



# SHENCHEN

We aim to build the world brand of Peristaltic Pump



# Shenchen Pump

Exported to  
**63** countries



## PERISTALTIC PUMP

## SYRINGE PUMP·GEAR PUMP

Baoding Shenchen Precision Pump Co.,Ltd

Baoding Peristaltic Pump Engineering Technology Research Center



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# COMPANY



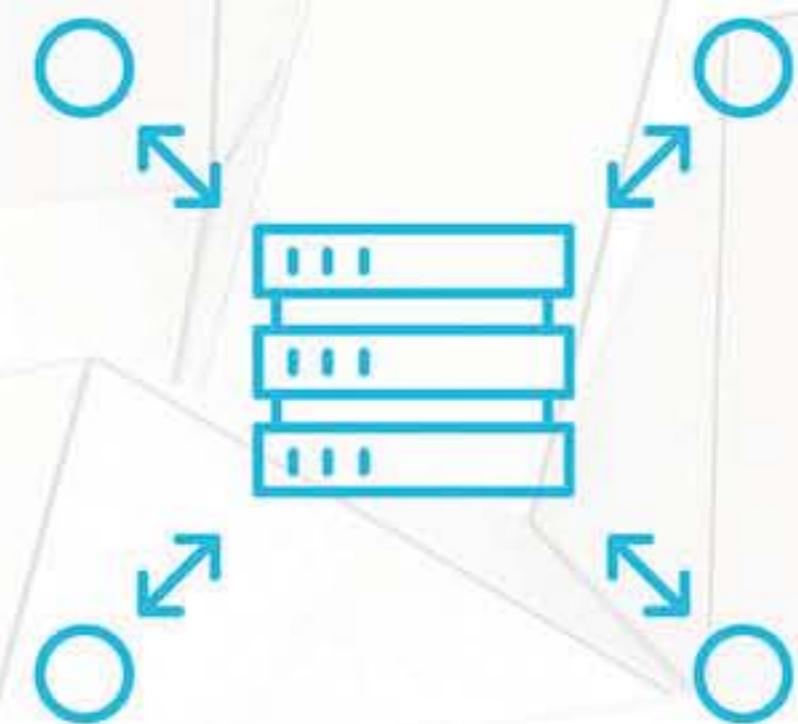
IN 2014-2017  
**2017**

"Leading Brand", which can replace imported brand and conform to European standards, and has been **exported to 63 countries around the world**.



IN 2010-2013  
**2010**

Shenchen upgrade all the products and successfully entered the international market.



IN 2009  
**2009**

Shenchen products continuously fill gaps in the market.

## Precision Pump Co., Ltd

is a high-tech enterprise, specialized in R&D, manufacturer and sales of peristaltic pump, syringe pump, gear pump and other precision fluid transferring equipment. Also can do OEM product according with customers' different requirements.

Shenchen team is a high-qualified, young and innovative team, have research engineer, application engineer and professional sales and service team. With rich technical force, excellent technological process and outstanding product quality, Shenchen get well corporate reputation from global customers.

Shenchen products are widely used in research laboratory, bio-pharmaceuticals, food & beverage, fine chemical, environment, etc. Our pumps have been exported to Germany, UK, USA, Australia, Russia, in total 63 countries.



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# SHENCHEN



Innovation—the first producer of easy load pump head with PPS material, solve problem what the PSU material bearing corrosion resistance.

- More than 10 years experience.
- R&D engineers take up 35% of company staff.
- 30% of the company's annual profits for R&D funds.
- The first technology research center for peristaltic pump.

- Every year launch 2-3 new series products.
- All products are CE certified.
- 21 patents, 4 software copyrights.



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# EXPORTED TO 63 COUNTRIES



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# APPLICATION



Pharmaceutical filling



Food & Beverage  
filling



Waste water  
treatment



Chromatography



Cosmetic filling



Laboratory chemical  
dosing



Reagents dispensing



Analytical instrument  
sampling



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# DIRECTORY

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# OCM

*Revolutionary breakthrough in fluid control area  
Shencheng provide OCM customized fluid solution*

*OCM ( Original Customized Manufacture ) customized fluid solution, with peristaltic pump core technology. Two working modes: Independent working mode and Logic working mode.*



- Same volume filling, different volume filling and transferring fluid
- Different units can co-work according with preset program.
- Independent working mode and logic working mode can work cooperatively.
- Different filling line, different dispensing request, choose freely, barrier-free conversion.



- Application 1 Chemical industry: Reactor liquid adding, dispensing and washing, with different volume and adding liquid according to preset order.
- Application 2 Laboratory industry: Dispensing different reagents in laboratory, dispensing reagent of different media, different volume, different concentration at the same time.
- Application 3 Printing and dyeing industry: Pigment accurate allocation, use several different pump heads to allocate different colors of pigment.
- Application 4 Pharmaceutical industry: filling one bottle with several times during filling process to prevent foaming.
- Application 5 Filling field: Can be connected with the balance to be closed loop control system, to achieve



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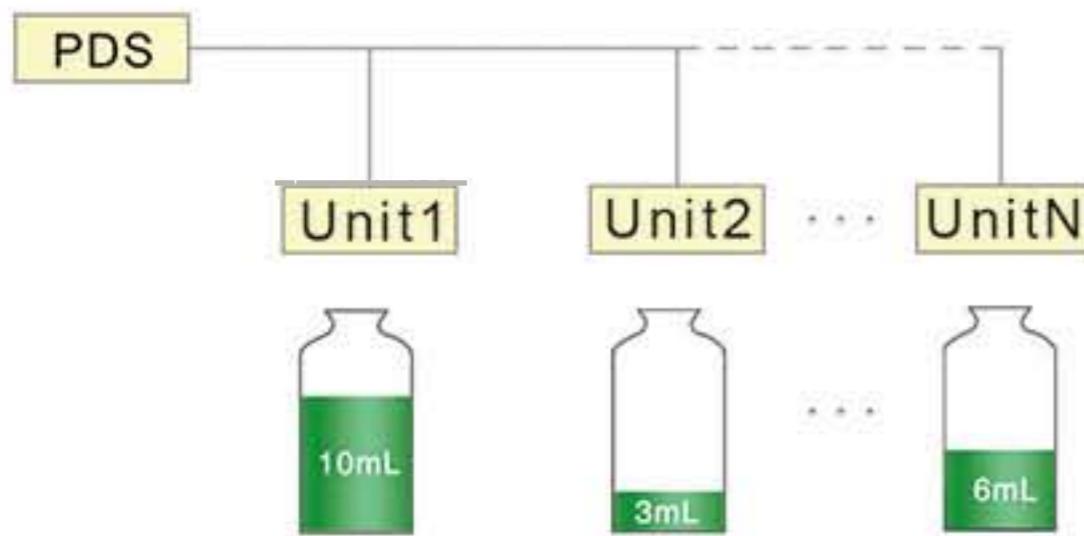


- Peristaltic pump core technology
- One to one customized service
- Self-define working mode



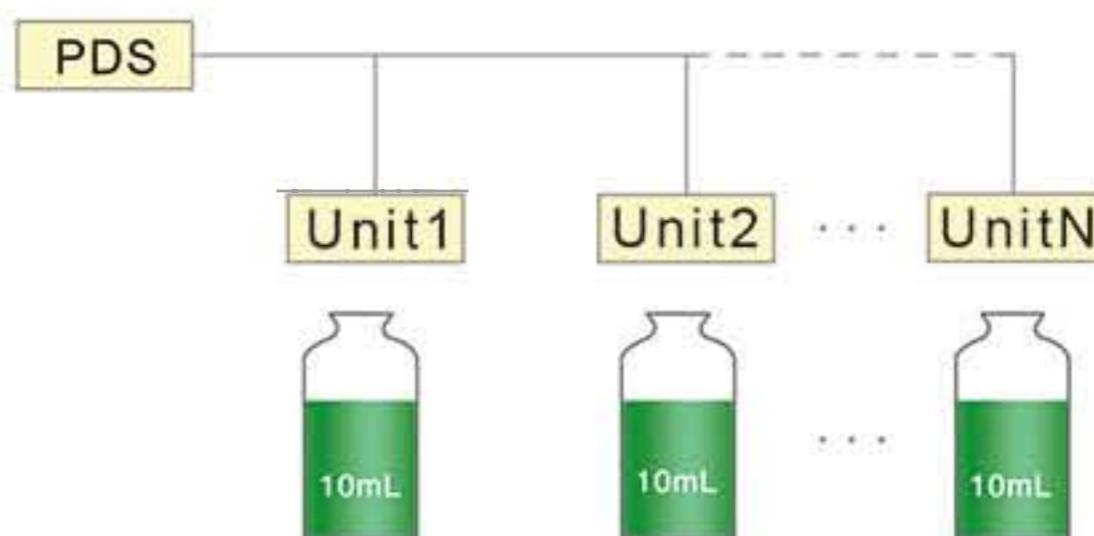
**Diagram 1**

In independent working mode, each unit working independently, can fill different volume.



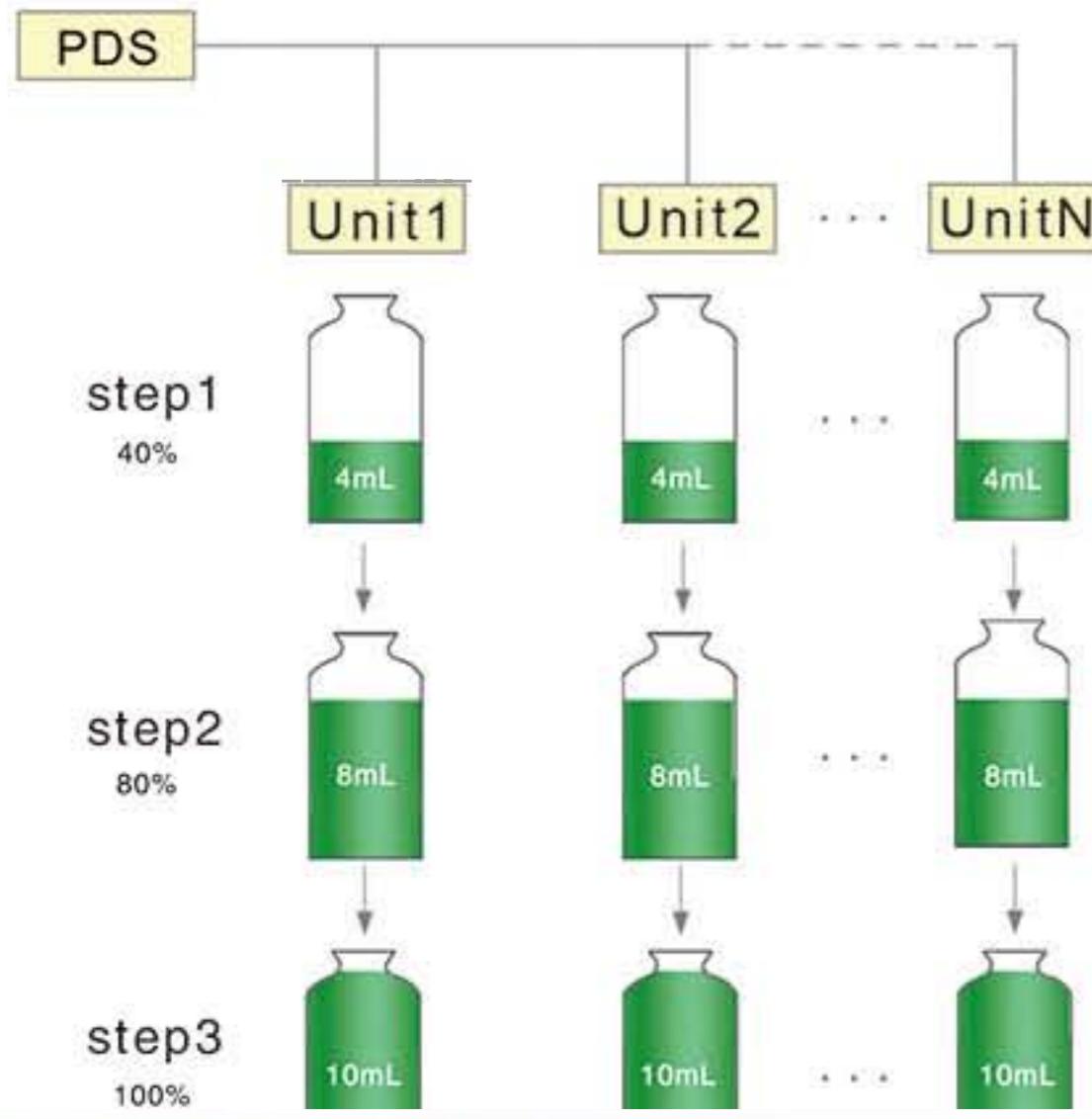
**Diagram 2**

In independent working mode, each unit can repeat filling same volume in the same time, achieving normal dispensing function.



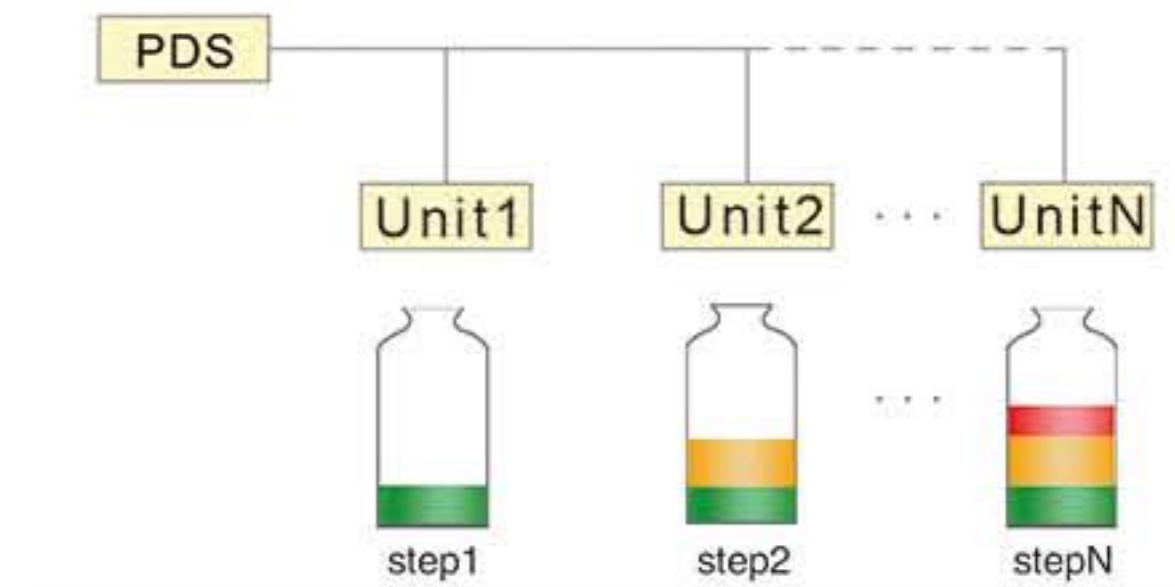
**Diagram 3**

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.



**Diagram 4**

In logic working mode, each unit working cooperatively. Filling or transferring with orders, also with different proportion adding, finish automation mixing work.



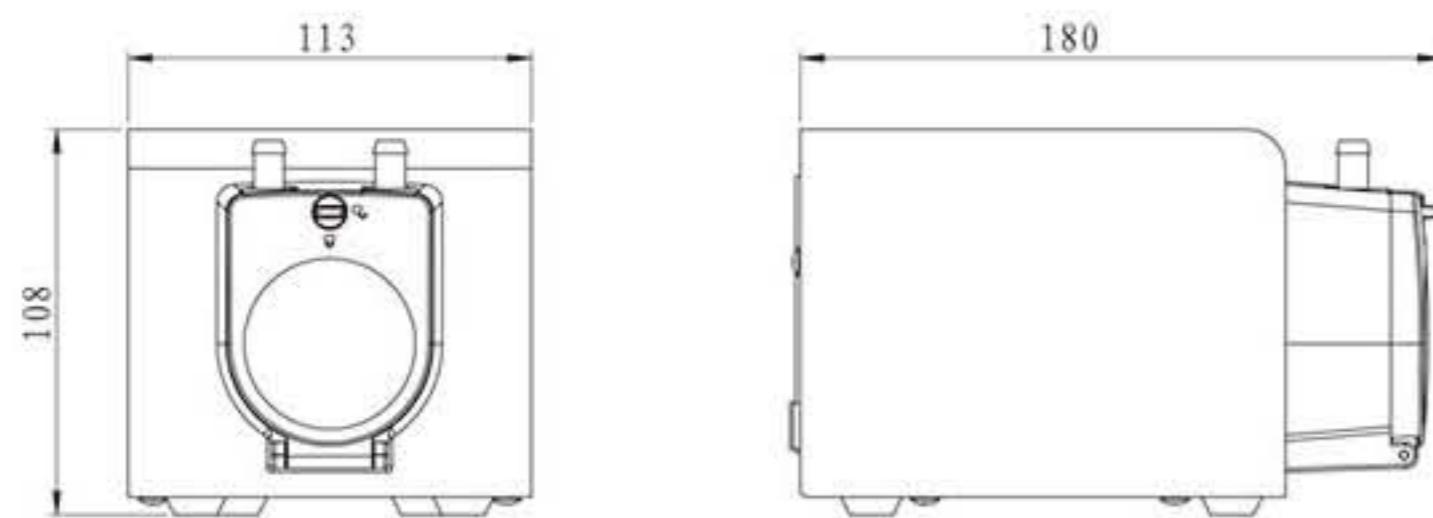
**Shenchen-leading the new era of intelligent peristaltic pump**

## Compact Peristaltic Pump

EM-UD15



### Dimension drawing (Unit mm)



### Product Introduction

- EM-UD15 use plastic coated metal housing, stepper motor drive.
- OLED display motor speed, mechanical keypad control.
- Compact design and space-saved, various external control function, support RS485 communication and standard Modbus protocol.

### Product Features

- Compact design and space-saved.
- Mechanical keypad control, sensitive feeling, long lifetime.
- UD15 pump head, 4 colors transparent protecting shell for option: red, yellow, blue and natural color. Easy to observe the working situation of pump head and tubing.
- Various external control function, more suitable for instrument supporting.

### Technical Specifications

|                  |  |                       |                                    |
|------------------|--|-----------------------|------------------------------------|
| Motor type       | Stepper motor                          | Communication         | RS485 communication port, Standard |
| Speed range      | 0.1-350rpm, reversible                 | interface             | MODBUS communication protocol      |
| Flow rate range  | 0.08-1000ml/min                        | Power supply          | DC 24V/1A                          |
| Speed resolution | 0.1rpm                                 | Dimension             | 180*113*108mm (L×W×H)              |
| External control | TTL pulse control start/stop, reverse  | Weight                | 1.8kg                              |
|                  | Level mode control start/stop, reverse | Condition temperature | 0-40°C                             |
|                  | 0-5V/4-20mA control speed              | Relative humidity     | < 80%                              |
| Display          | OLED display                           | IP rate               | IP31                               |

### Product Composition and Flow Rate Range

| Model   | Pump Head | Speed (rpm) | Tubing |                          | Flow Rate Range ( ml/min ) | Tubing Max.Pressure ( Mpa ) |              |
|---------|-----------|-------------|--------|--------------------------|----------------------------|-----------------------------|--------------|
|         |           |             | Size   | ID*Wall Thickness ( mm ) |                            | Continuous                  | Intermittent |
| EM-UD15 | UD15      | 0.1-350     | 16#    | 3.1*1.6                  | 0.08-280                   | 0.17                        | 0.27         |
|         |           |             | 25#    | 4.8*1.6                  | 0.16-580                   | 0.14                        | 0.1          |
|         |           |             | 17#    | 6.4*1.6                  | 0.30-1000                  | 0.24                        | 0.14         |

## Compact Peristaltic Pump

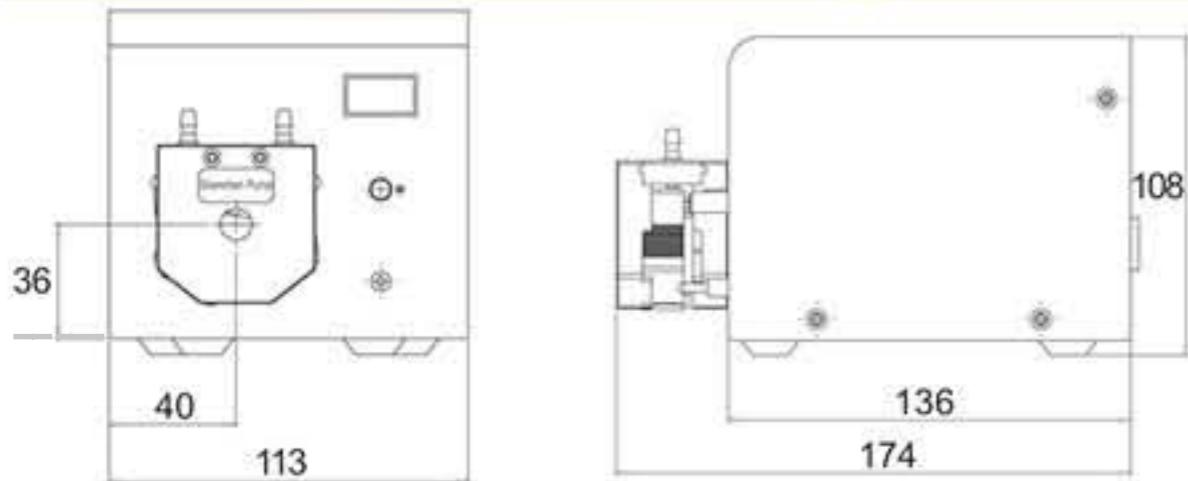
**SP-MiniPump**



### 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.

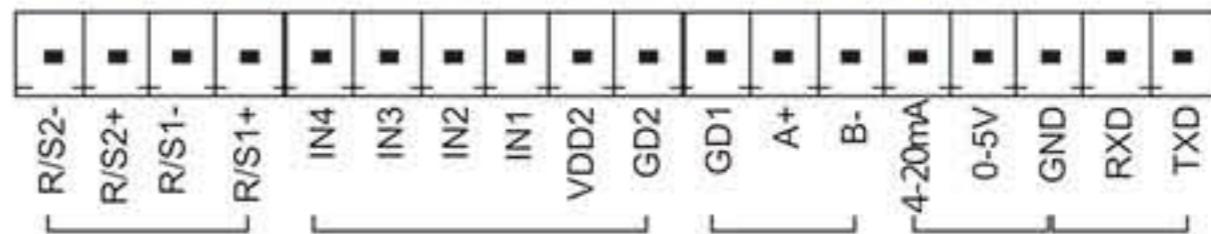
### Installation Sizes Drawing (Unit: mm)



### Model Number

| SP-MiniPump01, SP-MiniPump02

### External Control Schematic Diagram



### Technical Specifications

|                  |  |                         |  |
|------------------|--|-------------------------|--|
| Flow rate range  | 0.0024~190 mL/min  | Communication interface | RS485 support MODBUS protocol (RTU mode) |
| Speed range      | 0.1~300 rpm, reversible.   | Power supply            | 24V/1A DC power                          |
| Speed resolution | 0.1rpm   | Drive dimension         | 136×113×108 mm (L×W×H)                   |
| Speed control    | Digital knob control speed   | Weight                  | 1.64 kg                                  |
| Motor type       | Stepper motor  | Power consumption       | < 15 W                                   |
| Display          | OLED display   | Condition temperature   | 0-40°C                                   |
| External control | Start/stop control ( switch signal)<br>Speed control 0-5V, 0-10V, 4-20mA for option(Analog signal) | Relative humidity       | < 80%                                    |
|                  |  | IP rate                 | IP31                                     |

### EM-MiniPump and SP-MiniPump Speed/Flow Rate Reference

| Rotation Speed ( rpm ) | Dual Channel Flow Rate (mL/min) and Tubing (1 mm wall thickness ) |         |           |         |  |
|------------------------|---|---------|-----------|---------|--|
|                        | ID 1 mm   | ID 2 mm | ID 2.5 mm | ID 3 mm |  |
| 5                      | 0.25  | 0.90    | 1.28      | 1.78    |  |
| 10                     | 0.49  | 1.84    | 2.59      | 3.52    |  |
| 15                     | 0.74  | 2.76    | 3.85      | 5.30    |  |
| 25                     | 1.25  | 4.57    | 6.43      | 8.80    |  |
| 40                     | 2.00  | 7.31    | 10.25     | 14.02   |  |
| 50                     | 2.52  | 9.14    | 12.78     | 17.47   |  |
| 75                     | 3.76  | 13.64   | 19.04     | 26.12   |  |
| 100                    | 5.03  | 18.17   | 25.42     | 35.34   |  |
| 200                    | 10.12   | 36.45   | 51.27     | 71.44   |  |
| 250                    | 12.63   | 45.75   | 64.34     | 88.35   |  |
| 300                    | 15.01   | 54.63   | 76.84     | 108.39  |  |

| Rotation Speed ( rpm ) | Single Channel Flow Rate (mL/min) and Tubing (1.6 mm wall thickness ) |           |            |           |            |           |            |           |
|------------------------|---|-----------|------------|-----------|------------|-----------|------------|-----------|
|                        | 13# Tubing  | ID 0.8 mm | 14# Tubing | ID 1.6 mm | 16# Tubing | ID 3.1 mm | 25# Tubing | ID 4.8 mm |
| 5                      | 0.12  |           | 0.56       |           | 1.97       |           | 3.26       |           |
| 10                     | 0.26  |           | 1.15       |           | 3.90       |           | 6.41       |           |
| 15                     | 0.39  |           | 1.74       |           | 5.80       |           | 9.52       |           |
| 25                     | 0.66  |           | 2.88       |           | 9.59       |           | 15.74      |           |
| 40                     | 1.08  |           | 4.59       |           | 15.29      |           | 25.15      |           |
| 50                     | 1.34  |           | 5.69       |           | 18.96      |           | 31.14      |           |
| 75                     | 2.00  |           | 8.54       |           | 28.36      |           | 46.55      |           |
| 100                    | 2.73  |           | 11.37      |           | 37.66      |           | 61.98      |           |
| 200                    | 5.46  |           | 22.76      |           | 76.02      |           | 124.14     |           |
| 250                    | 6.81  |           | 28.40      |           | 95.08      |           | 153.63     |           |
| 300                    | 8.28  |           | 33.88      |           | 114.31     |           | 190.00     |           |

## Compact Peristaltic Pump

EM-MiniPump



Embedded design  
-Single channel  
EM-MiniPump01  
(Install sample)

### Features

- Embedded design, space-saved, much easier installation.
- OLED screen, display the current motor speed and working status.
- Mechanical keypad control.

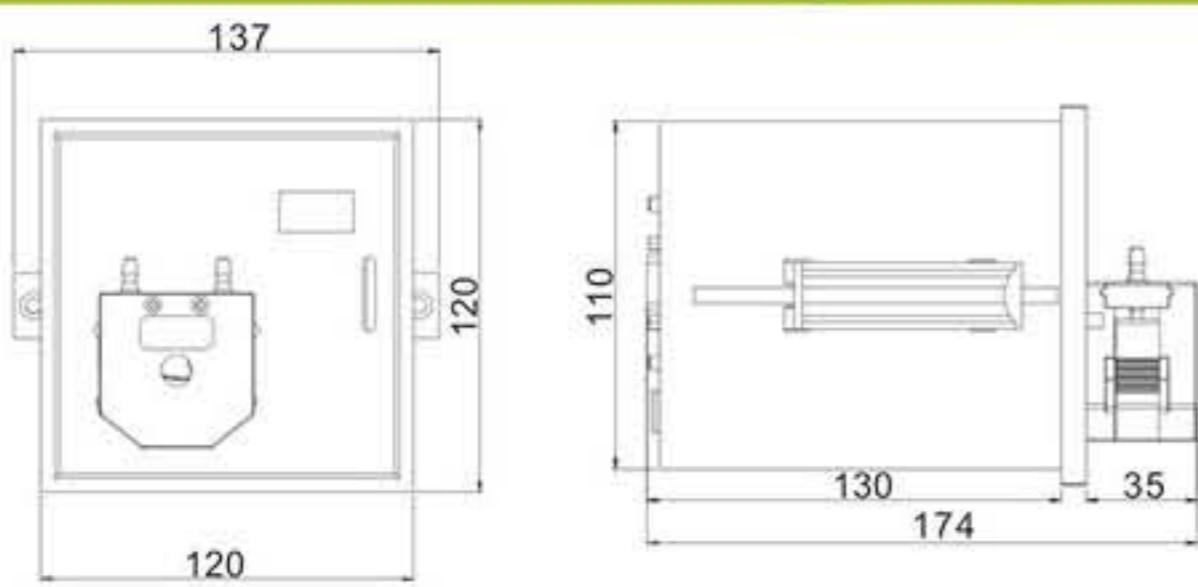
### Model Number

- EM-MiniPump01, EM-MiniPump02

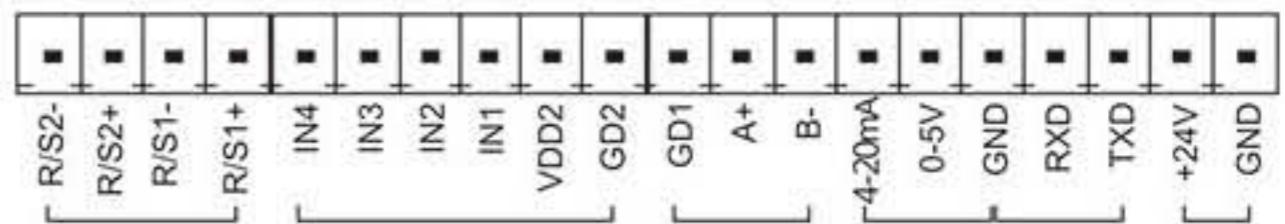
4 kinds of connect tubing way



### Installation Sizes Drawing (Unit: mm)



### External Control Schematic Diagram



### Technical Specifications

|                  |  |                         |  |
|------------------|--|-------------------------|--|
| Flow rate range  | 0.0024~190 mL/min  | Communication interface | RS485 support MODBUS protocol( RTU mode) |
| Speed range      | 0.1~300 rpm, reversible.   | Power supply            | 24V DC power                             |
| Speed resolution | 0.1rpm   | Drive dimension         | 110×120×120mm (L×W×H)                    |
| Control method   | Membrane keypad  | Weight                  | 0.8 kg                                   |
| Motor type       | Stepper motor  | Power consumption       | < 15 W                                   |
| Display          | OLED display   | Condition temperature   | 0-40°C                                   |
| External control | Start/stop,direction control ( switch signal)<br>0-5V, 0-10V, 4-20mA for option(Analog signal) | Relative humidity       | < 80%                                    |
|                  |  | IP rate                 | IP31                                     |

### Product Composition and Flow Rate Range

| Drive       | Motor Type    | Pump Head                                | Tubing Size  | Rotation Speed   | Flow Rate             |
|-------------|---------------|--|--|------------------|-----------------------|
| EM-MiniPump | Stepper motor | MiniPump01<br>(4 rollers single channel) | 1.6mm Wall thickness tubing:<br>13#,14#,16#,25#<br><br>1mm Wall thickness tubing,Tubing ID:<br>1mm,2mm,2.5mm,3mm | 0.1-300<br>(rpm) | 0.0024-190.00(mL/min) |
|             |               | MiniPump02<br>(4 rollers dual channel)   | 1mm Wall thickness tubing,Tubing ID:<br>1mm,2mm,2.5mm,3mm  |                  | 0.005-108.39(mL/min)  |

## Flow Rates Peristaltic Pump

LabV1, LabV3, LabV6



LabV1, LabV3, LabV6

Laboratory

Industrial equipment supporting



### Suitable Pump Head

## Flow Rates Peristaltic Pump

V1, V3, V6



Industrial grade 4.3" true color LCD screen, touch screen control, both Chinese and English interface available.

Dynamic display transferring status. Flow rate data, setting parameters and system configuration display in the same screen.

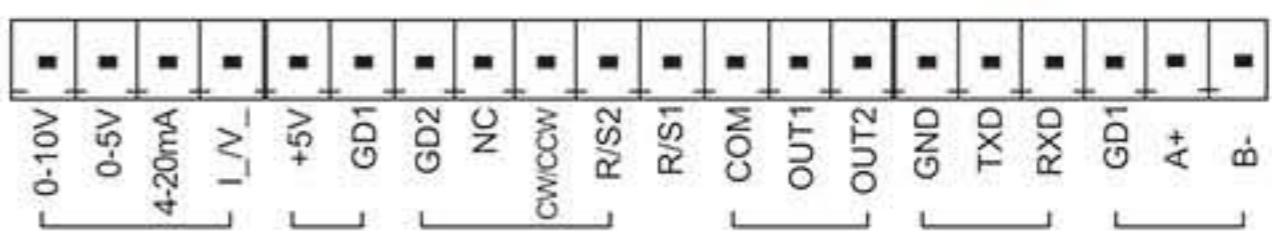
3 Kinds of working mode: fixed volume metering, fixed time and volume, timer start and stop, meet different transferring and dispensing request.

Intelligent calibration function and online micro adjusting function.

V1, V3, V6

Laboratory  
Industrial equipment

### External Control Schematic Diagram



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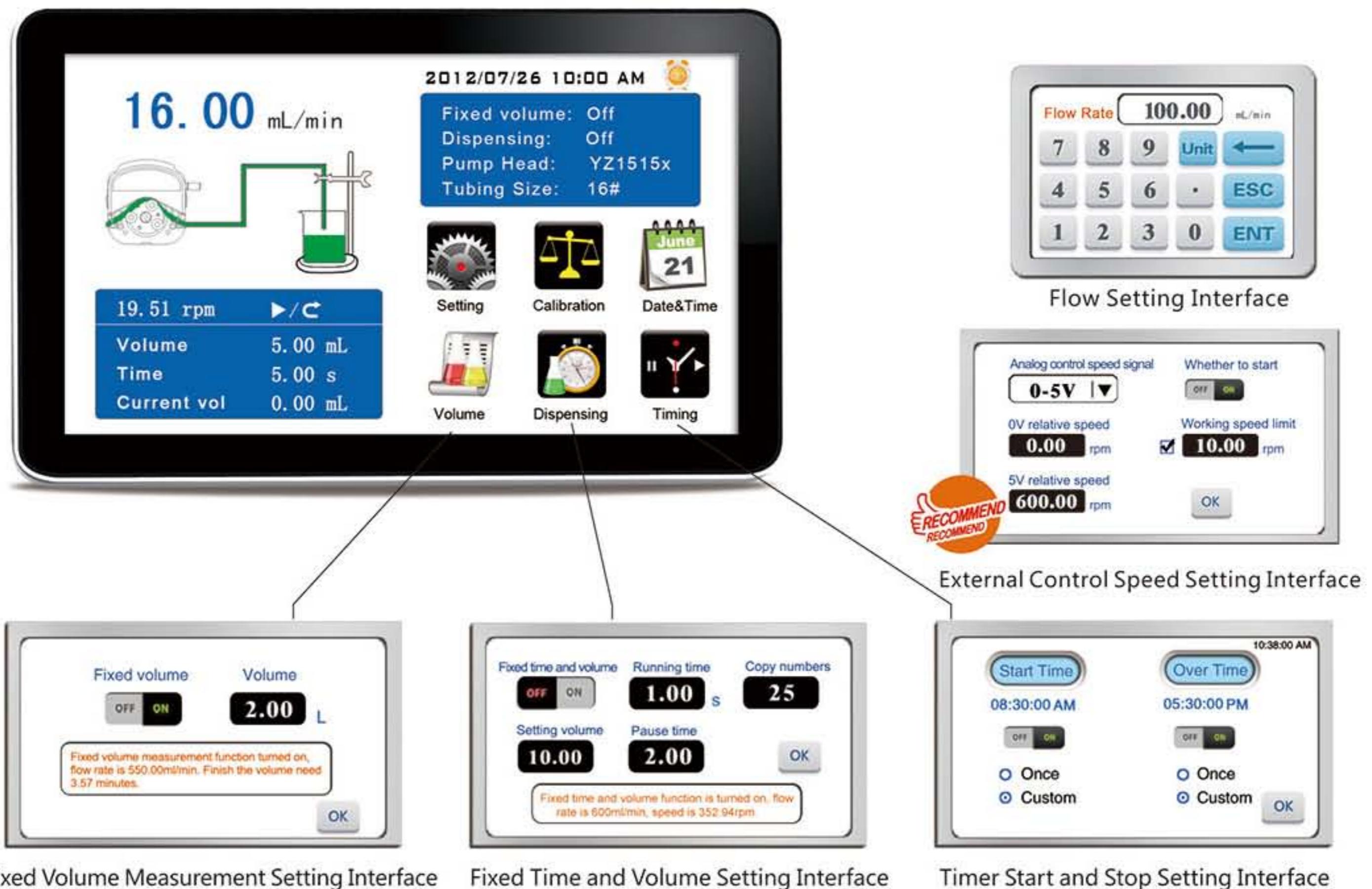
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**ECHnology Pty Ltd**

### Technical Specifications

|                               |  |   |   |
|-------------------------------|--|---|---|
| Flow rate range               | LabV1/ V1: 0.000166~570 mL/min<br>LabV3/ V3: 0.000166~1330 mL/min<br>LabV6/ V6: 0.000166~2280 mL/min | Start/stop, direction signal<br>Communication interface | Passive switch signal, such as foot pedal switch<br>Active switch signal: 5V, 12V and 24V for option<br>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   | Power supply  | AC 220V±10% 50Hz/60Hz (standard)<br>AC 110V±10% 50Hz/60Hz (optional)  |
| Flow rate resolution          | 0.01 µl  | Drive dimension   | LabV Series: 261.4×157.3×236.9 mm<br>V Series: 219.6×152×211.6 mm   |
| Flow rate accuracy            | <±0.5%   | Drive weight (L×W×H)                                    | LabV Series: 4.40 kg<br>V Series: 4.20 kg   |
| Back suction angle            | 0-360°   | Power consumption                                       | < 50W   |
| Outlet pressure               | 0.1Mpa (0.86-1.0mm wall thickness tubing)<br>0.1-0.27Mpa (1.6-2.4mm wall thickness tubing)           | Condition temperature                                   | 0-40°C  |
| Motor type                    | Stepper motor  | Relative humidity                                       | < 80%   |
| Display                       | Industrial grade 4.3" LCD color display  | IP rate   | IP31  |
| Control method                | Touch screen and Mechanical keypad   |   |   |
| Keypad lifetime               | 300,000 times  |   |   |
| External speed control signal | 0-5V, 0-10V, 4-20mA  |   |   |

### Product Composition and Flow Rate Range

| Flow Rates<br>Peristaltic Pump |            | Pump Head & Flow Rate (mL/min)      |           |   |  |
|--------------------------------|------------|-------------------------------------|-----------|---|--|
|                                |            | YZ1515x                             | YZ2515x   | MC1~MC12(10)  | MC1~MC12(6)  |
| Drive & speed                  | Tubing     | 13", 14", 19", 16"<br>25", 17", 18" | 15", 24"  | Inner diameter: 0.13-3.17mm<br>Wall thickness: 0.86-1mm |  |
| LabV1/V1                       | 0.1-150rpm | 0.007~570                           | 0.17~435  | 0.000166-49(suggest working rotating speed≤150rpm)      | 0.000185-65(suggest working rotating speed≤150rpm) |
| LabV3/V3                       | 0.1-350rpm | 0.007~1330                          | 0.17~1015 |   |  |
| LabV6/V6                       | 0.1-600rpm | 0.007~2280                          | 0.17~1740 |   |  |



Fixed Volume Measurement Setting Interface

Fixed Time and Volume Setting Interface

Timer Start and Stop Setting Interface

# Lab2015

(Glory Edition)



**LAB**  
Intelligent  
model

- Touch screen control
- Animation display
- ABS engineering plastic housing



## Lab2015 Product Composition and Flow Rate Range

| Drive   | Speed Range(rpm) | Pump Head   | Tubing Size                    | Flow Rate(mL/min) |
|---------|------------------|-------------|--------------------------------|-------------------|
| Lab2015 | 0.1-100rpm       | YZ1515x     | 13#、14#、19#、16#<br>25#、17#、18# | 0.007~380         |
|         |                  | YZ2515x     | 15#、24#                        | 0.17~290          |
|         |                  | MC1-MC8(10) | Inner diameter:<br>0.13~3.17mm | 0.000166~32       |
|         |                  | MC1-MC8(6)  | Wall thickness:<br>0.000185~42 |                   |

## Flow Rates Peristaltic Pump

V6-12L



### Features

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

### Model Number

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

| Technical Specifications      |  |                             |  |                         |  |
|-------------------------------|--|-----------------------------|--|-------------------------|--|
| Flow rate range               | V6-3L: 0.211~3600 mL/min<br>V6-6L: 0.3~6000 mL/min<br>V6-12L: 0.00069~12 L/min | Start/stop,direction signal | Passive switch signal, such as foot pedal switch<br>Active switch signal: 5V, 12V and 24V for option | Communication interface | Rs232, RS485 support MODBUS protocol (RTU mode)                      |
| Speed range                   | 0.1-600 rpm  | Output interface            | Output motor working status (Open-Collector output)  | Power supply            | AC 220V±10% 50Hz/60Hz (standard)<br>AC 110V±10% 50Hz/60Hz (optional) |
| Speed resolution              | 0.01 rpm   | Drive dimension             | V6-3L: 223×152×200mm<br>V6-6L: 283×192×218mm<br>V6-12L: 302×222×275mm                                | Drive weight            | V6-3L: 5.02kg; V6-6L: 7.85kg; V6-12L: 13.14kg                        |
| Flow rate resolution          | 0.01 mL  | Power consumption           | V6-3L: <80W ; V6-6L: <180W ; V6-12L: <300W   | Environment temperature | 0-40°C   |
| Flow rate accuracy            | <±0.5%   | Relative humidity           | < 80%  | IP rate                 | IP31   |
| Back suction angle            | 0-360°   |                             |  |                         |  |
| Outlet pressure               | 0.3 Mpa  |                             |  |                         |  |
| Motor type                    | Servo motor  |                             |  |                         |  |
| Display                       | Industrial grade 4.3" color LCD display  |                             |  |                         |  |
| Control method                | Touch screen and Mechanical keypad   |                             |  |                         |  |
| Keypad lifetime               | 300,000 times  |                             |  |                         |  |
| External speed control signal | 0-5V,0-10V,4-20mA  |                             |  |                         |  |

### Product Composition and Flow Rate Range

| Drive | Motor Type  | Pump Head | Tubing Size        | Speed Range(rpm) | Flow Rate(mL/min) |
|-------|-------------|-----------|--------------------|------------------|-------------------|
| V6-3L | Servo Motor | DZ25-3L   | 15", 24", 35", 36" | 0.1-600          | 0.211~3600        |
| V6-6L |             | DZ25-6L   | 15", 24", 35", 36" |                  | 0.3~6000          |
| V6-12 |             | YZ35      | 26", 73", 82"      |                  | 0.69~12000        |

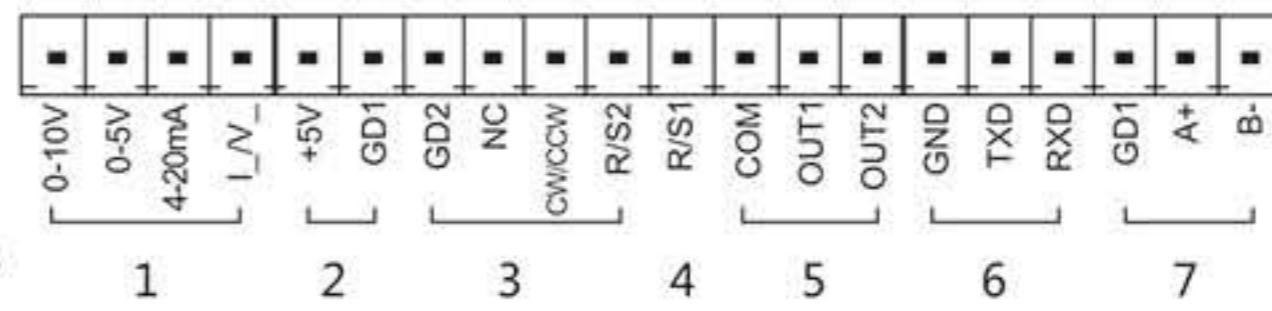
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V Series peristaltic pump has various external control interface, can meet different equipment supporting requirements.

#### | 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.

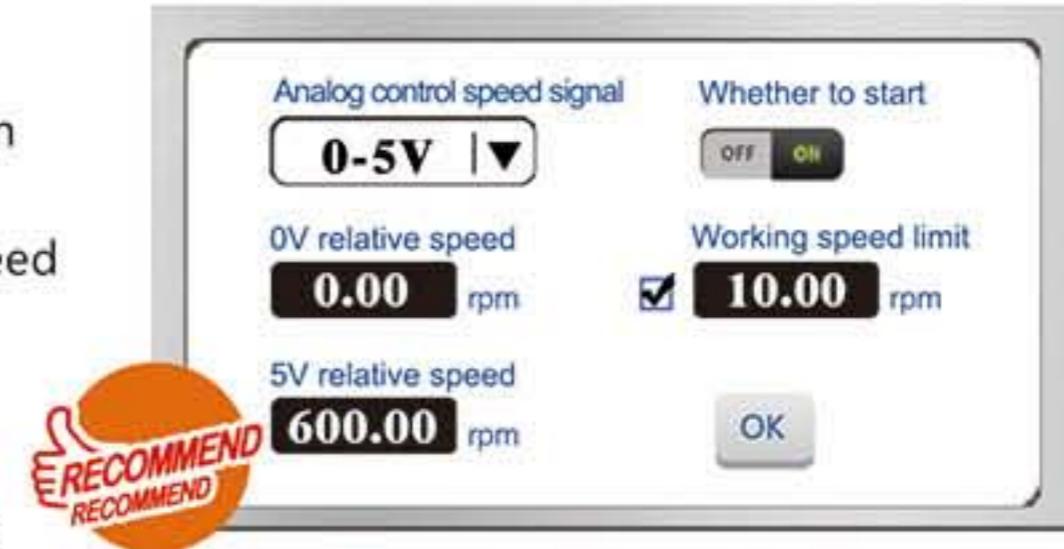
#### | Choose external control start/stop,direction signal

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: 5V(default),12V,24V.



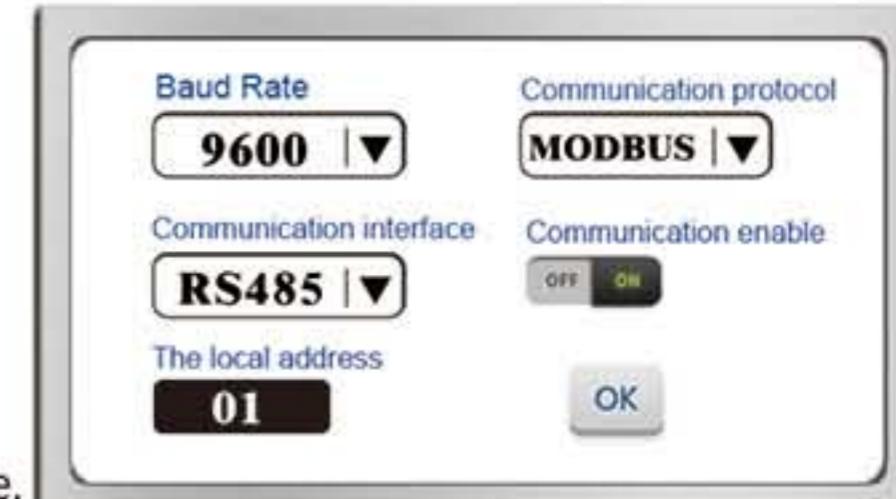
#### | Programmable external control speed setting

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.

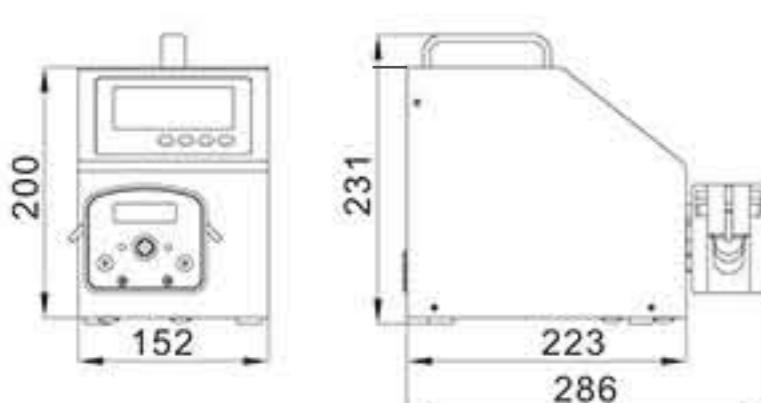


#### | Communication setting

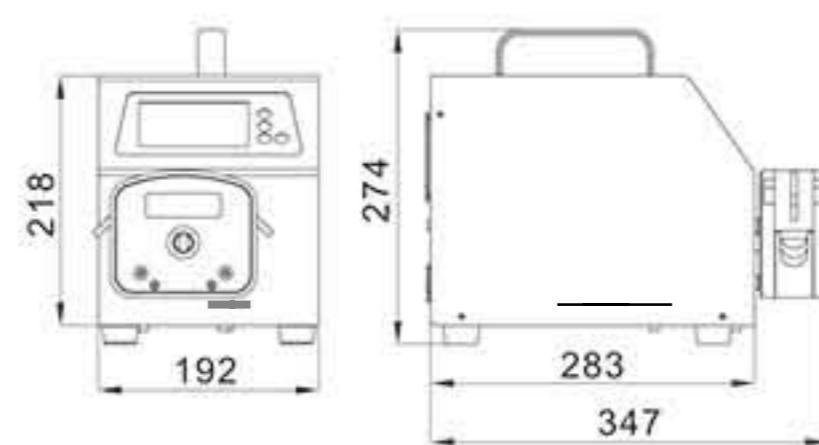
1. Support RS232 and RS485 interface, can be chosen in software interface.
2. Support various Baud rate : 2400bps, 4800bps, 9600bps, 19200bps.
3. Can choose standard modbus communication protocol or Shenchen communication protocol to control, modbus communication protocol is suitable to match with industrial 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.



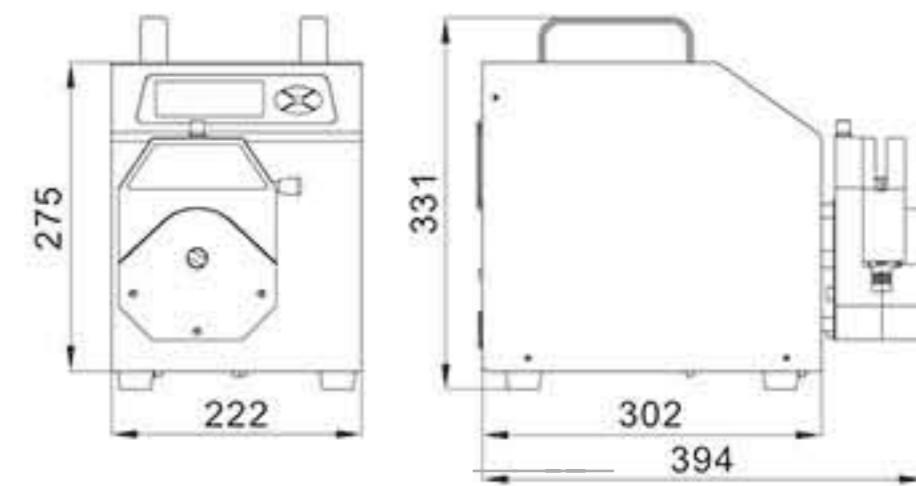
#### Installation Sizes Drawing (Unit: mm)



V6-3L



V6-6L



V6-12L

## Flow Rates Peristaltic Pump

TC50



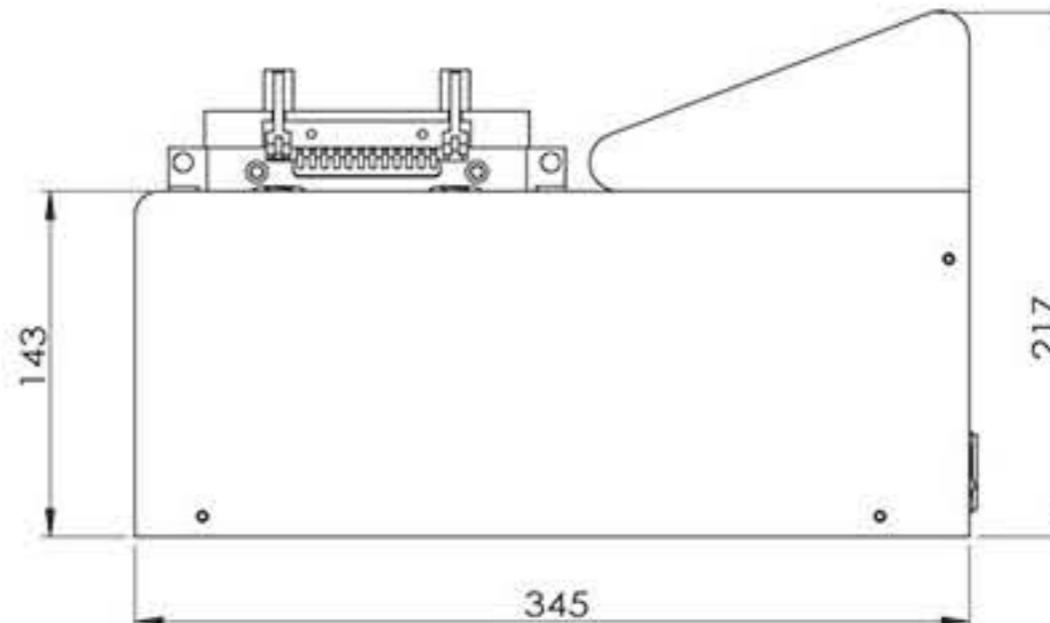
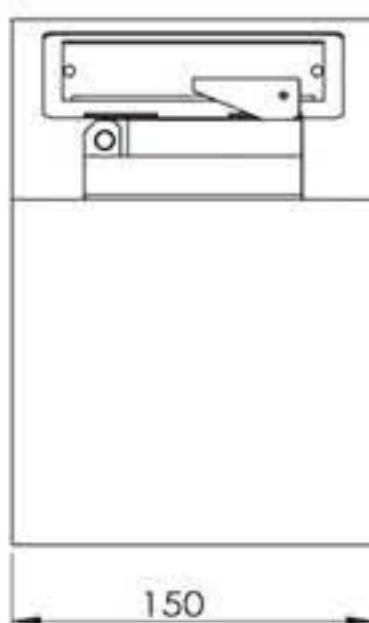
Special for flow injection analyzer

**Features**

- | Special for flow injection analyzer.
- | Overall block design to improve the accuracy between channels.
- | The first choice for multichannel, high precision, and micro flow rate transferring.

**Model Number | TC50**

### Installation Sizes Drawing (Unit: mm)



### Technical Specifications

|                               |   |                              |  |
|-------------------------------|---|------------------------------|--|
| Flow rate range               | 0.0016~10.5 mL/min                      | Start/stop, direction signal | Passive switch signal, such as: foot pedal switch<br>Active switch signal: 5V, 12V, 24V for option |
| Speed range                   | 0.1-50 rpm                              | Communication interface      | RS232, RS485 support MODBUS protocol(RTU mode)   |
| Speed resolution              | 0.01rpm                                 | Output interface             | Output motor working status (Open-Collector output)  |
| Flow rate resolution          | 0.01μl                                  | Power supply                 | AC 220V±10% 50Hz/60Hz (Standard)<br>AC 110V±10% 50Hz/60Hz (Optional)                               |
| Flow errors between channels  | <3%                                     | Drive dimension              | 345×150×217mm (L×W×H)  |
| Back suction angle            | 0-360°                                  | Drive weight                 | 8.02 kg  |
| Outlet pressure               | 0.15 Mpa                                | Power consumption            | < 50 W   |
| Motor type                    | Servo motor                             | Condition temperature        | 0-40°C   |
| Display                       | Industrial grade 4.3" color LCD display | Relative humidity            | < 80%  |
| Control method                | Touch screen and Mechanical keypad      | IP rate                      | IP31   |
| Keypad lifetime               | 300,000 times                           |                              |  |
| External speed control signal | 0-5V, 0-10V, 0-20mA for option          |                              |  |

### Product Composition and Flow Rate Range

| Drive | Motor Type  | Pump Head | Tubing Size | Speed Range(rpm) | Flow Rate(mL/min) |
|-------|-------------|-----------|-------------|------------------|-------------------|
| TC50  | Servo Motor | MT12      | 0.51×0.9    | 0.1-50           | 0.0016~0.84       |
|       |             |           | 1.02×0.86   |                  | 0.005~2.5         |
|       |             |           | 2.06×0.86   |                  | 0.015~7.5         |
|       |             |           | 2.54×0.86   |                  | 0.020~10.5        |

## Dispensing Peristaltic Pump

LabF1, LabF3, LabF6



ABS  
Engineering Plastic Housing

| LabF1, LabF3, LabF6

| Medicine and chemical dispensing, such as oral liquid, diagnostic reagents.

| Cosmetic dispensing, such as perfume, lip gloss.



① Filling Countersunk

② Filling Nozzle

③ Foot Pedal Switch

### Suitable Pump Head



## Dispensing Peristaltic Pump

F1, F3, F6



**304**  
SS Housing

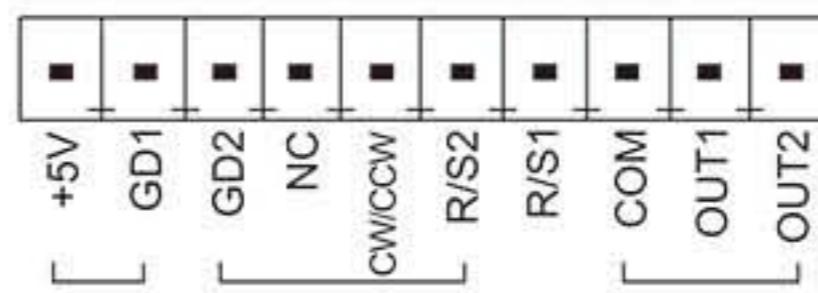
### Features

- | 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.
- | New flow rate mode, can be used for continuous transferring.
- | Can communicate with balance, closed-loop control.

### Model Number

| F1, F3, F6

### External Control Schematic Diagram



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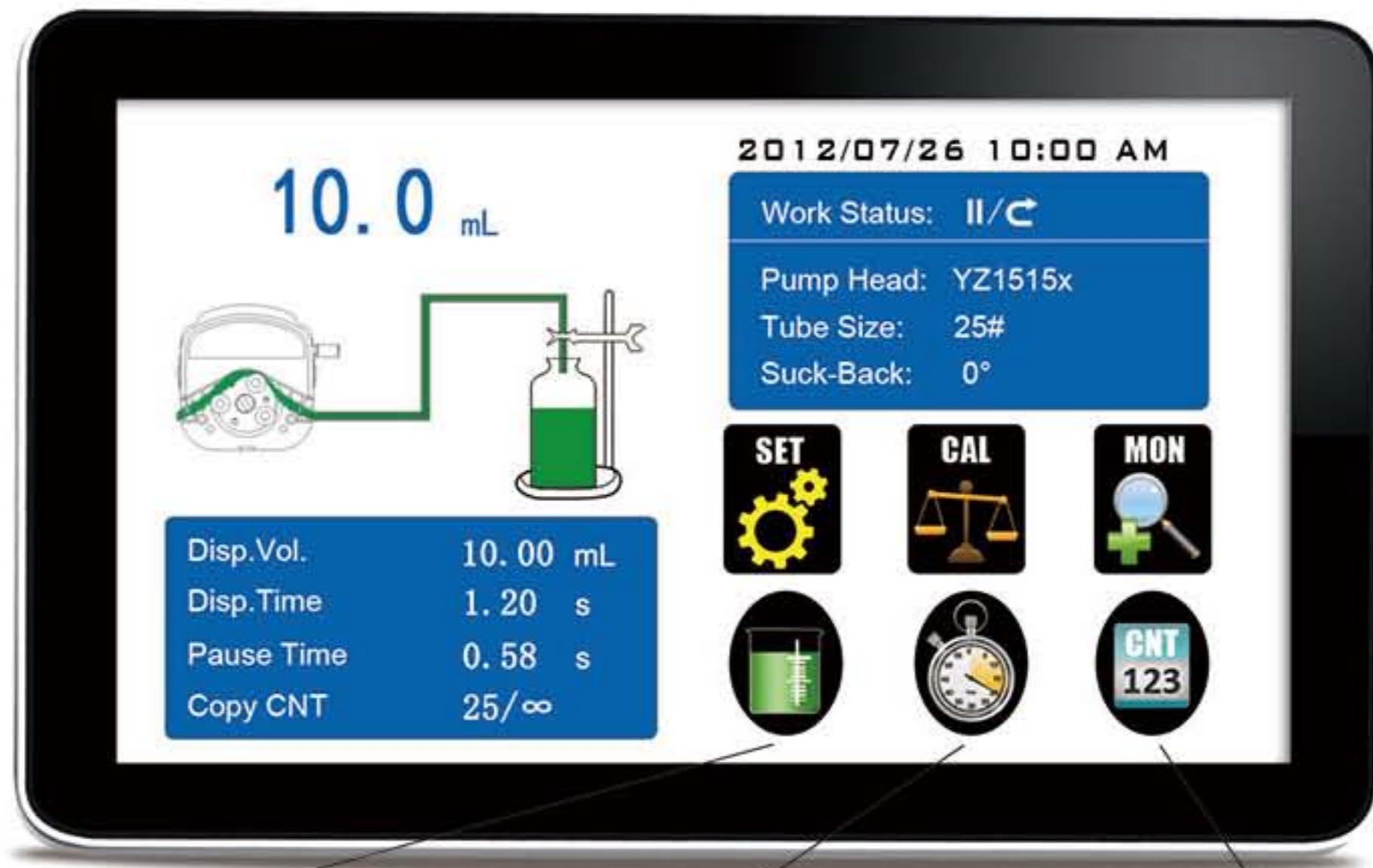
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| Technical Specifications     |   |                              |   |
|------------------------------|---|------------------------------|---|
| Flow rate range              | LabF1/F1: 0.00166~570mL/min<br>LabF3/F3: 0.00166~1330mL/min<br>LabF6/F6: 0.00166~2280mL/min | Keypad lifetime              | 300,000 times                                       |
| Speed range                  | 1-600 rpm   | Start/stop, direction signal | Passive switch signal, such as foot pedal switch    |
| Speed resolution             | 0.01 rpm  | Output interface             | Active switch signal: 5V, 12V and 24V for option    |
| Dispensing volume range      | 0.1-9999.99 mL  | Power supply                 | Output motor working status (Open-Collector output) |
| Dispensing volume resolution | 0.01 mL   | Outlet pressure              | AC 220V±10% 50Hz/60Hz (Standard)                    |
| Dispensing time              | 0.5-9999.99 s   | Drive dimension (L×W×H)      | AC 110V±10% 50Hz/60Hz (Optional)                    |
| Pause time                   | 0.5-9999.99 s   | Drive weight                 | 0.1Mpa(0.86~1.0mm wall thickness tubing)            |
| Time resolution              | 0.01 s  | Power consumption            | 0.1~0.27Mpa(1.6~2.4mm wall thickness tubing)        |
| Copy numbers                 | 1-9999 numbers, setting '0' means unlimited   | Condition temperature        | LabF Series: 261.4×157.3×236.9 mm                   |
| Back suction angle           | 0-360°  | Relative humidity            | F Series: 219.6×152×211.6mm                         |
| Dispensing accuracy          | <±0.5%  | IP rate                      | Drive weight  |
| Motor type                   | Stepper motor   |                              | LabF Series: 4.40 kg                                |
| Display                      | Industrial grade 4.3" color LCD display   |                              | F Series: 4.20 kg                                   |
| Control method               | Touch screen and Mechanical keypad  |                              | Power consumption < 50W                             |
|                              |   |                              | Condition temperature 0-40°C                        |
|                              |   |                              | Relative humidity < 80%                             |
|                              |   |                              | IP rate IP31  |

### Product Composition and Flow Rate Range

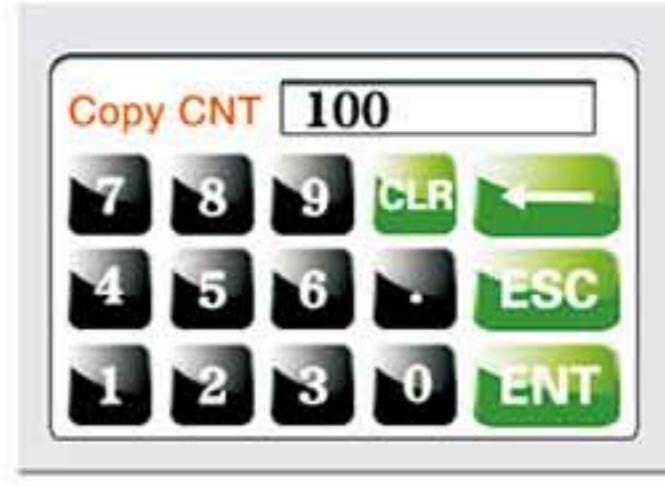
| Dispensing Peristaltic Pump |          | Pump Head & Flow Rates (mL/min)     |          |   |   |
|-----------------------------|----------|-------------------------------------|----------|---|---|
| Drive & speed               |          | YZ1515x                             | YZ2515x  | MC1~MC12(10)  | MC1~MC12(6)                                 |
| Tubing                      |          | 13°, 14°, 19°, 16°<br>25°, 17°, 18° | 15°, 24° | Inner diameter: 0.13-3.17mm<br>Wall thickness: 0.86-1mm |   |
| LabF1/F1                    | 1-150rpm | 0.07~570                            | 1.7~435  | 0.00166-49(suggestion working speed≤150rpm)             | 0.00185-65(suggestion working speed≤150rpm) |
| LabF3/F3                    | 1-350rpm | 0.07~1330                           | 1.7~1015 |   |   |
| LabF6/F6                    | 1-600rpm | 0.07~2280                           | 1.7~1740 |   |   |



Dispensing volume interface



Dispensing time and pause time interface



Copy numbers interface

## Dispensing Peristaltic Pump

F6-12L

**304**  
SS Housing



### Features

- | Suitable for large flow rate, high efficiency, high precision filling.
- | Servo motor drive, accurate control, strong driving force.
- | 304 stainless steel drive housing can support the filling line.
- | New flow rate mode, can be used for continuous transferring.

### Model Number

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

### Technical Specifications

|                              |  |                                 |   |
|------------------------------|--|---------------------------------|---|
| Flow rate range              | F6-3L: 2.11~3600 mL/min<br>F6-6L: 3.0~6000 mL/min<br>F6-12L: 0.0069~12 L/min | Control method                  | Touch screen and Mechanical keypad                  |
|                              |  | Keypad lifetime                 | 300,000 times                                       |
|                              |  | Start/stop,<br>direction signal | Passive switch signal, such as foot pedal switch    |
| Speed range                  | 1-600 rpm  | Output interface                | Active switch signal: 5V, 12V and 24V for option    |
| Speed resolution             | 0.01 rpm   | Power supply                    | Output motor working status (Open-Collector output) |
| Dispensing volume range      | 0.1-9999.99 mL   |                                 | AC 220V±10% 50Hz/60Hz (Standard)                    |
| Dispensing volume resolution | 0.01 mL  |                                 | AC 110V±10% 50Hz/60Hz (Optional)                    |
| Dispensing time              | 0.5-9999.99 s  | Drive dimension                 | F6-3L: 223×152×200mm                                |
| Pause time                   | 0.5-9999.99 s  |                                 | F6-6L: 283×192×218mm                                |
| Time resolution              | 0.01 s   |                                 | F6-12L: 302×222×275mm                               |
| Copy numbers                 | 1-9999 times, setting '0' means unlimited                                    | Drive weight                    | F6-3L: 5.02kg; F6-6L: 7.85kg; F6-12L: 13.14kg;      |
| Back suction angle           | 0-360°   | Power consumption               | F6-3L:<80W ; F6-6L:<180W ; F6-12L:<300W             |
| Outlet pressure              | 0.3 Mpa  | Condition temperature           | 0-40°C  |
| Dispensing accuracy          | <±0.5%   | Relative humidity               | <80%  |
| Motor type                   | Servo motor  | IP rate                         | IP31  |
| Display                      | Industrial grade 4.3" color LCD display                                      |                                 |   |

### Product Composition and Flow Rate Range

| Drive  | Motor Type  | Pump Head | Tubing Size        | Speed Range(rpm) | Flow Rate(mL/min) |
|--------|-------------|-----------|--------------------|------------------|-------------------|
| F6-3L  | Servo Motor | DZ25-3L   | 15", 24", 35", 36" | 1-600            | 2.11~3600         |
| F6-6L  |             | DZ25-6L   | 15", 24", 35", 36" |                  | 3.0~6000          |
| F6-12L |             | YZ35      | 26", 73", 82"      |                  | 6.9~12000         |

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### 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/F6 | YZ1515x   | 13#     | 0.1                 | 0.5             | ±5ul                  | 40              | 204.083          |
|          |           | 13#     | 0.3                 | 0.7             | 1.5                   | 35              | 426.251          |
|          |           | 13#     | 0.5                 | 1               | 0.8                   | 30              | 516.081          |
|          |           | 13#     | 1                   | 2               | 0.5                   | 20              | 517.152          |
|          |           | 14#     | 2                   | 1               | 1                     | 30              | 446.724          |
|          |           | 14#     | 3                   | 1.5             | 0.8                   | 24              | 446.479          |
|          |           | 19#     | 5                   | 1.2             | 1                     | 27              | 454.919          |
|          |           | 16#     | 7                   | 1               | 0.5                   | 30              | 457.705          |
|          |           | 25#/15# | 10                  | 1               | 1                     | 30              | 303.426          |
|          |           | 25#/15# | 15                  | 1               | 0.8                   | 30              | 461.273          |
|          | YZ2515x   | 25#/15# | 20                  | 1.2             | 0.5                   | 27              | 518.945          |
|          |           | 17#/24# | 30                  | 1.2             | 0.8                   | 27              | 462.725          |
|          |           | 17#/24# | 50                  | 2               | 0.5                   | 20              | 461.595          |
|          |           | 18#     | 80                  | 2.5             | 0.5                   | 17              | 427.274          |
|          |           | 18#     | 100                 | 3               | 0.5                   | 15              | 446.583          |
| F6-3L    | DZ25-3L   | 15#     | 16                  | 1               | 0.5                   | 30              | 443.540          |
|          |           | 24#     | 30                  | 1.2             | 1.0                   | 27              | 454.877          |
|          |           | 35#     | 150                 | 4               | 0.6                   | 12              | 447.940          |
|          |           | 36#     | 200                 | 4               | 0.6                   | 12              | 481.802          |
| F6-6L    | DZ25-6L   | 15#     | 80                  | 4               | 0.4                   | 12              | 396.800          |
|          |           | 24#     | 150                 | 4               | 0.4                   | 12              | 440.700          |
|          |           | 35#     | 200                 | 3.2             | 0.5                   | 14              | 439.540          |
|          |           | 36#     | 300                 | 3.5             | 0.5                   | 13              | 473.208          |
| F6-12L   | YZ35      | 26#     | 150                 | 3               | 0.5                   | 15              | 423.254          |
|          |           | 73#     | 300                 | 3               | 0.5                   | 15              | 457.805          |
|          |           | 82#     | 500                 | 3               | 0.5                   | 15              | 458.451          |

### F6 Series Filling Accuracy Reference Parameter(Media is water)

| Drive  | Pump Head | Tubing | Filling Volume | Filling Time | Actual Filling Volume(mL) |        |        |        |        |        |        |        |        |        |       |       | Filling Accuracy |  |
|--------|-----------|--------|----------------|--------------|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------------------|--|
|        |           |        |                |              | 15*                       | 16mL   | 1s     | 15.97  | 15.97  | 16.00  | 16.06  | 15.97  | 15.92  | 15.96  | 16.02 | 16.01 | 15.97            |  |
| F6-3L  | DZ25-3L   | 15*    | 16mL           | 1s           | 15.98                     | 16.00  | 16.04  | 16.08  | 15.92  | 15.95  | 16.01  | 16.01  | 15.97  | 15.97  |       |       |                  |  |
|        |           |        |                |              | 29.98                     | 30.12  | 30.20  | 30.29  | 30.06  | 29.94  | 30.11  | 30.18  | 30.02  | 29.99  |       |       |                  |  |
|        |           | 24*    | 30mL           | 1.2s         | 30.23                     | 30.24  | 30.12  | 29.99  | 30.12  | 30.23  | 30.20  | 30.30  | 30.19  | 30.11  |       |       |                  |  |
|        |           |        |                |              | 149.50                    | 149.50 | 150.10 | 150.00 | 149.80 | 149.00 | 149.70 | 149.50 | 150.10 | 149.60 |       |       |                  |  |
| F6-6L  | DZ25-6L   | 35*    | 150mL          | 4s           | 149.00                    | 149.90 | 149.70 | 149.10 | 149.50 | 150.00 | 150.10 | 150.10 | 149.60 | 149.40 |       |       |                  |  |
|        |           |        |                |              | 199.70                    | 200.30 | 200.10 | 200.30 | 200.00 | 200.00 | 200.70 | 200.80 | 200.70 | 200.40 |       |       |                  |  |
|        |           | 36*    | 200mL          | 4s           | 200.30                    | 200.00 | 200.30 | 200.80 | 200.90 | 200.70 | 200.80 | 200.40 | 200.50 | 200.20 |       |       |                  |  |
|        |           |        |                |              | 80.2                      | 80.0   | 80.3   | 80.2   | 80.1   | 80.1   | 80.2   | 80.1   | 80.2   | 80.1   |       |       |                  |  |
| F6-6L  | DZ25-6L   | 15*    | 80mL           | 4s           | 80.1                      | 79.9   | 80.1   | 79.9   | 80.0   | 80.1   | 19.9   | 80.1   | 80.1   | 80.0   |       |       |                  |  |
|        |           |        |                |              | 149.9                     | 150.2  | 150.0  | 150.1  | 150.0  | 150.3  | 150.0  | 150.1  | 150.3  | 150.0  |       |       |                  |  |
|        |           | 24*    | 150mL          | 4s           | 149.9                     | 150.1  | 150.0  | 150.0  | 150.1  | 150.0  | 150.1  | 149.9  | 150.2  | 150.2  |       |       |                  |  |
|        |           |        |                |              | 199.7                     | 199.9  | 200.2  | 200.2  | 200.2  | 199.6  | 199.8  | 199.8  | 200.1  | 199.9  |       |       |                  |  |
| F6-12L | YZ35      | 35*    | 200mL          | 3.5s         | 199.5                     | 199.2  | 199.5  | 199.9  | 199.5  | 199.3  | 199.8  | 199.3  | 199.6  | 199.9  |       |       |                  |  |
|        |           |        |                |              | 300.4                     | 300.1  | 300.3  | 300.3  | 300.4  | 300.1  | 300.3  | 300.4  | 300.6  | 300.2  |       |       |                  |  |
|        |           | 36*    | 300mL          | 3.5s         | 300.2                     | 300.0  | 300.1  | 300.2  | 300.2  | 299.9  | 299.5  | 300.5  | 300.5  | 300.6  |       |       |                  |  |
|        |           |        |                |              | 149.3                     | 150.3  | 149.6  | 150.2  | 150.5  | 150.1  | 150.5  | 150.1  | 150.5  | 150.0  |       |       |                  |  |
| F6-12L | YZ35      | 26*    | 150mL          | 3s           | 150.4                     | 149.9  | 150.4  | 150.0  | 150.3  | 149.8  | 150.3  | 149.9  | 150.4  | 150.0  |       |       |                  |  |
|        |           |        |                |              | 299.9                     | 299.8  | 300.0  | 300.1  | 300.4  | 300.2  | 300.4  | 300.4  | 300.6  | 300.5  |       |       |                  |  |
|        |           | 73*    | 300mL          | 3s           | 300.8                     | 300.6  | 300.5  | 300.5  | 300.5  | 300.6  | 300.7  | 300.5  | 300.6  | 300.6  |       |       |                  |  |
|        |           |        |                |              | 500.0                     | 497.8  | 499.7  | 498.3  | 498.4  | 499.5  | 498.2  | 499.7  | 499.2  | 498.4  |       |       |                  |  |
| F6-12L | YZ35      | 82*    | 500mL          | 3s           | 499.5                     | 498.3  | 501.5  | 501.9  | 500.0  | 501.8  | 501.1  | 500.5  | 501.6  | 499.6  |       |       |                  |  |

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## Low Pulsation Dispensing Peristaltic Pump



**Model Number | IF3**

### Installation Sizes Drawing (Unit: mm)

#### Features

Servo motor drive, high precision, low pulsation dispensing peristaltic pump.

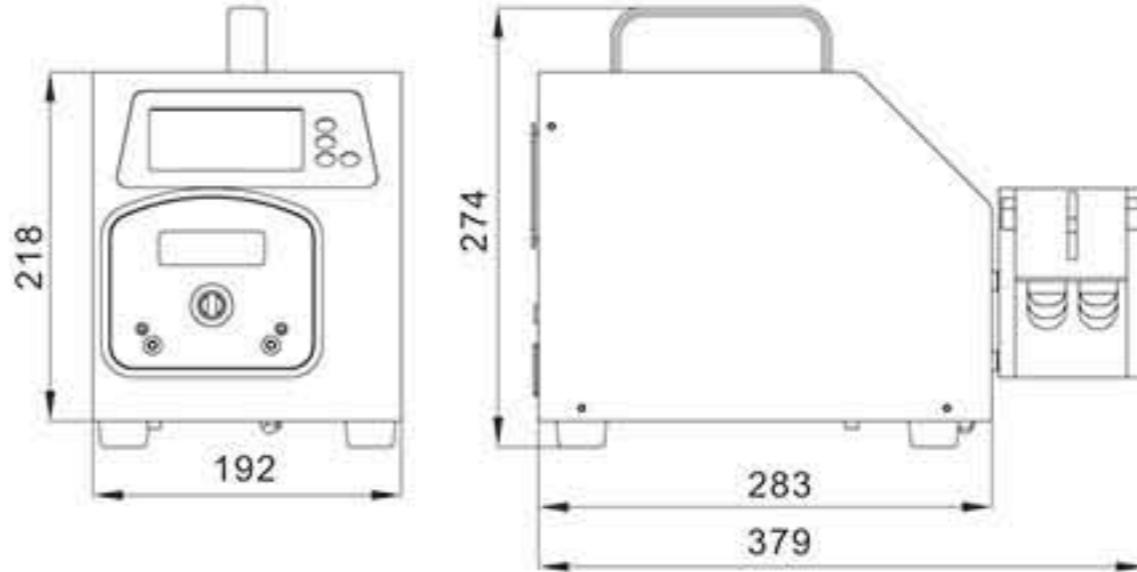
The low pulsation pump head is special for high precision filling. Through the phase difference between the two sets of rollers, make the fluid peaks and valleys complementary, then reduce the pulsation of the fluid.

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.



### Product Composition and Flow Rate Range

| Drive | Motor Type  | Pump Head | Tubing                            | Speed Range(rpm) | Flow Rate(mL/min) |
|-------|-------------|-----------|-----------------------------------|------------------|-------------------|
| IF3   | Servo motor | DY15      | 13", 14", 19", 16", 25", 17", 18" | 1-350            | 0.1~3337          |
|       |             | DY25      | 15", 24", 35", 36"                |                  | 4.2~4340          |

### Filling Volume Reference Parameter(Media is water)

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

## Split Type Filling System

**CF600**



### Features

- | Split design, adding or deleting filling units freely.
- | One controller can control 1-16 filling units.
- | Each filling unit can receive stop filling signal when bottle absent.
- | You can check the working status of the filling units from controller.

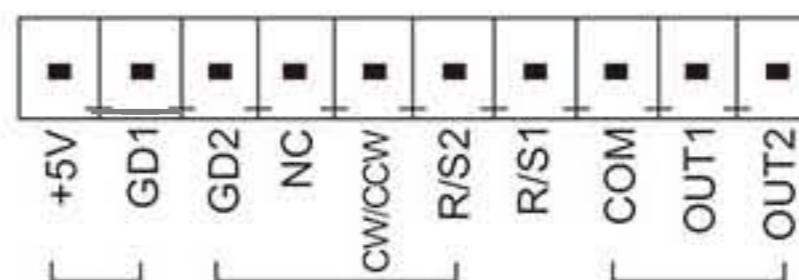
### Model Number

- | CF600, CF600 Plus, CF600II, CF600II Plus

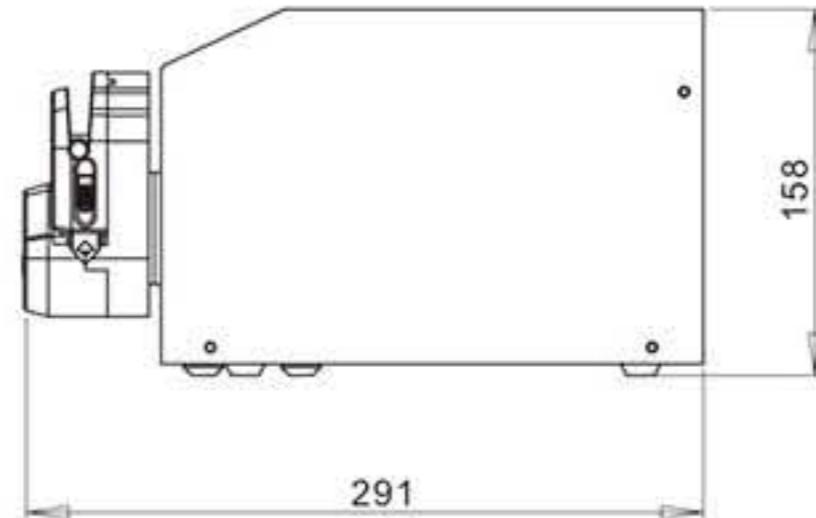
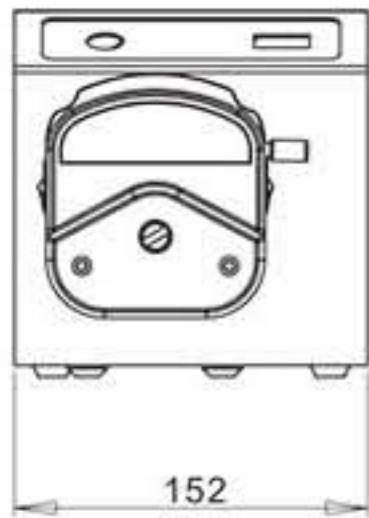
### Typical Application

- | Laboratory dispensing | Industry filling

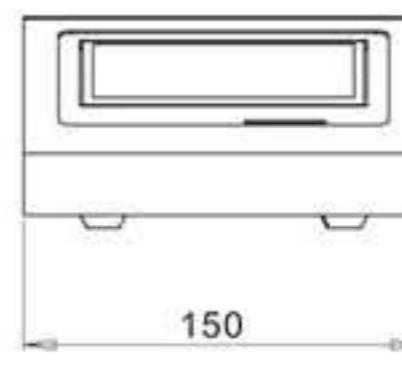
### External Control Schematic Diagram



### Installation Sizes Drawing (Unit: mm)



Drive Dimension Drawing



Controller Dimension Drawing

16 | C



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## Split Type Filling system

**CF350**



### Features

- | Servo 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

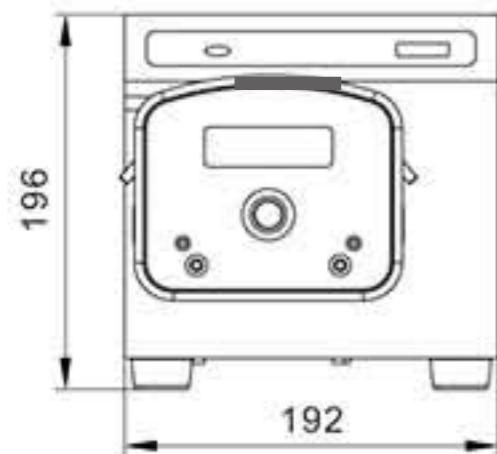
- | CF350, CF350 Plus, CF600III
- | CF600 PlusIII, CF600IV, CF600 PlusIV



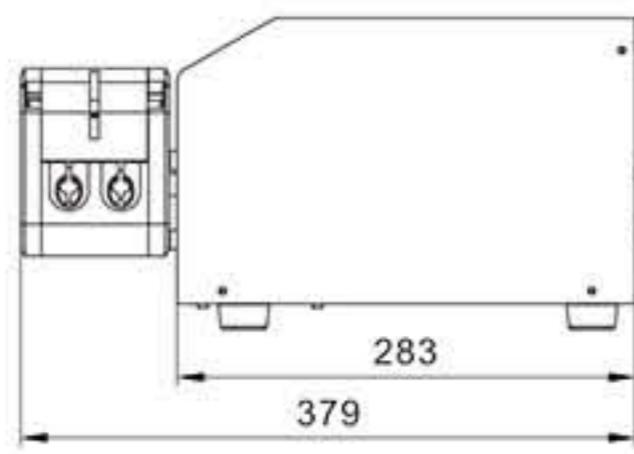
Control Unit

Filling Unit

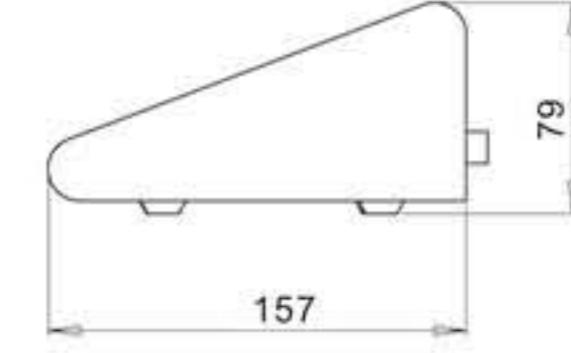
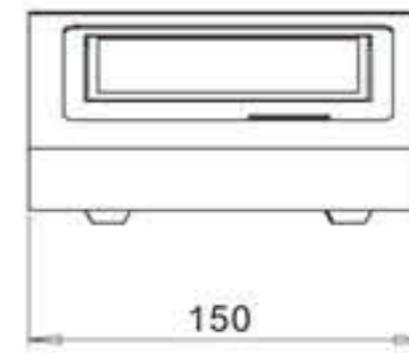
### Installation Sizes Drawing (Unit: mm)



Drive Dimension Drawing



Controller Dimension Drawing



The pump type suffixed with "Plus" support MODBUS communication protocol.

| Drive         | Pump Head | Flow Rate (mL/min.) | Motor Type    | Drive Dimension (LxWxH) | Power Consumption | Drive Weight |
|---------------|-----------|---------------------|---------------|-------------------------|-------------------|--------------|
| CF600         | YZ1515x   | 0.07~2280           | Stepper motor | 237.4×152×158mm         | Each unit<50W     | 4.2kg        |
| CF600Plus     | YZ2515x   | 1.7~1740            |               |                         |                   |              |
| CF600 II      | DZ25-3L   | 2.11-3600           | Stepper motor | 237.4×152×158mm         | Each unit<80W     | 4.95kg       |
| CF600Plus II  |           |                     |               |                         |                   |              |
| CF600 III     | DZ25-6L   | 3.0-6000            | Servo motor   | 283×192×196mm           | Each unit<180W    | 7.8kg        |
| CF600Plus III |           |                     |               |                         |                   |              |
| CF350         | DY15      | 0.1-3337            | Servo motor   | 283×192×196mm           | Each unit<180W    | 7.8kg        |
| CF350Plus     | DY25      | 4.2-4340            |               |                         |                   |              |
| CF600 IV      | YZ35      | 6.9-12000           | Servo motor   | 310×228×248mm           | Each unit<300W    | 11.9kg       |
| CF600PlusIV   | YZ35-PPS  |                     |               |                         |                   |              |

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## Integrated Filling System

**DF600**



### Features

- | Integrated design, one controller can control 4 groups (total 16) filling units.
- | It can support the production filling line, store 60 commonly used filling modes.
- | Each filling unit can independently receive stop filling signal when bottle absent.

### Model Number

- | DF600, DF600II, DF600 Plus, DF600 PlusII

### Typical Application

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

**DF600 Plus**



### Features

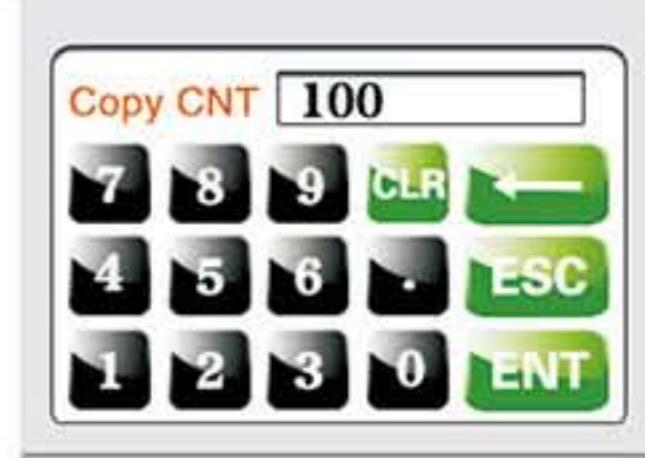
- | Connected with HMI, PLC etc, industrial control system, one controller can control 4 groups (total 16) filling units. It can display the details of 16 filling units in the HMI, widely used in industrial control application.



Dispensing volume interface



Dispensing time and pause time interface



Copy numbers interface

## Integrated Filling System

**DF600IV(servo motor control)**

**304**  
SS Housing



**DF350(servo motor control)**

**304**  
SS Housing



### Product Introduction

DF servo control series is integrated type intelligent filling system with high precision and low pulsation driven by servo motor. It is composed by control unit and integrated type filling units, each group have 4 filling units, total 16 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, animation 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 servo 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

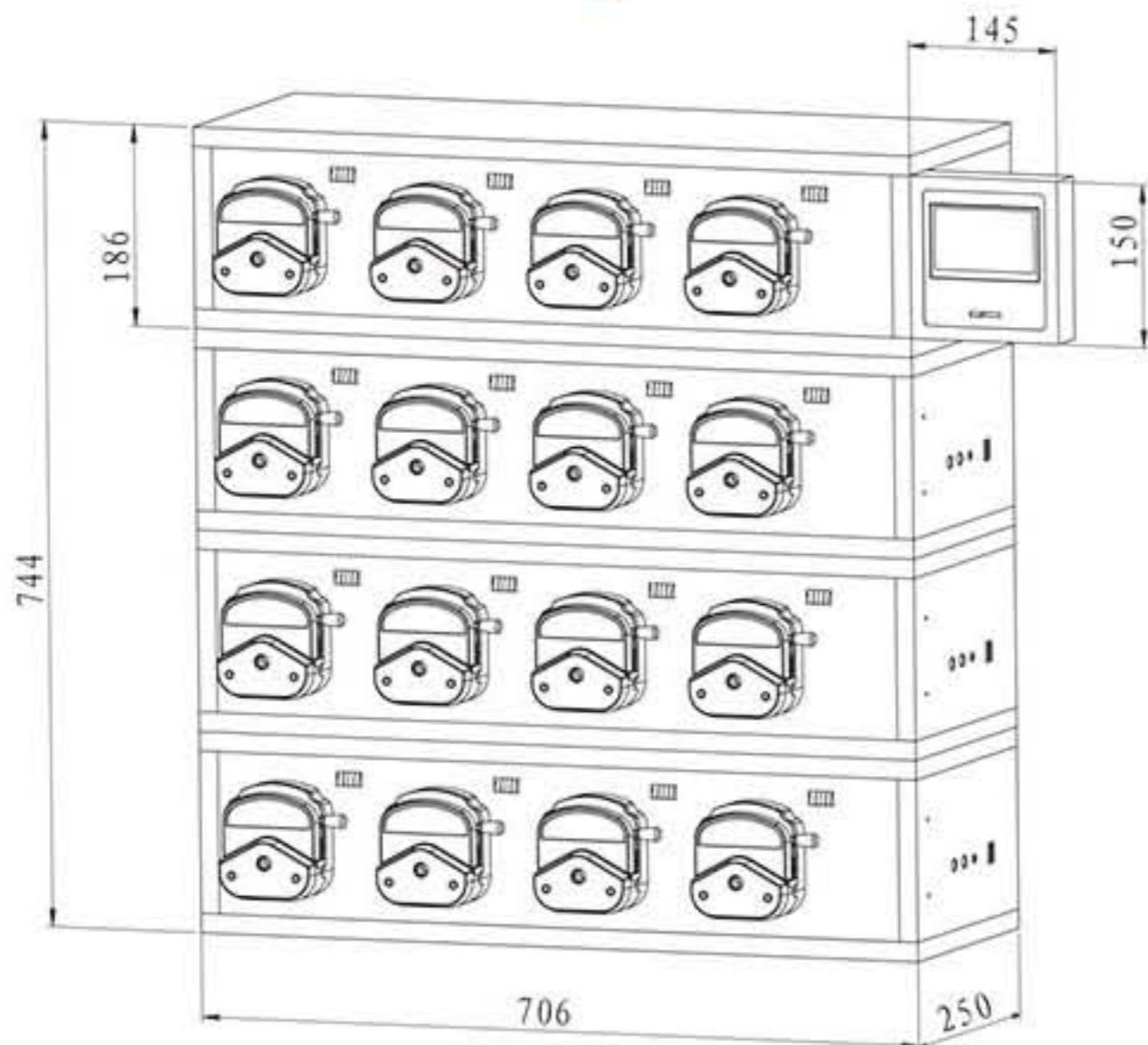
|          |               |
|----------|---------------|
| DF350    | DF350 Plus    |
| DF600III | DF600 PlusIII |
| DF600IV  | DF600 PlusIV  |

### Typical Application

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

## Integrated Filling System

Installation Sizes Drawing(Unit: mm)

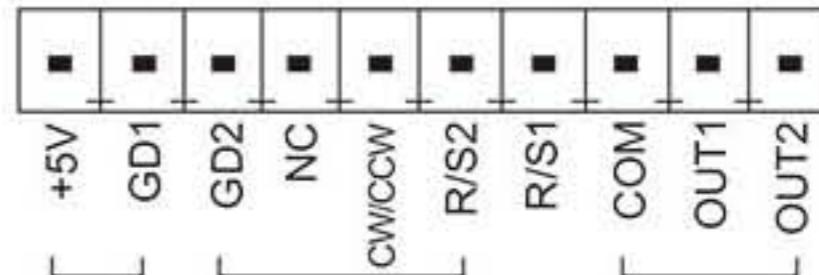


DF600 Dimension

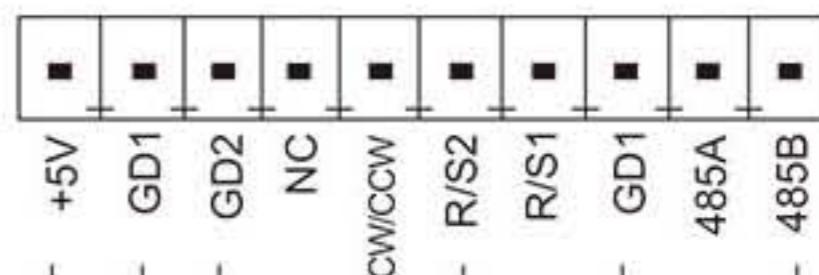
External Control Schematic Diagram

DF600 has filling status output signal, can be monitored by other equipments.

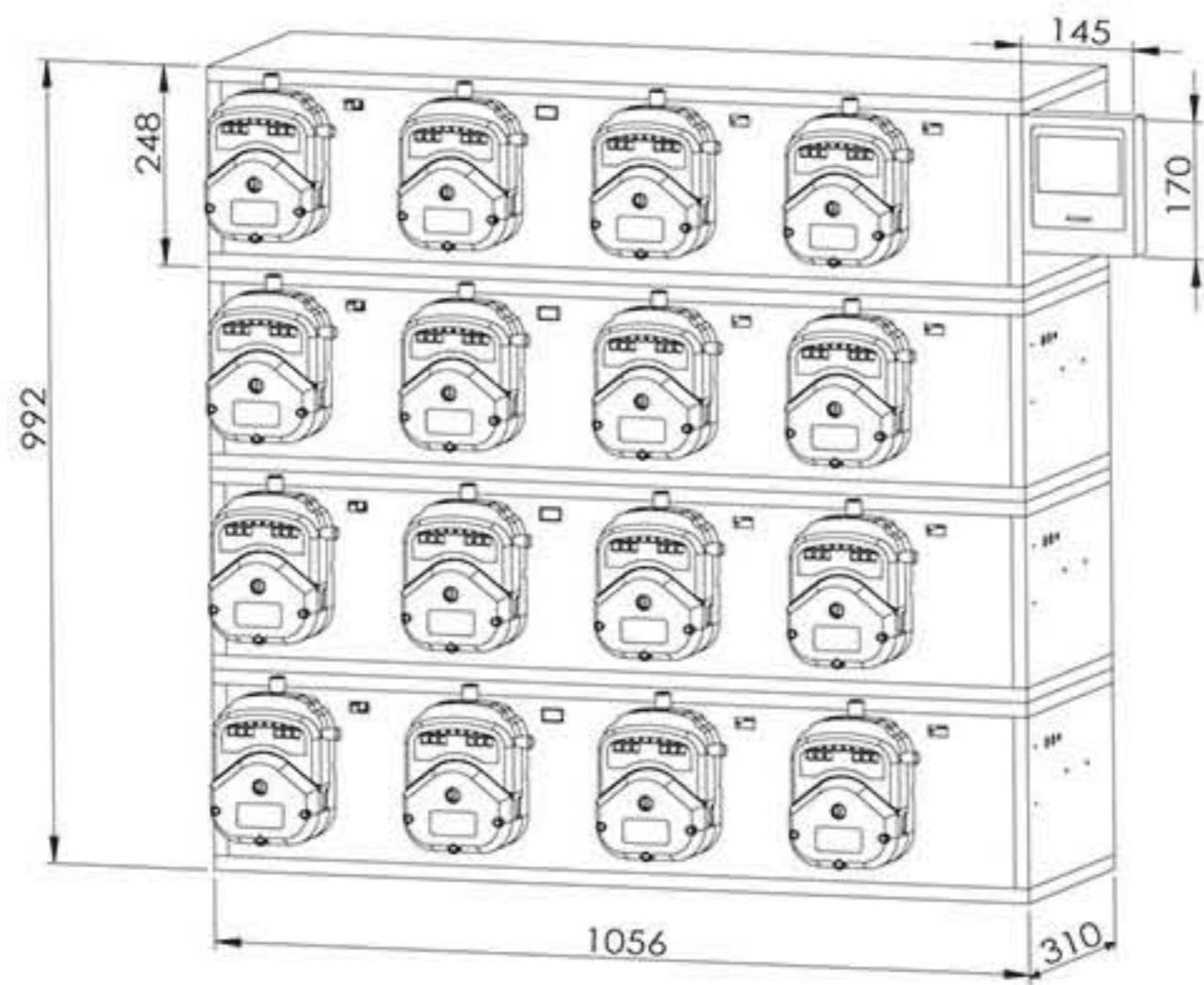
DF600 plus adopt standard MODBUS communication protocol, can be well connected with HMI to achieve logic control.



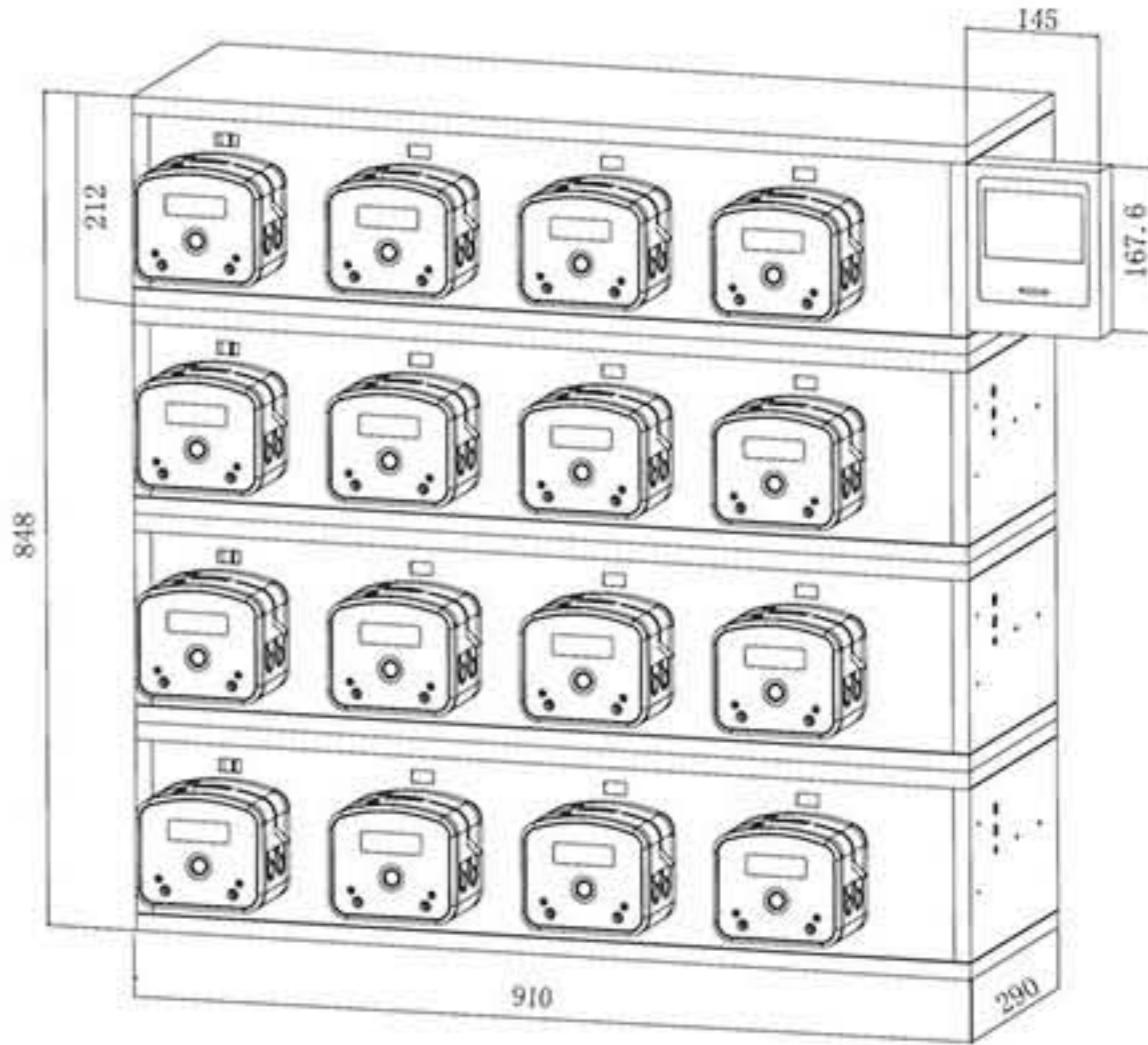
DF600 External Control Schematic Diagram



DF600plus External Control Schematic Diagram



DF600IV Dimension



DF350 Dimension

### The pump type suffixed with "Plus" support MODBUS communication protocol

| Drive                      | Pump Head | Flow Rate (mL/min) | Motor Type    | Drive Dimension (L×W×H) | Power Consumption | Drive Weight |
|----------------------------|-----------|--------------------|---------------|-------------------------|-------------------|--------------|
| DF600<br>DF600Plus         | YZ1515x   | 0.07~2280          | Stepper motor | 706×250×186mm           | Each Unit<50W     | 21.8kg       |
|                            | YZ2515x   | 1.7~1740           |               |                         |                   |              |
| DF600 II<br>DF600Plus II   | DZ25-3L   | 2.11-3600          | Stepper motor | 706×250×186mm           | Each Unit<80W     | 21.8kg       |
|                            | DZ25-6L   | 3.0-6000           |               |                         |                   |              |
| DF600 III<br>DF600Plus III | DY15      | 0.1-3337           | Servo motor   | 910×290×212mm           | Each Unit<180W    | 41.45kg      |
|                            | DY25      | 4.2-4340           |               |                         |                   |              |
| DF350<br>DF350Plus         | YZ35      | 6.9-12000          | Servo motor   | 910×290×212mm           | Each Unit<180W    | 41.45kg      |
|                            | YZ35-PPS  |                    |               |                         |                   |              |

### Technical Specifications

|                           |  |           |                              |   |
|---------------------------|--|-----------|------------------------------|---|
| Speed range               | CF350/DF350                              | 1-350 rpm | Display                      | 4.3" industrial grade true color LCD screen         |
|                           | CF350 Plus/DF350 Plus                    | 1-350 rpm | Control method               | Touch screen and mechanical keypad                  |
|                           | CF600III/DF600III/DF600IV                | 1-600 rpm | Keypad lifetime              | 300,000 times                                       |
|                           | CF600 PlusIII/DF600 PlusIII/DF600 PlusIV | 1-600 rpm | Start/stop, direction signal | Passive switch signal, such as foot pedal switch    |
| Filling volume range      | 0.1-9999.99 mL                           |           | Output interface             | Active switch signal: 5V, 12V, 24V for option       |
| Filling time range        | 0.5-9999.99 s                            |           | Power supply                 | Output motor working status (Open-Collector output) |
| Pause time range          | 0.5-9999.99 s                            |           |                              | AC 220V±10% 50Hz/60Hz (standard)                    |
| Filling volume resolution | 0.01 mL                                  |           |                              | AC 110V±10% 50Hz/60Hz (optional)                    |
| Time resolution           | 0.01 s                                   |           | Condition temperature        | 0-40°C  |
| Copy numbers              | 1-9999, '0' means unlimited              |           | Relative humidity            | <80%  |
| Back suction angle        | 0-360°                                   |           | IP rate                      | IP31  |
| Filling accuracy          | <±0.5%                                   |           |                              |   |

### Product Composition and Flow Rate Range

| Drive  | Pump Head | Pump Head Material | Tube Clamp Material | Tubing      |                   | (Motor Speed 1~600rpm)<br>Flow Rate mL/min |
|--|-----------|--------------------|---------------------|-------------|-------------------|--|
|  |           |                    |                     | Tubing size | ID×Wall Thickness |  |
| DF600<br>CF600<br>DF600 Plus<br>CF600 Plus             | YZ1515x   | PSF<br>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                                   |
|  | YZ2515x   | PSF<br>PPS         |                     | 17"         | 6.4×1.6(mm)       | 2.9~1740                                   |
|  |           |                    |                     | 18"         | 7.9×1.6(mm)       | 3.8~2280                                   |
|  |           |                    |                     | 15"         | 4.8×2.4(mm)       | 1.7~1020                                   |
|  |           |                    |                     | 24"         | 6.4×2.4(mm)       | 2.9~1740                                   |
|  |           |                    |                     | 15"         | 4.8×2.4(mm)       | 2.11~1264                                  |
| DF600II<br>CF600II<br>DF600 PlusII<br>CF600 PlusII     | DZ25-3L   | Aluminum alloy/PPS | PP                  | 24"         | 6.4×2.4(mm)       | 3.85~2310                                  |
|  |           |                    |                     | 35"         | 7.9×2.4(mm)       | 5.08~3050                                  |
|  |           |                    |                     | 36"         | 9.6×2.4(mm)       | 6~3600                                     |
|  |           |                    |                     | 15"         | 4.8×2.4(mm)       | 3~1800                                     |
| DF600III<br>CF600III<br>DF600 PlusIII<br>CF600 PlusIII | DZ25-6L   | Aluminum alloy     | PP                  | 24"         | 6.4×2.4(mm)       | 5.5~3300                                   |
|  |           |                    |                     | 35"         | 7.9×2.4(mm)       | 8~4800                                     |
|  |           |                    |                     | 36"         | 9.6×2.4(mm)       | 10~6000                                    |
|  |           |                    |                     | 15"         | 4.8×2.4(mm)       | 3~1800                                     |
| DF600IV<br>CF600IV<br>DF600 PlusIV<br>CF600 PlusIV     | YZ35-PPS  | 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 1~350rpm)<br>Flow Rate mL/min |
|  |           |                    |                     | Tubing      | ID×Wall Thickness |  |
| DF350<br>CF350<br>DF350 Plus<br>CF350 Plus             | DY15      | Aluminum alloy     | 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                                   |
|  | DY25      | Aluminum alloy     | PP                  | 17"         | 6.4×1.6(mm)       | 6.4~2230                                   |
|  |           |                    |                     | 18"         | 7.9×1.6(mm)       | 9.5~3337                                   |
|  |           |                    |                     | 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 ( $\pm\%$ ) | Output (pcs/min) | Motor Speed (rpm) |
| DF600<br>CF600<br>DF600 Plus<br>CF600 Plus             | YZ1515x<br>YZ2515x | 13#     | 0.1                 | 0.5              | $\pm 5\text{ul}$     | 40               | 204.083           |
|  |                    | 13#     | 0.3                 | 0.7              | 1.5                  | 35               | 426.251           |
|  |                    | 13#     | 0.5                 | 1                | 0.8                  | 30               | 516.081           |
|  |                    | 13#     | 1                   | 2                | 0.5                  | 20               | 517.152           |
|  |                    | 14#     | 2                   | 1                | 1                    | 30               | 446.724           |
|  |                    | 14#     | 3                   | 1.5              | 0.8                  | 24               | 446.479           |
|  |                    | 19#     | 5                   | 1.2              | 1                    | 27               | 454.919           |
|  |                    | 16#     | 7                   | 1                | 0.5                  | 30               | 457.705           |
|  |                    | 25#/15# | 10                  | 1                | 1                    | 30               | 303.426           |
|  |                    | 25#/15# | 15                  | 1                | 0.8                  | 30               | 461.273           |
|  |                    | 25#/15# | 20                  | 1.2              | 0.5                  | 27               | 518.945           |
|  |                    | 17#/24# | 30                  | 1.2              | 0.8                  | 27               | 462.725           |
|  |                    | 17#/24# | 50                  | 2                | 0.5                  | 20               | 461.595           |
| DF600II<br>CF600II<br>DF600 PlusII<br>CF600PlusII      | DZ25-3L            | 18#     | 80                  | 2.5              | 0.5                  | 17               | 427.274           |
|  |                    | 18#     | 100                 | 3                | 0.5                  | 15               | 446.583           |
|  |                    | 15#     | 16                  | 1                | 0.5                  | 30               | 454.976           |
|  |                    | 24#     | 30                  | 1.2              | 0.5                  | 27               | 389.610           |
| DF350<br>CF350<br>DF350 Plus<br>CF350 Plus             | DY15               | 35#     | 150                 | 4                | 0.5                  | 12               | 442.913           |
|  |                    | 36#     | 200                 | 4                | 0.5                  | 12               | 500.000           |
|  |                    | 14#     | 0.5                 | 0.5              | 0.3                  | 60               | 94.1915           |
|  |                    | 14#     | 1                   | 1                | 0.4                  | 30               | 94.1915           |
|  |                    | 14#     | 2                   | 1                | 0.6                  | 30               | 188.383           |
|  | DY25               | 19#     | 3                   | 1                | 0.3                  | 30               | 140.625           |
|  |                    | 16#     | 5                   | 1                | 0.5                  | 30               | 145.278           |
|  |                    | 25#     | 10                  | 1                | 0.3                  | 30               | 129.143           |
|  |                    | 25#     | 15                  | 1                | 0.4                  | 30               | 193.715           |
|  |                    | 17#     | 30                  | 1                | 0.4                  | 30               | 282.530           |
| DF600III<br>CF600III<br>DF600 PlusIII<br>CF600 PlusIII | DY25               | 18#     | 100                 | 2.5              | 0.3                  | 17               | 251.730           |
|  |                    | 15#     | 10                  | 1                | 0.3                  | 30               | 141.911           |
|  |                    | 26#     | 30                  | 1                | 0.5                  | 30               | 235.972           |
|  |                    | 35#     | 70                  | 1.2              | 0.4                  | 27               | 340.466           |
|  | DZ25-6L            | 36#     | 100                 | 2                | 0.2                  | 20               | 241.935           |
|  |                    | 15#     | 80                  | 4                | 0.4                  | 12               | 400.000           |
|  |                    | 24#     | 150                 | 4                | 0.4                  | 12               | 409.090           |
|  |                    | 35#     | 200                 | 3.2              | 0.5                  | 14               | 468.750           |
| DF600IV<br>CF600IV<br>DF600 PlusIV<br>CF600 PlusIV     | YZ35-PPS           | 36#     | 300                 | 3.5              | 0.5                  | 13               | 514.285           |
|  |                    | 26#     | 150                 | 3                | 0.5                  | 15               | 428.570           |
|  |                    | 73#     | 300                 | 3                | 0.5                  | 15               | 486.499           |
|  |                    | 82#     | 500                 | 3                | 0.5                  | 15               | 500.000           |



### Filling Volume Reference (Media is water)

|         | Tubing  | Filling Volume | Filling Time | Actual Filling Volume(mL) |          |          |          |          |          |          |          |          |          |         | Filling Accuracy |        |
|---------|---------|----------------|--------------|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|------------------|--------|
| YZ1515x | 13#     | 0.1mL          | 0.5s         | 0.1000                    | 0.1017   | 0.1004   | 0.1000   | 0.1006   | 0.0986   | 0.1015   | 0.0988   | 0.1006   | 0.0991   | -2.500% | 1.700%           |        |
|         |         |                |              | 0.0996                    | 0.0975   | 0.0976   | 0.1006   | 0.0995   | 0.1015   | 0.0988   | 0.0991   | 0.0996   | 0.0993   |         |                  |        |
|         | 13#     | 0.3mL          | 0.7s         | 0.3000                    | 0.2979   | 0.3013   | 0.2985   | 0.3020   | 0.3030   | 0.3023   | 0.2993   | 0.2993   | 0.2974   | -0.867% | 1.033%           |        |
|         |         |                |              | 0.3010                    | 0.3030   | 0.2992   | 0.2979   | 0.3004   | 0.3019   | 0.3012   | 0.2978   | 0.3031   | 0.3022   |         |                  |        |
|         | 13#     | 0.5mL          | 1s           | 0.5008                    | 0.5034   | 0.4998   | 0.5020   | 0.5007   | 0.5038   | 0.5021   | 0.5023   | 0.5010   | 0.4995   | -0.100% | 0.760%           |        |
|         |         |                |              | 0.5003                    | 0.5008   | 0.5003   | 0.5011   | 0.5002   | 0.5037   | 0.5025   | 0.5005   | 0.5010   | 0.5000   |         |                  |        |
|         | 13#     | 1mL            | 2s           | 1.0004                    | 1.0000   | 0.9990   | 1.0011   | 1.0035   | 1.0014   | 1.0014   | 1.0014   | 0.9999   | 1.0015   | -0.370% | 0.490%           |        |
|         |         |                |              | 1.0013                    | 1.0013   | 1.0029   | 1.0049   | 1.0016   | 1.0019   | 1.0048   | 0.9963   | 1.0038   | 1.0040   |         |                  |        |
|         | 14#     | 2mL            | 1s           | 2.0030                    | 2.0030   | 2.0125   | 1.9861   | 2.0116   | 1.9987   | 1.9984   | 2.0143   | 1.9973   | 2.0110   | -0.695% | 0.765%           |        |
|         |         |                |              | 2.0033                    | 2.0153   | 1.9875   | 2.0100   | 2.0092   | 2.0024   | 2.0103   | 1.9915   | 2.0045   | 2.0133   |         |                  |        |
|         | 14#     | 3mL            | 1.5s         | 3.0147                    | 2.9861   | 3.0125   | 2.9897   | 3.0037   | 2.9905   | 3.0063   | 2.9850   | 3.0038   | 2.9917   | -0.500% | 0.493%           |        |
|         |         |                |              | 3.0088                    | 3.0000   | 3.0019   | 3.0138   | 2.9896   | 3.0148   | 2.9921   | 3.0128   | 2.9905   | 3.0059   |         |                  |        |
|         | 19#     | 5mL            | 1.2s         | 4.9933                    | 5.0069   | 4.9914   | 4.9540   | 5.0068   | 4.9957   | 4.9950   | 5.0029   | 4.9963   | 4.9571   | -0.920% | 0.500%           |        |
|         |         |                |              | 4.9838                    | 5.0208   | 5.0031   | 4.9687   | 5.0237   | 4.9841   | 5.0239   | 5.0032   | 4.9584   | 5.0250   |         |                  |        |
|         | YZ2515x | 16#            | 7mL          | 1s                        | 7.0184   | 7.0197   | 7.0178   | 7.0120   | 7.0242   | 7.0132   | 7.0149   | 7.0213   | 7.0093   | 7.0215  | -0.293%          | 0.346% |
|         |         |                |              | 6.9795                    | 6.9834   | 6.9946   | 6.9975   | 6.9868   | 7.0133   | 7.0195   | 7.0121   | 7.0190   | 7.0125   |         |                  |        |
| DZ25-3L | 25#     | 10mL           | 1s           | 9.9400                    | 10.0300  | 10.0700  | 10.0200  | 10.0000  | 9.9800   | 9.9200   | 10.0400  | 10.0600  | 10.0400  | -0.800% | 0.700%           |        |
|         | 15#     |                |              | 10.0400                   | 10.0500  | 10.0200  | 9.9700   | 9.9500   | 10.0200  | 10.0600  | 10.0400  | 10.0500  | 9.9600   |         |                  |        |
|         | 25#     | 15mL           | 1s           | 15.0000                   | 15.0000  | 15.0300  | 14.9900  | 15.0400  | 15.0400  | 15.0300  | 15.0700  | 14.9000  | 15.0100  | -0.667% | 0.467%           |        |
|         | 15#     |                |              | 14.9500                   | 15.0300  | 15.0300  | 15.0600  | 15.0300  | 14.9900  | 15.0300  | 14.9400  | 15.0100  | 15.0000  |         |                  |        |
|         | 25#     | 20mL           | 1.2s         | 19.9600                   | 19.9400  | 20.0600  | 19.9900  | 19.9600  | 19.9200  | 19.9700  | 20.0400  | 20.0000  | 20.0000  | -0.450% | 0.500%           |        |
|         | 15#     |                |              | 19.9300                   | 20.1000  | 20.0000  | 19.9100  | 20.0200  | 20.1000  | 20.0100  | 19.9700  | 19.9900  | 20.0900  |         |                  |        |
|         | 17#     | 30mL           | 1.2s         | 29.9100                   | 29.9900  | 30.1800  | 30.1000  | 29.9700  | 29.9700  | 30.1800  | 29.8100  | 30.1800  | 29.9500  | -0.633% | 0.600%           |        |
|         | 24#     |                |              | 29.9400                   | 29.9200  | 29.9300  | 30.0100  | 30.1800  | 30.0500  | 29.9600  | 29.8800  | 30.0100  | 30.1800  |         |                  |        |
|         | 17#     | 50mL           | 2s           | 50.0600                   | 50.0400  | 49.9900  | 49.8500  | 50.0800  | 50.1100  | 49.9800  | 49.8700  | 49.9200  | 50.1200  | -0.440% | 0.240%           |        |
|         | 24#     |                |              | 49.9200                   | 50.0000  | 49.9900  | 49.7800  | 49.8200  | 49.9100  | 50.0500  | 49.9300  | 49.8400  | 49.8400  |         |                  |        |
|         | 18#     | 80mL           | 2.5s         | 79.9700                   | 80.2200  | 80.2800  | 80.1100  | 80.0000  | 79.9000  | 79.9200  | 80.2900  | 80.1300  | 80.0300  | -0.325% | 0.363%           |        |
|         |         |                |              | 79.7400                   | 79.7800  | 79.8000  | 80.0100  | 80.1700  | 79.8500  | 79.7600  | 79.8500  | 80.0300  | 80.2200  |         |                  |        |
|         | 18#     | 100mL          | 3s           | 99.8300                   | 100.3500 | 99.9700  | 100.3700 | 100.0900 | 100.2600 | 100.0800 | 100.1500 | 100.1600 | 99.8900  | -0.430% | 0.370%           |        |
|         |         |                |              | 100.0400                  | 99.6600  | 100.0800 | 99.5700  | 100.0100 | 99.9900  | 99.7900  | 100.1400 | 99.7200  | 100.1700 |         |                  |        |
| DZ25-3L | 35#     | 150mL          | 4s           | 149.4100                  | 150.4300 | 149.7600 | 150.0400 | 150.4200 | 149.5500 | 150.3200 | 149.7500 | 149.6500 | 150.2900 | -0.480% | 0.287%           |        |
|         | 36#     | 200mL          | 4s           | 149.4200                  | 149.9400 | 150.2700 | 149.3400 | 149.8600 | 150.2500 | 149.2800 | 150.0300 | 149.9200 | 149.4700 |         | -0.400%          | 0.300% |



### Filling Volume Reference (Media is water)

|          | Tubing | Filling Volume | Filling Time | Actual Filling Volume(mL) |        |        |        |        |        |        |        |        |        |        |        | Filling Accuracy |  |
|----------|--------|----------------|--------------|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|--|
| DY15     | 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 | 0.5008 | -0.37% | 0.32%            |  |
|          | 14"    | 1mL            | 1s           | 1.0037                    | 1.0000 | 1.0026 | 1.0003 | 1.0031 | 1.0015 | 1.0000 | 1.0007 | 1.0023 | 1.0035 | 1.0017 | -0.44% | 0.42%            |  |
|          | 14"    | 2mL            | 1s           | 2.0020                    | 2.0060 | 2.0039 | 2.0037 | 2.0047 | 1.9944 | 2.0062 | 2.0040 | 1.9951 | 2.0060 | 1.9965 | -0.58% | 0.60%            |  |
|          | 19"    | 3mL            | 1s           | 3.0058                    | 2.9935 | 3.0092 | 3.0008 | 2.9927 | 3.0072 | 3.0046 | 2.9914 | 3.0040 | 3.0000 | 3.0051 | -0.33% | 0.31%            |  |
|          | 16"    | 5mL            | 1s           | 5.0215                    | 4.9982 | 5.0145 | 5.0038 | 4.9864 | 5.0183 | 4.9962 | 5.0227 | 5.0158 | 4.9806 | 5.0231 | -0.39% | 0.50%            |  |
|          | 25"    | 10mL           | 1s           | 10.02                     | 10.04  | 10.00  | 9.98   | 10.02  | 10.03  | 10.04  | 10.04  | 10.01  | 9.99   | 10.03  | -0.20% | 0.40%            |  |
|          | 25"    | 15mL           | 1s           | 15.02                     | 14.97  | 14.97  | 14.94  | 15.00  | 15.00  | 14.94  | 14.95  | 14.96  | 14.99  | 14.96  | -0.47% | 0.13%            |  |
|          | 17"    | 30mL           | 1s           | 29.92                     | 30.01  | 29.99  | 29.91  | 29.83  | 29.86  | 29.91  | 29.91  | 29.91  | 29.89  | 29.83  | -0.57% | 0.20%            |  |
|          | 18"    | 100mL          | 2.5s         | 99.80                     | 99.90  | 99.80  | 99.90  | 100.00 | 100.10 | 100.10 | 100.00 | 100.10 | 100.00 | 100.10 | -0.20% | 0.30%            |  |
| DY25     | 15"    | 10mL           | 1s           | 9.97                      | 10.01  | 9.96   | 9.98   | 10.01  | 9.96   | 9.97   | 9.99   | 9.96   | 9.96   | 9.96   | -0.60% | 0.10%            |  |
|          | 24"    | 30mL           | 1s           | 29.90                     | 29.80  | 30.10  | 29.90  | 29.90  | 30.00  | 29.90  | 29.90  | 30.00  | 29.90  | 30.00  | -0.67% | 0.33%            |  |
|          | 35"    | 70mL           | 1.2s         | 69.80                     | 69.90  | 69.90  | 69.90  | 69.70  | 70.10  | 70.00  | 69.70  | 69.90  | 69.90  | 69.90  | -0.43% | 0.43%            |  |
|          | 36"    | 100mL          | 2s           | 99.80                     | 99.90  | 99.80  | 99.80  | 100.00 | 99.90  | 99.90  | 99.90  | 99.90  | 99.90  | 99.90  | -0.20% | 0.10%            |  |
|          | 15"    | 80mL           | 4s           | 80.2                      | 80.0   | 80.3   | 80.2   | 80.1   | 80.1   | 80.2   | 80.1   | 80.2   | 80.1   | 80.0   | -0.13% | 0.38%            |  |
| DZ25-6L  | 24"    | 150mL          | 4s           | 149.9                     | 150.2  | 150.0  | 150.1  | 150.0  | 150.3  | 150.0  | 150.1  | 150.3  | 150.0  | 150.2  | -0.07% | 0.20%            |  |
|          | 35"    | 200mL          | 3.5s         | 199.7                     | 199.9  | 200.2  | 200.2  | 200.2  | 199.6  | 199.8  | 199.8  | 200.1  | 199.9  | 199.9  | -0.40% | 0.10%            |  |
|          | 36"    | 300mL          | 3.5s         | 300.4                     | 300.1  | 300.3  | 300.3  | 300.4  | 300.1  | 300.3  | 300.4  | 300.6  | 300.2  | 300.6  | -0.17% | 0.20%            |  |
|          | 26"    | 150mL          | 3s           | 149.3                     | 150.3  | 149.6  | 150.2  | 150.5  | 150.1  | 150.5  | 150.1  | 150.5  | 150.0  | 150.0  | -0.47% | 0.33%            |  |
| YZ35-PPS | 73"    | 300mL          | 3s           | 299.9                     | 299.8  | 300.0  | 300.1  | 300.4  | 300.2  | 300.4  | 300.4  | 300.6  | 300.5  | 300.6  | -0.07% | 0.27%            |  |
|          | 82"    | 500mL          | 3s           | 500.0                     | 497.8  | 499.7  | 498.3  | 498.4  | 499.5  | 498.2  | 499.7  | 499.2  | 498.4  | 499.6  | -0.44% | 0.38%            |  |
|          |        |                |              | 499.5                     | 498.3  | 501.5  | 501.9  | 500.0  | 501.8  | 501.1  | 500.5  | 501.6  | 499.6  |        |        |                  |  |



Pharmaceutical Filling Machine

Cosmetic Filling Line

## Standard Peristaltic Pump

### Suitable Pump Head

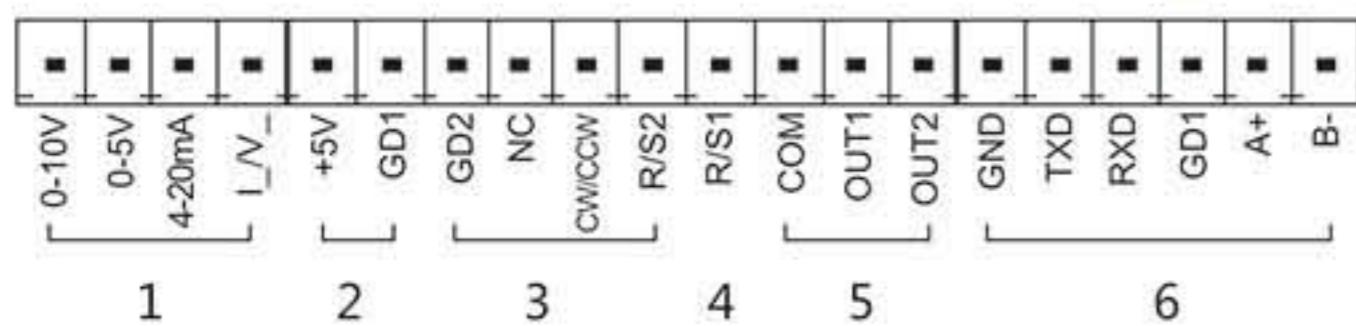
LabN1, LabN3, LabN6



#### Model Number

| LabN1, LabN3, LabN6

#### LabN Series External Control Schematic Diagram



#### Features

- | 3.2" blue LCD screen display, mechanical keypad control.
- | Super silent drive , low vibration, low noise.
- | Timing function, time range 0.1s-9999hours, can be used for simple dispensing function.

#### Typical Application

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

## Standard Peristaltic Pump

BT100N, BT300N, BT600N



#### Model Number

| BT100N, BT300N, BT600N



#### 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 Shencheng communication protocol or standard Modbus communication protocol(RTU mode).

### LabN Series/BT-N Series Technical Specifications

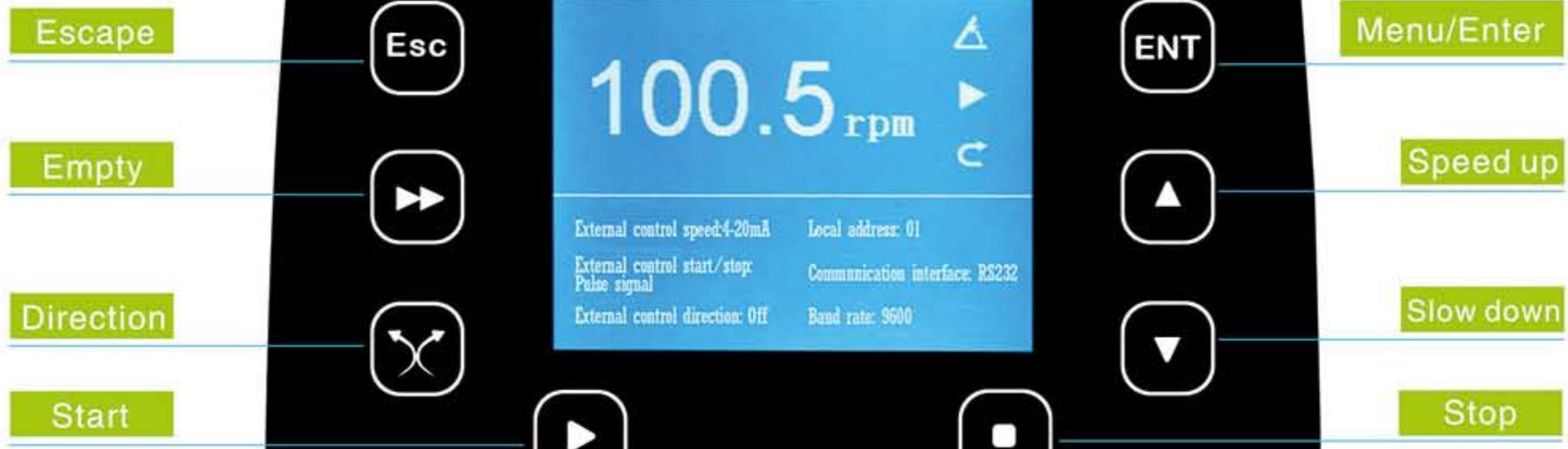
|                    |   |   |   |
|--------------------|---|---|---|
| Flow rate range    | LabN1: 0.000166~570 mL/min<br>LabN3: 0.000166~1330 mL/min<br>LabN6: 0.000166~2280 mL/min<br>BT100N: 0.000829~570 mL/min<br>BT300N: 0.000829~1330 mL/min<br>BT600N: 0.000829~2280 mL/min | Keypad lifetime<br>External speed control signal<br>Start/stop, reversing signal<br>Communication interface<br>Output interface | 300,000 times<br>0-5V, 0-10V, 4-20mA for option<br>Passive switch signal, such as foot pedal<br>Active switch signal: 5V,12V,24V for option<br>RS232, RS485 support Modbus protocol(RTU mode)<br>LabN Series: Output motor working status (Open-Collector output) |
| Speed resolution   | LabN Series :0.1rpm;<br>BT-N Series: 0-100rpm, 0.1rpm; 100-600rpm, 1rpm   | Power supply  | AC 220V±10% 50Hz/60Hz (standard)<br>AC 110V±10% 50Hz/60Hz (optional)  |
| Back suction angle | LabN Series: 0-360°   | Drive dimension   | LabN Series: 261.4×157.3×236.9mm<br>BT-N Series: 183×131×194mm  |
| Testing time range | LabN Series: 0.1 s-9999 h<br>BT-N Series: 0.5 s-999 s   | Drive weight  | LabN Series: 4.40 kg BT-N Series: 4.20 kg   |
| Outlet pressure    | 0.86~1.0 mm wall thickness tubing: 0.1Mpa;<br>1.6~2.4mm wall thickness tubing:0.1~0.27Mpa   | Power consumption   | <50W  |
| Display            | LabN Series: 3.2" high definition LCD screen<br>BT-N Series: LED Display  | Condition temperature   | 0-40°C  |
| Control method     | Mechanical keypad   | Relative humidity   | < 80%   |
|                    |   | IP rate   | IP31  |

### LabN Series/BT-N Series Product Composition and Flow Rate Range

| Standard Peristaltic Pump |            | Pump Head & Flow Rate (mL/min)      |           |   |  |
|---------------------------|------------|-------------------------------------|-----------|---|--|
|                           |            | YZ1515x                             | YZ2515x   | MC1~MC12(10)  | MC1~MC12(6)                                  |
| Drive & speed             | Tubing     | 13", 14", 19", 16"<br>25", 17", 18" | 15", 24"  | Inner diameter: 0.13-3.17mm<br>Wall thickness: 0.86-1mm |  |
| LabN1                     | 0.1-150rpm | 0.007~570                           | 0.17~435  | 0.000166-49(suggestion working speed≤150rpm)            | 0.000185-65(suggestion working speed≤150rpm) |
| LabN3                     | 0.1-350rpm | 0.007~1330                          | 0.17~1015 |   |  |
| LabN6                     | 0.1-600rpm | 0.007~2280                          | 0.17~1740 |   |  |
| BT100N                    | 0.5-150rpm | 0.035~570                           | 0.85~435  | 0.000829-49(suggestion working speed≤150rpm)            | 0.000925-65(suggestion working speed≤150rpm) |
| BT300N                    | 0.5-350rpm | 0.035~1330                          | 0.85~1015 |   |  |
| BT600N                    | 0.5-600rpm | 0.035~2280                          | 0.85~1740 |   |  |

 SHENCHEN

**LabN1**



### LabN Series Membrane Functions

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## Standard Peristaltic Pump

N6-12L

**304**  
SS Housing



N6-6L

N6-3L

### Features

- | Servo 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

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

### Technical Specifications

|                               |  |                         |  |
|-------------------------------|--|-------------------------|--|
| Flow rate range               | N6-3L: 0.211~3600 mL/min<br>N6-6L: 0.3~6000 mL/min<br>N6-12L: 0.00069~12 L/min | Communication interface | RS232(standard),Shenchen-N232 Communication protocol; RS485(optional), Modbus protocol(RTU mode) |
| Speed range                   | 0.1-600 rpm  | Power supply            | AC 220V±10% 50Hz/60Hz (standard)<br>AC 110V±10% 50Hz/60Hz (optional)                             |
| Speed resolution              | 0-100rpm, 0.1rpm; 100-600rpm, 1rpm.  | Drive dimension (L×W×H) | N6-3L: 223×152×168mm<br>N6-6L: 283×192×218mm<br>N6-12L: 302×222×275mm                            |
| Flow rate accuracy            | <±0.5%   | Drive weight            | N6-3L: 5.02kg; N6-6L: 7.85kg<br>N6-12L: 13.14kg  |
| Outlet pressure               | 0.3Mpa   | Power consumption       | N6-3L: <80W; N6-6L: <180W<br>N6-12L: <300W   |
| Motor type                    | Servo motor  | Condition temperature   | 0-40°C   |
| Display                       | 3 digital LED  | Relative humidity       | <80%   |
| Control method                | Mechanical keypad  | IP rate                 | IP31   |
| Keypad lifetime               | 300,000 times  |                         |  |
| Speed control                 | Rotary encoded switch  |                         |  |
| Start/stop, direction signal  | Passive switch signal, such as foot pedal<br>Active switch signal: 24V default |                         |  |
| External speed control signal | 0-5V(standard), 0-10V, 4-20mA(optional)  |                         |  |

### Product Composition and Flow Rate Range

| Drive  | Motor Type  | Pump Head | Tubing Size        | Speed Range   | Flow Rate(mL/min) |
|--------|-------------|-----------|--------------------|---------------|-------------------|
| N6-3L  | Servo Motor | DZ25-3L   | 15", 24", 35", 36" | 0.1-600 (rpm) | 0.211~3600        |
| N6-6L  |             | DZ25-6L   | 15", 24", 35", 36" |               | 0.3~6000          |
| N6-12L |             | YZ35      | 26", 73", 82"      |               | 0.69~12000        |

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BAODING PERISTALTIC PUMP ENGINEERING TECHNOLOGY RESEARCH CENTER

# New Arrivals

## LabM series

**ABS engineering  
plastic housing**



**LabM**

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## Basic Peristaltic Pump

LabM1, LabM3, LabM6



LabM1, LabM3, LabM6

### Typical Application

University laboratory.

Supporting ion chromatography and titrator.



### Features

3 digital LED display motor speed, mechanical keypad control.

Timing function, can be used for simple dispense  
Has both RS232 and RS485 communication mode.

### Suitable Pump Head

## Basic Peristaltic Pump

BT100M, BT300M, BT600M



### Features

3 digital LED display motor speed.  
Toggle switch control start/stop and direction.

Rotary encoded switch control speed, easy operation.  
Economical and durable, suitable for different industrial application.

BT100M, BT300M, BT600M

### Typical Application

Add cement grinding aids  
Support industrial production line



### Technical Specifications

|                               |  |                              |  |
|-------------------------------|--|------------------------------|--|
| Flow rate range               | LabM1: 0.000829~570 mL/min   | Start/stop, direction signal | LabM Series: Passive switch signal, such as foot pedal switch; Active switch signal: 24V default |
|                               | LabM3: 0.000829~1330 mL/min  |                              | BT-M Series: TTL level signal  |
|                               | LabM6: 0.000829~2280 mL/min  |                              |  |
|                               | BT100M: 0.00166~570 mL/min   | Communication interface      | RS485(optional),Modbus protocol(RTU mode)  |
|                               | BT300M: 0.00166~1330 mL/min  |                              | LabM Series: RS232(standard), Shenzhen communication protocol;                                   |
|                               | BT600M: 0.00166~2280 mL/min  |                              |  |
| Speed resolution              | 0.1rpm when the speed is 0-100rpm,<br>1rpm when the speed is 100-600rpm.                   | Power supply                 | AC 220V±10%, 50Hz/60Hz (standard)  |
| Testing time range            | LabM Series: 0.5s-999s   |                              | AC 110V±10%, 50Hz/60Hz (optional)  |
| Outlet pressure               | 0.1Mpa (0.86-1.0mm wall thickness tubing)<br>0.1-0.27Mpa (1.6-2.4mm wall thickness tubing) | Drive dimension (L×W×H)      | LabM Series: 261.4×157.3×236.9mm<br>BT100M: 234×144×140mm<br>BT300M, BT600M: 254×185×149mm       |
| Back suction angle            | BT-M Series: 0-360°(optional)  | Drive weight                 | LabM Series: 4.40 kg   |
| Display                       | 3 digital LED  |                              | BT100M: 3.6kg BT300M,BT600M: 4.64kg  |
| Control method                | LabM Series: Mechanical keypad<br>BT-M Series: Toggle switch+Rotary encoded switch         | Power consumption            | <50W   |
| External speed control signal | LabM Series: 0-5V,0-10V,4-20mA for option  | Condition temperature        | 0-40°C   |
| Keypad lifetime               | 300,000 times  | Relative humidity            | <80%   |
|                               |  | IP rate                      | IP31   |

### Product Composition and Flow Rate Range

| Basic Peristaltic Pump |            | Pump Head & Flow Rate (mL/min)      |           |   |  |
|------------------------|------------|-------------------------------------|-----------|---|--|
|                        |            | YZ1515x                             | YZ2515x   | MC1~MC12(10)  | MC1~MC12(6)                                  |
| Drive & speed          | Tubing     | 13°, 14°, 19°, 16°<br>25°, 17°, 18° | 15°, 24°  | Inner diameter: 0.13-3.17mm<br>Wall thickness: 0.86-1mm |  |
| LabM1                  | 0.5-150rpm | 0.035~570                           | 0.85~435  | 0.000829-49(suggestion working speed≤150rpm)            | 0.000925-65(suggestion working speed≤150rpm) |
| LabM3                  | 0.5-350rpm | 0.035~1330                          | 0.85~1015 |   |  |
| LabM6                  | 0.5-600rpm | 0.035~2280                          | 0.85~1740 |   |  |
| BT100M                 | 1-150rpm   | 0.07~570                            | 1.7~435   | 0.00166-49(suggestion working speed≤150rpm)             | 0.00185-65(suggestion working speed≤150rpm)  |
| BT300M                 | 1-350rpm   | 0.07~1330                           | 1.7~1015  |   |  |
| BT600M                 | 1-600rpm   | 0.07~2280                           | 1.7~1740  |   |  |



## Explosion Proof Peristaltic Pump

**EXP600/YZ35**



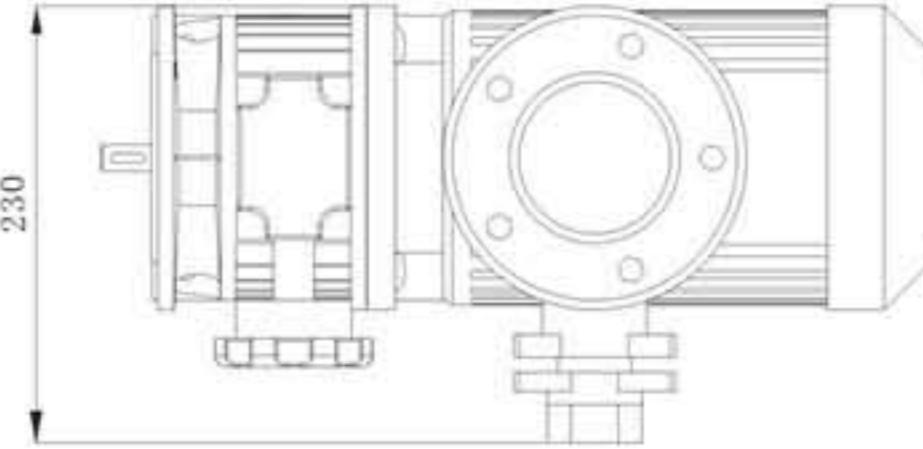
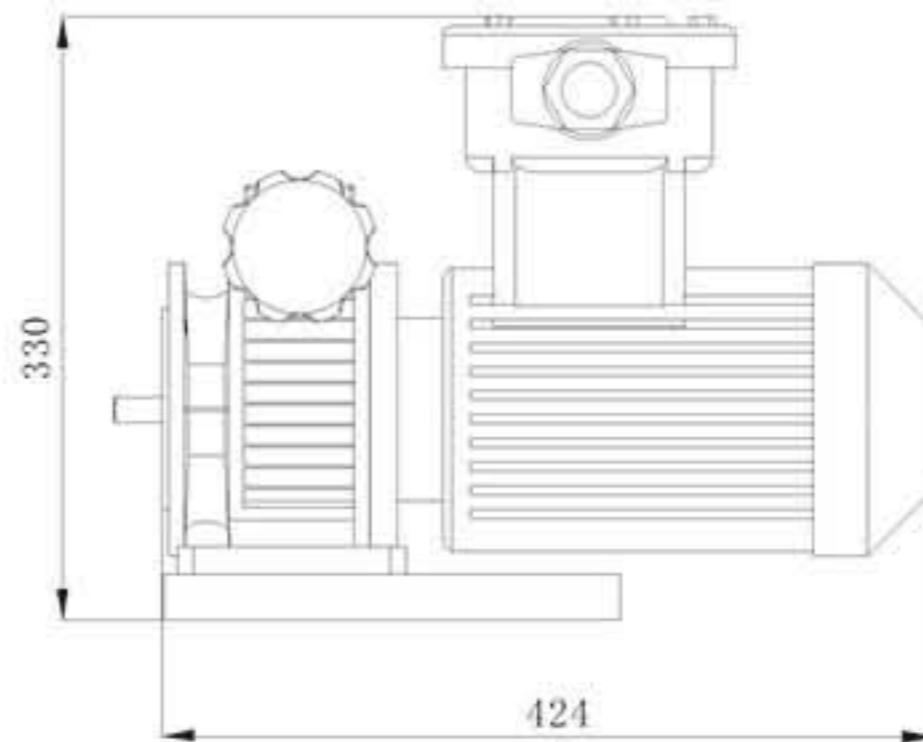
### Features

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

IP rate: IP55

Suitable for inflammable and explosive industrial sites.

**Installation Sizes Drawing (Unit: mm)**



## Explosion Proof Peristaltic Pump

**EXP600/YZ1515x**



### Technical Specifications

|                       |                                  |                   |                              |
|-----------------------|----------------------------------|-------------------|------------------------------|
| Speed range           | 180-600 rpm                      | Drive dimension   | 424×230×330 ( mm ) ( L×W×H ) |
| Speed control         | Manual stepless speed regulation | Drive weight      | 30 kg                        |
| Voltage               | AC 3 phase 380V                  | Relative humidity | <80%                         |
| Condition temperature | 0~40°C                           | IP rate           | IP55                         |

### Product Composition and Flow Rate Range

| Drive  | Speed      | Pump Head | Tubing Size                       | Flow Rate (mL/min) |
|--------|------------|-----------|-----------------------------------|--------------------|
| EXP600 | 180-600rpm | YZ1515x   | 13", 14", 19", 16", 25", 17", 18" | 12.6~2280          |
|        |            | YZ2515x   | 15", 24"                          | 306~1740           |
|        |            | YZ35      | 26", 73", 82"                     | 1242~12000         |
|        |            | DZ25-3L   | 15", 24", 35", 36"                | 379.8~3600         |
|        |            | DZ25-6L   | 15", 24", 35", 36"                | 540~6000           |
|        |            | SN15      | 14", 16"                          | 43.2~528           |
|        |            | SN25      | 24"                               | 450~1500           |

## Explosion Proof Peristaltic Pump

Suitable Pump Head

QD600



### Features

Pneumatic motor driver, gas driving, explosion-proof and safe.

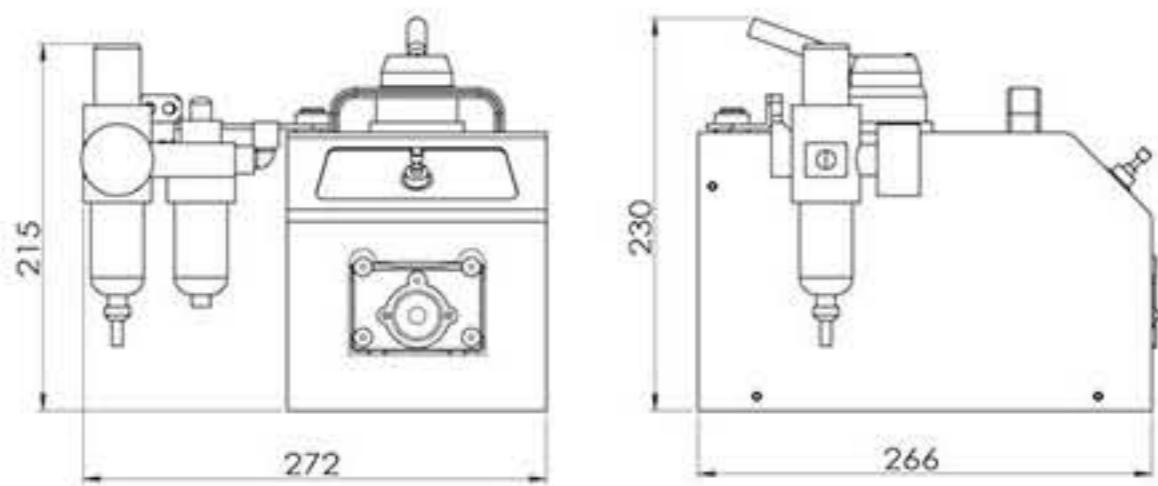
Stepless speed regulation, manual control flow valve. Start/stop, direction, overload protection functions.

Barometer, convenient for users to check the pressure value.

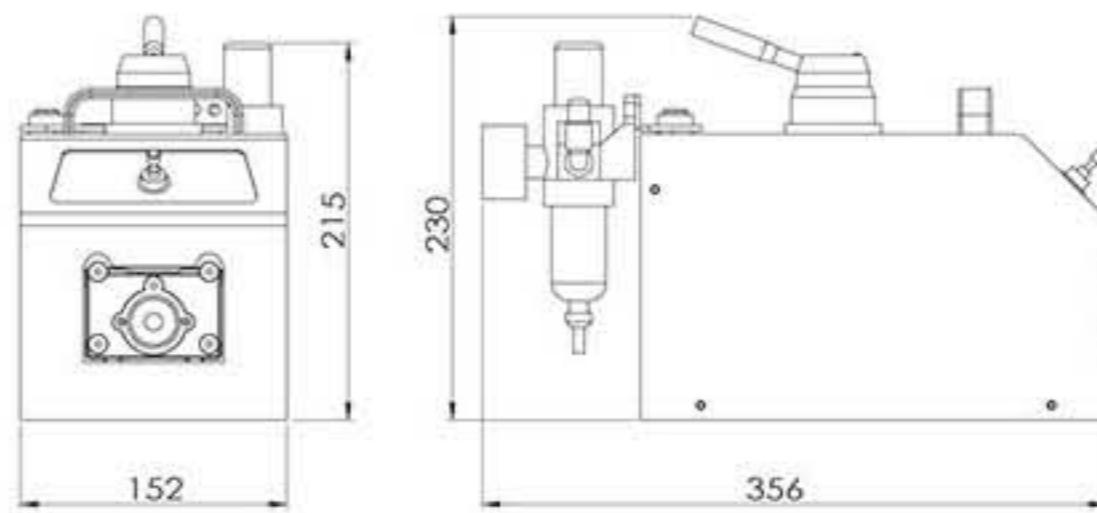
Suitable for inflammable, explosive industrial sites.

## Installation Sizes Drawing

Working status dimension drawing (Unit: mm)



Non-working status dimension drawing (Unit: mm)



## Technical Specifications

|                      |   |                             |  |
|----------------------|---|-----------------------------|--|
| Speed range          | 60~600 rpm  | Drive dimension (L x W x H) | Working:266x 272 x 230mm<br>Non-working:356x 152 x 230mm |
| Display              | Display air pressure                                    | Drive weight                | 4.10 kg  |
| Speed control        | stepless speed regulation (By adjusting the flow valve) | Power consumption           | <80W   |
| Control function     | Start/stop,reversing(gas reversing valve control)       | Condition temperature       | 0-40°C   |
| Working air pressure | 0.1-0.4Mpa  | Relative humidity           | <80%   |
| Gas consumption      | 4L/Sec  | IP rate                     | IP31   |

## Product Composition and Flow Rate Range

| Peristaltic Pump |           | Pump Head & Flow Rate (mL/min)      |          |   |   |
|------------------|-----------|-------------------------------------|----------|---|---|
| Drive & Speed    | Tubing    | YZ1515x                             | YZ2515x  | MC1~MC12(10)  | MC1~MC12(6)                             |
|                  |           | 13°, 14°, 19°, 16°<br>25°, 17°, 18° | 15°, 24° | Inner diameter: 0.13-3.17mm<br>Wall thickness: 0.86-1mm |   |
| QD600            | 60-600rpm | 5-2280                              | 100~1740 | 2.8-49(suggestion working speed≤150rpm)                 | 3.2-65(suggestion working speed≤150rpm) |

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## Hand Sampling Pump

**SC600**



### Product Maintenance

When the pump is not working, please release the pump head upper block, to avoid the tubing deformation because of long-time extrusion.

Please keep the pump head roller clean and dry, or it will faster the tubing wear, shorten the tubing lifetime, and damage the rollers.

Pump head can not resist strong corrosive liquid, please pay attention to this.

### Sampling Nozzle



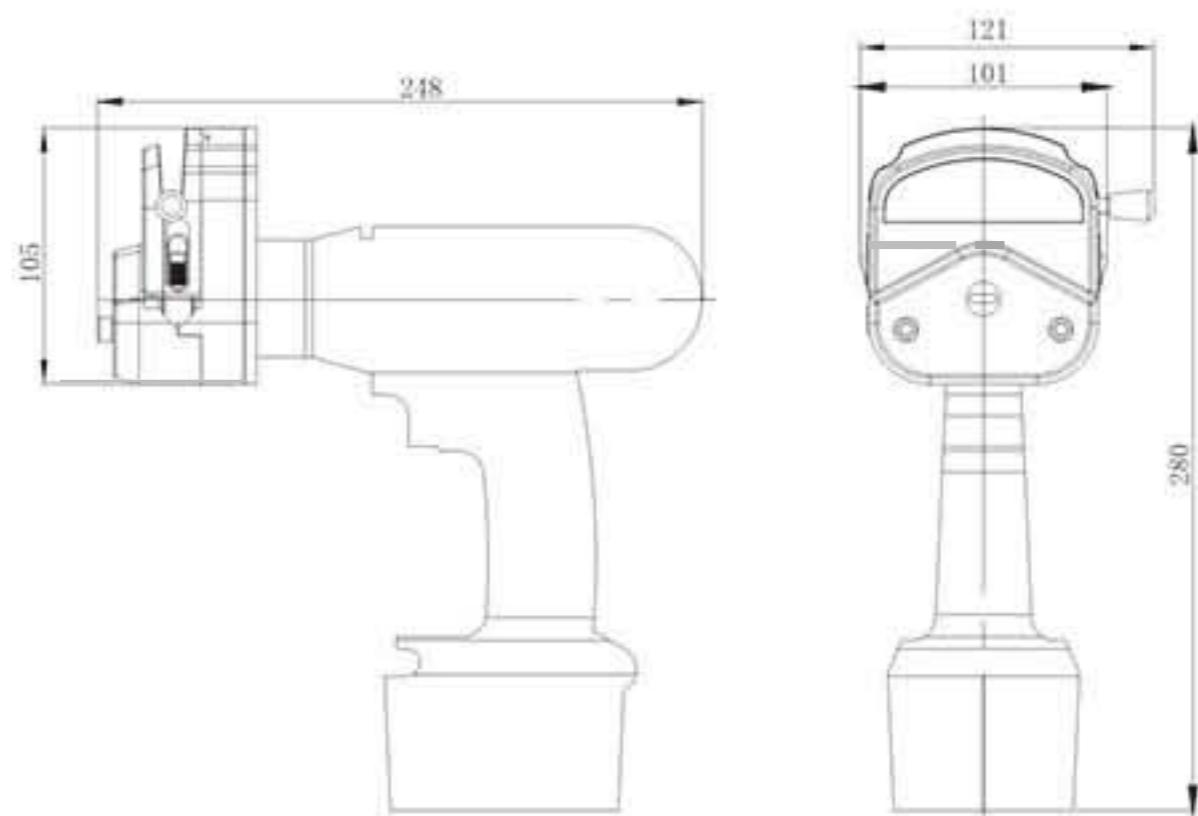
### Product Introduction

Hand sampling pump usually used for emergency monitoring and temporary water sampling, can be used as stratified water sampler, portable water sampler and deep water sampler.

### Product Features

- | Rechargeable power supply, portable and suitable for non-electrical place.
- | Use easy load pump head, simple application and easy to clean. Imported portable drive, speed is adjustable.
- | Speed 1 is 0-350rpm, speed 2 is 0-1200rpm, stepless speed regulation, direction is reversible.
- | Can collect high proportion and high viscosity liquid, can collect liquid which include solid, also can stratified sampling. Suction lift can reach 8 meters.
- | Standard: Drive, charger, battery, pump head and sampling nozzle.

### Dimension Drawing (Unit: mm)



### Technical Specifications

|                   |                                      |              |   |
|-------------------|--------------------------------------|--------------|---|
| Speed range       | Speed 1: 0-350rpm Speed 2: 0-1200rpm | Power supply | Charging power supply Ac220V 50/60Hz<br>(AC110V 50/60Hz Option) |
| Dimension         | 243mm × 120mm × 280mm (L × W × H)    | Suction lift | 8m  |
| Drive weight      | 2.1kg                                | IP rate      | IP31  |
| Working condition | Outdoor, indoor                      |              |   |

### Product Composition and Flow Rate Range

| Drive | Pump Head | Tubing Size                 | Flow Rates(mL/min) |
|-------|-----------|-----------------------------|--------------------|
| SC-1  | YZ2515x   | 15#                         | 0-1020             |
|       | YZ2515x   | 24#                         | 0-1740             |
|       | YZ1515x   | 13# 14# 19# 16# 25# 17# 18# | 0-2280             |

## Multichannel Pump Head

### DG Series

### Product Introduction

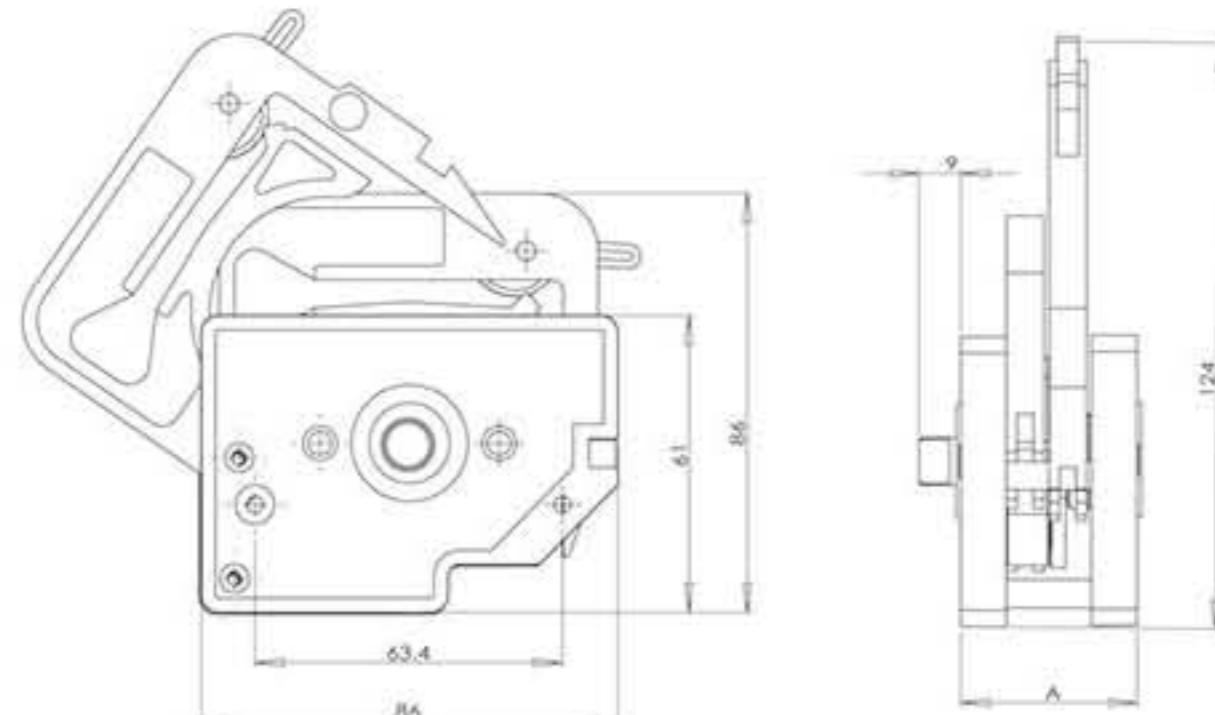
The first generation multichannel pump head is used for multichannel transfer micro liquid. Occlusion can be adjusted. Widely used in supporting analytical instruments.



### Model Number

| DG-1, DG-2, DG-4, DG-6, DG-8, DG-12

### Installation Sizes Drawing (Unit: mm)



### Typical Application

| Widely used in supporting analytical instruments and laboratories.



DG-4, DG-6, DG-8, DG-12 use unique spanner to open the cartridge

### Technical Specifications

| Pump Head               | DG-1   | DG-2   | DG-4         | DG-6         | DG-8         | DG-12        |
|-------------------------|--|--|--------------|--------------|--------------|--------------|
| Channel number          | 1  | 2  | 4            | 6            | 8            | 12           |
| Tubing                  | Inside Diameter: 0.13-2.5mm, Wall Thickness: 0.5-1mm |  |              |              |              |              |
| Flow rates<br>(≤100rpm) | 6 rollers<br>10 rollers                              | 0.00008-27 mL/min(per channel)<br>0.000067-21.6 mL/min (per channel) |              |              |              |              |
| Cartridge material      | POM  |  |              |              |              |              |
| Rollers material        | 304 stainless steel                                  |  |              |              |              |              |
| Weight (kg)             | 6 rollers<br>10 rollers                              | 0.21<br>0.20   | 0.27<br>0.26 | 0.40<br>0.39 | 0.54<br>0.51 | 0.67<br>0.63 |
|                         |  |  |              |              |              | 0.95<br>0.88 |

## Multichannel Pump Head-MC Series

POM Material & PVDF Material



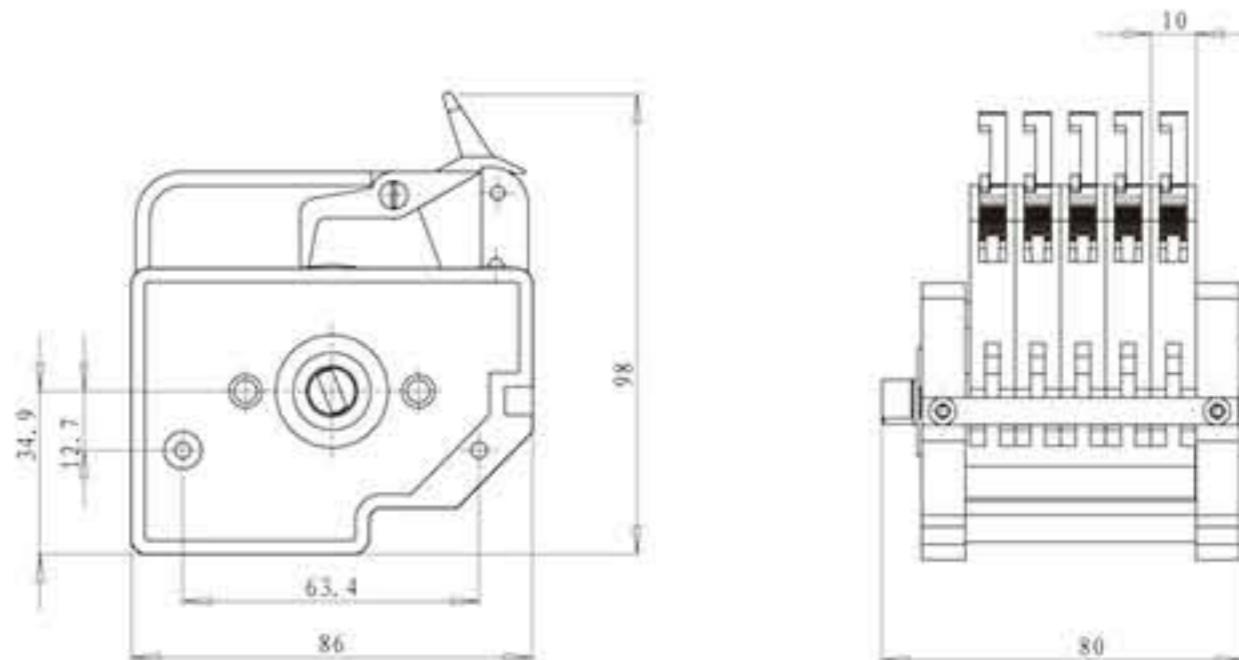
### Typical Application

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

### Product Introduction

MC series new generation multichannel pump head with unique cam structure, make it much easier to operate. It is designed for small flow rates and multichannel transfer. Comparing with traditional DG pump head, it has particular cam design for micro adjustment occlusion, and also for opening the cartridge from the top. 304 stainless steel rollers assembly include two structures of 6 rollers and 10 rollers. Install silicone tubing and TYGON series imported tubing. It is widely used in supporting analytical instruments.

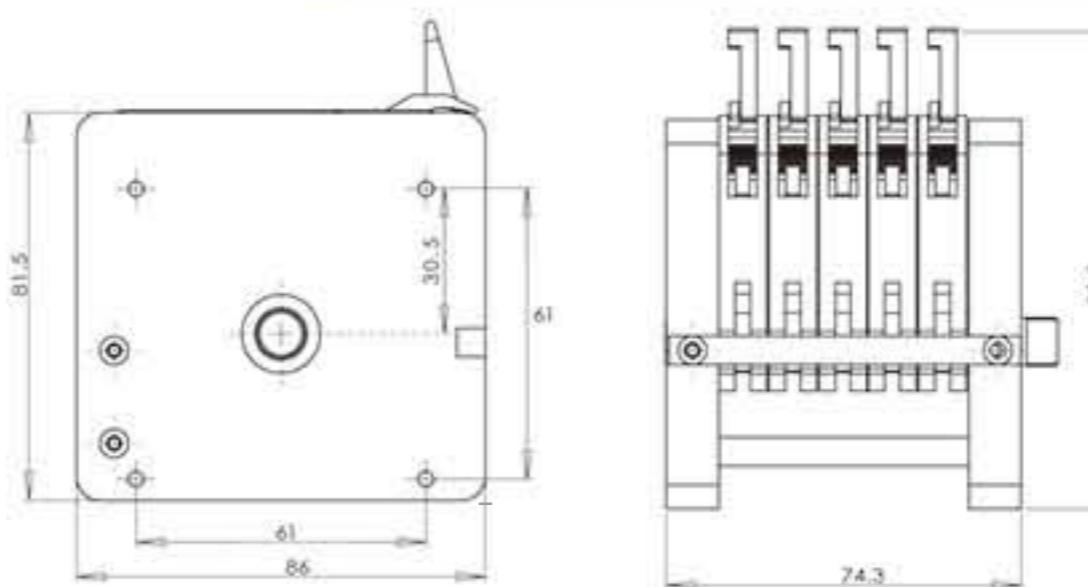
### Installation Sizes Drawing (Unit: mm)



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



### Installation Sizes Drawing (Unit: mm)



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

### MC Pump Head VS DG Pump Head



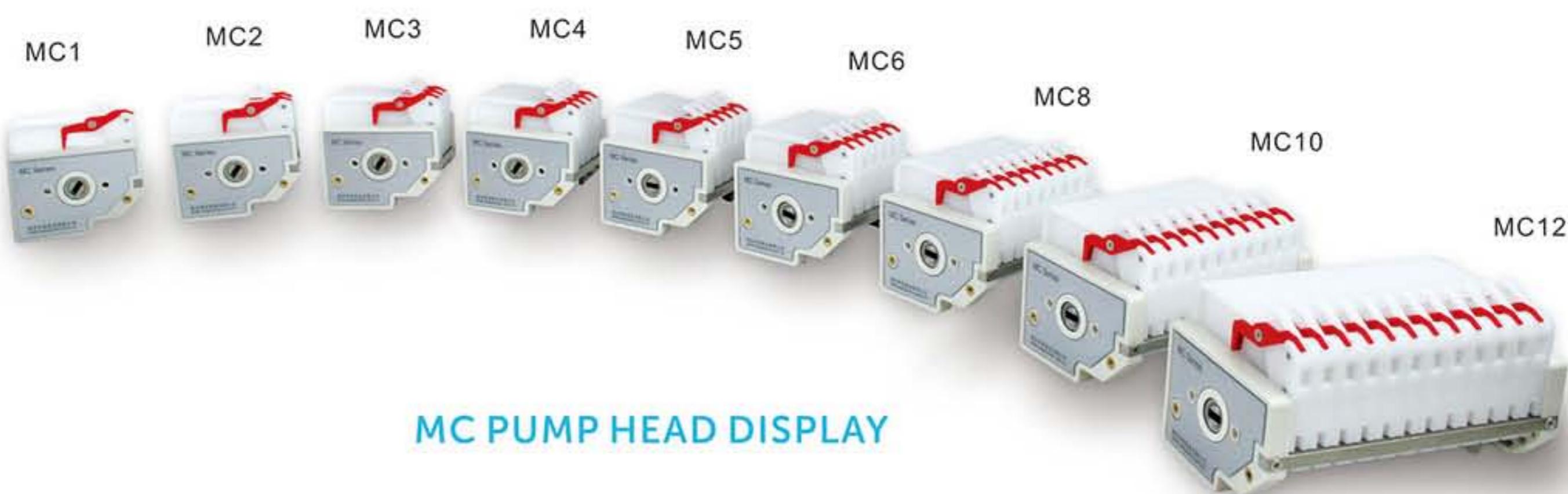
1. The traditional DG series pump head need to open the cartridge from the bottom. It is very inconvenient to use when the space of the equipment is compact. The MC series pump head just need to open the cartridge from the top, easy to operate.

2. The gear on the MC pump head is smaller than DG, this improved the adjusting resolution.



DG Series

## Multichannel Pump Head-MC Series



### Tubing Installation Procedure

A. Turn the spanner clockwise to take it off from the lever.



B. After that, the cartridge can be taken out lightly.



C. Install the tubing and confirm the working position between two adjacent clamps.



D. Embed the cartridge and press it lightly to reach the working position.



E. Turn the spanner counter-clockwise to make it reach the lever.



F. Multichannel pump heads and tubing drawing.



### MC Technical Specifications

| Channel number     | 1                                | 2   | 3  | 4                             | 5   | 6 | 8 | 10 | 12 |
|--------------------|----------------------------------|---|--|-------------------------------|-----|---|---|----|----|
| Cartridge material | POM/PVDF                         |   |  |                               |     |   |   |    |    |
| Rollers material   | 304/316 stainless steel material |   |  |                               |     |   |   |    |    |
| Rollers number     | 6 rollers, 10 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) |     |   |   |    |    |
| 1×1                | 0.1~150rpm                       | 0.0046~7.03                                     | 0.0053~8.13                                    | Continuous                    | 0.1 |   |   |    |    |
| 2×1                |                                  | 0.016~23.07                                     | 0.02~33.08                                     |                               |     |   |   |    |    |
| 2.4×0.8            |                                  | 0.021~31.26                                     | 0.027~44.62                                    | Intermittent                  | 0.1 |   |   |    |    |
| 3×1                |                                  | 0.032~49.07                                     | 0.043~65.00                                    |                               |     |   |   |    |    |



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## Easy Load Pump Head

YZ1515x, YZ2515x



**Model Number** | YZ1515x, YZ2515x

### Typical Application

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



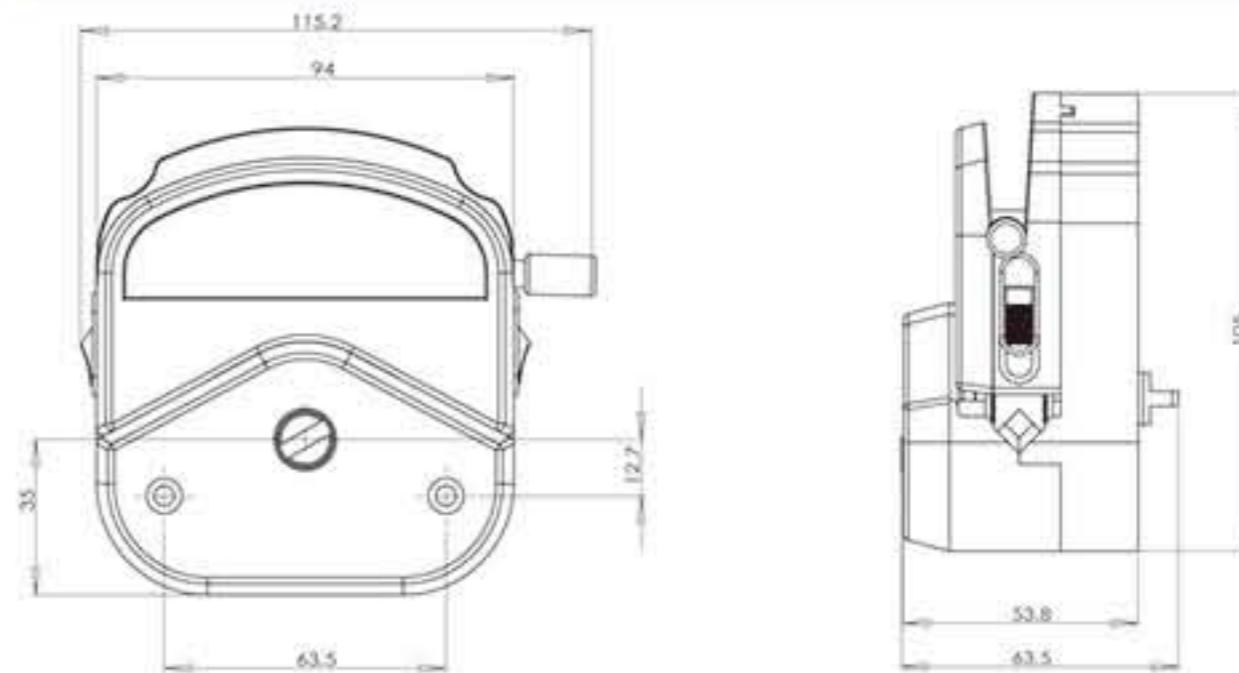
3 rollers

6 rollers

### Product Introduction

Change the tubing easily and rapidly; automatic tubing retention; accept 9 sizes tubing to meet different flow rates requests. Two kinds of material housing for customers' selection. PSF (polysulphone material): white, exquisite appearance, good rigidity, high precision, usually used in research laboratory and supporting analytical device. PPS (polyphenylene sulfide material): black, resist organic solvent corrosion, high precision and rigidity, suitable for industry or other bad working conditions. Rollers assembly with 304 stainless steel material resists corrosion with long lifetime.

### Installation Sizes Drawing (Unit: mm)



Mounting several pump heads can increase the flow rates.



YZ Series pump head has wide application, and is usually used together with many kinds of analytical instruments. According to the different technical requests, it can adopt different motors to drive, such as stepper motor, DC motor, synchronous motor, AC gear motor, etc. Stack up several pump heads can increase the flow rates.

| Pump Head | Tubing | ID×Wall thickness(mm) | mL / r | Flow Rate(mL/min)<br>(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<br>(3 rollers) | 0.46<br>(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<br>(6 rollers) | 0.50<br>(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       |                     |                     |
|           | 24"    | 6.4×2.4               | 2.9    | 0.29~1740                         |                           |            |                     |                     |

## Easy Load Pump Head

YZ35-PPS, YZ35(Aluminum Alloy)



3 rollers

### 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.

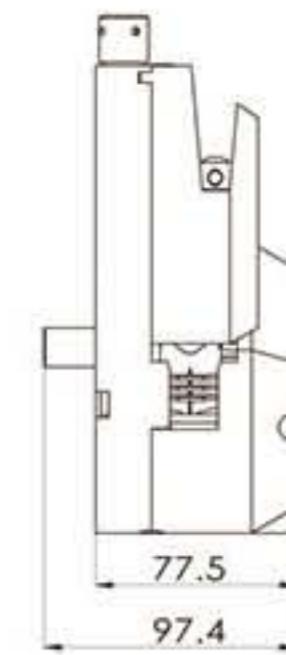
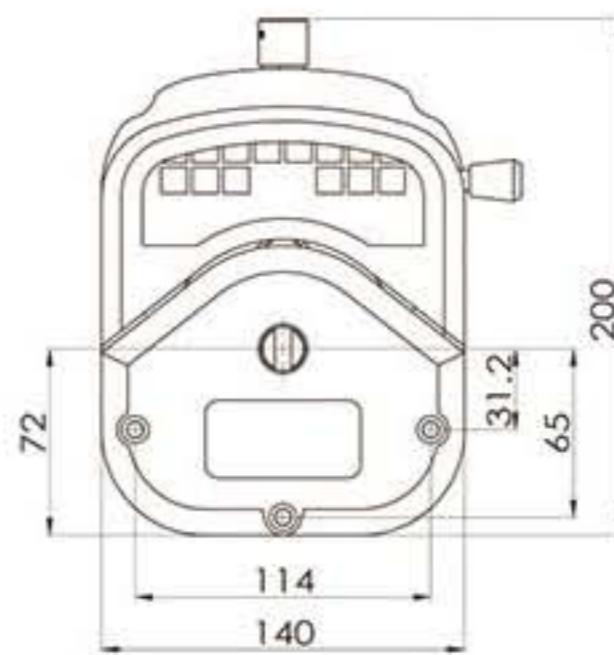
### Model Number

| YZ35-PPS, YZ35(Aluminum Alloy)

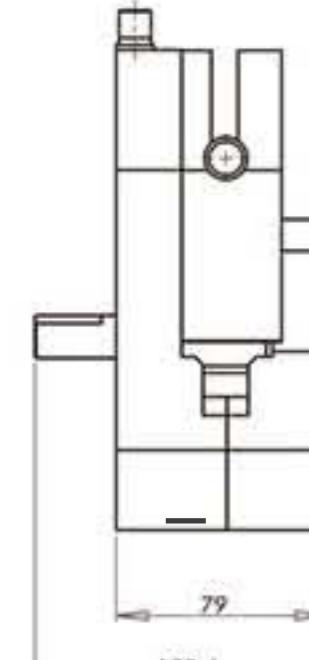
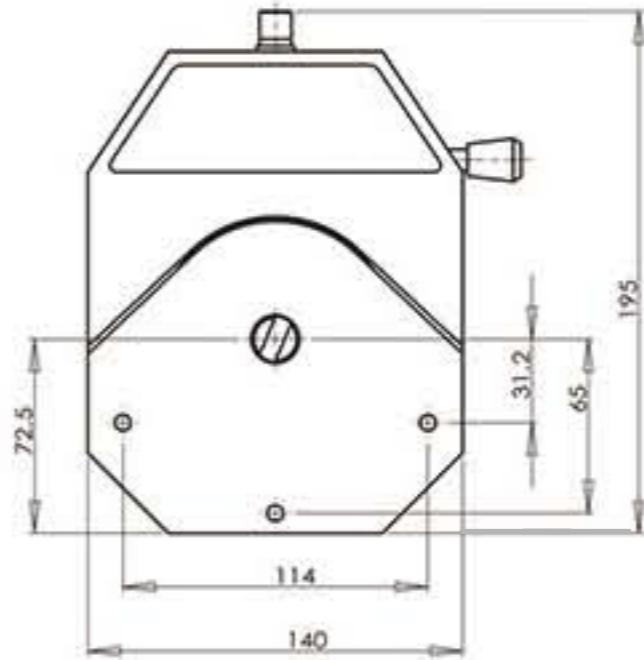


### Installation Sizes Drawing (Unit: mm)

YZ35-PPS



YZ35-Aluminum Alloy



### Technical Specifications

| Pump Head | Tubing | ID×Wall Thickness(mm) | mL / r | Flow Rate(mL/min)<br>(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                     | 0.20       | 4.36                | 1.50 |
|           | 73°    | 9.6×3.3               | 12.3   | 1.23~7400                         |                          |            |                     |      |
|           | 82°    | 12.7×3.3              | 20     | 2~12000                           |                          |            |                     |      |



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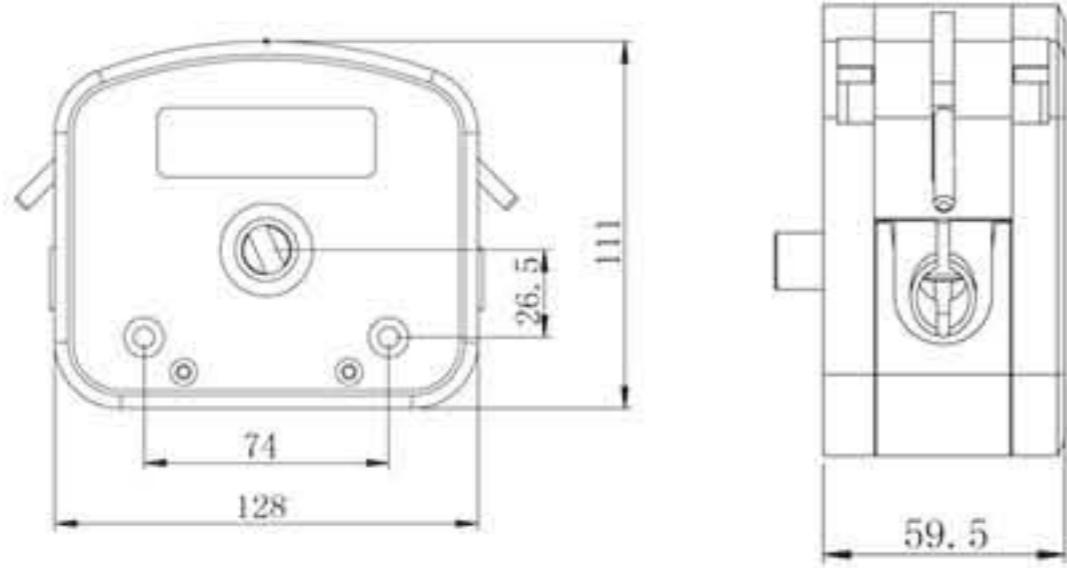


## Fast Load Pump Head

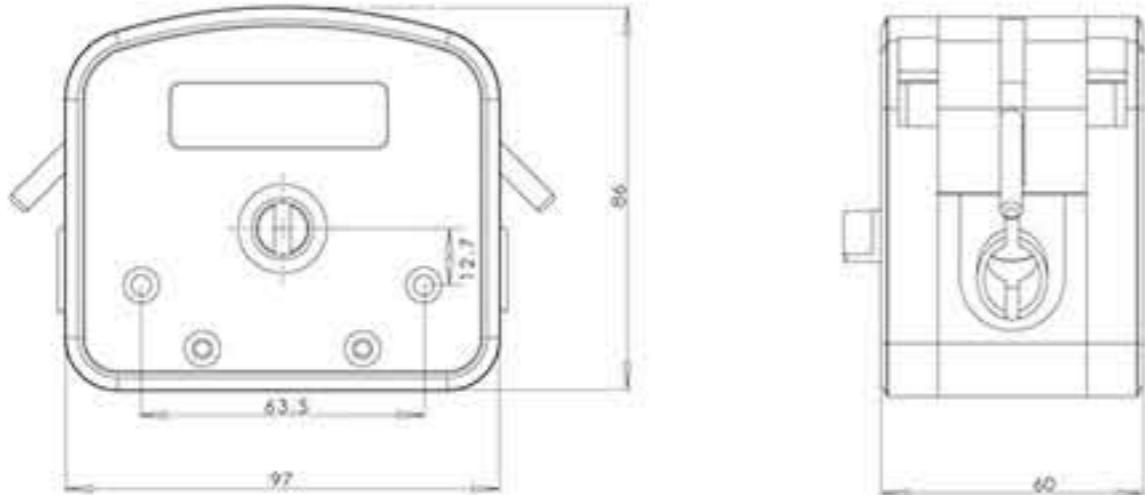
DZ25-3L,DZ25-6L(Aluminum Alloy)



### Installation Sizes Drawing (Unit: mm)



DZ25-6L Dimension



DZ25-3L Dimension

### Product Introduction

Easy operation, change tube rapidly. The house material is aluminum alloy or PPS (polyphenylene sulfite). 304 stainless steel rollers. DZ25 pump head use 2.4mm wall thickness tube, the flow rate range is 0.2-6000mL/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 card, meet hygiene requirement.

### Model Number

| DZ25-3L, DZ25-6L(Aluminum Alloy)

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

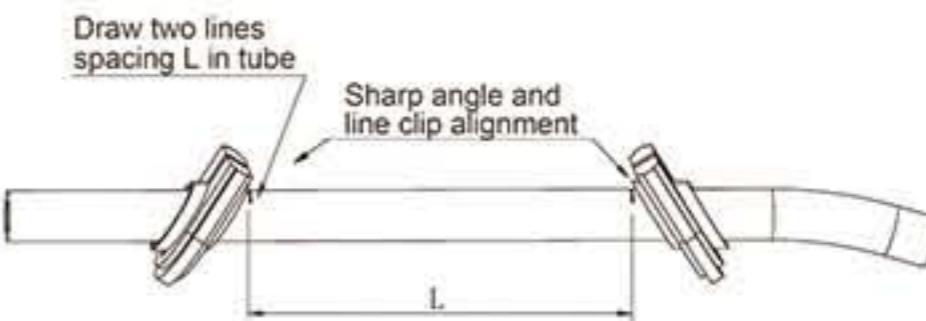


### Tubing Installation Procedure

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



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



Tubing Clamp

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

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

| 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   | PP                    | 15"          | 4.8×2.4(mm)       | 0.3~1800                        | 1.86        |
|           |                  |                       | 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/PSF          | PP                    | 15"          | 4.8×2.4(mm)       | 0.211~1264                      | 1.16/0.5    |
|           |                  |                       | 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                        |             |



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## Low Pulsation Pump Head

DY15,DY25



### Tubing Installation Procedure

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



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



### 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.

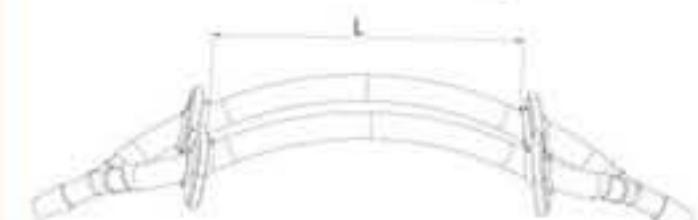
### Model Number

| DY15, DY25

### Typical Application

High precision dosing micro liquid.

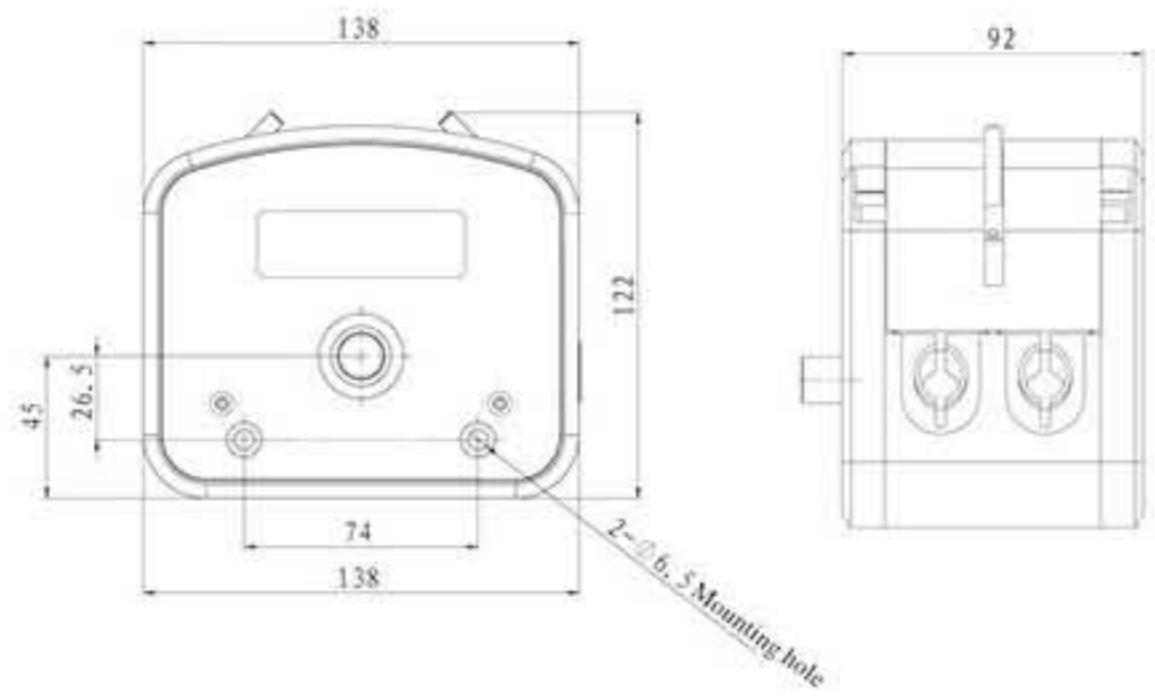
"Y" connector and tubing cartridge schematic diagram  
The tubing length is 126mm between two cartridges



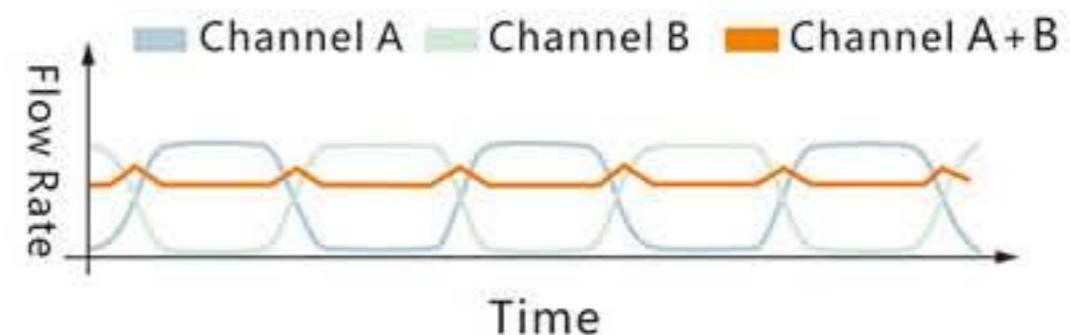
3.Install the upper block, put down the levers to lock the block.



### Installation Sizes Drawing (Unit: mm)



### Pulsation Reduction Schematic Diagram



### Technical Specifications

| Model No. | Housing Material | Tubing Clamp Material | Tubing       |                   | Flow Rate (mL/min)<br>(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                          | 3.2         |
|           |                  |                       | 24"          | 6.4×2.4(mm)       | 0.76~2670                          |             |
|           |                  |                       | 35"          | 7.9×2.4(mm)       | 0.1~360                            |             |
|           |                  |                       | 36"          | 9.6×2.4(mm)       | 1.24~4340                          |             |

## Planetary Gear Industrial Pump Head

DZ45



### Typical Application

- | Bio-medical
- | Chemical industry
- | Environmental protection

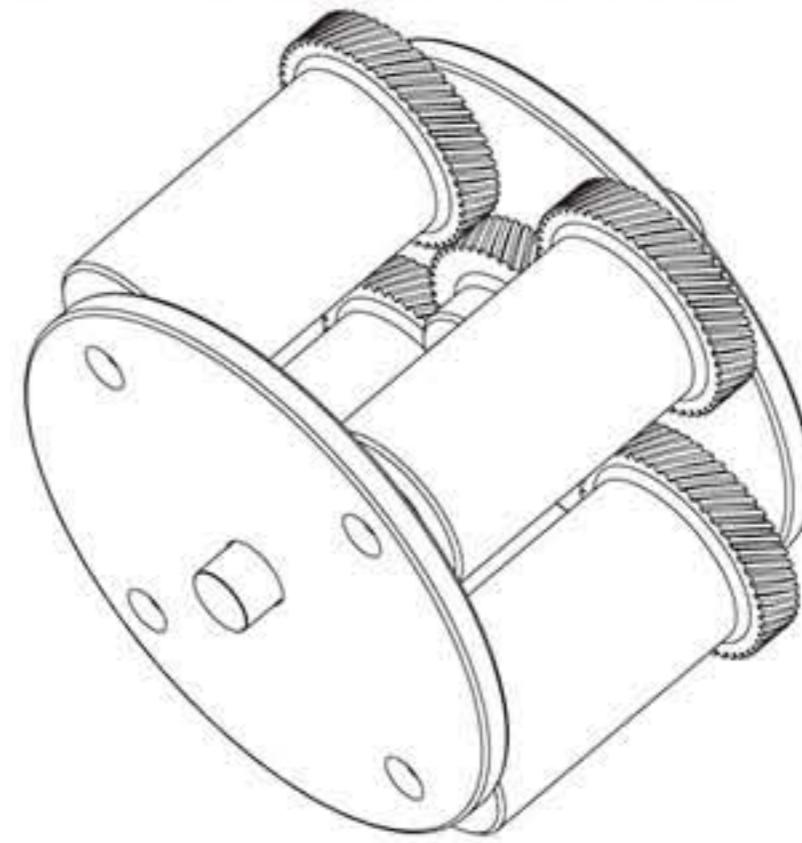
### Product Introduction

Planetary gear industrial pump head use aluminum alloy shell, 304 stainless steel rollers, long lifetime, corrosion resistance; four rollers design to reduce pulsation; planetary gear rollers, driven type rotor, spring lock block; big flow rate, high pressure, suitable for transfer high viscous and high lift liquid.

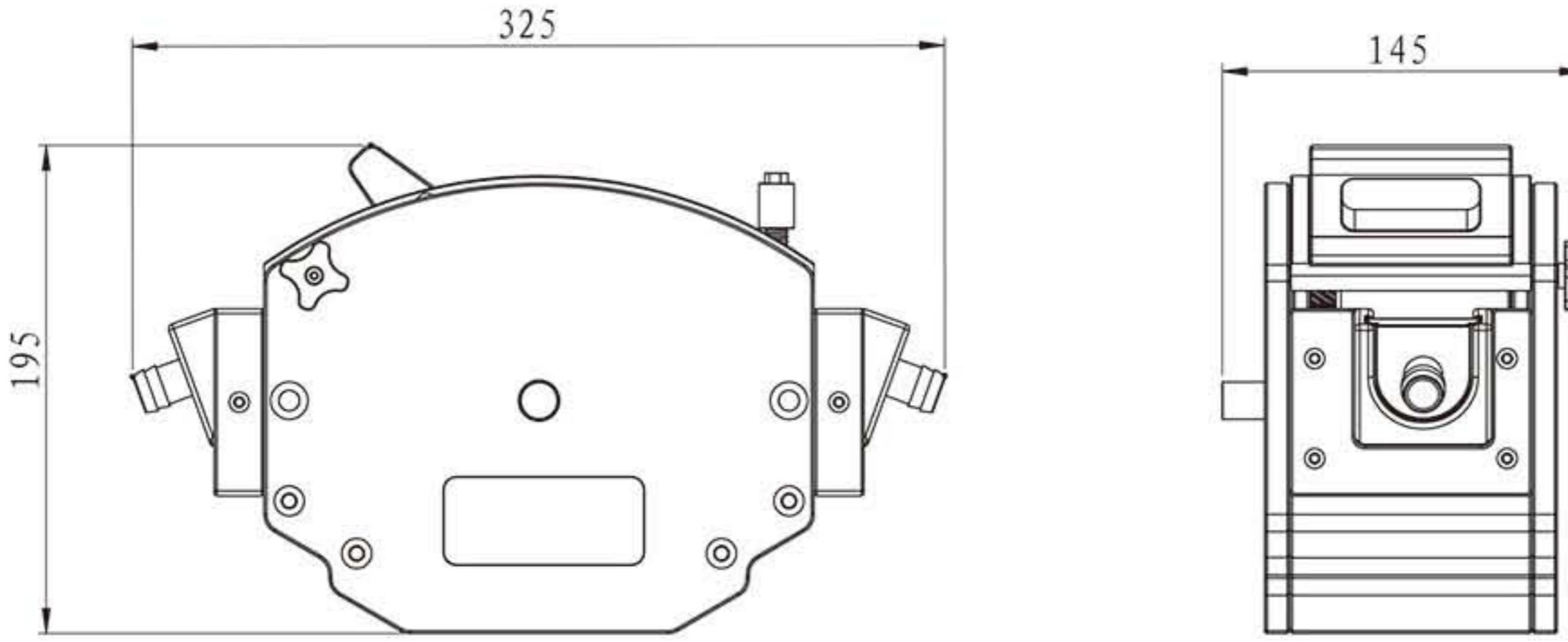
### Model Number

| DZ45

### Roller Components Graph



### Dimension Drawing (Unit: mm)



### Product Composition and Flow Rate Range

| Pump Head | Shell Material | Roller Material | Tubing     |                        | Speed (rpm) | Flow Rate (L/min) | Tubing Max. Pressure(Mpa) |              | Weight |
|-----------|----------------|-----------------|------------|------------------------|-------------|-------------------|---------------------------|--------------|--------|
|           |                |                 | Size       | ID*Wall thickness (mm) |             |                   | Continuous                | Intermittent |        |
| DZ45      | Aluminum alloy | 304             | 88#<br>92# | 12.7*4.8<br>25.4*4.8   | 30-300      | 2.6-26<br>3.6-36  | 0.25                      | 0.3          | 9.3kg  |

## Standard Pump Head

**SN25, SN15-14, SN15-16**



### Product Introduction

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

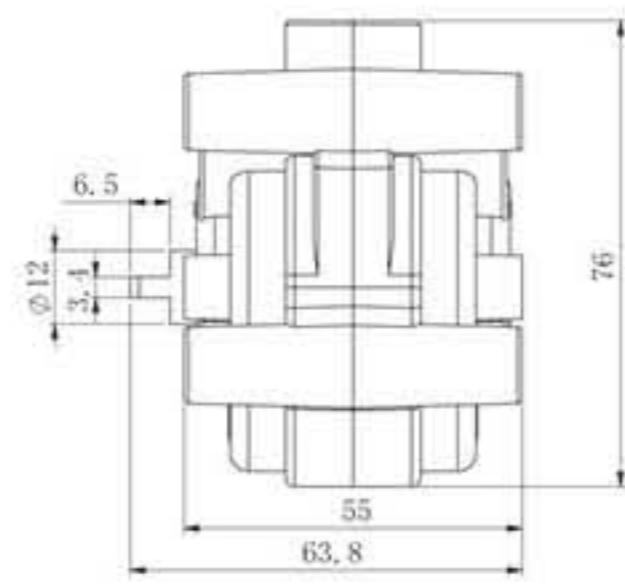
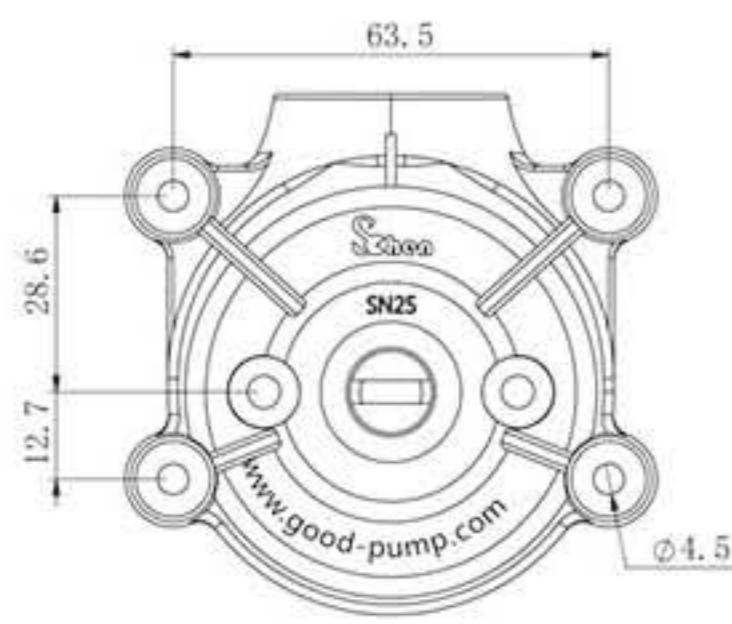
### Model Number

| SN25, SN15-14, SN15-16

### Typical Application

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

### Installation Sizes 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.



### Technical Specifications

| Model No. | Housing Material | Rollers Material    | Tubing       |                   | Flow Rate (mL/min)<br>(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



UD15

### 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.

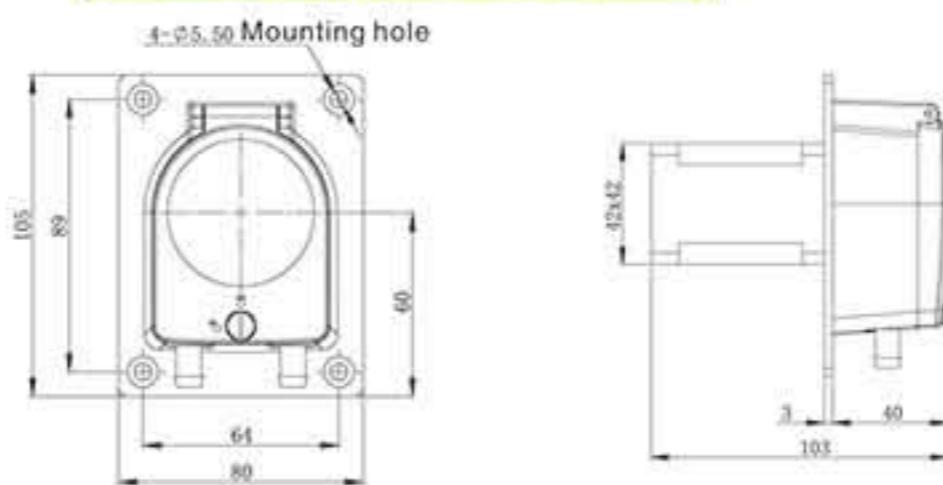
### Typical Application

| Support various of instrument

#### Stepper Motor



#### Outline dimensional drawing

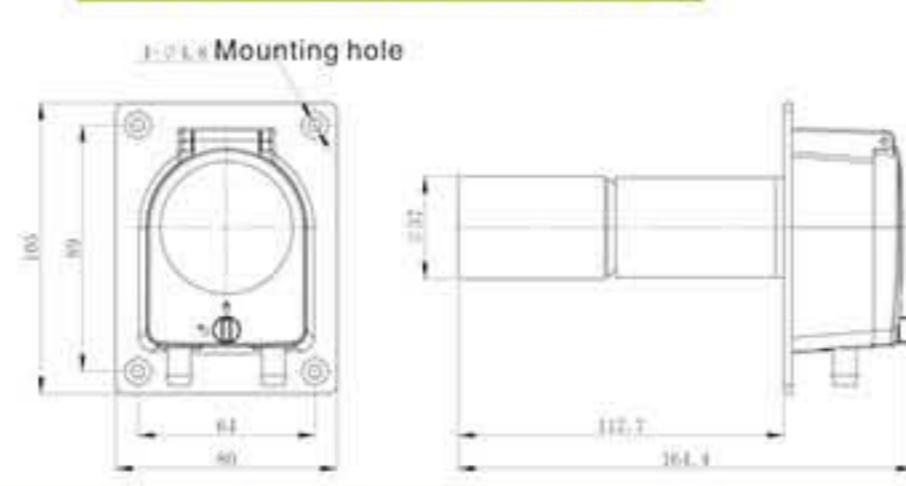


| Model No.           | OEM-UD15B01      |
|---------------------|------------------|
| Speed range         | ≤350rpm          |
| Max. flow rate      | 1000mL           |
| Motor type          | 42 Stepper motor |
| Motor phase number  | 2                |
| Motor step angle    | 1.8°             |
| Motor phase voltage | 3V               |
| Motor phase current | 3A               |

#### DC Motor



#### Outline dimensional drawing

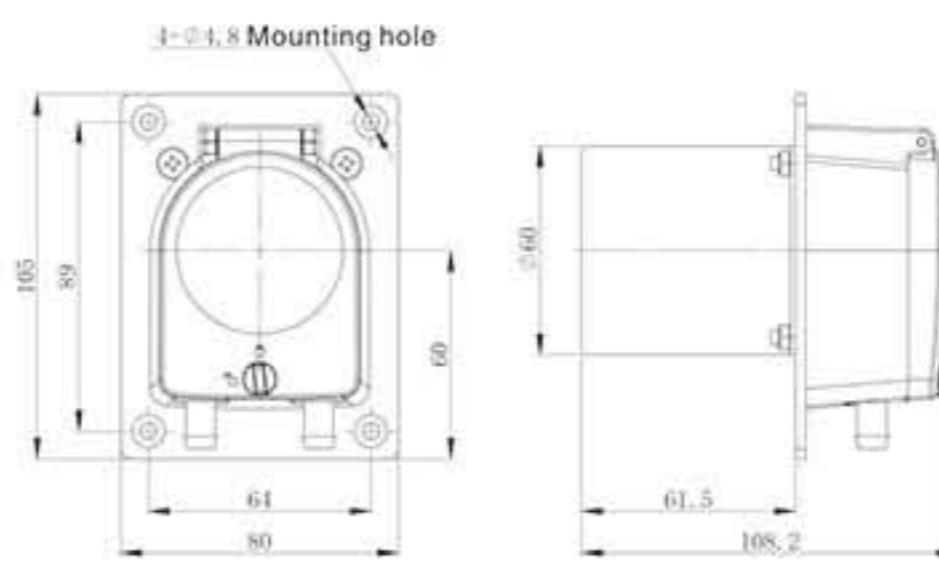


| Model No.   | Speed (rpm) | Power Supply                           | Motor Type |
|-------------|-------------|--|------------|
| OEM-UD15Z01 | 60          | DC12V/DC24V<br>DC planetary gear motor | φ 37       |
| OEM-UD15Z02 | 100         |  |            |
| OEM-UD15Z03 | 150         |  |            |
| OEM-UD15Z04 | 200         |  |            |
| OEM-UD15Z05 | 300         |  |            |
| OEM-UD15Z06 | 350         |  |            |

#### AC Motor



#### Outline dimensional drawing



| Model No.   | Speed (rpm) | Power Supply   | Motor Type           |
|-------------|-------------|----------------|----------------------|
| OEM-UD15J01 | 2.5         | AC110V /AC220V | AC synchronous motor |
| OEM-UD15J02 | 5           |                |                      |
| OEM-UD15J03 | 10          |                |                      |
| OEM-UD15J04 | 15          |                |                      |
| OEM-UD15J05 | 20          |                |                      |
| OEM-UD15J06 | 30          |                |                      |
| OEM-UD15J07 | 40          |                |                      |
| OEM-UD15J08 | 50          |                |                      |
| OEM-UD15J09 | 60          |                |                      |

#### Tubing Installation Procedure

1. As below picture, turn the holding pin to unlocking position



2. Open the transparent cover



3. Install the tubing



4. Close the transparent cover, and turn the holding pin to unlocking position



#### 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      | PES              | 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)       |                  | 0.30~1000          |             |

## OEM Product



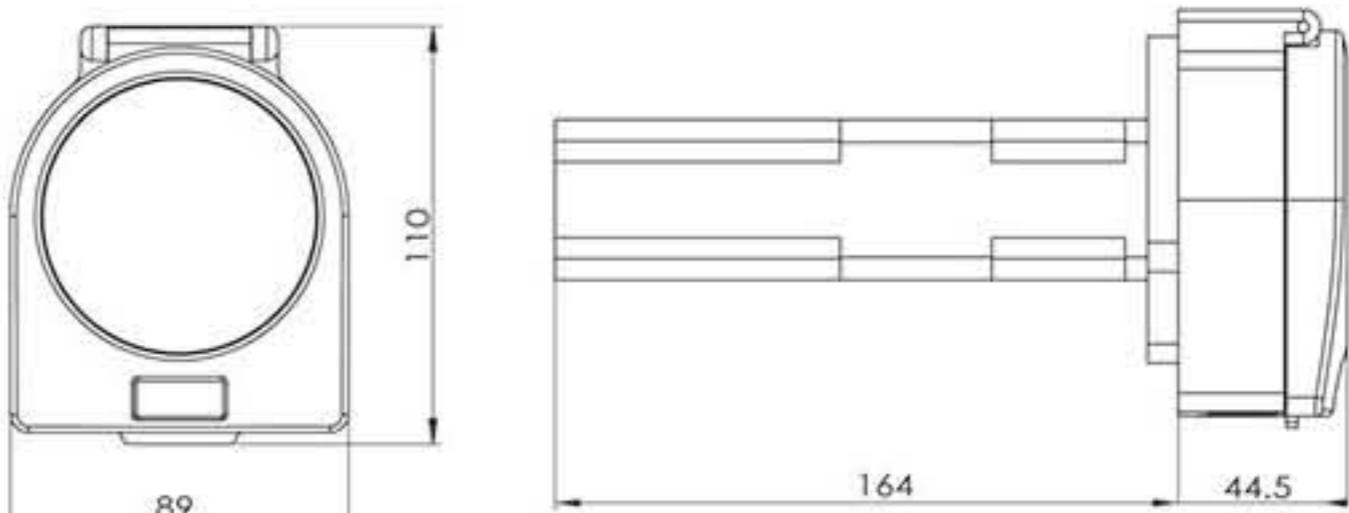
### UC15

### Product Introduction

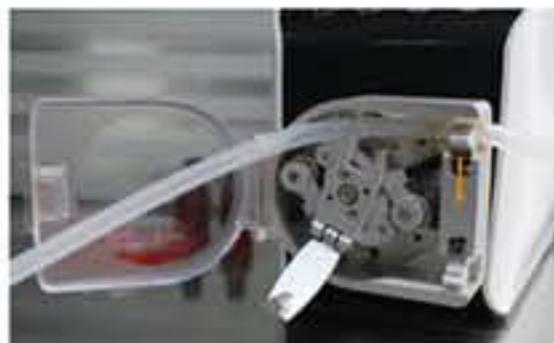
UC15 spring pump head is widely used for medical dialysis equipment. Transparent protective cover, can observe the working situation anytime; uncover signal output, stop working when uncover to ensure safety; Elastic roller assembly, running smoothly; manual lever help install the tube, and can finish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

### Installation Sizes Drawing (Unit: mm)

Support brushless DC motor



### Tubing Installation Procedure



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



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

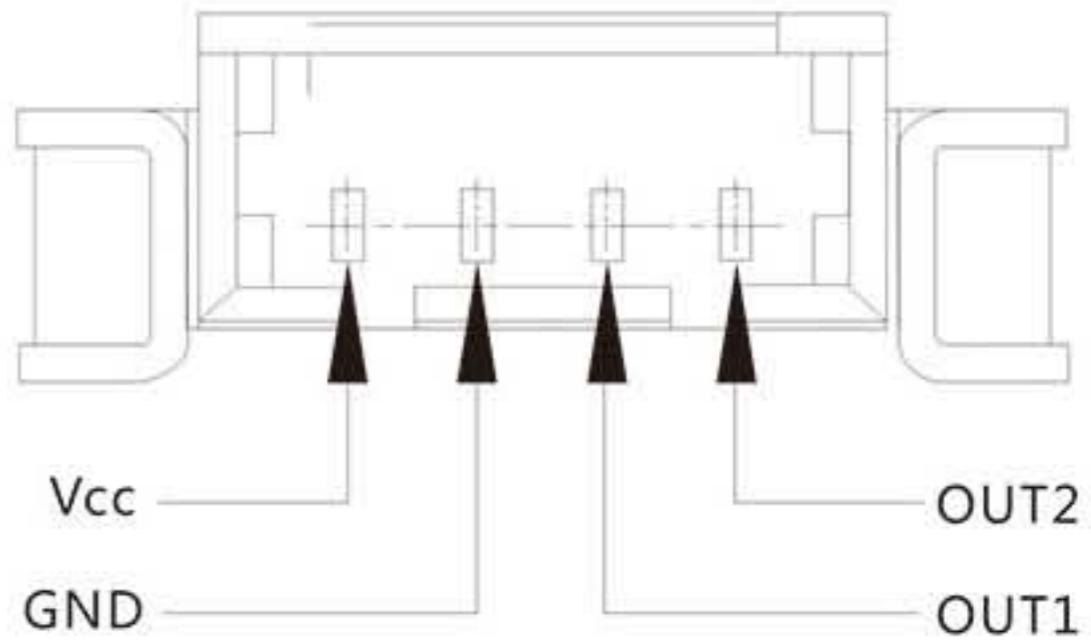


3. Press the pipe clamp, put the tube into the U shaped groove.



4. Installation is finished.

### Uncover output signal description



### Motor Data

|                  |             |               |                                      |
|------------------|-------------|---------------|--------------------------------------|
| Speed range      | 0.1-200 rpm | Motor type    | Stepper motor                        |
| Speed resolution | 0.1 rpm     | Output signal | Uncover signal (Active signal DC12V) |

### Technical Specifications

| Model | Housing Material   | Tubing                |             | Speed Range(rpm) | Flow Rate (mL/min) | Weight(kg) |
|-------|--------------------|-----------------------|-------------|------------------|--------------------|------------|
|       |                    | Size                  | IDxWall(mm) |                  |                    |            |
| UC15  | Aluminum alloy /PC | 19#                   | 2.4×1.6     | 0.1-200          | 0.08~183           | 0.5        |
|       |                    | 16#                   | 3.1×1.6     |                  | 0.15~320           |            |
|       |                    | 25#                   | 4.8×1.6     |                  | 1.1~699            |            |
|       |                    | 17#                   | 6.4×1.6     |                  | 2~1270             |            |
|       |                    | 18#                   | 7.9×1.6     |                  | 2.8~1719           |            |
|       |                    | Medical dialysis tube |             | 0.1-60           | 0.86~500           |            |

## OEM Product

### MiniPump Series



### 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.

### 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.



Pigment accurate allocation



Reagents dispensing

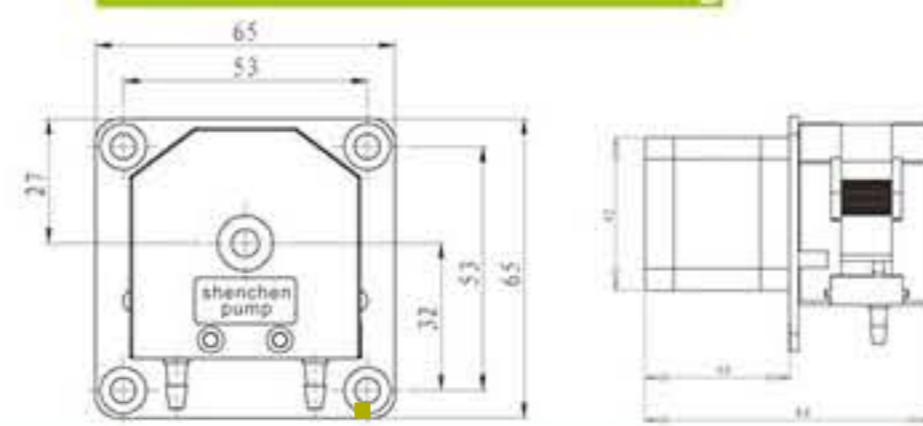


PH control system sampling

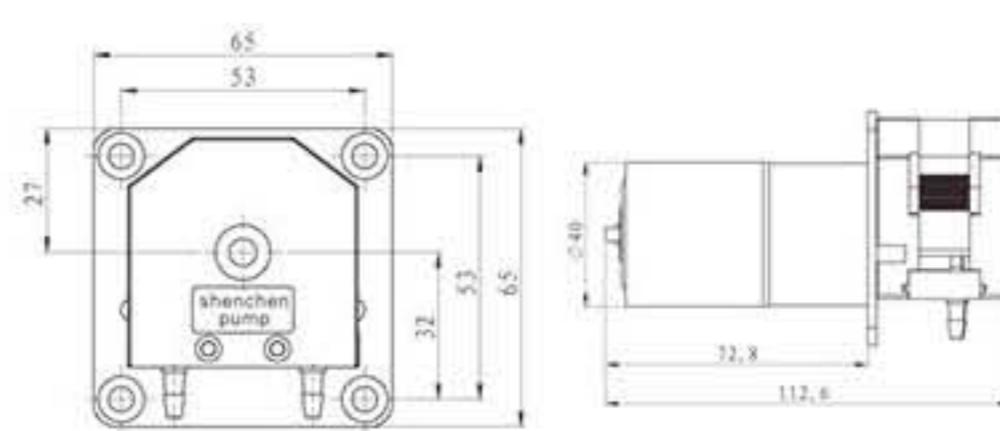


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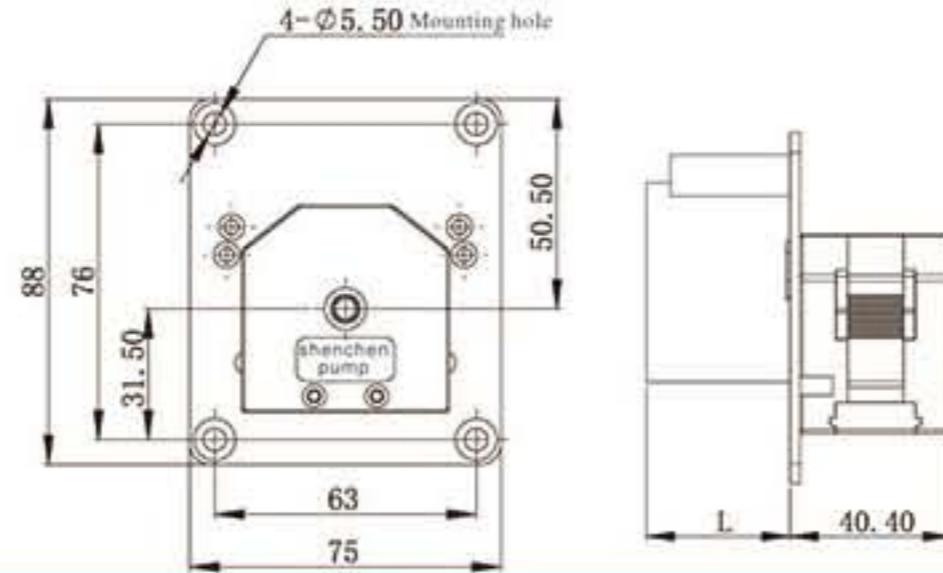
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**OEM-B01****Outline dimensional drawing**

|                     |                  |
|---------------------|------------------|
| Speed range         | $\leq 300$ rpm   |
| Max flow rate       | 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             |

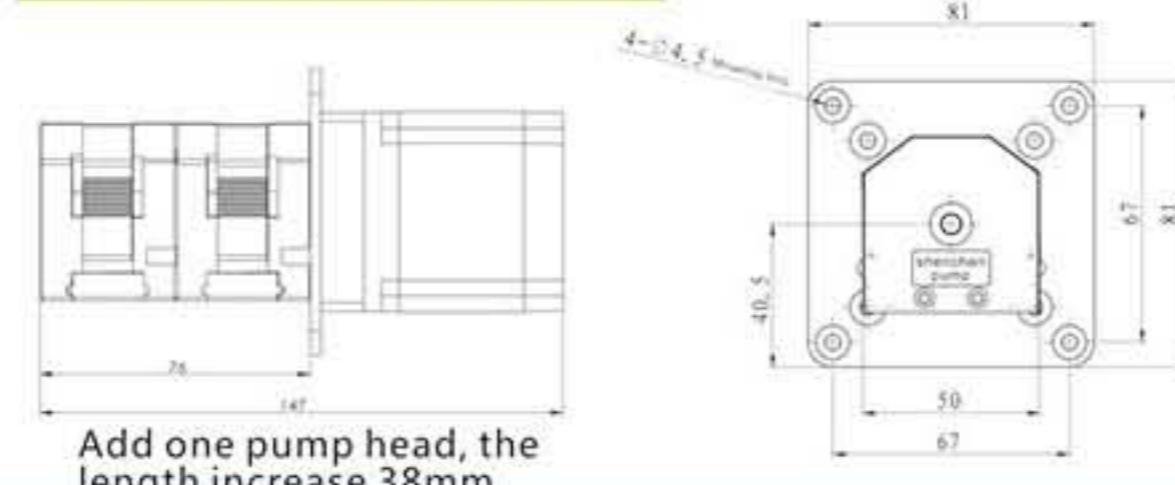
**OEM-MZ Serise****Outline dimensional drawing**

| Model No. | Rotation Speed (rpm) | Power Supply     | Motor Type                |
|-----------|----------------------|------------------|---------------------------|
| OEM-MZ01  | 170                  |                  |                           |
| OEM-MZ11  | 5                    |                  |                           |
| OEM-MZ12  | 10                   |                  |                           |
| OEM-MZ13  | 15                   |                  |                           |
| OEM-MZ14  | 20                   |                  |                           |
| OEM-MZ15  | 30                   | DC 12V or DC 24V | $\varnothing 37$ DC Motor |
| OEM-MZ16  | 50                   |                  |                           |
| OEM-MZ17  | 100                  |                  |                           |
| OEM-MZ18  | 160                  |                  |                           |
| OEM-MZ19  | 167                  |                  |                           |
| OEM-MZ20  | 278                  |                  |                           |

**OEM-MJ Serise****Outline dimensional drawing**

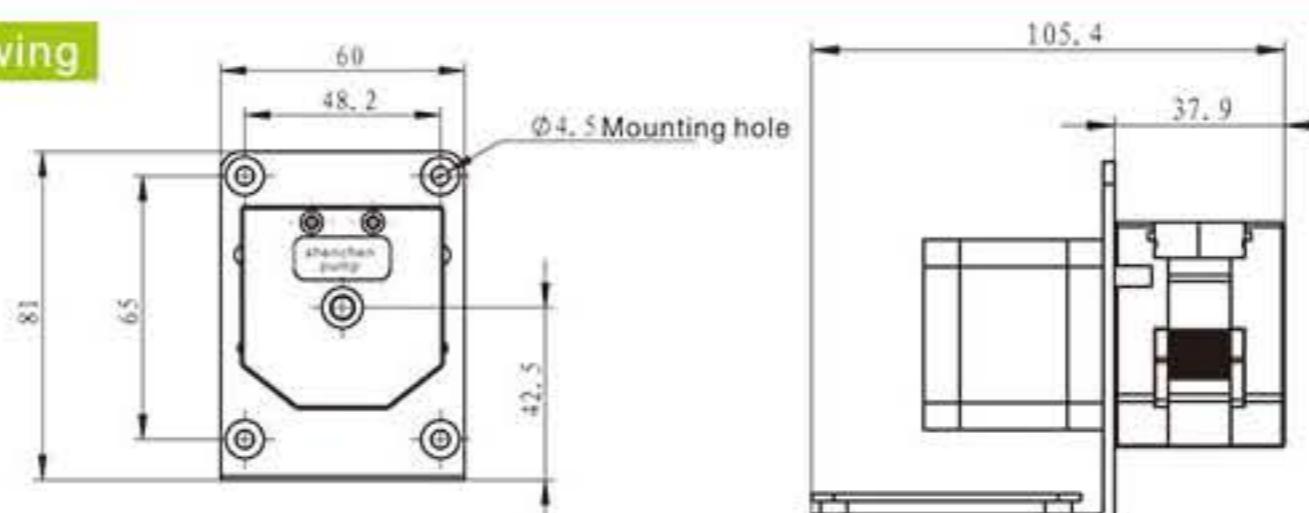
| Model No. | Rotation Speed (rpm) | Direction of rotation | Power Supply       | Motor Type |
|-----------|----------------------|-----------------------|--------------------|------------|
| OEM-MJ101 | 2.5/3                |                       |                    |            |
| OEM-MJ102 | 4/5                  | Unidirectional        |                    |            |
| OEM-MJ103 | 5/6                  |                       |                    |            |
| OEM-MJ201 | 4.2/5                |                       |                    |            |
| OEM-MJ202 | 5/6                  | Bidirectional         | AC 110V or AC 220V | AC Motor   |
| OEM-MJ203 | 11.7/14              |                       |                    |            |

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

**OEM-B126****Outline dimensional drawing**

Add one pump head, the length increase 38mm

|                     |                  |
|---------------------|------------------|
| Speed range         | $\leq 300$ rpm   |
| Max flow rate       | 190mL/min        |
| Pump head           | MiniPump-N       |
| Motor type          | 57 stepper motor |
| Motor phase number  | 2                |
| Motor step angle    | 1.8              |
| Motor phase voltage | 3.75V            |
| Motor phase current | 3.0A             |

**OEM-B013, OEM-B014****Outline dimensional drawing****OEM-B013 Technical Specifications**

|                         |   |
|-------------------------|---|
| Speed range             | 0.1-300rpm  |
| Flow rate range         | 0.0024-190ml/min  |
| Communication interface | RS232, RS485 interface modbus protocol, control start/stop, direction and speed |
| Address setting         | 1-32  |
| Motor type              | 42 stepper motor  |
| Input voltage           | DC 24V  |
| Power                   | <30W  |

**OEM-B014 Technical Specifications**

|                                |   |
|--------------------------------|---|
| Speed range                    | 0.1-300rpm  |
| Flow rate range                | 0.12-190ml/min  |
| Speed control                  | Potentiometer speed regulation                          |
| External analog signal control | 0-5V, 0-10V, 4-20mA<br>3 analog signal for option       |
| External control               | Start/stop, direction (external passive signal control) |
| Motor type                     | 42 stepper motor  |
| Input voltage                  | DC 24V  |
| Power                          | <30W  |



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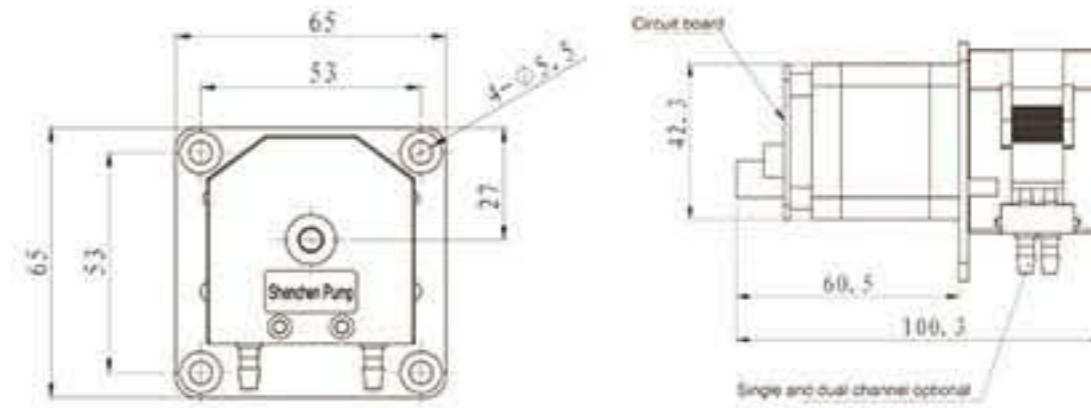
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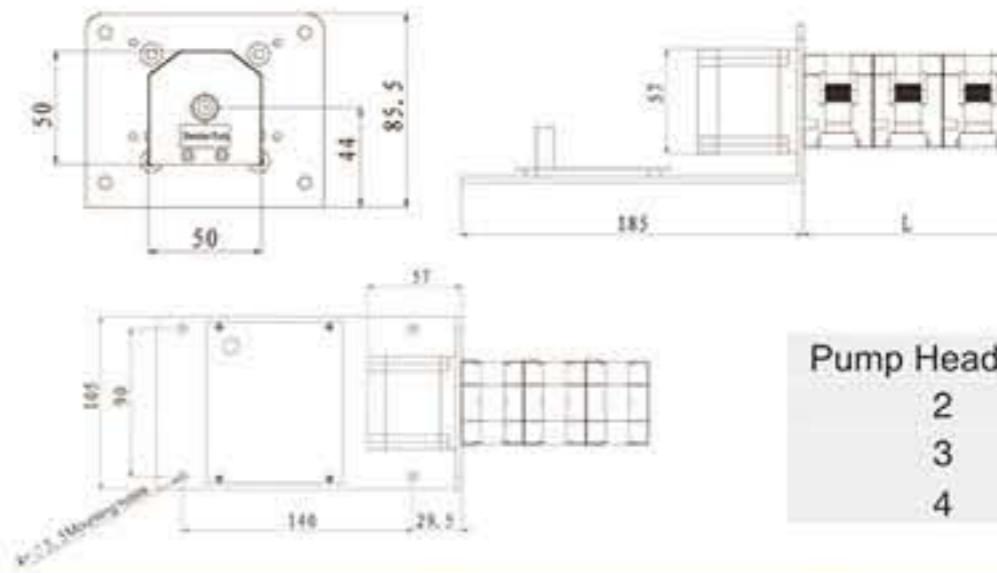


**OEM-B02, OEM-B03**

**Outline dimensional drawing**


| <b>OEM-B02 Technical Specification</b> |                                    | <b>OEM-B022 Technical Specification</b> |  | <b>OEM-B03 Technical Specification</b> |  |
|--|------------------------------------|---|--|--|--|
| Speed range                            | 0.1-300 rpm                        | Speed range                             | 0.1-300 rpm                            | Speed range                            | 0.1-300 rpm  |
| Flow rate range                        | 0.0024-190mL/min                   | Flow rate range                         | 0.0024-190mL/min                       | Flow rate range                        | 0.0024-190mL/min                                     |
| Speed control                          | Presetspeed or RS232 speed control | Speed control                           | Adjust speed by internal potentiometer | Speed control                          | External input pulse frequency speed control         |
| Subdivision settings                   | 1/16                               | Subdivision settings                    | 1/16                                   | Multiple segments                      | 1/16(recommend), 1, 1/2, 1/4, 1/8, 1/32, 1/64, 1/128 |
| Motor type                             | 42 stepper motor                   | Motor type                              | 42 stepper motor                       | Motor type                             | 42 stepper motor                                     |
| Input voltage                          | DC 24V                             | Input voltage                           | DC 24V                                 | Input voltage                          | DC 24V   |
| Power                                  | < 24W                              | Power                                   | < 24W                                  | Power                                  | < 24W  |

**OEM-B136, OEM-B137**

**Outline dimensional drawing**


| Pump Head NO. | L     |
|---------------|-------|
| 2             | 75.6  |
| 3             | 113.4 |
| 4             | 151.2 |

| <b>OEM-B136 Technical Specifications</b> |   | <b>OEM-B137 Technical Specifications</b> |  |
|--|---|--|--|
| Speed range                              | 0.1-300 rpm   | Speed range                              | 0.1-300 rpm  |
| Flow rate range                          | 0.0024-190mL/min  | Flow rate range                          | 0.0024-190mL/min                                     |
| Speed control                            | Preset speed and manual control   | Speed control                            | Pulse frequency speed control                        |
| Control mode                             | External passive signal level (normally closed or open) mode; control the start/stop of direction | Logic input voltage                      | 5V, 12V, 24V(default 5V)                             |
| Display(optional)                        | 0.96" OLED screen   | Multiple segments                        | 1/16(recommend), 1, 1/2, 1/4, 1/8, 1/32, 1/64, 1/128 |
| Motor type                               | 57 stepper motor  | Motor type                               | 57 stepper motor                                     |
| Input voltage                            | DC 24V  | Input voltage                            | DC 24V   |
| Power                                    | < 60W   | Power                                    | < 60W  |

| Motor Speed(rpm) | Dual Channel Flow Rate (mL/min) and Tubing (1 mm wall thickness) |        |          |        |
|------------------|--|--------|----------|--------|
|                  | ID 1mm   | ID 2mm | ID 2.5mm | ID 3mm |
| 5                | 0.25   | 0.90   | 1.28     | 1.78   |
| 10               | 0.49   | 1.84   | 2.59     | 3.52   |
| 15               | 0.74   | 2.76   | 3.85     | 5.30   |
| 25               | 1.25   | 4.57   | 6.43     | 8.80   |
| 40               | 2.00   | 7.31   | 10.25    | 14.02  |
| 50               | 2.52   | 9.14   | 12.78    | 17.47  |
| 75               | 3.76   | 13.64  | 19.04    | 26.12  |
| 100              | 5.03   | 18.17  | 25.42    | 35.34  |
| 200              | 10.12  | 36.45  | 51.27    | 71.44  |
| 250              | 12.63  | 45.75  | 64.34    | 88.35  |
| 300              | 15.01  | 54.63  | 76.84    | 108.39 |

| Motor Speed(rpm) | Single Channel Flow Rate (mL/min) and Tubing (1.6 mm wall thickness) |              |              |              |
|------------------|--|--------------|--------------|--------------|
|                  | 13° ID 0.8mm   | 14° ID 1.6mm | 16° ID 3.1mm | 25° ID 4.8mm |
| 5                | 0.12   | 0.56         | 1.97         | 3.26         |
| 10               | 0.26   | 1.15         | 3.90         | 6.41         |
| 15               | 0.39   | 1.74         | 5.80         | 9.52         |
| 25               | 0.66   | 2.88         | 9.59         | 15.74        |
| 40               | 1.08   | 4.59         | 15.29        | 25.15        |
| 50               | 1.34   | 5.69         | 18.96        | 31.14        |
| 75               | 2.00   | 8.54         | 28.36        | 46.55        |
| 100              | 2.73   | 11.37        | 37.66        | 61.98        |
| 200              | 5.46   | 22.76        | 76.02        | 124.14       |
| 250              | 6.81   | 28.40        | 95.08        | 153.63       |
| 300              | 8.28   | 33.88        | 114.31       | 190.00       |

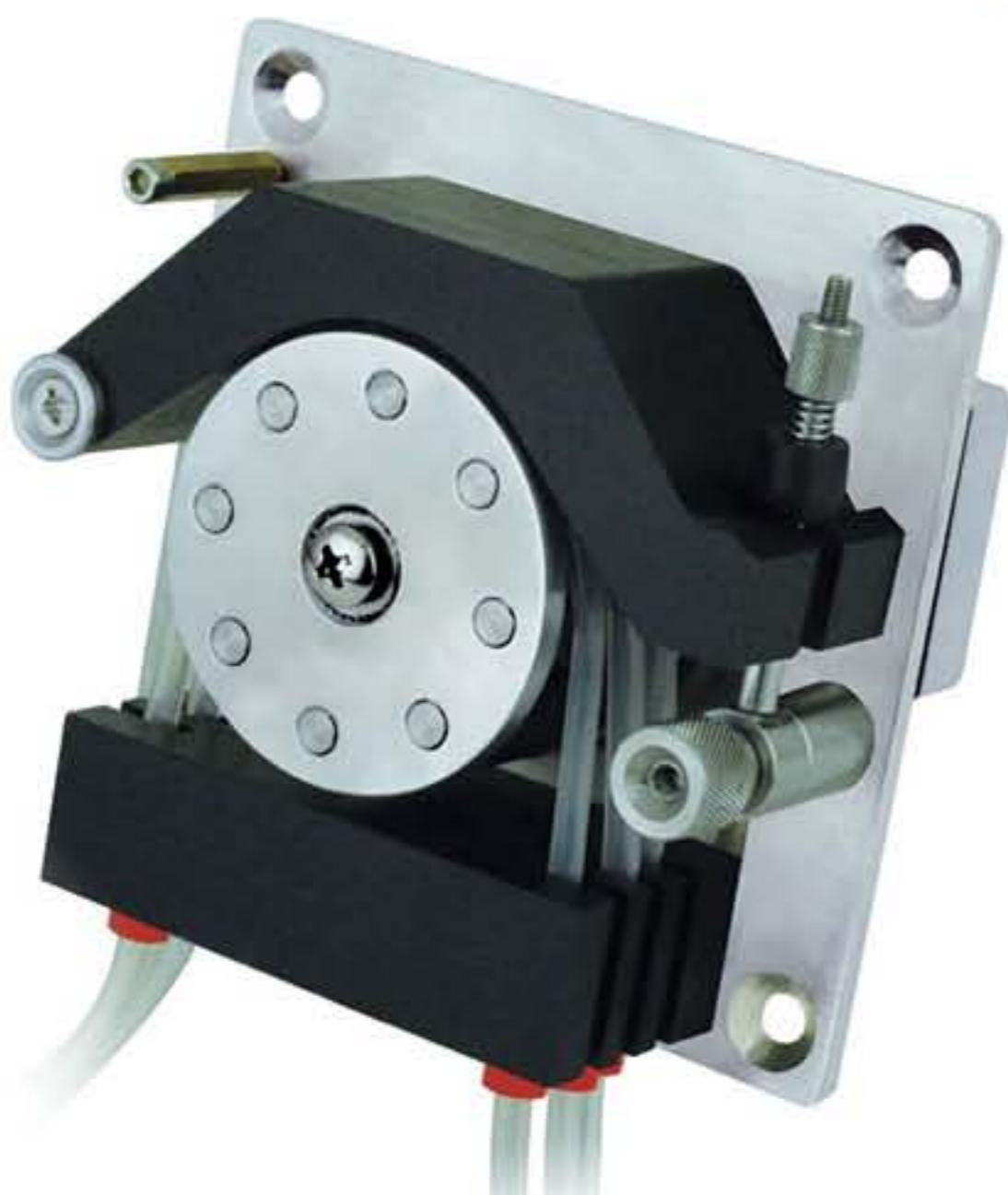
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## OEM Product

MD3



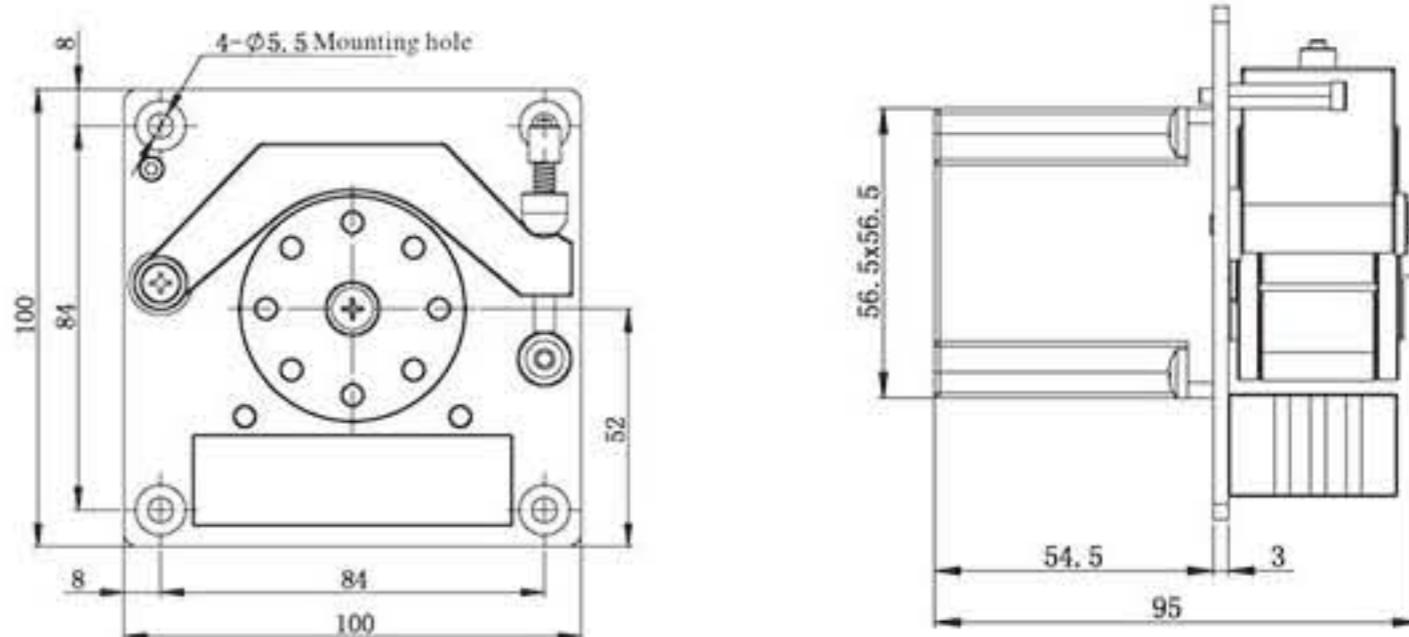
**Model Number** | MD3

**Typical Application** | Support analytical instruments

### Product Introduction

Suitable for liquid transferring of small flow rate and multiple channels. Complete compression block design, can improve the accuracy among channels effectively; with the function of micro adjustment occlusion, to micro adjust the flow rate and outlet pressure. Eight rollers design, reduce the liquid pulsation; embedded design, very suitable for equipment supporting.

### Installation Sizes Drawing (Unit: mm)



### Tubing Installation Procedure



1.Turn the spanner clockwise.



2.Install tubing one by one, from inside to outside.



3.Tubing installation finished.



4.Turn spanner anticlockwise, locking the upper block, micro adjust the occlusion.

### Technical Specifications

| Pump Head | Channel Number | Speed         | Tubing    | Flow Rate (0.1-300rpm)            | Rollers Number | Rollers Material | Tubing Maximum Pressure (Mpa)   |
|-----------|----------------|---------------|-----------|-----------------------------------|----------------|------------------|---------------------------------|
| MD3       | 3              | 0.1-300 (rpm) | 1×1       | 0.007-20.95 mL/min (each channel) | 8 rollers      | POM              | Intermittent 0.1 Continuous 0.1 |
|           |                |               | 2×1       | 0.0244-74mL/min (each channel)    |                |                  |                                 |
|           |                |               | 2.79×0.86 | 0.0356-107mL/min (each channel)   |                |                  |                                 |



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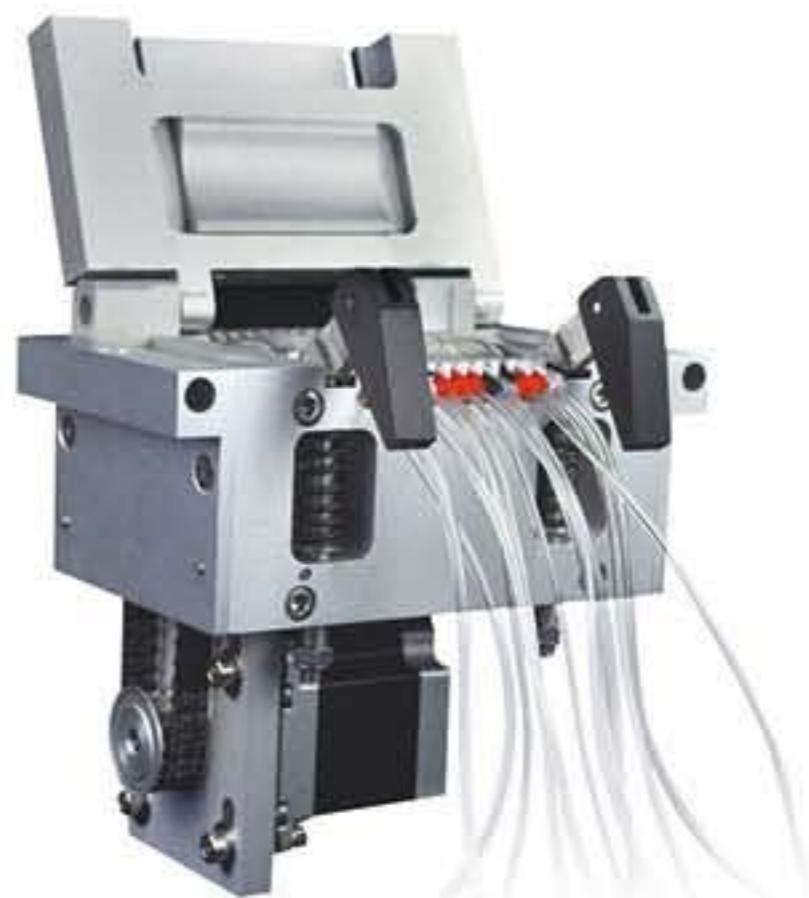
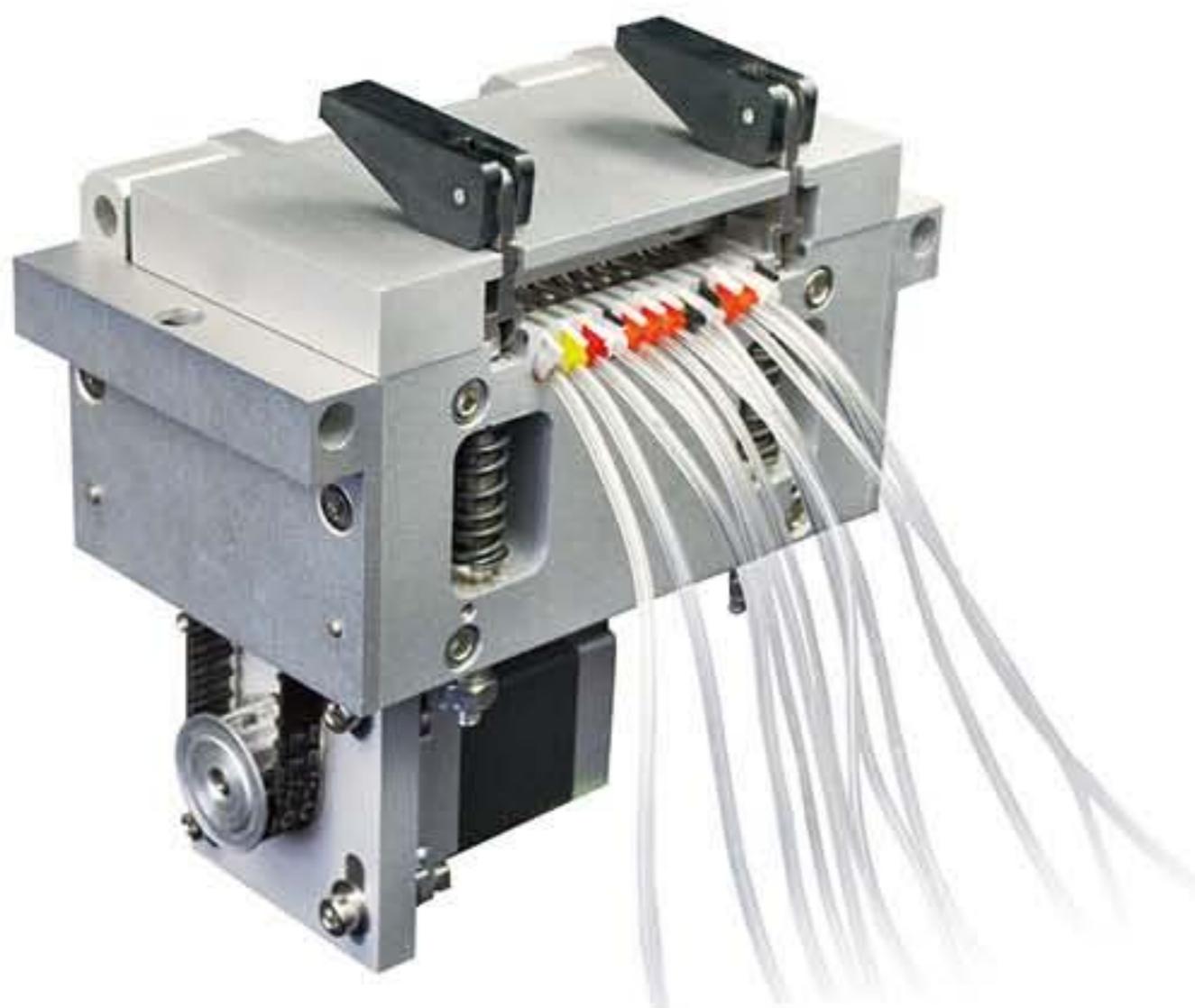
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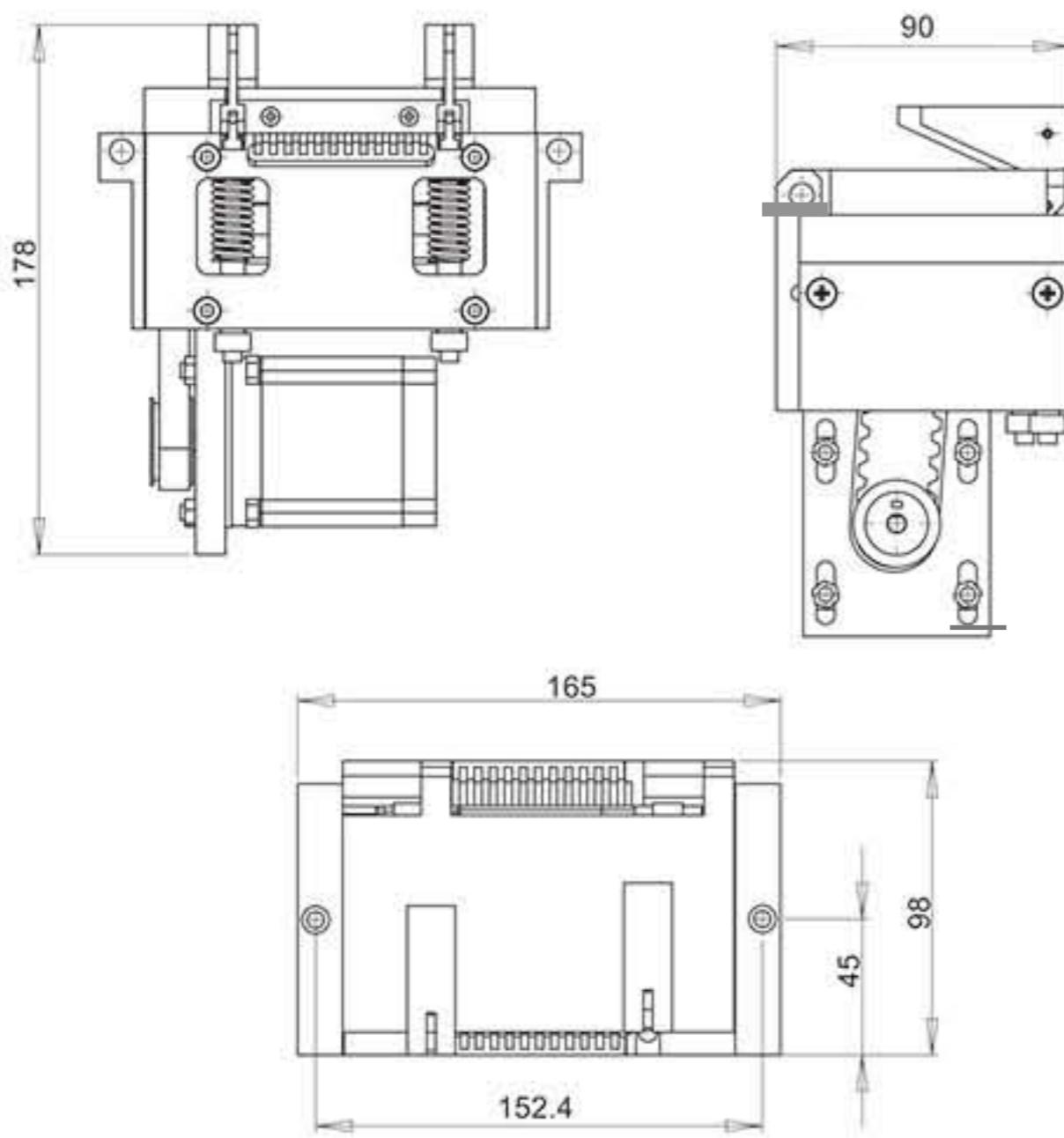


## OEM Product

MT12



### Installation Sizes Drawing (Unit: mm)



### Product Introduction

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

Accept many kinds of motors drive, such as stepper motor, DC motor, AC motor and servo motor.

### 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 | 0.2                           | 0.15       |

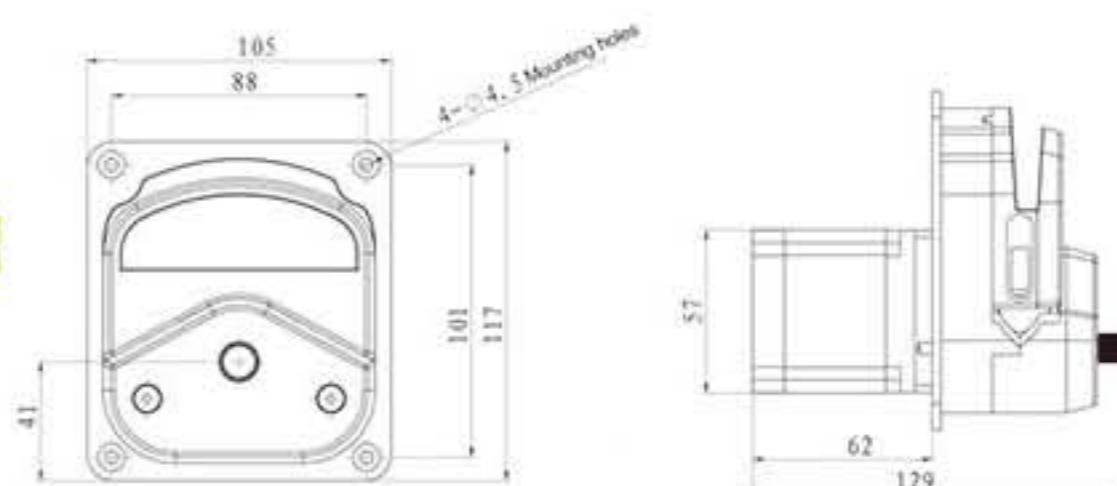
## OEM Product

### OEM-B130 ( Compact Type)



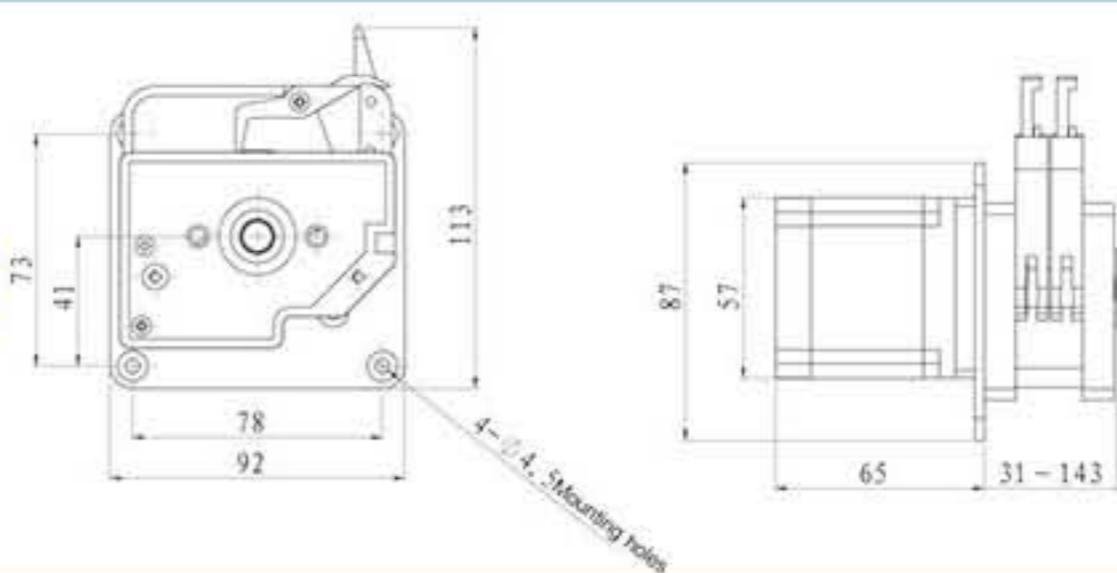
57 stepper motor

Outline dimensional drawing



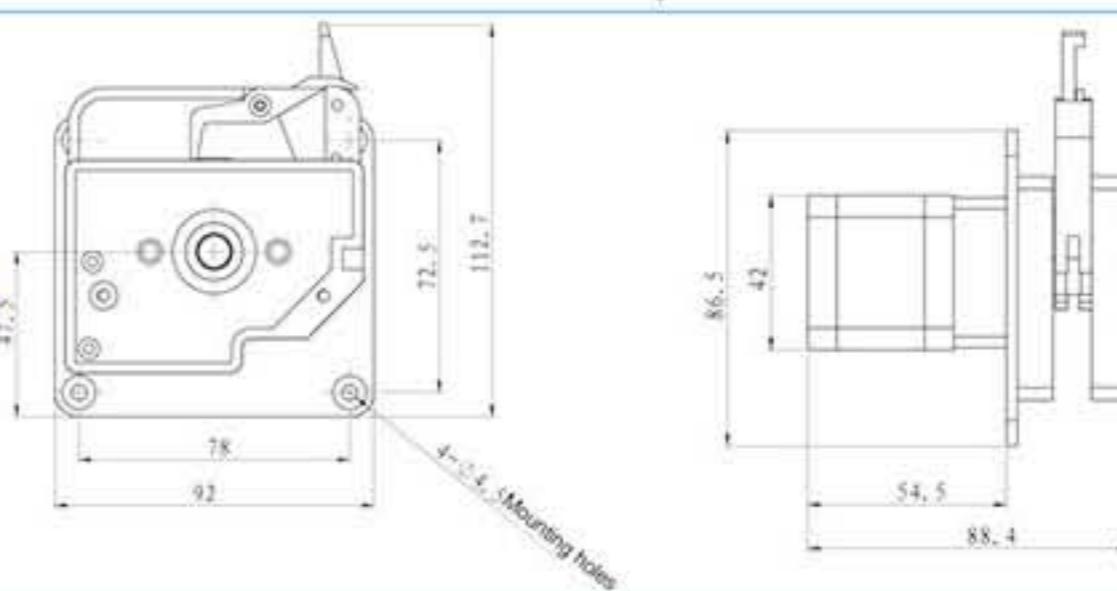
57 stepper motor

Outline dimensional drawing



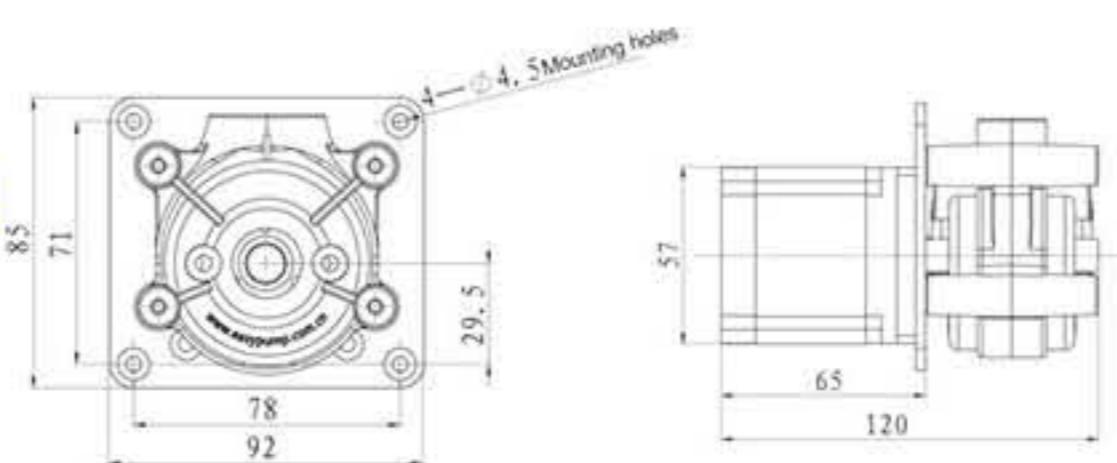
42 stepper motor

Outline dimensional drawing



57 stepper motor

Outline dimensional drawing



|                     |                                   |
|---------------------|-----------------------------------|
| Speed range         | $\leq 350$ rpm                    |
| Max flow rate       | 1330mL/min                        |
| Motor type          | 57 stepper motor/42 stepper motor |
| Motor phase number  | 2                                 |
| Motor step angle    | 1.8°                              |
| Motor phase voltage | 3.75V                             |
| Motor phase current | 3.0A                              |

#### Tubing & Flow Rate

| Pump Head | Tubing                                    | Flow Rate ( mL/min )                        |
|-----------|---|---|
| YZ1515x   | 13", 14", 19", 16", 25", 17", 18"         | $\leq 1330$                                 |
| YZ2515x   | 15", 24"                                  | $\leq 1015$                                 |
| MC1-MC8   | ID : 0.13-3.17mm Wall thickness : 0.8-1mm | $\leq 49$ (10 roller), $\leq 65$ (6 roller) |
| SN Series | 14". 16". 24"                             | $\leq 875$                                  |

## OEM Product

**OEM-B19 Series**



MC1~ MC8



Yz1515x, YZ2515x

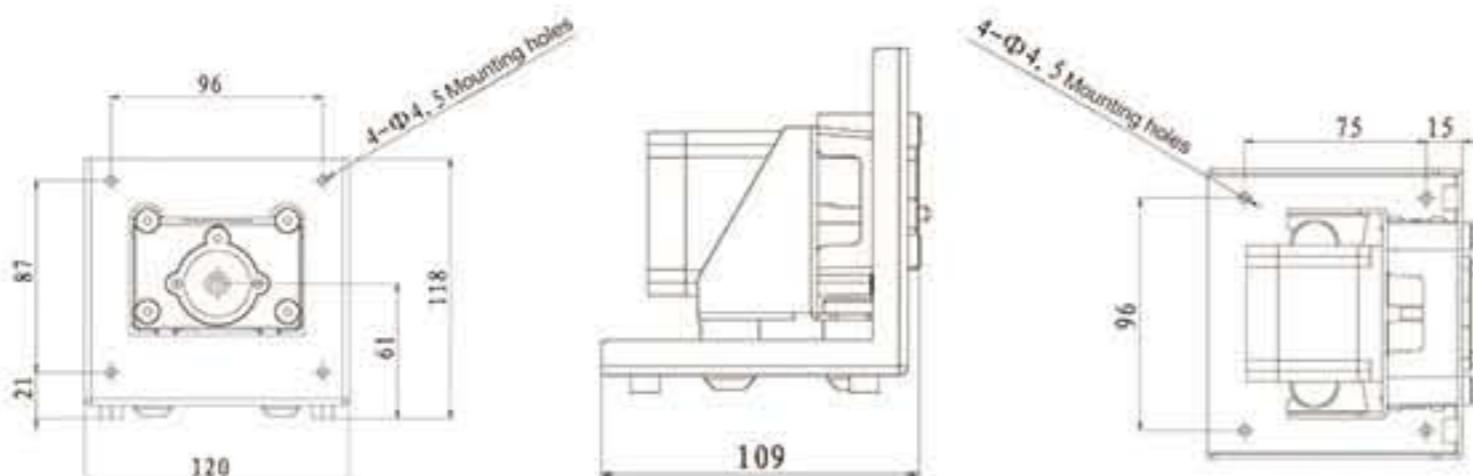


Sn15, SN25

Suitable Pump Head



Outline dimensional drawing

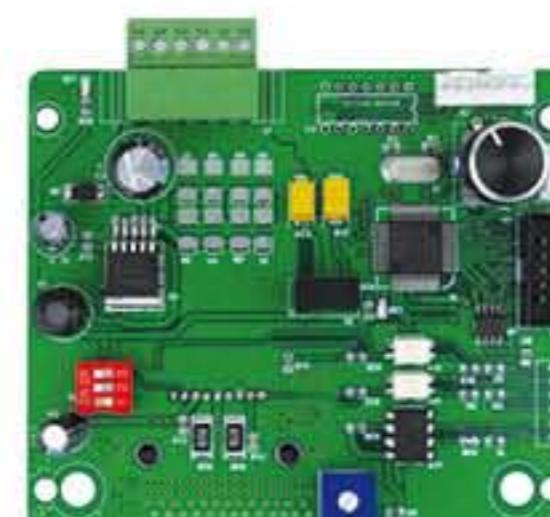
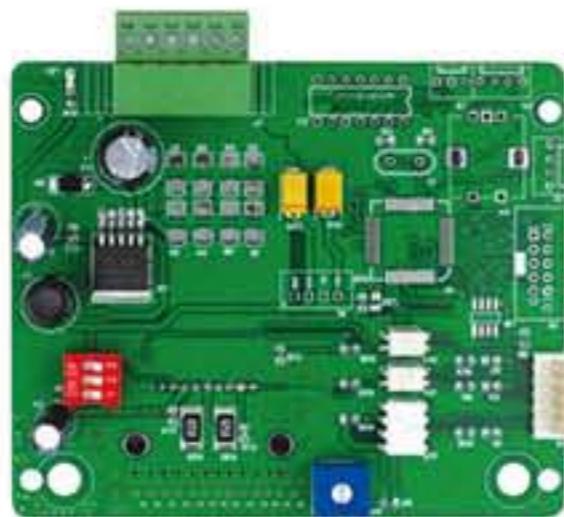


|                     |                  |
|---------------------|------------------|
| Speed range         | ≤350 rpm         |
| Max flow rate       | 1330mL/min       |
| Motor type          | 57 stepper motor |
| Motor phase number  | 2                |
| Motor step angle    | 1.8°             |
| Motor phase voltage | 3.75V            |
| Motor phase current | 3.0A             |

**Tubing&Flow rate**

| Pump Head | Tubing                                    | Flow Rate ( mL/min )            |
|-----------|---|---------------------------------|
| YZ1515x   | 13", 14", 19", 16", 25", 17", 18"         | ≤1330                           |
| YZ2515x   | 15", 24"                                  | ≤1015                           |
| MC1-MC8   | ID : 0.13-3.17mm Wall thickness : 0.8-1mm | ≤32(10 rollers), ≤45(6 rollers) |
| SN Series | 14", 16", 24"                             | ≤875                            |

User driven / speed type control board



**PD03 Main board technical specification**

**PMD07 Main board technical specification**

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

## OEM Product



OEM Drive



MC1~ MC8



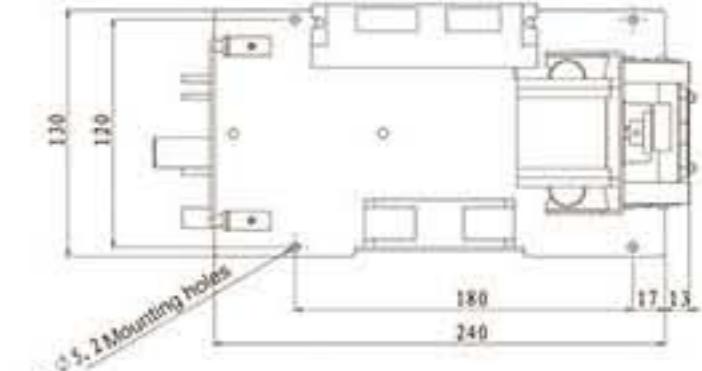
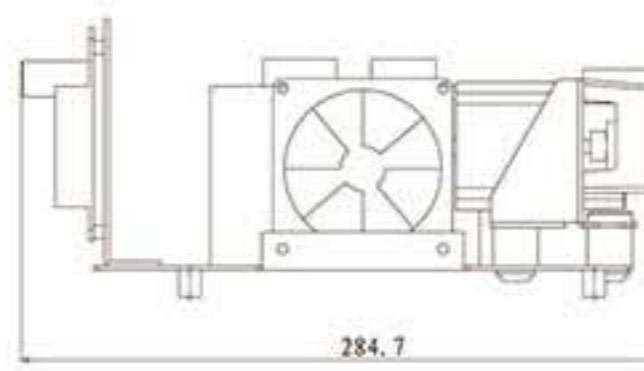
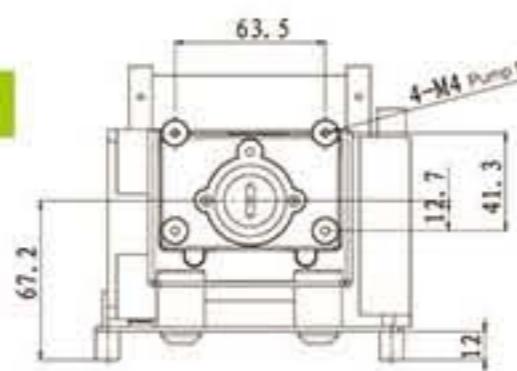
YZ1515x, YZ2515x

Suitable Pump Head



SN15, SN25

Outline dimensional drawing



### PM01 Mainboard technical specification

|                         |   |
|-------------------------|---|
| Speed range             | 0.1-600 rpm(optional)   |
| Flow rate range         | 0.000166-2280mL/min   |
| Speed resolution        | 0.1rpm  |
| Display                 | 0.96" OLED screen(optional)   |
| Speed control           | Preset speed or membrane keypad speed control (optional)                |
| Control mode            | membrane keypad   |
| External control        | Start/stop,change direction signal ;Active switch signal: 5V (standard) |
| Communication interface | RS485 support Modbus protocol (RTU mode)                                |
| External control speed  | 0-5V,0-10V,4-20mA(optional)   |
| Motor type              | 57 stepper motor  |
| Input voltage           | 24V   |
| Power                   | <60W  |

### PM02 Mainboard technical specification

|                         |  |
|-------------------------|--|
| Speed range             | 0.1-600 rpm(optional)                                    |
| Flow rate range         | 0.000067-2280mL/min                                      |
| Speed resolution        | 0.1rpm   |
| Display                 | 0.96" OLED screen(optional)                              |
| Speed control           | Preset speed or membrane keypad speed control (optional) |
| Control mode            | Toggle switch  |
| External control        | Start/stop;Active switch signal: 5V (standard)           |
| Communication interface | RS485 support Modbus protocol (RTU mode)                 |
| External control speed  | 0-5V,0-10V,4-20mA(optional)                              |
| Motor type              | 57 stepper motor   |
| Input voltage           | 24V  |
| Power                   | <60W   |

### Tubing&Flow rate

| OEM Drive                                 | Pump Head & Flow Rate (mL/min)                |            |   |   |   |           |           |
|---|---|------------|---|---|---|-----------|-----------|
|   | YZ1515x                                       | YZ2515x    | MC1~MC12(10)  | MC1~MC12(6)   | SN25  | SN15-14   | SN15-16   |
| OEM Number<br>(main board)&rotation speed | Tubing<br>13°, 14°, 19°, 16°<br>25°, 17°, 18° | 15°, 24°   | Inner diameter: 0.13-3.17mm<br>Wall thickness: 0.86-1mm |   | 24°   | 14°       | 16°       |
| OEM-B145(PM01)                            | 0.1-150rpm                                    | 0.007~570  | 0.17~435  |   |   |           |           |
| OEM-B147(PM02)                            |   |            |   | 0.000166-49<br>(suggest working rotating speed ≤150rpm) | 0.000185-65<br>(suggest working rotating speed ≤150rpm) | 0.25~375  | 0.024~36  |
| OEM-B146(PM01)                            | 0.1-350rpm                                    | 0.007~1330 | 0.17~1015   |   |   | 0.25~875  | 0.024~84  |
| OEM-B148(PM02)                            |   |            |   |   |   | 0.088~308 |           |
| OEM-B221(PM01)                            | 0.1-600rpm                                    | 0.007~2280 | 0.17~1740   |   |   | 0.25~1500 | 0.024~144 |
| OEM-B222(PM02)                            |   |            |   |   |   |           | 0.088~528 |

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## OEM Product



**OEM-Z Series**



MC1 ~ MC12

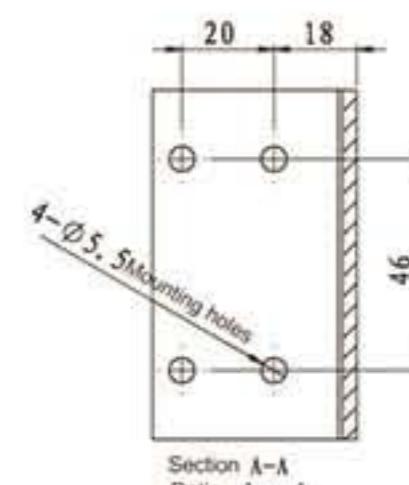
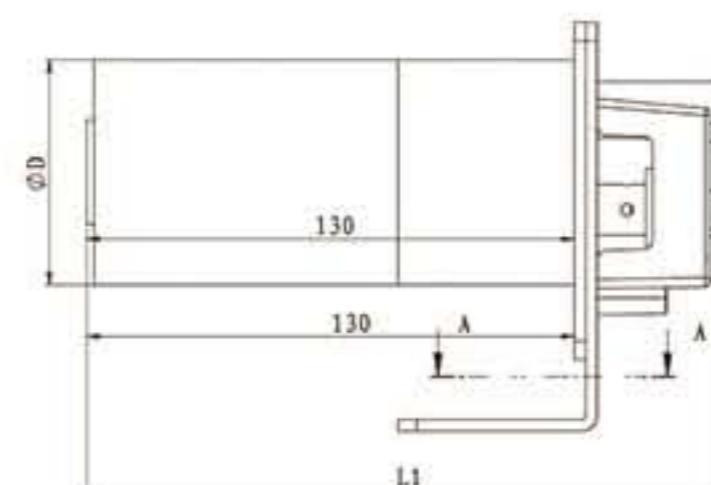
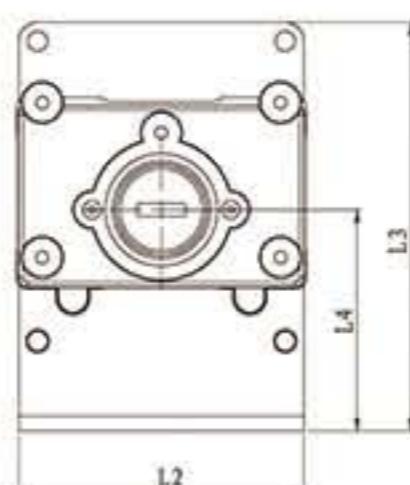


YZ1515x,YZ2515x



SN15,SN25

Outline dimensional drawing



| Product Model | Install Method           | Speed(rpm) | Speed Error | Suitable Power | Motor Type           | Work Environment |
|---------------|--------------------------|------------|-------------|----------------|----------------------|------------------|
| OEM-Z101      | L shape connection plate | 60         |             |                |                      |                  |
| OEM-Z102      | L shape connection plate | 100        |             |                |                      |                  |
| OEM-Z103      | L shape connection plate | 166        |             |                |                      |                  |
| OEM-Z104      | L shape connection plate | 200        |             |                |                      |                  |
| OEM-Z105      | L shape connection plate | 240        |             |                |                      |                  |
| OEM-Z106      | L shape connection plate | 333        |             |                |                      |                  |
| OEM-Z107      | L shape connection plate | 400        |             |                |                      |                  |
| OEM-Z108      | L shape connection plate | 500        |             |                |                      |                  |
| OEM-Z109      | L shape connection plate | 600        | ±10%        |                |                      |                  |
| OEM-Z110      | —                        | 60         |             |                | Ø 60 DC geared motor |                  |
| OEM-Z111      | L shape connection plate | 60         |             |                |                      |                  |
| OEM-Z112      | L shape connection plate | 100        |             |                |                      |                  |
| OEM-Z113      | L shape connection plate | 166        |             |                |                      |                  |
| OEM-Z114      | L shape connection plate | 200        |             |                |                      |                  |
| OEM-Z115      | L shape connection plate | 240        |             |                |                      |                  |
| OEM-Z116      | L shape connection plate | 333        |             |                |                      |                  |
| OEM-Z117      | L shape connection plate | 400        |             |                |                      |                  |
| OEM-Z118      | L shape connection plate | 500        |             |                |                      |                  |
| OEM-Z119      | L shape connection plate | 600        |             |                |                      |                  |
| OEM-Z201      | L shape connection plate | 60         |             |                |                      |                  |
| OEM-Z202      | L shape connection plate | 100        |             |                |                      | 0-40°C           |
| OEM-Z203      | L shape connection plate | 150        |             |                |                      |                  |
| OEM-Z204      | L shape connection plate | 200        |             |                |                      |                  |
| OEM-Z205      | L shape connection plate | 300        |             |                |                      |                  |
| OEM-Z206      | L shape connection plate | 450        |             |                |                      |                  |
| OEM-Z207      | L shape connection plate | 500        |             |                |                      |                  |
| OEM-Z208      | L shape connection plate | 600        |             |                |                      |                  |
| OEM-Z211      | L shape connection plate | 60         | ±10%        |                | Ø 70 DC geared motor |                  |
| OEM-Z212      | L shape connection plate | 100        |             |                |                      |                  |
| OEM-Z213      | L shape connection plate | 150        |             |                |                      |                  |
| OEM-Z214      | L shape connection plate | 200        |             |                |                      |                  |
| OEM-Z215      | L shape connection plate | 300        |             |                |                      |                  |
| OEM-Z216      | L shape connection plate | 450        |             |                |                      |                  |
| OEM-Z217      | L shape connection plate | 500        |             |                |                      |                  |
| OEM-Z218      | L shape connection plate | 600        |             |                |                      |                  |
| OEM-Z301      | L shape connection plate | 600        | ±10%        | DC 24V/30W     | Ø 60 DC motor        |                  |
| OEM-Z401      | L shape connection plate | 500        | ±10%        | DC 24V/40W     | Ø 80 DC motor        |                  |

### Tubing & Flow Rate

| Pump Head | Tubing                                     | Flow Rate ( mL/min ) |
|-----------|--|----------------------|
| YZ1515x   | 13", 14", 19", 16", 25", 17", 18"          | < 2280               |
| YZ2515x   | 15", 24"                                   | < 1740               |
| MC        | ID : 0.13-3.17mm Wall thickness : 0.86-1mm | < 45                 |
| SN Series | 14", 16", 24"                              | < 1500               |

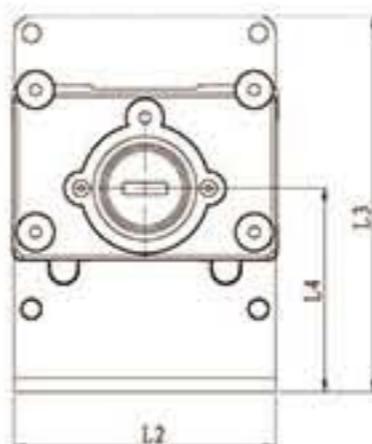
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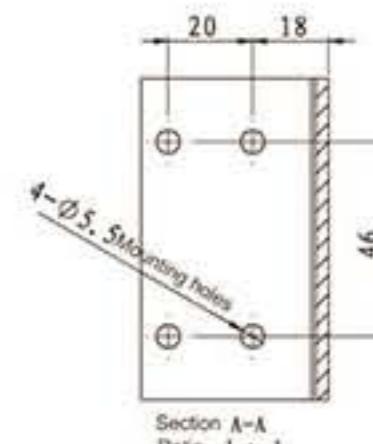
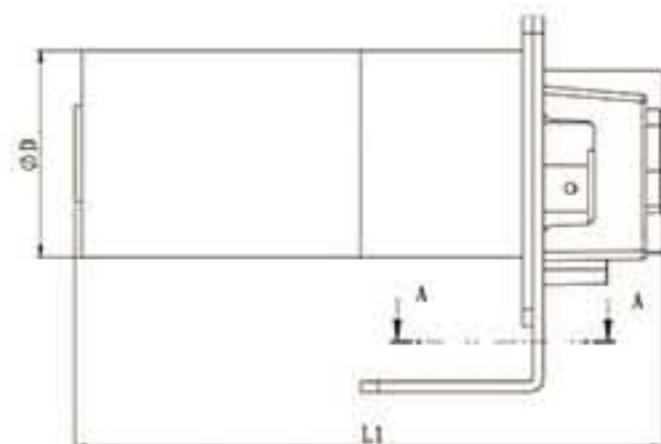
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## OEM Product

### OEM-J Series



### Outline dimensional drawing(Unit: mm)



#### Suitable Pump Head



MC1 ~ MC12



Yz1515x, YZ2515x



SN15, SN25



DZ25-3L



DZ25-6L

### OEM-J

| Product Model | Install Method           | Speed (rpm) | Speed Error | Suitable Power | Motor Type           | Work Environment |
|---------------|--------------------------|-------------|-------------|----------------|----------------------|------------------|
| OEM-J01       | L shape connection plate | 60          |             |                |                      |                  |
| OEM-J02       | L shape connection plate | 100         |             |                |                      |                  |
| OEM-J03       | L shape connection plate | 166         |             |                |                      |                  |
| OEM-J04       | L shape connection plate | 200         |             |                |                      |                  |
| OEM-J05       | L shape connection plate | 300         |             |                |                      |                  |
| OEM-J06       | L shape connection plate | 417         |             |                |                      |                  |
| OEM-J08       | L shape connection plate | 60          |             |                |                      |                  |
| OEM-J09       | L shape connection plate | 100         |             |                |                      |                  |
| OEM-J10       | L shape connection plate | 166         |             |                |                      |                  |
| OEM-J11       | L shape connection plate | 200         | ±10%        | AC 220V/10W    | Ø 60 AC geared motor |                  |
| OEM-J12       | L shape connection plate | 300         |             |                |                      |                  |
| OEM-J13       | L shape connection plate | 417         |             |                |                      |                  |
| OEM-J15       | L shape connection plate | 60          |             |                |                      |                  |
| OEM-J16       | L shape connection plate | 120         |             |                |                      |                  |
| OEM-J17       | L shape connection plate | 300         | ±10%        | AC 220V/15W    | Ø 70 AC geared motor | 0-40°C           |
| OEM-J18       | L shape connection plate | 500         |             |                |                      |                  |
| OEM-J19       | L shape connection plate | 60          |             |                |                      |                  |
| OEM-J20       | L shape connection plate | 120         |             |                |                      |                  |
| OEM-J21       | L shape connection plate | 300         | ±10%        | AC 220V/25W    | Ø 80 AC geared motor |                  |
| OEM-J22       | L shape connection plate | 500         |             | AC 220V/60W    | Ø 90 AC geared motor |                  |

### OEM-JT

| Product Model | Install Method           | Speed Range(rpm) | Speed Error | Suitable Power | Motor Type           | Work Environment |
|---------------|--------------------------|------------------|-------------|----------------|----------------------|------------------|
| OEM-JT01      | L shape connection plate | 0~60             |             |                |                      |                  |
| OEM-JT02      | L shape connection plate | 0~120            |             |                |                      |                  |
| OEM-JT03      | L shape connection plate | 0~300            | ±10%        | AC 220V/15W    | Ø 70 AC geared motor |                  |
| OEM-JT04      | L shape connection plate | 0~500            |             |                |                      |                  |
| OEM-JT05      | L shape connection plate | 0~60             |             |                |                      |                  |
| OEM-JT06      | L shape connection plate | 0~120            |             |                |                      |                  |
| OEM-JT07      | L shape connection plate | 0~300            | ±10%        | AC 220V/25W    | Ø 80 AC geared motor | 0-40°C           |
| OEM-JT08      | L shape connection plate | 0~500            |             |                |                      |                  |
| OEM-JT09      | L shape connection plate | 0~60             |             |                |                      |                  |
| OEM-JT10      | L shape connection plate | 0~120            | ±10%        | AC 220V/60W    | Ø 90 AC geared motor |                  |
| OEM-JT11      | L shape connection plate | 0~300            |             |                |                      |                  |
| OEM-JT12      | L shape connection plate | 0~500            |             |                |                      |                  |

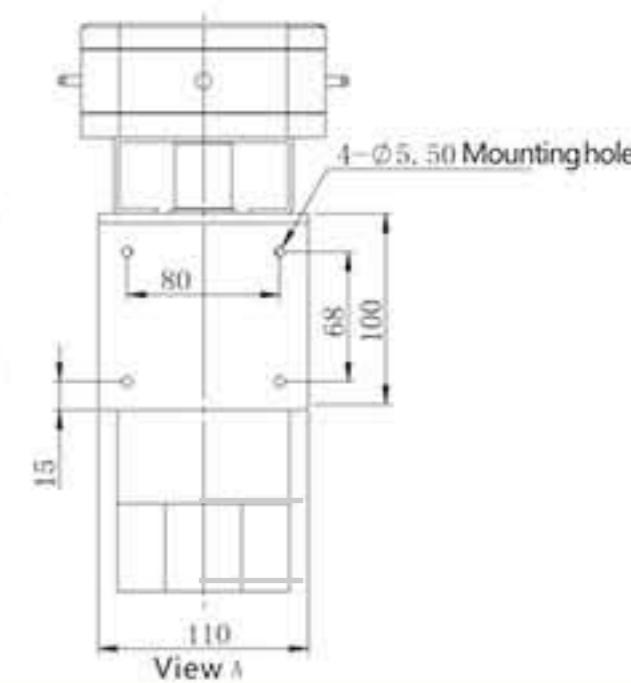
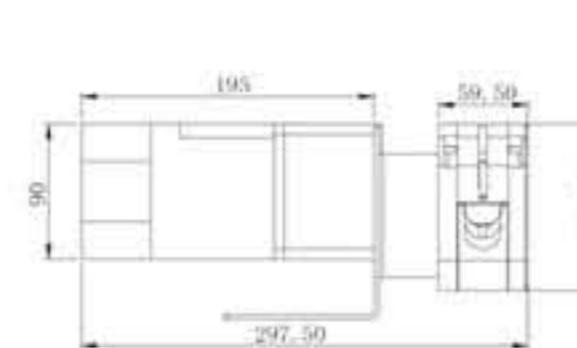
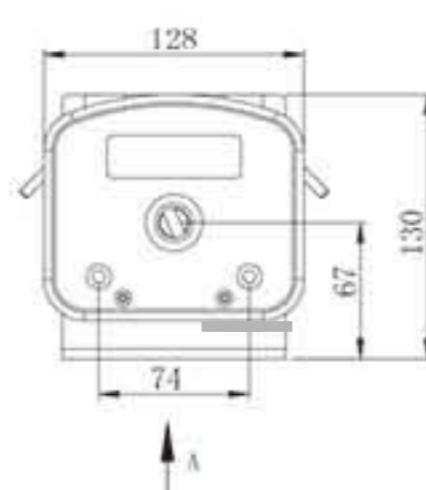
### Tubing & Flow Rate

| Pump Head | Tubing                                    | Flow Rate ( mL/min ) |
|-----------|---|----------------------|
| YZ1515x   | 13", 14", 19", 16", 25", 17", 18"         | < 1900               |
| YZ2515x   | 15", 24"                                  | < 1450               |
| MC        | ID : 0.13-3.17mm Wall thickness : 0.8-1mm | < 45                 |
| SN Series | 14", 16", 24"                             | < 1250               |
| DZ25-3L   | 15", 24", 35", 36"                        | < 3000               |
| DZ25-6L   | 15", 24", 35", 36"                        | < 5000               |

## OEM Product

### OEM-J Series/OEM-JT Series

Outline dimensional drawing(Unit: mm)



#### Technical Specification

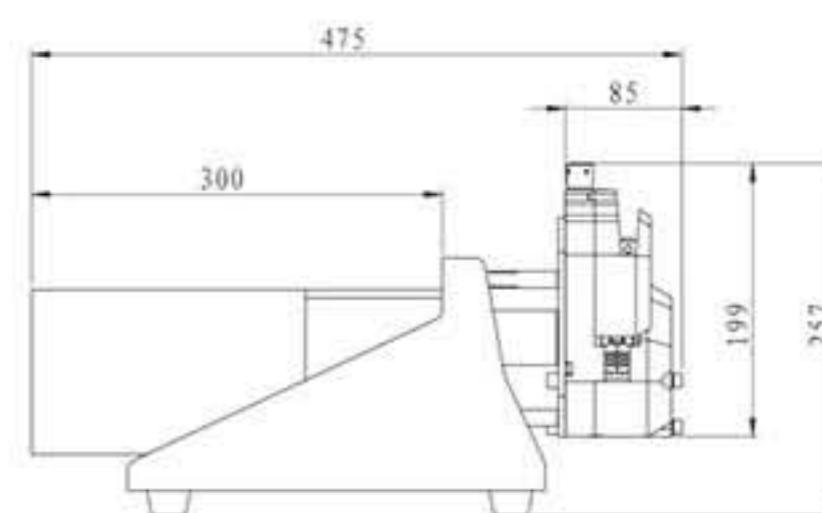
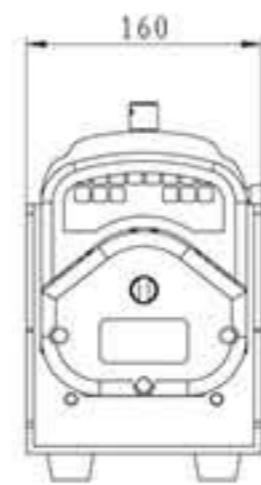
| Pump Head | Pump Head Material | Tubing Cartridge Material | Tubing      |               | (Speed 0~600rpm)<br>Flow Rate (mL/min) | Motor Type  | Weight (kg) |
|-----------|--------------------|---------------------------|-------------|---------------|--|---|-------------|
|           |                    |                           | Tubing Size | ID x Wall(mm) |  |   |             |
| DZ25-6L   | Aluminium alloy    | PP                        | 15"         | 4.8×2.4       | <1800                                  | AC constant torque asynchronous motor or AC velocity regulation motor | 1.86        |
|           |                    |                           | 24"         | 6.4×2.4       | <3300                                  |   |             |
|           |                    |                           | 35"         | 7.9×2.4       | <4800                                  |   |             |
|           |                    |                           | 36"         | 9.6×2.4       | <6000                                  |   |             |

### OEM-J24 Series

#### Product Introduction

OEM-J24 use AC gear motor drive, YZ35 pump head is very easy to install tubing. Suitable for laboratory sampling, filling, ultrafiltration, big flow rate pumping and cement additives. It can be used separately, also can combine with other equipment.

Outline dimensional drawing(Unit: mm)



#### Typical Application

- Printing:Transferring ink, carbon dust, dosing..etc.
- Food & beverage:Transferring batter, fruit juice, additive.

#### Technical Specification

| Pump Head | Tubing | ID x Wall(mm) | mL/r | (Speed 0~600rpm)<br>Flow Rate (mL/min) | Tubing Max.Pressure Mpa | Motor Type | Material&Weight Kg  |
|-----------|--------|---------------|------|--|-------------------------|------------|---|
|           |        |               |      |  | Intermittent            | Continous  | Aluminium alloy PPS   |
| YZ35      | 26"    | 6.4×3.3       | 6.9  | <4200                                  | 0.27                    | 0.20       | AC constant torque asynchronous motor or AC velocity regulation motor |
|           | 73"    | 9.6×3.3       | 12.3 | <7400                                  |                         |            |   |
|           | 82"    | 12.7×3.3      | 20   | <12000                                 |                         | 0.14       | 0.10  |



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## OEM Product

### Planetary Gear Industrial Pump OEM-J25



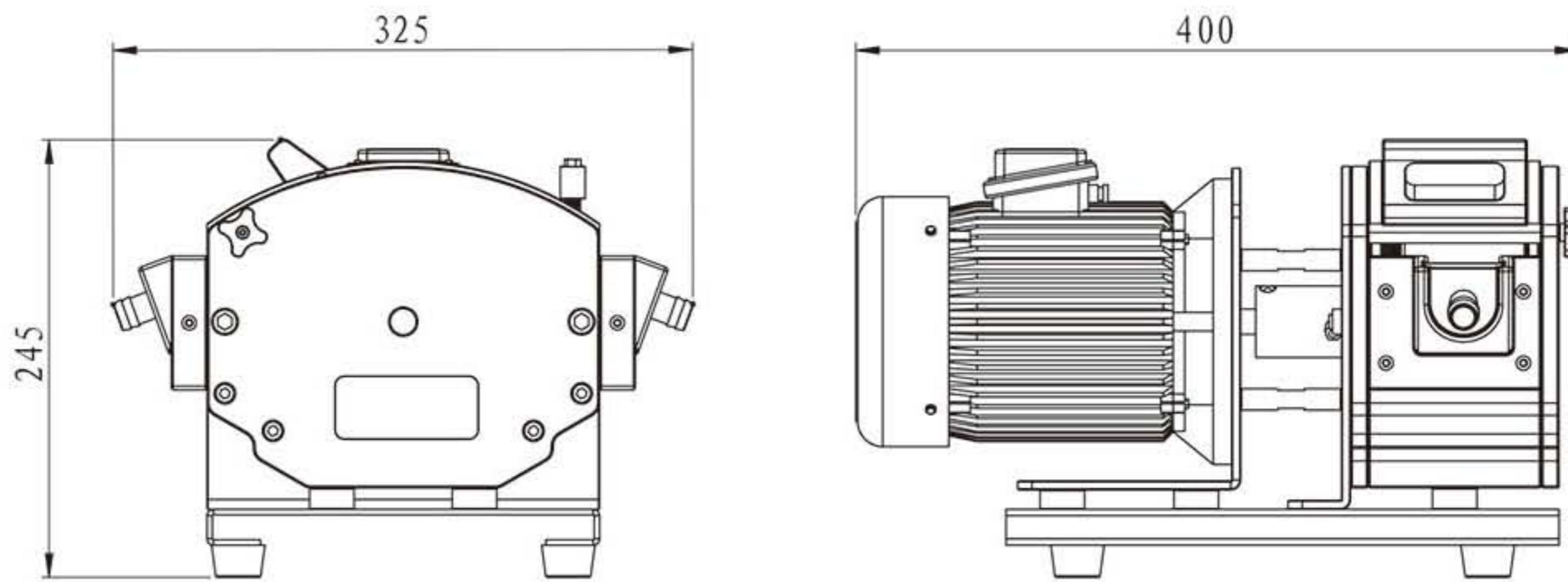
#### Product Introduction

OEM-J25 peristaltic pump head use aluminum alloy shell, 304 stainless steel rollers, long lifetime, corrosion resistance; big flow rate, high pressure, suitable for transfer high viscous 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

#### Dimension drawing (Unit: mm)



#### Product Composition and Flow Rate Range

| Pump Head | Power Supply | Power | Speed (rpm) | Tubing |                        | Flow Rate (L/min) | Pressure (Mpa) |              | Weight |
|-----------|--------------|-------|-------------|--------|------------------------|-------------------|----------------|--------------|--------|
|           |              |       |             | Size   | ID*Wall thickness (mm) |                   | Continuous     | Intermittent |        |
| DZ45      | AC380V/50Hz  | 370W  | 30-300      | 88#    | 12.7*4.8               | 2.6-26            | 0.25           | 0.3          | 30kg   |
|           |              |       |             | 92#    | 25.4*4.8               | 3.6-36            |                |              |        |

## 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 °C.

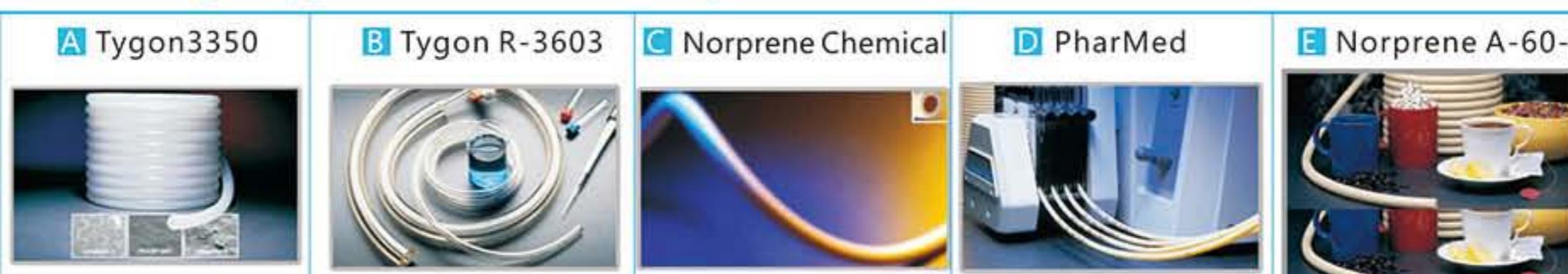
| Micro Flow Rate Tubing      |              |          |           |           |           |           |     |     |     |         |
|-----------------------------|--------------|----------|-----------|-----------|-----------|-----------|-----|-----|-----|---------|
| Tubing Size                 | 0.13×0.86    | 0.5×0.86 | 0.86×0.86 | 1.52×0.86 | 2.06×0.86 | 2.79×0.86 | 1×1 | 2×1 | 3×1 | 2.4×0.8 |
| Tubing cross sections (1:1) | ●            | ●        | ●         | ●         | ○         | ○         | ○   | ○   | ○   | ○       |
| Wall thickness (mm)         |              |          |           | 0.86      |           |           |     | 1.0 |     | 0.8     |
| Inside diameter (mm)        | 0.13         | 0.5      | 0.86      | 1.52      | 2.06      | 2.79      | 1.0 | 2.0 | 3.0 | 2.4     |
| Maximum pressure (Mpa)      | Continuous   |          |           |           | 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 |      |     |
| Inside diameter (mm)        | 0.8          | 1.6 | 2.4 | 3.1  | 4.8  | 6.4  | 7.9  | 4.8  | 6.4 | 7.9  | 9.6 |
| 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 |      | 6.3 |      | 4.8  |      |
| Inside diameter (mm)        | 6.4          | 9.6 | 12.7 | 9.5 | 19   | 12.7 | 25.4 |
| 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 R-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 auto-analysis application.   | General laboratory, food & beverage, biopharmaceutical, analytical instruments.  | Excellent for chemical processing and general industrial applications. Food and beverage applications where extractables are a concern.   | Cell and tissue culture work and pharmaceutical uses. Also good for light-sensitive samples.   | Ideal for the food, dairy and beverage.   |
| Advantages               | Ultra-smooth; minimizes bacterial growth. Good for mild to medium concentration bases, salts and alcohols; odorless, tasteless, and nontoxic. Transparent. | Inexpensive tubing for general lab application. Nonaging, nonoxidizing. Clear for easy flow monitoring. Handles virtually all inorganic chemicals. Low gas permeability. Smooth bore; good for viscous fluids. High dielectric constant.   | Norprene thermoplastic elastomer outer jacket with chemically inert Tygon® 2075 inner bore for excellent chemical resistance. Plasticizer-free to guard against extractables. Long flex life. Opaque beige. | Great for tissue and cell work-nontoxic and nonhemolytic; long service life minimizes risk of fluid exposure; reduces tubing costs and pump downtime. Opaque to UV and visible light to protect light-sensitive fluids. Heat sealable, bondable, and formable. Extremely low gas permeability. | Heat, ozone, and UV light resistant. Nonaging; nonoxidizing; superior acid and alkali resistance. Opaque beige. |
| Application Suitability  | ACIDS<br>ALKALIES<br>ORGANIC SOLVENTS<br>PRESSURE<br>VACUUM<br>VISCOUS FLUIDS<br>STERILE FLUIDS  | GOOD<br>GOOD<br>NO<br>GOOD<br>GOOD<br>EXCELLENT<br>GOOD  |   | ACIDS<br>ALKALIES<br>ORGANIC SOLVENTS<br>PRESSURE<br>VACUUM<br>VISCOUS FLUIDS<br>STERILE FLUIDS  | GOOD<br>GOOD<br>NO<br>GOOD<br>EXCELLENT<br>GOOD<br>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<br>USP Class VI<br>EP 3.1.9.<br>Exceeds 3A standards<br>Manufactured according to GMP.   | FDA 21 CFR 175.300   | None.   | None.  | FDA 21 CFR 177.2600<br>NSF listed ( Standard 51)<br>Manufactured according to GMP.                              |
| Cleaning/ Sterilization  | Ethylene oxide gamma irradiation, or autoclave for 30 min, 15psi (1 bar).  | Unaffected by commercial sanitizers (with recommended procedures). Sterilize with ethylene oxide (ETO) or autoclave. To autoclave: Coil loosely in nonlinting cloth or paper, autoclave at 121°C (250°F), 1KG/cm³ (15psi) for 30 minutes (tubing will appear milky); air dry at max 66°C (150°F) for 2 to 2 ½ hours until clear. | Sterilize with ethylene-oxide(ETO), autoclave or gamma irradiation up to 2.5Mrad. Repeated autoclaving will not affect overall life.  | Autoclave, ethylene oxide, or gamma irradiation.   | Autoclave.  |



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## Peristaltic Pump Tubing

|                          | F Norprene A-60-G  | G Tygon F-4040-A   | H Tygon LFL   | I T Y G O N 2 4 7 5  | 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 ultra-violet (UV) light resistance.  | Fuels and industrial lubricants-gasoline, kerosene, heating oils, cutting compounds, and glycol-based coolants. Resists most hydrocarbons. | General laboratory use, provides longer life with peristaltic tubing pumps.   | Sensitive fluid transfer applications requiring high purity.   | Acid and solvent transfer, high-temperature.  |
| Advantages               | Best choice for vacuum/pressure applications. Offers longest life with good flow consistency. Heat and ambient ozone resistant. Good resistance to acids/alkalies. Black color hides dirt and dust. Heat sealable, nonaging, and nonoxidizing. High dielectric constant. | Resists embrittlement and swelling, ozone-and UV-resistant, with low-extractability. Translucent yellow.                                   | Longest life of all Tygon® peristaltic tubing (1000hrs). Nonaging, nonoxidizing. Clear for easy flow monitoring. Broad chemical resistance; low gas permeability. Smooth bore. Good for viscous fluids. High dielectric constant. | Plasticizer free, smooth inner surface (inhibits particulate buildup and bacterial growth), safely disposed of through incineration and nontoxic. Transparent. | The most chemical resistant tubing. Registand to corrosives, solvents, and oils at elevated temperatures. Low gas permeability.                   |
| Application Suitability  | ACIDS GOOD<br>ALKALIES GOOD<br>ORGANIC SOLVENTS NO<br>PRESSURE EXCELLENT<br>VACUUM EXCELLENT<br>VISCOUS FLUIDS EXCELLENT<br>STERILE FLUIDS NO  | _____  | ACIDS GOOD<br>ALKALIES GOOD<br>ORGANIC SOLVENTS NO<br>PRESSURE GOOD<br>VACUUM GOOD<br>VISCOUS FLUIDS EXCELLENT<br>STERILE FLUIDS POOR   | _____  | ACIDS EXCELLENT<br>ALKALIES EXCELLENT<br>ORGANIC SOLVENTS EXCELLENT<br>PRESSURE GOOD<br>VACUUM GOOD<br>VISCOUS FLUIDS GOOD<br>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/cm <sup>2</sup> ), 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.   |

## Peristaltic Pump Accessories

### A Filling nozzle



When transferring or dispensing liquid reduce splashing and dropping off maximumly, most out of the splash reduction.

Dimensional tolerance  $\pm 0.05\%$ , assure reproducibility.

| Name           | Material            | Tube                                |
|----------------|---------------------|-------------------------------------|
| Filling nozzle | 304 stainless steel | 13#/14#, 19#, 16#, 25#/15#, 17#/24# |

### B 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# |

### C Foot pedal switch



Used for the drive without in hand, all pumps with 1.8m power line.

### D Optical fiber sensors



Optical fiber sensors with the feature of anti-electromagnetic interference and atomic radiation interference, mechanical property with thin diameter, soft, light weight; electric property with insulation, noninductivity; chemical properties with water resistance, corrosion resistance, high temperature resistance, can be connected with filling system, as input signal of missing bottles.

### E Benchtop tubing cutter

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



### E Hall sensor



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

### F HMI



HMI true color touch screen. Our company supply standard MODBUS communication protocol, can connect with various HMI products perfectly. It has mature system for supporting industrial equipment, handle well, strong logical function, widely used for various industrial control occasion.

### H Tube connector



a Straight tube connector



b "Y" tube connector



c Tee tube connector

| Tube            |
|-----------------|
| 2.5×1; 3×1; 16# |

| Tube     |
|----------|
| 2×1; 19# |

| Diameter | inch | mm   | Tube               |
|----------|------|------|--------------------|
| 1/16"    | 1.6  | 13   | 14"                |
| 1/8"     | 3.2  | 16   |                    |
| 3/16"    | 4.8  | 15   | 25"                |
| 1/4"     | 6.4  | 17   | 24"                |
| 3/8"     | 9.6  | 18   | 35" 36"<br>73" 86" |
| 1/2"     | 12.7 | 25.4 | 82" 88"<br>92"     |



d Reducer tube connector

| Diameter1 | inch | mm | Diameter2 | inch | mm | Tube1   | Tube2                  |
|-----------|------|----|-----------|------|----|---------|------------------------|
| 1/16"     | 1.6  | 13 | 2.0"      | 3.2  | 20 | 13" 14" | 16"                    |
| 1/8"      | 3.2  | 16 | 2.0"      | 3.2  | 20 | 16"     | 15" 25"                |
| 3/16"     | 4.8  | 15 | 2.0"      | 3.2  | 20 | 25"     | 17" 24"                |
| 1/4"      | 6.4  | 17 | 2.0"      | 3.2  | 20 | 24"     | 18" 35" 36"<br>73" 86" |
| 3/8"      | 9.6  | 25 | 2.0"      | 3.2  | 20 | 36"     | 82" 88"                |
| 1/2"      | 12.7 | 32 | 2.0"      | 3.2  | 20 | 88"     | 92"                    |

### I Support stand



## Gear Pump

LabGV, LabGF, LabGN, LabGM



### Features

- | With ABS engineering plastic housing, streamlined body design.
- | Brushless DC motor with high efficiency and maintenance free features.
- | The pump head is compact type, stainless steel material, driven by magnetic, low noise, no pulsation.
- | Suitable for transferring viscous, high temperature and high pressure liquid.

### Model Number

- | LabGN, LabGV, LabGF, LabGM

### Typical Application

- | Mainly for laboratory.

### Technical Specifications

|  |  |                         |  |
|--|--|-------------------------|--|
| Speed range                                | 100-3000 rpm   | Communication interface | RS232, RS485 support MODBUS protocol(RTU mode)                     |
| Testing time range                         | 0.1s-9999h   | Power supply            | AC 220V±10% 50Hz/60Hz(standard)<br>AC 110V±10% 50Hz/60Hz(optional) |
| Outlet pressure                            | ≤0.5Mpa  | Drive dimension         | 261.4×157.3×236.9mm  |
| Motor type                                 | DC brushless motor   | Drive weight            | 4.40kg   |
| Can transfer liquid which include granules | Granule ID ≤ 20μm  | Power consumption       | <100W  |
| Can transfer viscous liquid                | Viscosity≤200cSt   | Condition temperature   | 0-40°C   |
| External speed control signal              | 0-5V,0-10V,4-20mA for option   | Relative humidity       | <80%   |
| Start/stop                                 | Passive switch signal, such as foot pedal<br>Active switch signal: 5V,12V,24V for option | IP rate                 | IP31   |

| Drive | Model                       | Display                               | Operating mode                   | Function   | Motor Status Output Interface |
|-------|-----------------------------|---------------------------------------|----------------------------------|--|-------------------------------|
| LabGV | Intelligent flow rate type  | 4.3"-industrial-true color LCD Screen | Touch screen + Mechanical keypad | Flow rate/motor speed display, Fixed time and volume, Fixed volume measurement, Timer start and stop functions.                | open-collector output         |
| LabGF | Intelligent dispensing type | 4.3"-industrial-true color LCD Screen | Touch screen + Mechanical keypad | Input dispensing volume, dispensing time, copy numbers, for accuracy filling   | open-collector output         |
| LabGN | Standard type               | 3.2"LCD Screen                        | Mechanical keypad                | Motor speed and setting datas display in the same screen, used for common transferring, support simple dispensing(0.1s-9999h ) | open-collector output         |
| LabGM | Basic type                  | 4 digital LED                         | Mechanical keypad                | Display motor speed, used for common transferring, support for simple dispensing (0.5s-999s)                                   | No                            |

| Drive | Pump Head      | Gear Material | Flow Rate mL/min | Output Rated Pressure(Mpa) | Fluid Temperature |
|-------|----------------|---------------|------------------|----------------------------|-------------------|
| LabGV | MG204XD0PT0000 | PEEK          | 27.7~830         | 0.5                        | -30~100(°C)       |
|       | MG204XD0TT0000 | PTFE          | 27.7~830         |                            | -30~50(°C)        |
|       | MG209XD0PT0000 | PEEK          | 56.67~1700       |                            | -30~100(°C)       |
|       | MG209XD0TT0000 | PTFE          | 56.67~1700       |                            | -30~50(°C)        |
|       | MG213XD0PT0000 | PEEK          | 80~2400          |                            | -30~100(°C)       |
|       | MG213XD0TT0000 | PTFE          | 80~2400          |                            | -30~50(°C)        |



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## Syringe Pump



SPLab02-Dual channel



SPLab10-10 channels

### Model Number

- | SPLab01(1 channel)
- | SPLab02(2 channels)
- | SPLab04(4 channels)
- | SPLab06(6 channels)
- | SPLab08(8 channels)
- | SPLab10(10 channels)
- | SPLab12(12 channels)



SPLab02-LU

### Features

The syringe pump with infusion/withdrawal mode, stainless steel body, and large-screen chromatic LCD is easy to operate. It can install and fix different types of injectors or syringes in the same time, and it is suitable for transferring micro flow rates with high precision (non-medical).

### Technical Specifications

|                               |   |   |   |                          |   |    |    |
|-------------------------------|---|---|---|--------------------------|---|----|----|
| Working mode(6 kinds)         | Infusion, withdrawal, infusion/withdrawal, withdrawal/infusion, continuous, additional mode (infusion/withdrawal, then exclude bubble). |   |   |                          |   |    |    |
| Channel number                | 1   | 2 | 4 | 6                        | 8 | 10 | 12 |
| Syringe size                  | 10µL-100mL  |   |   | 10µL-10mL                |   |    |    |
| Flow rate                     | 0.001µL/min-127mL/min   |   |   | 0.001µL/min-21.997mL/min |   |    |    |
| Infusion volume per microstep | 0.078µm   |   |   |                          |   |    |    |
| Min. linear rate              | 5µm/min   |   |   |                          |   |    |    |
| Max. linear rate              | 132mm/min   |   |   |                          |   |    |    |
| Min. step rate                | 0.035ms/Mirco step  |   |   |                          |   |    |    |
| Max. step rate                | 0.937sec/Mirco step   |   |   |                          |   |    |    |
| Max.linear force              | 10kgf   |   |   |                          |   |    |    |
| Advance per microstep         | 0.078µm   |   |   |                          |   |    |    |
| Accuracy                      | ≤±0.5%  |   |   |                          |   |    |    |
| Operating mode                | Rotary encoded switch and membrane keypad   |   |   |                          |   |    |    |
| Display mode                  | 320×240TFT-LCD  |   |   |                          |   |    |    |
| Power-off memory              | Display the previous data parameter after power supply again  |   |   |                          |   |    |    |
| Power supply                  | AC 220V±10%(standard),AC 110V±10%(optional)   |   |   |                          |   |    |    |
| Operating condition           | Temperature 0-40°C, Relative humidity <80%  |   |   |                          |   |    |    |



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## Syringe Pump

SPLab01-E



32.4 KV High Voltage Test



### Typical Application

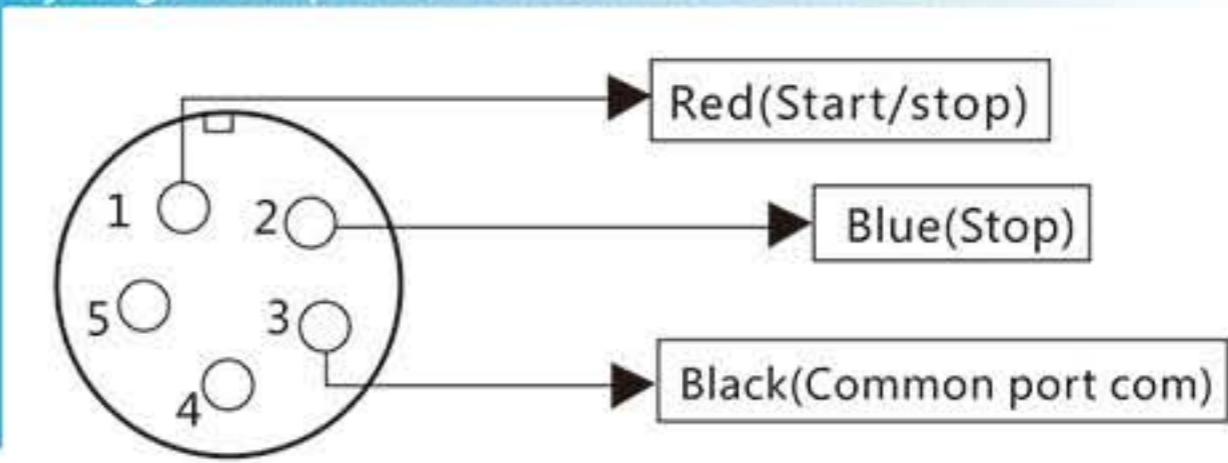
| Special for high voltage electrostatic spinning

| Syringe | Inside Diameter(mm) | Flow Rate(µL/min-mL/min) |                 |
|---------|---------------------|--------------------------|-----------------|
|         |                     | SPLab01/SPLab02          | SPLab03-SPLab10 |
| 50µL    | 1.03                | 0.004~0.110              | 0.004~0.110     |
| 1mL     | 4.61                | 0.083~2.203              | 0.083~2.203     |
| 2.5mL   | 7.28                | 0.208~5.492              | 0.208~5.492     |
| 5 mL    | 10.30               | 0.417~10.993             | 0.417~10.993    |
| 10 mL   | 14.57               | 0.834~21.997             | 0.834~21.997    |
| 25 mL   | 23.03               | 2.083~54.958             | —               |
| 50 mL   | 32.57               | 4.166~109.921            | —               |
| 60 mL   | 32.57               | 4.166~108.310            | —               |

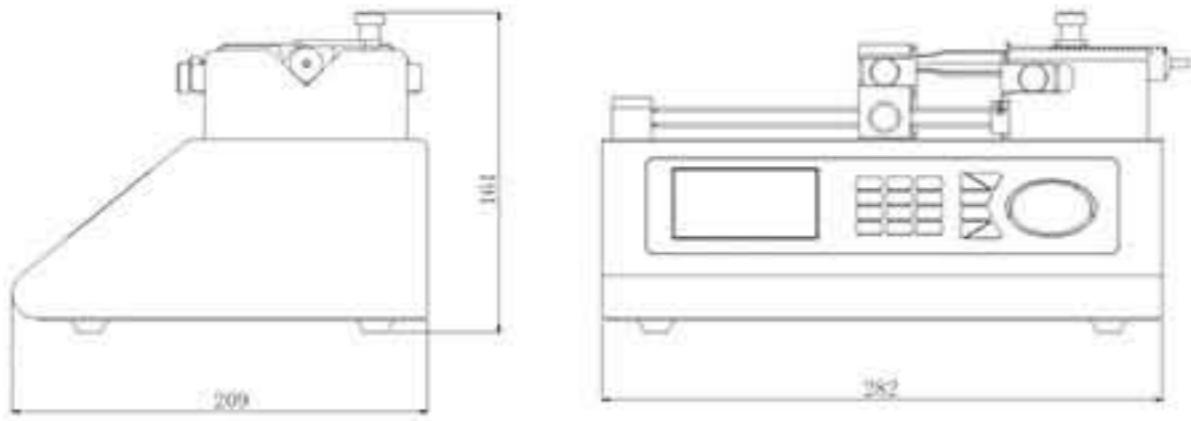
### Installation Sizes Drawing (Unit: mm)

| Channel No. | 4   | 6   | 8   | 10  | 12  |
|-------------|-----|-----|-----|-----|-----|
| L           | 145 | 190 | 235 | 280 | 325 |

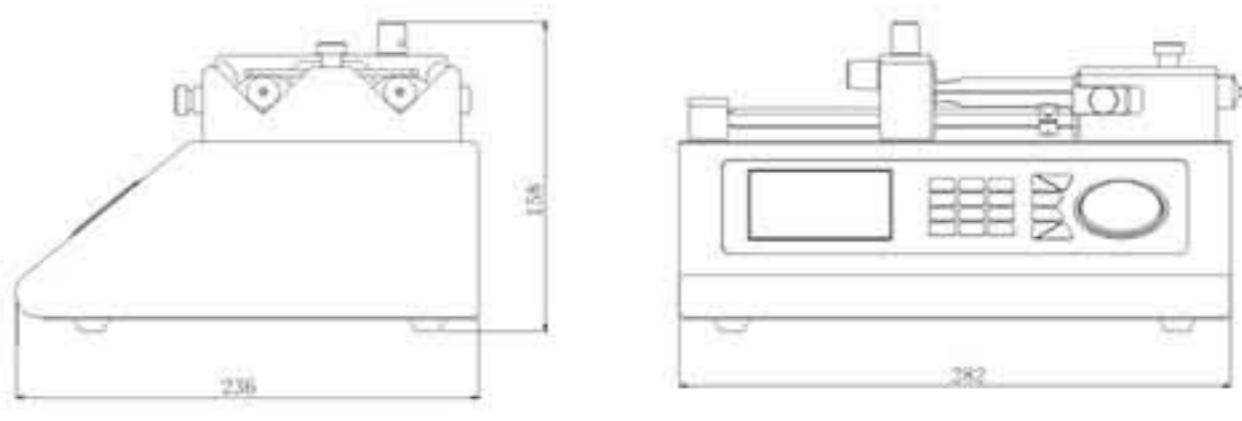
Syringe Pump External Control Schematic



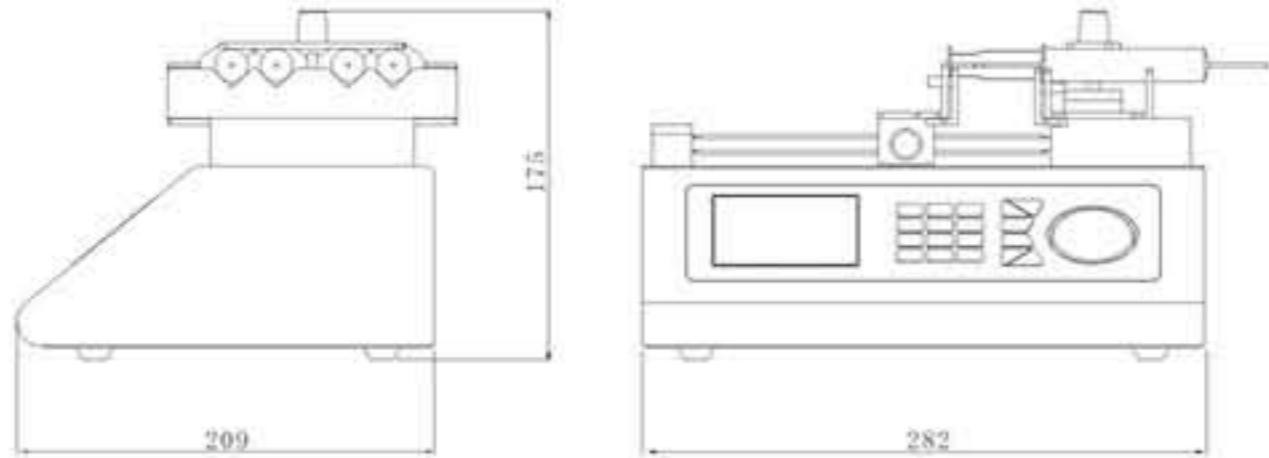
SPLab01



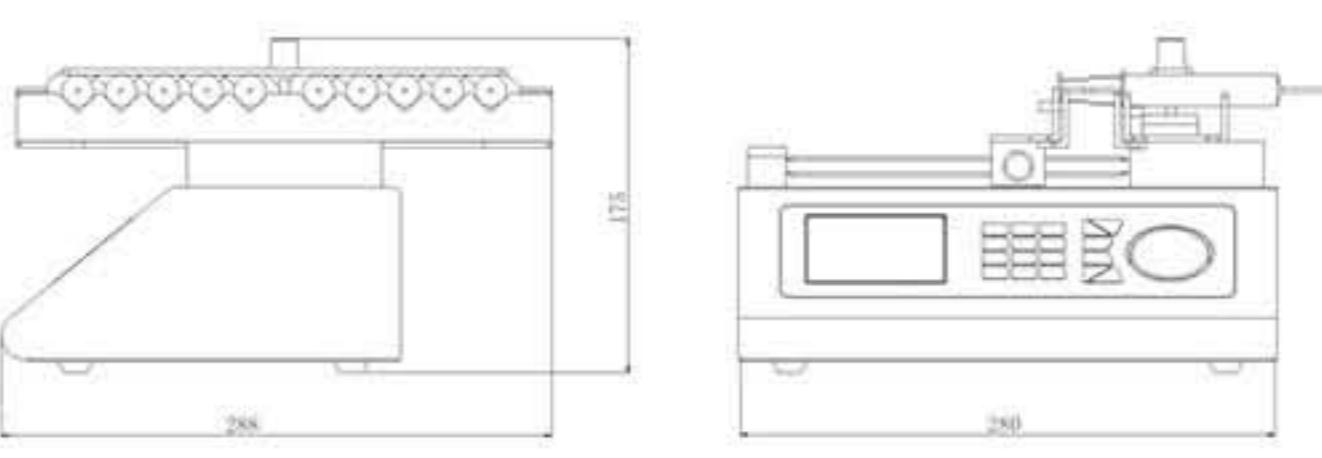
SPLab02



SPLab04



SPLab10

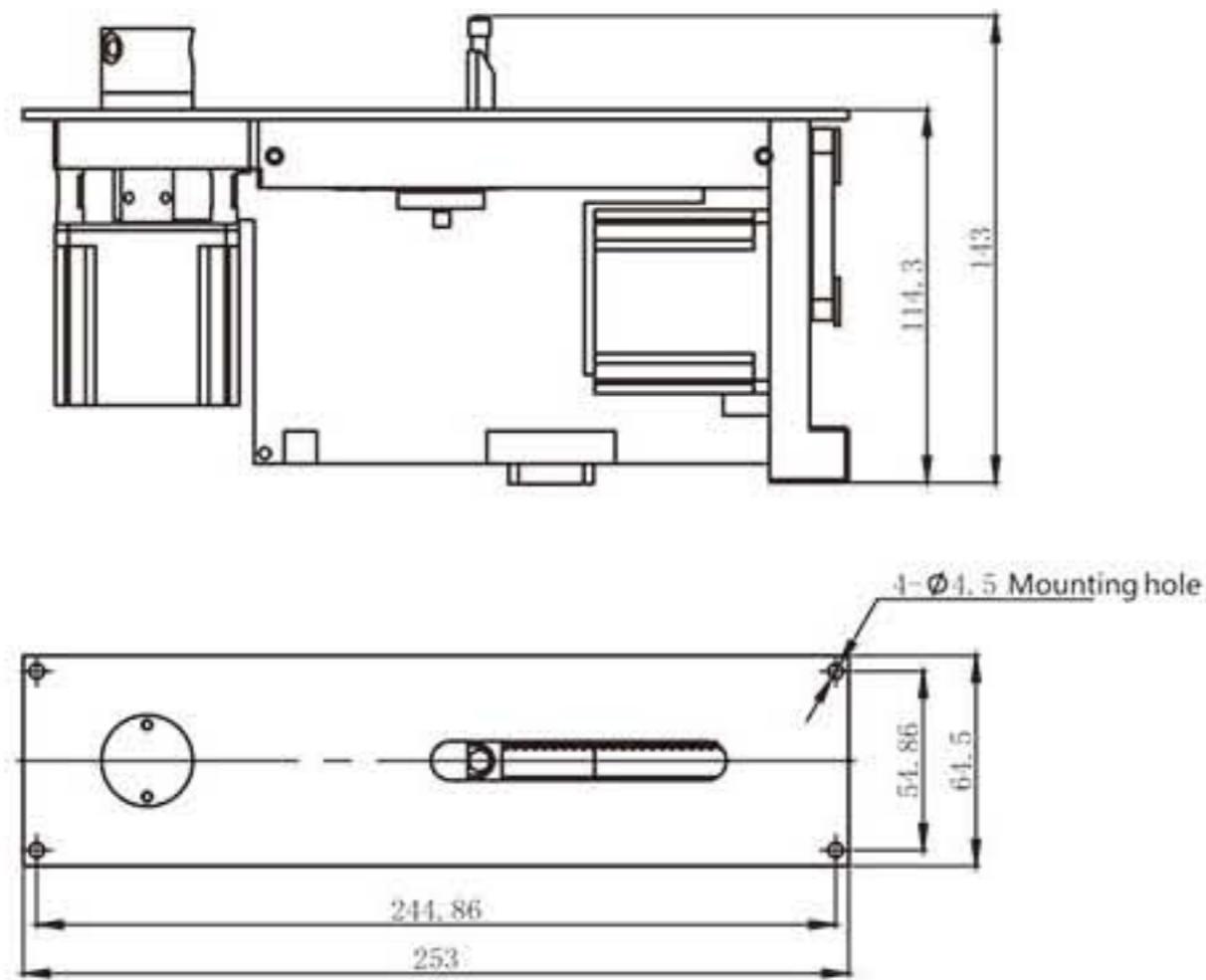


## Industrial Syringe Pump

**SP60-1A**



### Installation Sizes Drawing (Unit: mm)



### Product Introduction

The SP60-1A Pump is a fully programmable, open frame, precision liquid handling pump module, designed for applications in the 5 µL to 25 mL range. It is controlled by an external computer or microprocessor and automates pipetting, diluting, and dispensing functions.

### Model Number

| SP60-1A

### Features

Unmatched application flexibility:  
Fully programmable;  
Can be controlled by an external computer or microprocessor;  
Available with a range of syringe sizes and valve configurations.

Faster product development:  
Can speed up and simplify validation of your instruments;  
Robust performance: optical encoder for step loss detection;  
full control of start speed, top speed and cut-off speeds;  
Programmable ramp-up and ramp-down rates;  
Planned maintenance replacement of valves and syringes.

Straight forward integration:  
RS-232/RS-485 communication interfaces;  
Up to fifteen SP60-1A pumps can be connected together;  
Two digital inputs and three outputs for TTL level signals;  
Used for synchronization with external devices.

### Technical Specifications

|                       |  |                         |   |
|-----------------------|--|-------------------------|---|
| Precision             | Repetition error ≤ 0.05 % CV at full stroke<br>(500 µL syringe and above),<br>(DI water at room temperature) | Valve switch time       | ≤ 250 ms between adjacent ports   |
| Accuracy              | Error ≤ 0.5 % at full stroke (DI water<br>at room temperature)   | Valves type             | 3-port 120°(Standard)   |
| Plunger drive         | Stepper motor driven lead screw with<br>optical encoder for step loss detection<br>and home flag             | Tubing fittings         | 1/4 - 28" or M6   |
| Plunger travel        | 60 mm(6000 steps or 48000 steps)   | Syringe fittings        | 1/4 - 28"   |
| Plunger speed         | 0.00625mm/s--50mm/s  | Power requirements      | 24 VDC ± 10 %/2.0 A (peak)  |
| Run time per stroke   | 1.2 seconds-160 minutes  | Communication interface | RS-232, RS-485  |
| Speed resolution      | 0.01mm or 0.00125mm  | Baud rate               | 9600 or 38400 (RS-232 and RS-485)   |
| Syringes              | Sizes 50 µL, 100 µL, 250 µL, 500 µL,<br>1.0 mL, 2.5 mL, 5.0 mL, 10 mL, 25 mL                                 | Addressing              | Up to 15 individual addresses available<br>(DIP switch)                     |
| Barrel material       | Borosilicate glass   | Input                   | Two inputs with 4.7k pull-ups, 5V HCMOS.<br>For restart the paused instruct |
| Plunger rod material  | Stainless steel  | Output                  | Three outputs, 5V HCMOS,For synchronous<br>external devices                 |
| Plunger seal material | PTFE or UHMWPE (most sizes)  | Operating temperature   | 15°C--40°C  |
|                       |  | Operating humidity      | 20-80 % RH at 40°C  |
|                       |  | Storage temperature     | -20°C--65°C   |



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