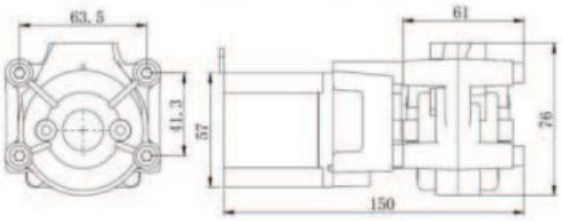
Dimension Drawing(Unit: mm)



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℃, 80%RH

OEM-B11/SN Series

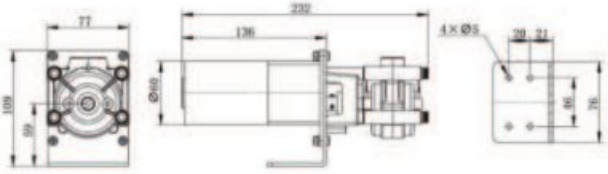
Dimension Drawing(Unit: mm)



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℃, 80%RH

OEM-Z109 (DC motor) /SN Series

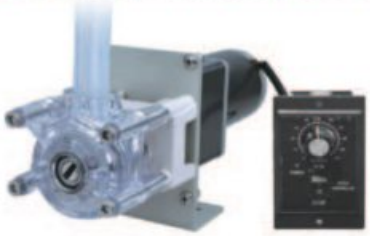
Dimension Drawing(Unit: mm)

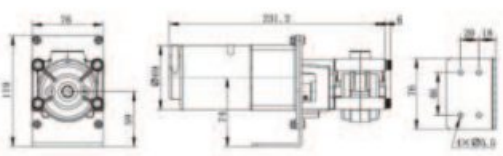


Model No.	OEM-Z109
Mix.flow rate	1500mL/min
Motor type	DC geared motor
Voltage	DC12V
Speed	600rpm
Speed error	≤±10%
Working environment	0-40℃, 80%RH

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℃, 80%RH

Fast Load Pump Head

DZ25-3L,DZ25-6L

(3 rollers)

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)

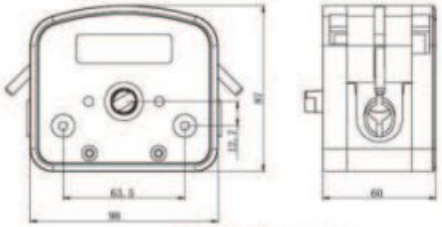
Tubing Installation Procedure

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

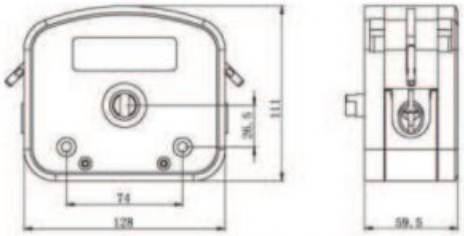
2.Put the tubing with cartridge or connector into pump housing.

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

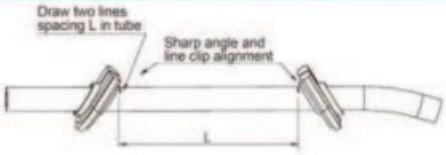
Dimension Drawing(Unit: mm)



DZ25-3L Dimension



DZ25-6L Dimension



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

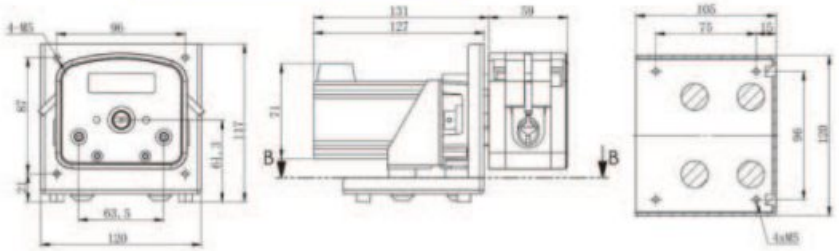
Model No.	Housing Material	Tubing Clamp Material	Tubing		Flow Rate (mL/min) (0.1~600rpm)	Weight (kg)
			Tubing Sizes	ID × Wall Thickness		
DZ25-6L	Aluminum alloy/PPS	PP	15"	4.8×2.4(mm)	0.3~1800	1.86/0.86
			24"	6.4×2.4(mm)	0.55~3300	
			35"	7.9×2.4(mm)	0.8~4800	
			36"	9.6×2.4(mm)	1~6000	
DZ25-3L	PPS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

OEM Product

Fast Load Pump Head DZ25-3L(PPS)

OEM-B501/DZ25-3L

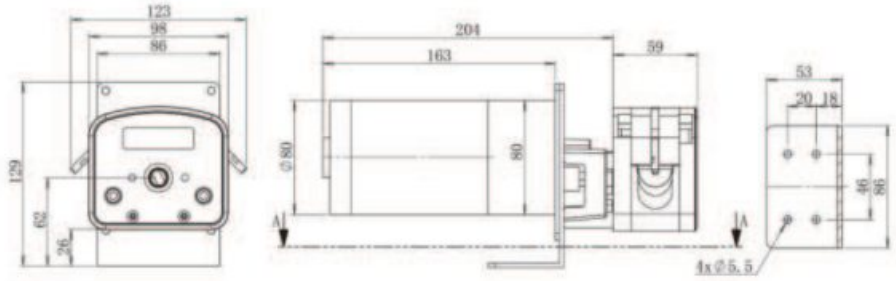
Dimension Drawing(Unit: mm)



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)

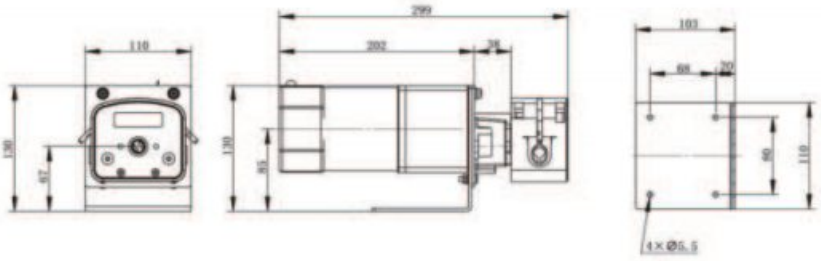
Dimension Drawing(Unit: mm)



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℃, 80%RH

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

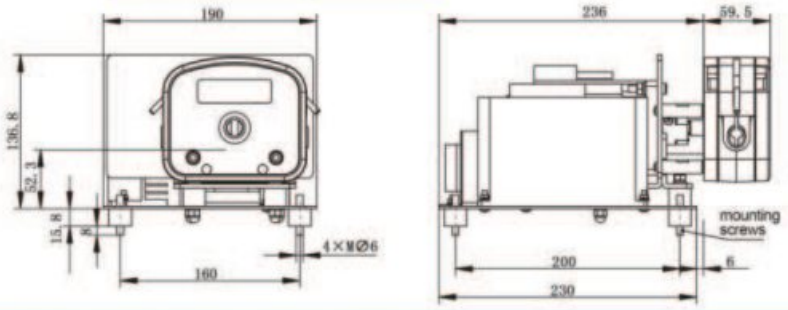
Dimension Drawing(Unit: mm)



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℃, 80%RH

OEM-B504/DZ25-6L

Dimension Drawing(Unit: mm)

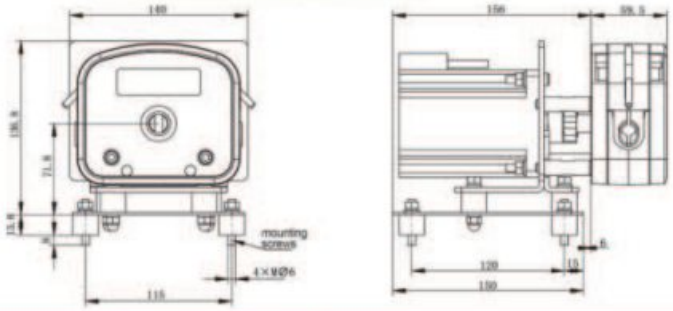


OEM-B504 Technical Specifications

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℃, 80%RH

OEM-B508/DZ25-6L

Dimension Drawing(Unit: mm)

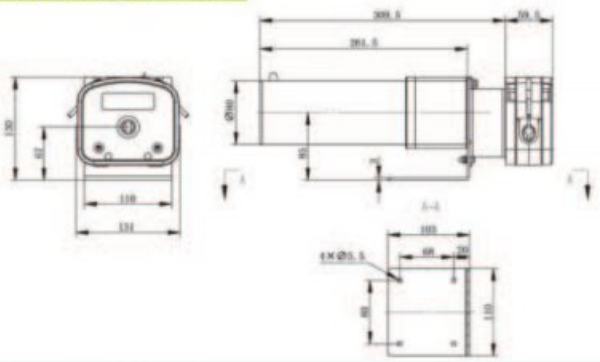


OEM-B508 Technical Specifications

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℃, 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	AC220V(standard), AC110V(optional)	350	≤±10%	0-40℃, 80%RH

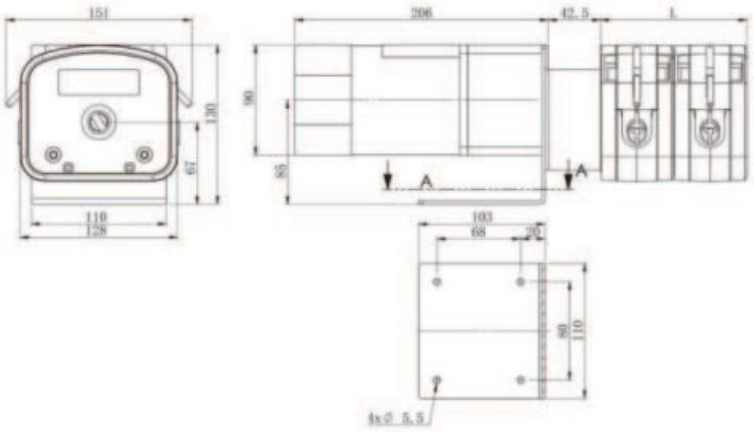
OEM Product

Fast Load Pump Head DZ25-6L(PPS)

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

Dimension Drawing(Unit: mm)

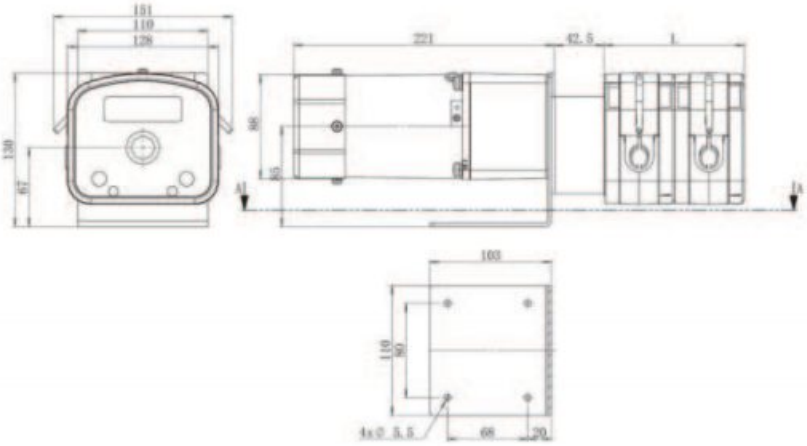
Number of pump heads	L/mm
1	59.5
2	119



OEM-J402 Technical Specifications					
Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-J402	AC geared motor	AC220V/AC110V	450	≤±10%	0-40℃, 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	≤±10%	0-40℃, 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

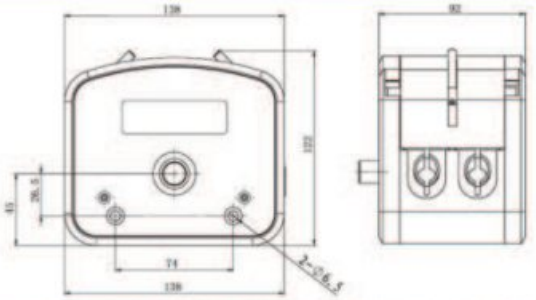
Tubing Installation Procedure

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

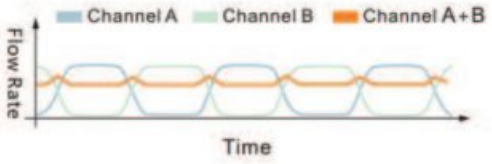
2.Put the tubing with tubing clamp into pump housing.

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 × Wall Thickness		
DY15	Aluminum alloy	PP	13#	0.8×1.6(mm)	0.01~48	3.2
			14#	1.6×1.6(mm)	0.06~223	
			19#	2.4×1.6(mm)	0.13~448	
			16#	3.1×1.6(mm)	0.2~723	
			25#	4.8×1.6(mm)	0.47~1626	
			17#	6.4×1.6(mm)	0.64~2230	
			18#	7.9×1.6(mm)	0.95~3337	
DY25	Aluminum alloy	PP	15#	4.8×2.4(mm)	0.42~1480	
			24#	6.4×2.4(mm)	0.76~2670	
			35#	7.9×2.4(mm)	1~3600	
			36#	9.6×2.4(mm)	1.24~4340	

Planetary Gear Type Industrial Pump Head

DZ45

DZ45-I

DZ45-II

Product Introduction

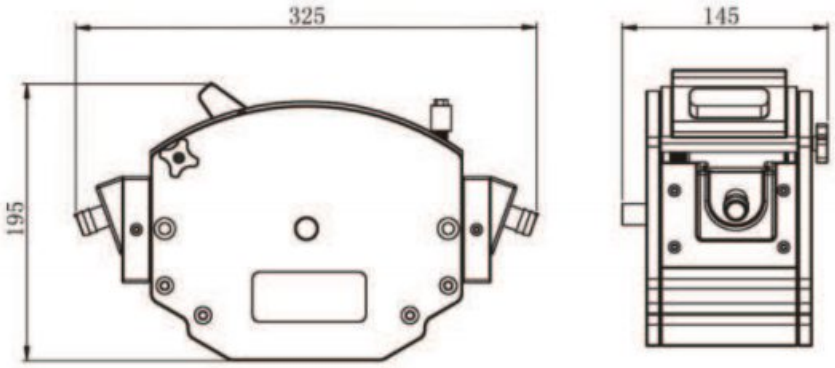
DZ45 pump head, aluminum alloy shell, 304 stainless steel roller assembly. Four rollers design, low pulsation. Planetary gear roller, driven rotor.

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.

Roller Components

Dimension Drawing(Unit: mm)



Technical Specifications

Pump Head	Speed(rpm)	Tubing		Flow Rate(L/min)	Pressure (Mpa)		Weight
		Size	ID*Wall thickness(mm)		Continuous	Intermittent	
DZ45	37.5-350	88#	12.7*4.8	1.0-12.5	0.25	0.3	30kg
	37.5-270	92#	25.4*4.8	3.68-28.15			

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℃, 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℃, 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		

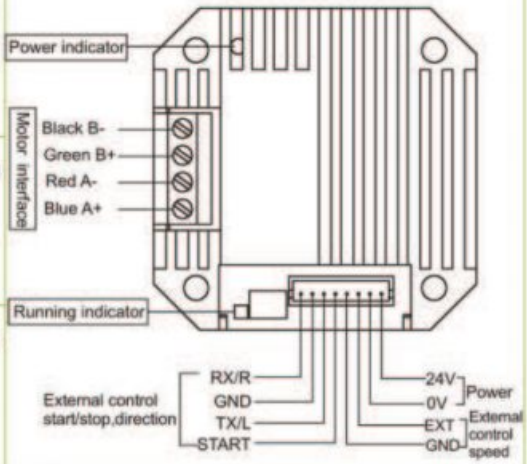
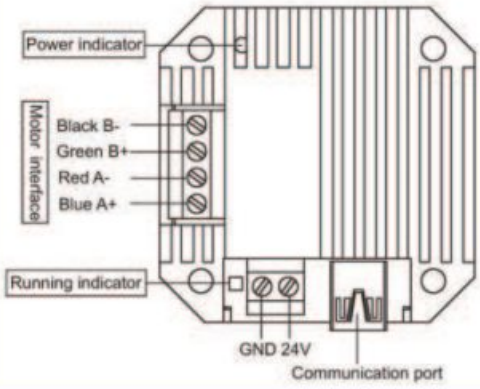
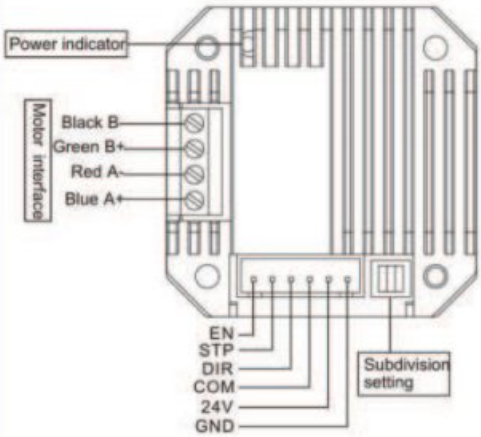
OEM-JT Series						
Model No.	Pump head	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-JT03	EasyPump Series, AMC Series SN Series	Φ70 AC motor	AC220V(standard), AC110V(optional)	30-300	±10%	0-40℃, 80%RH
OEM-JT08		Φ90 AC motor		43-430		
OEM-JT12		Φ90 AC motor		43-430		
OEM-JT402		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

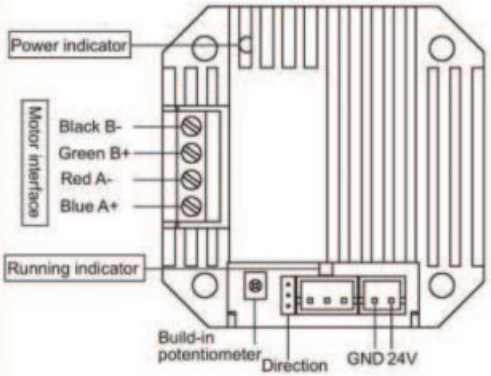
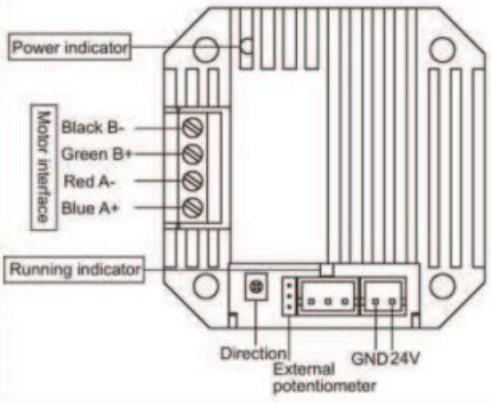
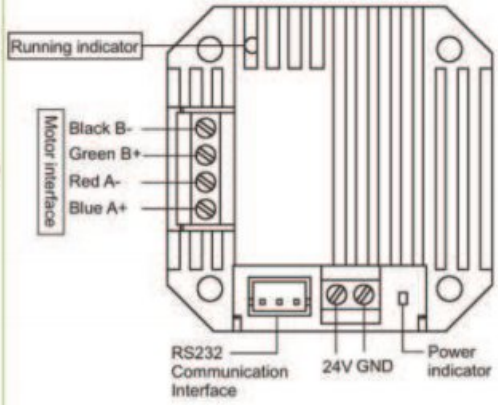
OEM Product

Integrated Drive Module(42 stepper motor)

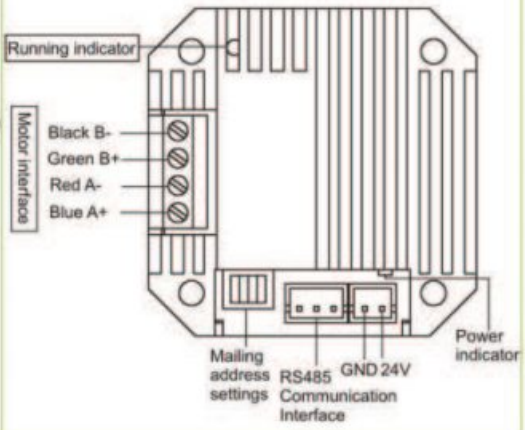
Technical Specifications			
Suitable motor	35 stepper motor, 42-40 and 42-60 stepper motor	Output motor current	0.5-1.6A
		Power supply	DC24V
Max. Speed	150rpm,300rpm,350rpm,400rpm optional	Working environment	0-40℃, 80%RH

Product	Model No.	Functions	Wiring Diagram
 M42/0-5V,0-10V,4-20mA	M42/0-5V	Start/stop control: Passive switch signal control start/stop Speed control: External input analog signal 0-5V	
	M42/0-10V	Start/stop control: Passive switch signal control start/stop Speed control: External input analog signal 0-10V	
	M42/4-20mA	Start/stop control: Passive switch signal control start/stop Speed control: External input analog signal 4-20mA	
 M42/USB	M42USB	Speed control: Preset speed or adjust the speed through USBcommunication port. Built-in EEPROM can save the setting speed.	
 M42/PULSE	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

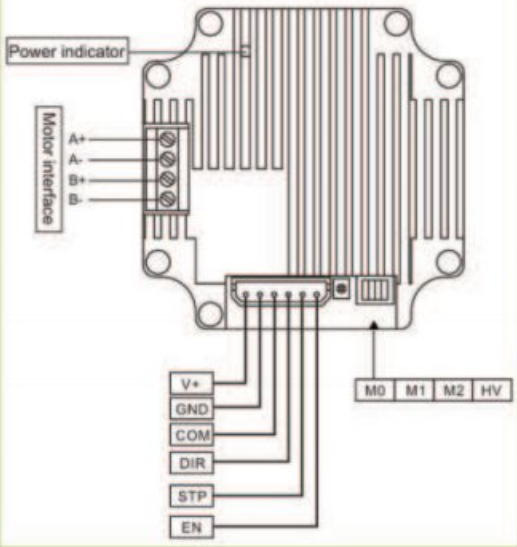
Product	Model No.	Functions	Wiring Diagram
 M42/RP M42/RP-A	M42/RP	Speed control: Built-in potentiometer control speed	
	M42RP-A	Speed control: External potentiometer control speed	
 M42/RS232	M42/RS232	Speed control: RS232(Modbus protocol) Built-in EEPROM can save the setting speed	

OEM Product

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

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℃, 80%RH

Product	Model No.	Functions	Wiring Diagram
 M57P	M57P	Speed control: External input pulse frequency speed control Subdivision setting: 1/16 (recommend), 1, 1/2, 1/4, 1/8, 1/32 Logic input voltage: Common cathode: 12V-24V, common anode: 3.3V-5V or 12V-24V	

Control Board For OEM Product

PD03 Main board technical specification	
Speed range	0.1–350 rpm
Speed control	Pulse frequency speed control
Logic input voltage	5V, 12V, 24V(default 5V)
Multiple segments	1/16(recommend), 1, 1/2, 1/4, 1/8, 1/32 1/64, 1/128
Input voltage	DC 24V
Power	<60W
Dimension (L*W)	98.48×82.68 mm

PMD07 Main board technical specification	
Speed range	0.1–350 rpm
Display(optional)	0.96" OLED screen
Speed control	Preset speed or manual control
Control mode	External passive signal level (normally closed or open) mode; control the start/stop and direction
Input voltage	DC 24V
Power	<60W
Dimension (L*W)	98.48×82.68 mm

PMD17 Mainboard technical specification	
Speed range	0.1-350 rpm(optional)
Flow rate range	0.000067-1330mL/min
Speed resolution	0.1rpm
Display	0.96" OLED screen(optional)
Speed control	Preset speed or membrane keypad speed control (optional)
Control mode	Digital knob and toggle switch
External control	Start/stop;Active switch signal: 5V (standard)
Communication interface	RS485 support Modbus protocol (RTU mode)
External control speed	0-5V, 4-20mA(standard), 0-10V (optional)
Motor type	57 stepper motor
Input voltage	DC 24V
Power	<60W

PM29 Mainboard technical specification	
Speed range	0.1-600rpm(optional)
Speed resolution	0.1rpm
Display(optional)	OLED screen(optional)
Control mode	Membrane keypad/Toggle switch
Speed control(optional)	Preset speed or membrane keypad speed control (optional)
External control speed	0-5V, 4-20mA(standard), 0-10V (optional)
Communication interface	RS485 support Modbus protocol (RTU mode)
External control	Start/stop,change direction signal ; Passive switch signal
Motor type	57 stepper motor
Voltage	DC24V, ≥48W
Working environment	0-40℃, 80%RH

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 –51~238 ℃.

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	0.1									
	Intermittent	0.1									

Basic Flow Rate Tubing

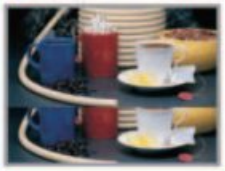
Tubing Size		13#	14#	19#	16#	25#	17#	18#	15#	24#	35#	36#
Tubing cross sections (1:1)												
Wall thickness	mm					1.6					2.4	
	inch					1/16					3/32	
Inside diameter	mm	0.8	1.6	2.4	3.2	4.8	6.4	7.9	4.8	6.4	7.9	9.6
	inch	1/32	1/16	3/32	1/8	3/16	1/4	5/16	3/16	1/4	5/16	3/8
Maximum pressure (Mpa)	Continuous	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	mm		3.3			6.4		4.8
	inch		1/8			1/4		3/16
Inside diameter	mm	6.4	9.6	12.7	9.5	19	12.7	25.4
	inch	1/4	3/8	1/2	3/8	3/4	1/2	1
Maximum pressure (Mpa)	Continuous		0.2				0.25	
	Intermittent		0.27				0.3	

Peristaltic Pump Tubing

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

	A Tygon3350	B Tygon E-3603	C Norprene Chemical	D PharMed	E Norprene A-60-F
					
Formulation	Tygon3350	Tygon R-3603	Norprene Chemical	PharMed	Norprene A-60-F
Application	Pharmaceutical, cosmetic, medical and autoanalysis application.	General laboratory, food & beverage, biopharmaceutical, analytical instruments.	Elcellent 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 fluidexposure; 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℃ (250°F). 1KG/cm³ (15psi) for 30 minutes (tubing will appear milky); air dry at max 66℃ (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

	F Norprene A-60-G	G Tygon F-4040-A	H Tygon LFL	I TYGON 2475	K Viton
					
Formulation	Norprene A-60-G	Tygon F-4040-A	Tygon LFL	TYGON 2475	Viton
Application	For applications requiring excellent chemical, heat, ozone, and ultraviolet (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. lear 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. Registand 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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