2022

SHENCHEN

Shenchen Pump

ISO9001

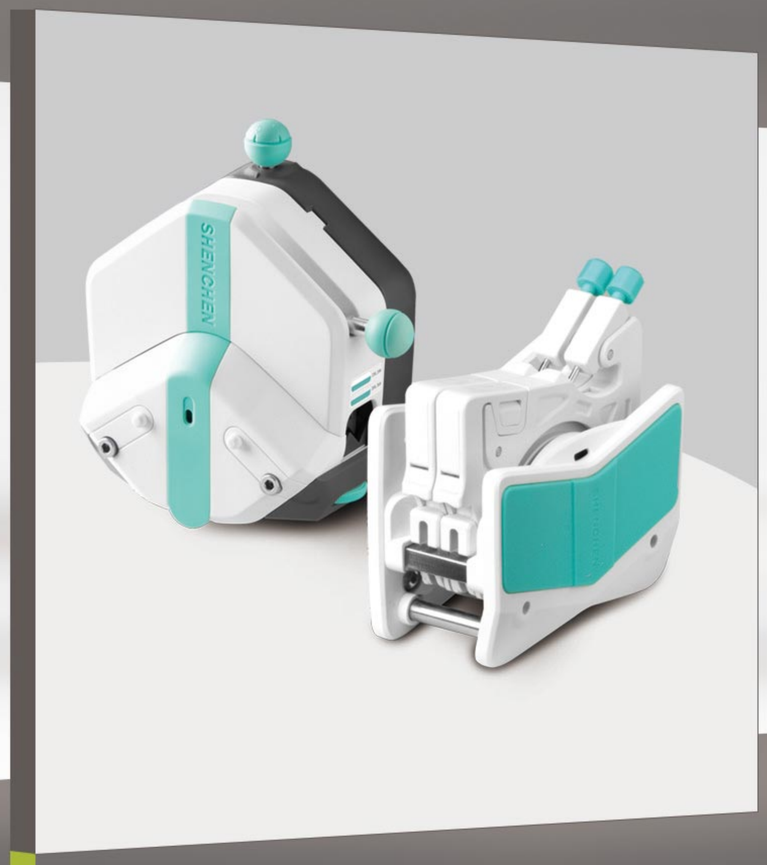
Exported to **106** *countries*

3 *years warranty*

PERISTALTIC PUMP

Baoding Shenchen Precision Pump Co.,Ltd

EXPORTED TO 106 COU



2016–2022

Baoding Peristaltic Pump Engineering Technology Research Center was established in Shenchen, Passed ISO9001 quality system certification, peristaltic pump research and development center level: A level,

Successfully launched a new generation of easy load type pump heads and a new generation of multichannel pump heads, Exported to 106 countries.

2010–2015

Successfully registered the "Shenchen" trademark,

Obtained CE certification issued by European Union,

Launched intelligent filling system CF600 and DF600 ,

Launched LabV and LabF series intelligent peristaltic pump.

2007–2009

Successfully launched MC series pump head, Minipump series compact type pump head, SN series standard pump head, N series standard type peristaltic pump.

河北省工业企业研发机构证书

证书号 2019A3785

企 业 名 称：保定申辰泵业有限公司

研发机构名称：蠕动泵研发中心

类　　型：自建（A级）

认定单位：河北省工业和信息化厅

发证机关：河北省工业和信息化厅

日　　期：2019年12月31日

高新技术企业

证书

企业名称：保定申辰泵业有限公司　　证书编号：GR201713000172

发证时间：2017年07月21日　　有 效 期：三年

批准机关：

发明专利证书

发 明 名 称：一种高精度自动灌装装置

发 明 人：孙振；贾培；唐晓鹏；李明杰

专 利 号：ZL 2017 1 1043271.5

专利申请日：2017年10月31日

专 利 权 人：保定申辰泵业有限公司

地　　址：072450 河北省保定市复兴东路999号龙点工业园2号楼103厂房

授权公告日：2019年09月10日　　授权公告号：CN 107424282 B

局长　申长雨

发明专利证书

发 明 名 称：新型蠕动泵的磁连接结构

发 明 人：唐晓鹏

专 利 号：ZL 2015 1 0489056.1

专利申请日：2015年08月11日

专 利 权 人：保定申辰泵业有限公司

地　　址：071000 河北省保定市北市区复兴东路保定龙点中小企业创业基地2号楼103厂房

授权公告日：2019年02月15日　　授权公告号：CN 106452002 B

局长　申长雨

SHENCHEN

Baoding Shenchen Precision Pump Co., Ltd. is a high-tech enterprise, specialized in R&D, manufacturer and sales of peristaltic pump, OEM pump and pump head. We also provide complete fluid solution according with customers's requirements.

Shenchen team is a high-qualified, young and innovative team, which has research engineer, application engineer, professional sales and service engineer. With rich technical force, excellent technological process and outstanding product quality, Shenchen gets 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 106 countries.

- Shenchen has **4** invention patents,
- **34** utility model patents,
- **30** appearance design patents,
- **3** international patents.


发明专利证书


中华人民共和国国家版权局
计算机软件著作权登记证书

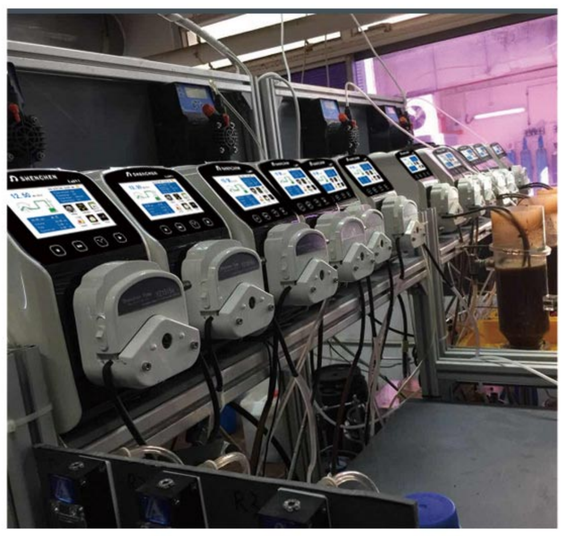

Verification of Compliance


CEPROM ® S.A.
CERTIFICATE OF CONFORMITY


质量管理体系认证证书

APPLICATION

Laboratory chemical dosing



Analytical instrument sampling

Waste water treatment

Chromatography

Cosmetic filling

Pharmaceutical filling

Food & beverage filling

Diagnostic reagents filling

SHENCHEN

Pump Head Flow Rate

 MC Series	0.1~150rpm	0.000166~65mL/min
 AMC Series	0.1~150rpm	0.0002~65.17mL/min
 MD1	0.1~200rpm	0.007~71.2mL/min
 MicroPump	0.1~350rpm	0.004~149.23mL/min
 MiniPump	0.1~300rpm	0.0024~190mL/min
 HandyPump	0.1~300rpm	0.0033~365.69mL/min
 KT15	0.1~600rpm	0.0033~560.04mL/min
 UD15	0.1~350rpm	0.08~930mL/min
 SN Series	0.1~600rpm	0.024~1500mL/min
 YZ Series	0.1~600rpm	0.07~2280mL/min
 EasyPump Series	0.1~600rpm	0.0053~3100mL/min
 DY Series	0.1~350rpm	0.01~4340mL/min
 DZ25 Series	0.1~600rpm	0.3~6000mL/min
 UC25	0.1~600rpm	0.0875~6663mL/min
 YZ35	0.1~600rpm	0.69~12000mL/min
 DZ45	30~350rpm	1.0~28.15L/min

NEW New Generation

multichannel type pump head

Features:

The elastic positioning mechanism enables users remove and install cartridge with one hand.

The elastic pressure tube design effectively extends the life of the tube.

Stepless adjustment of the tube pressure gap, effectively improving the flow rate accuracy between channels.

The mute design of the roller assembly realizes low noise and high speed operation.

NEW Product

New Generation

easy load type

pump head

Features:

The tube clamp linkage mechanism makes it more convenient to install the tube.

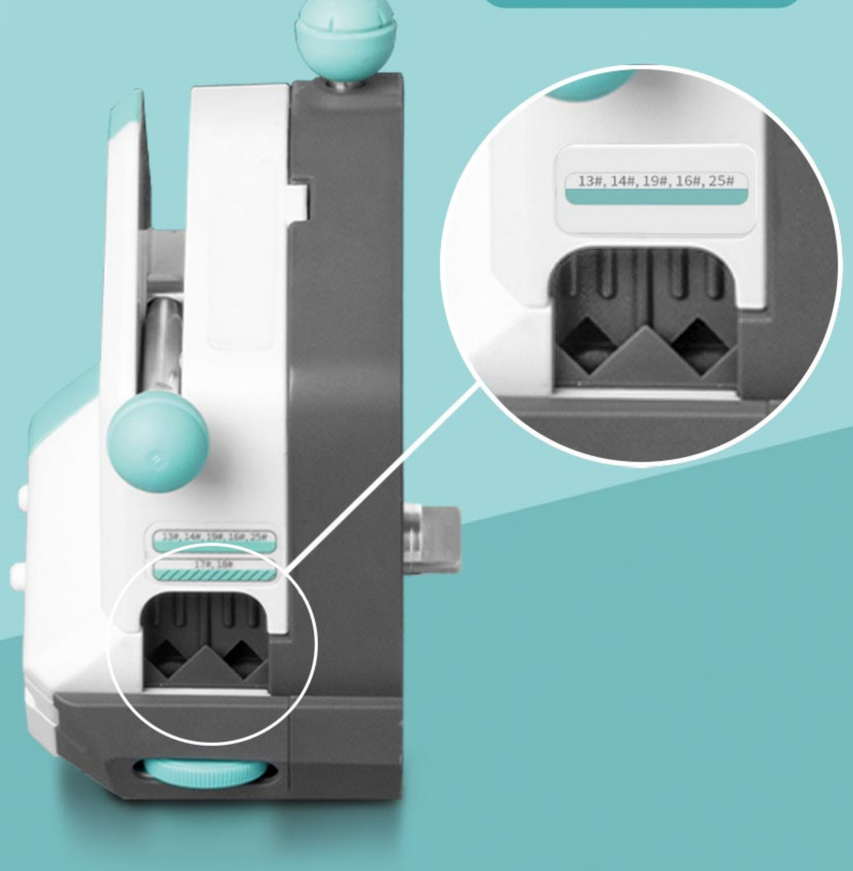
The rubbing wheel adjustment mechanism can easily fix different size tube.

The lever assist mechanism makes the operation more labor-saving.

The tube pressure gap fine-tuning mechanism can adjust the pressure, extend the life of the tube and improve the dispensing accuracy.

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

Dual channel

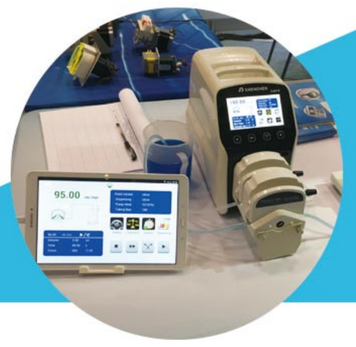


Single channel

DIRECTORY

COMPANY
APPLICATION
NEW PRODUCT
PRODUCTS





What is OCM

OCM (Original Customized Manufacture)

- Peristaltic pump core technology
- One-to-one customization of services
- User–defined work mode

PROBLEMS

Conventional products can’t be solved

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

Various combinations

Time and labor costing | Error-prone

How to solve the problems?

OCM provides customized solutions for you.

1 Analyze problem 2 Design solution 3 Design OCM product

Our advantages

CUSTOMIZED	Professional engineer offer one to one customized service.
EXPERIENCE	15 years of fluid transmission.
TECHNOLOGY	Peristaltic pump technology research center.

OCM Application

01 Medical Industry

Medical industry: automatic liquid mixing system, intelligent proportional mixing of different liquids, the system can intelligently detect the liquid level of the barrel. Through the analysis of the liquid state of each barrel , control the start and stop of the peristaltic pump, open and close OF solenoid valve , so as to realize the automation.

02 Printing and Dyeing Industry

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

03 Pharmaceutical Industry

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

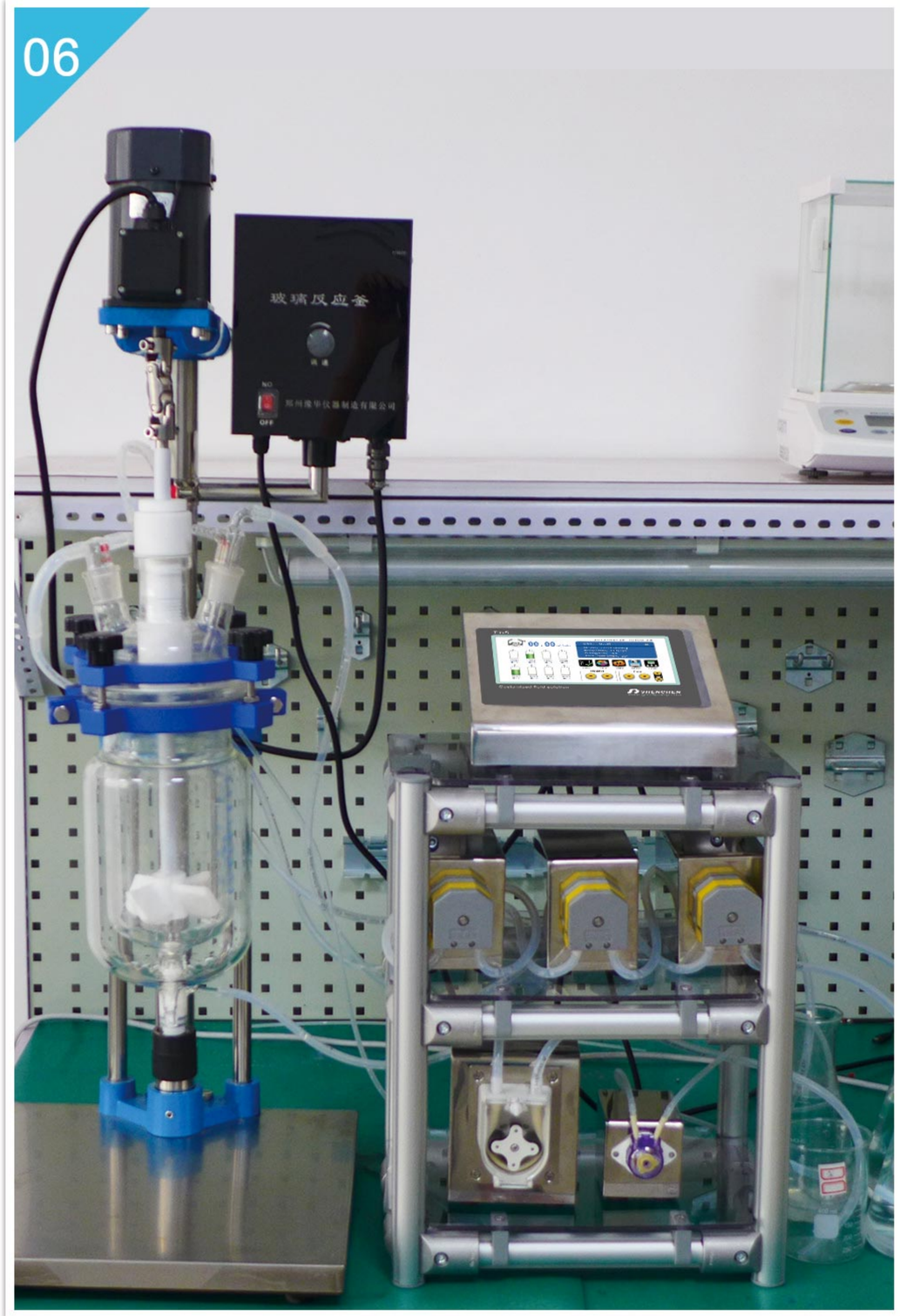
04 Reagent Dispensing

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

05 Fermentor Supporting

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

OCM Application



06 Bio-pharmaceutical

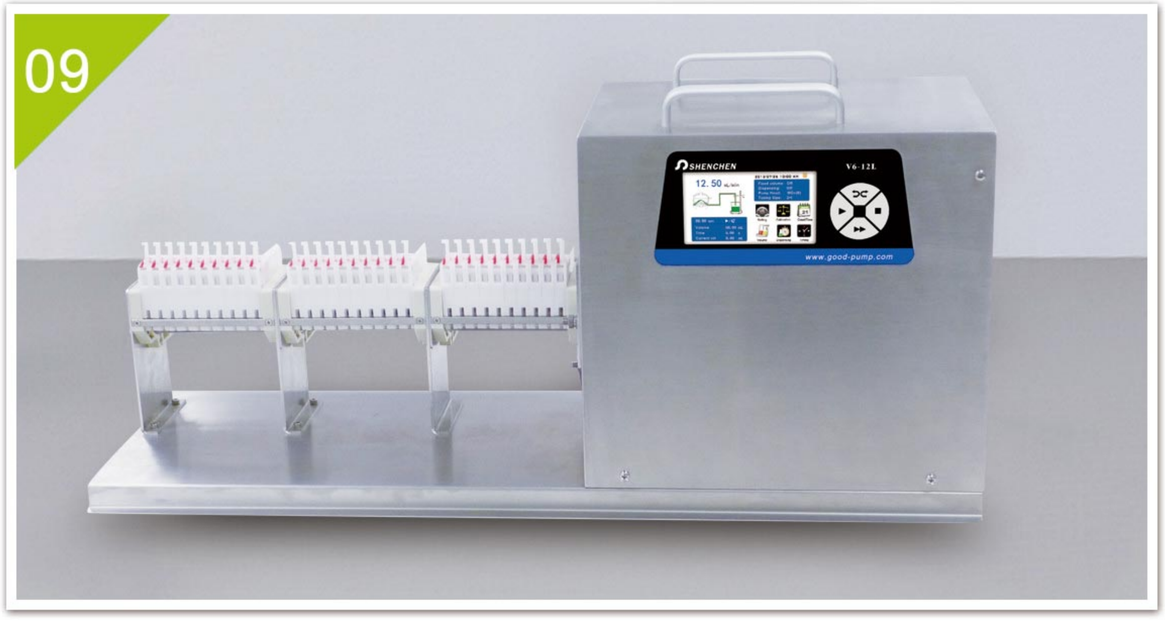
Work with reactor or fermentation tank,the OCM system add different liquids with proportion and order into reactor.
Together accomplish adding liquid, mixing, reaction,dispensing,waste discharge and washing function.

07 Research Laboratory

Customized OCM system, one controller with different pump heads and one pneumatic pump, with foot pedal switch control the pump start/stop.

08 Food Industry

Suitable for high temperature and high humidity working environment.
High filling accuracy, the errors between each channels is ±3%， non-pollution filling.
Friendly operation interface, easy operation.
Reversible, priming function.



09 Ink Cartridge Filling

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

Nucleic acid detection reagent dispensing system

INTRODUCTION

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

FEATURES

8 different reagents are packed in unequal or equal amounts. 1

Up to 0.5% packing accuracy. 2

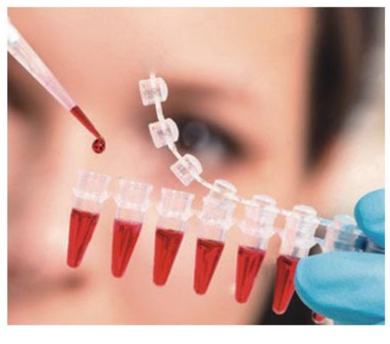
7 inch industrial true color LCD touch screen operation, man-machine interface is friendly, can store more than a group of commonly used work mode, simple and convenient. 3

The utility model has two-way quick liquid filling function, can be used for bidirectional operation and is convenient for cleaning the hose, and can quickly fill the reagent in the preparation stage or the packing line before and after the packing. 4

Mechanical arm operation program can be edited to apply different size, different shape of reagent box, accurate positioning, production efficiency. 5

APPLICATION

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



Gene testing reagent packing

Microporous plate packing

Reagent box packing

Micro reagent packing

Biological reagent packing

Patent No: ZL201711043271.5; ZL201721422976.3

Programmable Filling System

3 years warranty

PDS

Introduction

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

Four working modes

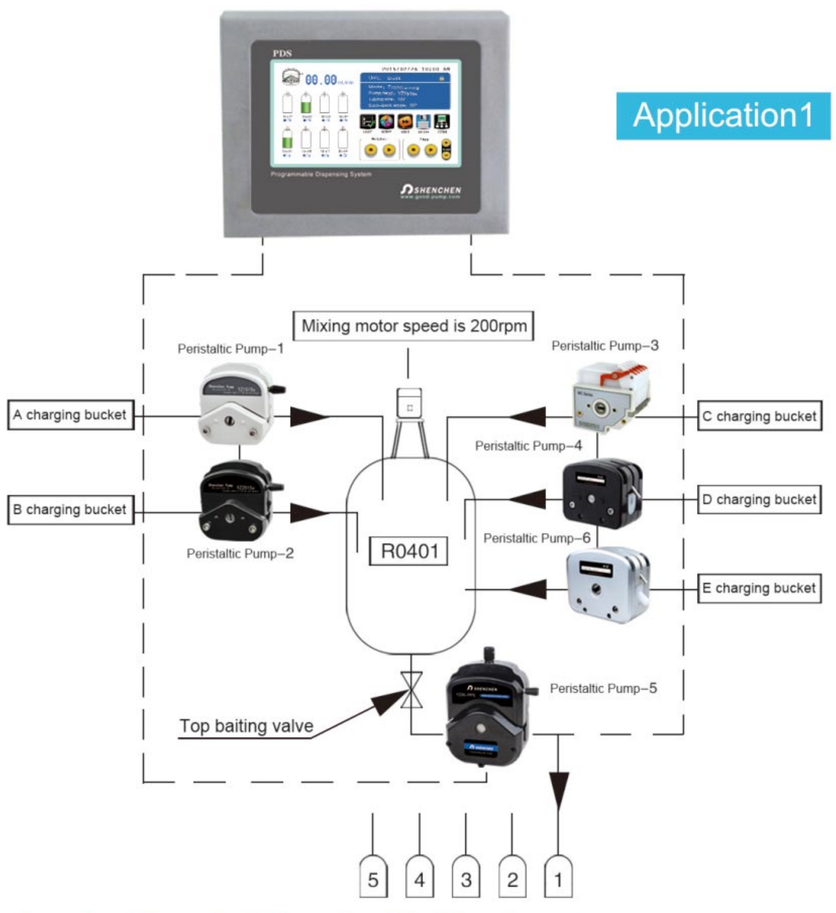
- Logic working mode: PDSI
- Independent working mode: PDSII
- Independent working mode and steps filling mode: PDSIII
- Comprehensive working mode: PDSIV

Suitable pump head

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

Technical Specifications

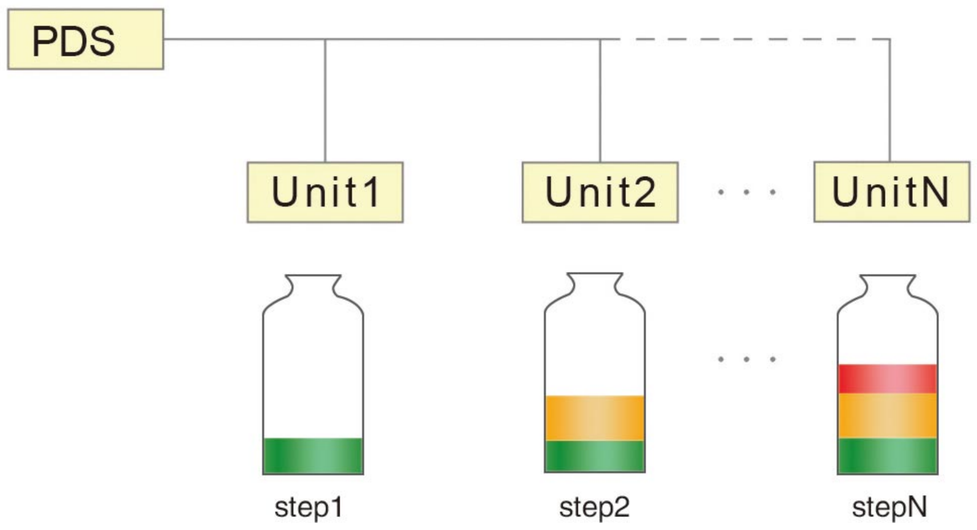
Speed range	0.1~600rpm, also depend on pump head	Power supply	AC 220V±10%, AC 110V±10%
Speed resolution	0.01rpm	Power consumption	15W
Back suction angle	0-360°	Controller dimension	240*221*111mm
Display	7 inch- industrial grade- true color LCD TFT screen	Controller weight	2.1kg
Control	Touch screen	Memory function	Storage the running parameters when power off
Start/stop, direction signal	Active switch signal 5V	IP rate	IP31
		Pump housing material	Mirror stainless steel



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

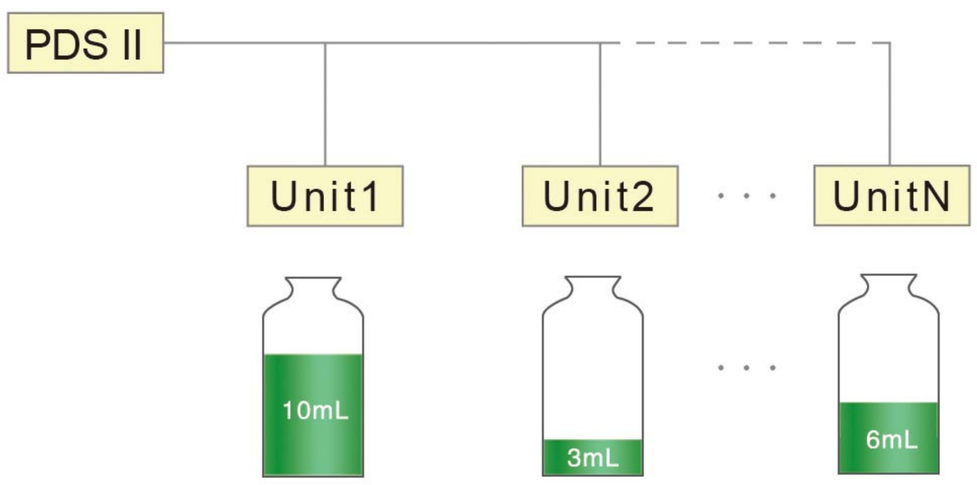
Application2: PDSIV, one controller with 7 pump units, 4 minipump and 3 YZ1515x pump heads, for different liquid filling with different time sequence.

Patent No: ZL2015104866578; ZL2017305717405; ZL201520600482.4



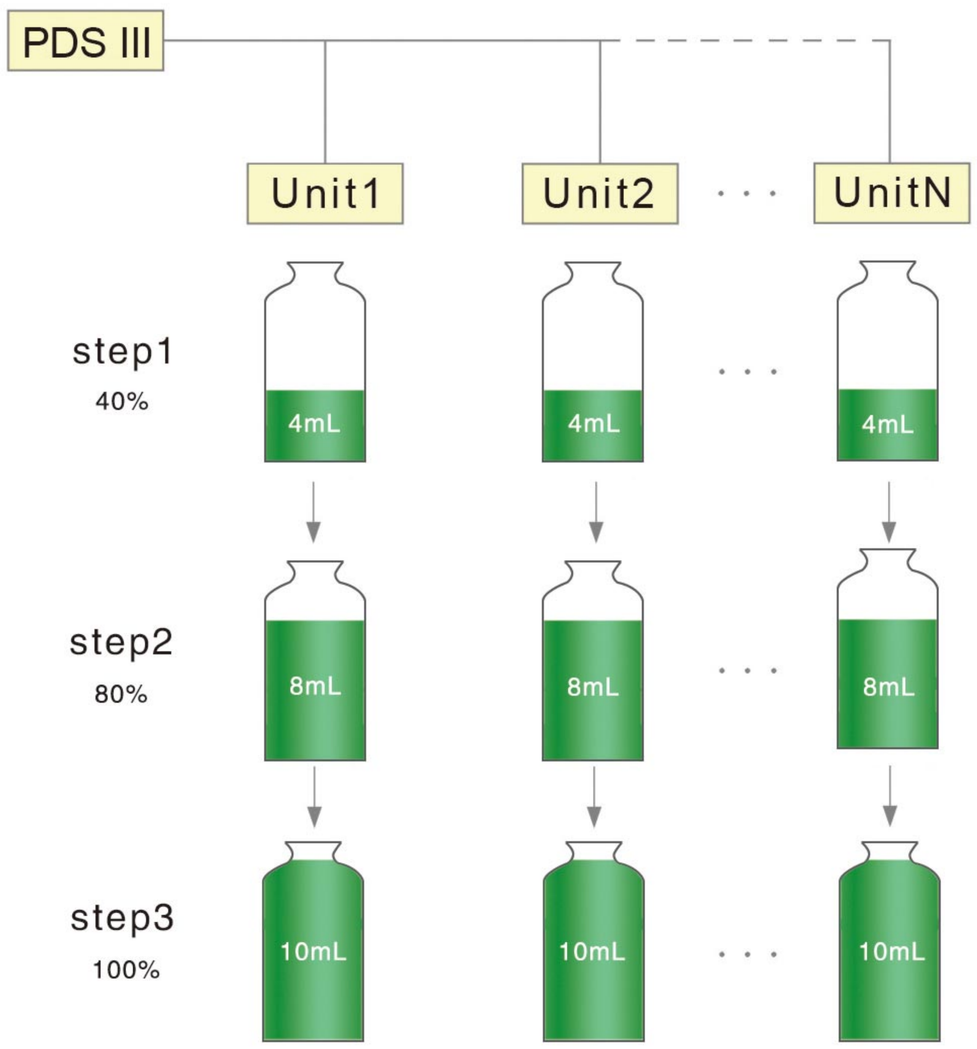
Logic working mode

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



Independent working mode

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



Independent and steps filling working mode

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

PDS IV

comprehensive working mode

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

Compact Peristaltic Pump

LabQ 3 years warranty

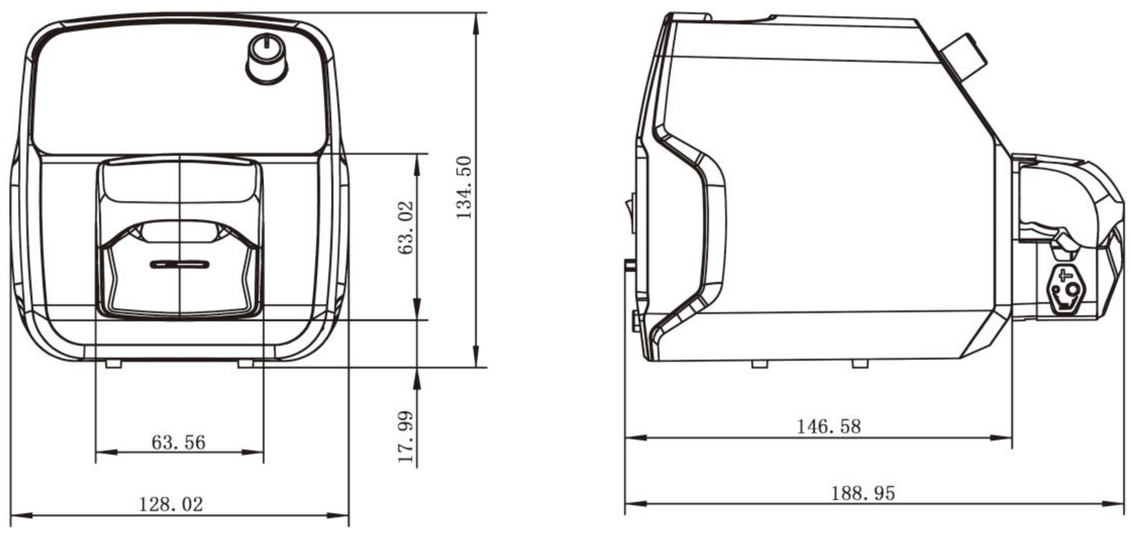
Product Introduction

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

Product Features

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

Dimension Drawing (Unit: mm)



Technical Specifications

Speed range	0.1-350rpm	Start/stop, reversing signal	Switch signal(The default is passive signal, a active signal is optional)
Speed resolution	0.1rpm		
Control method	Mechanical keypad and digital Knob	Communication interface	RS485 support modbus protocol (RTU mode)
Display	2.4 inch LCD screen	Dimension	188*128*135mm(L×W×H)
External speed control signal	0-5V, 0-10V, 4-20mA	Weight	1.1kg
		Power consumption	<30W
Output interface	Open-Collector output	Temperature	0-40℃
Power supply	Output: (24V/1.25A)	Relative humidity	<80%
	Input: AC100V-240V，50Hz/60Hz	IP rate	IP31

Product Composition and Flow Rate Range

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

Compact Peristaltic Pump

3 years warranty

LabK1

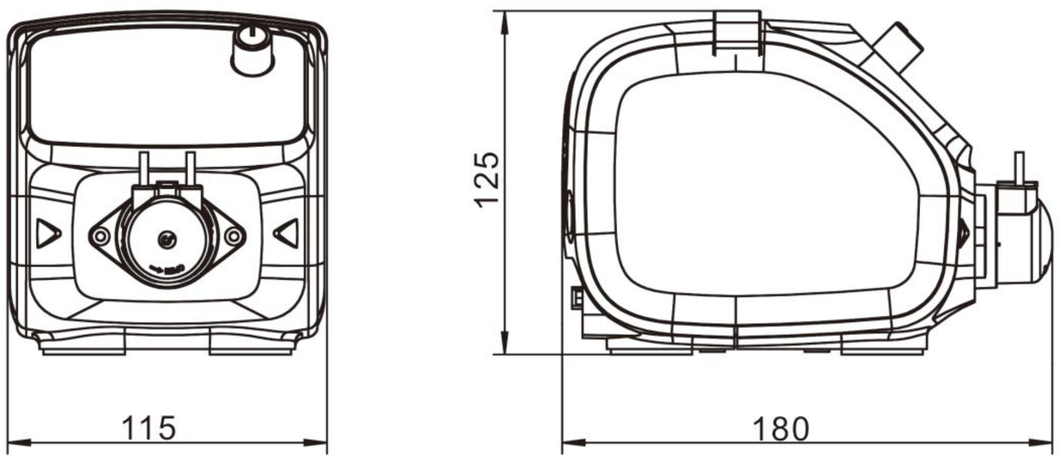
Product Introduction

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

Product Features

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

Dimension Drawing (Unit: mm)



Color Selection

Technical Specifications

Flow rate range	0.004-63.96mL/min	External control	Start/stop direction control (switch signal) ,
Speed range	0.1-150rpm reversible		0-5V, 4-20mA (standard)
Speed resolution	0.1rpm		0-10V (optional)
Speed control	Digital knob	Power adapter	Output: (12V/1A); Input: AC100V-240V, 50Hz/60Hz
Control method	Mechanical keypad	Dimension	180*115*125mm（L×W×H）
Keypad lifetime	300,000 times	Weight	0.8kg
Display	0.96" OLED display	Condition temperature	0-40℃
Communication interface	USB connector, RS485 interface (MODBUS protocol, RTU mode)	Relative humidity	< 80%
		IP rate	IP31

Product Composition and Flow Rate Range

Model	Pump Head	Speed(rpm)	Tubing Size (ID×Wall Thickness(mm))	Flow Rate Range (mL/min)
LabK1	MicroPump	0.1-150	1*1	0.004-6.38
			2*1	0.014-21.45
			3*1	0.031-47.26
			4*1	0.042-63.96

Patent No: ZL201830234324.6; ZL201820752218.6; ZL201820752298.5; ZL201820752219.0

Compact Peristaltic Pump

3 years warranty

LabS3

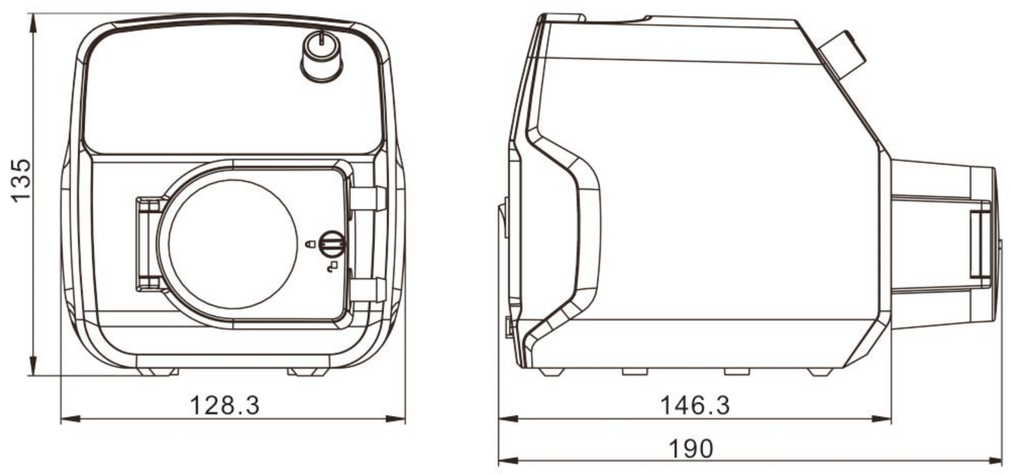
Product Introduction

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

Product Features

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

Dimension Drawing (Unit: mm)



Pump Head

Technical Specifications

Flow rate range	0.0024-930mL/min	Communication interface	USB connector, RS485 interface (MODBUS protocol, RTU mode)
Speed range	LabS3/UD15 0.1-350 reversible LabS3/Minipump 0.1-300 reversible	External control	Start/stop direction control (switch signal) , 0-5V, 4-20mA (standard), 0-10V (optional)
Speed resolution	0.1rpm		
Speed control	Digital knob	Power supply	Output: (12V/1A); Input: AC100V-240V, 50Hz/60Hz
Control method	Mechanical keypad	Dimension	190×128.3×135mm (L×W×H)
Keypad lifetime	300,000 times	Weight	800g
Display	0.96" OLED display	Condition temperature	0-40℃
IP rate	IP31	Relative humidity	< 80%

Product Composition and Flow Rate Range

Model	Pump Head	Speed(rpm)	Tubing Size	Flow Rate Range(mL/min)
LabS3	UD15	0.1-350	16#, 25#,17#	0.08-930
	Minipump01	0.1-300	13#,14#, 19#, 16#, 25#	0.0024-190
	Minipump02		1×1, 2×1, 2.5×1, 3×1	0.005-108.39

Patent No: ZL201830310348X; ZL201820752218.6 EU patent number: 005611001-0001

Compact Peristaltic Pump

3 years warranty

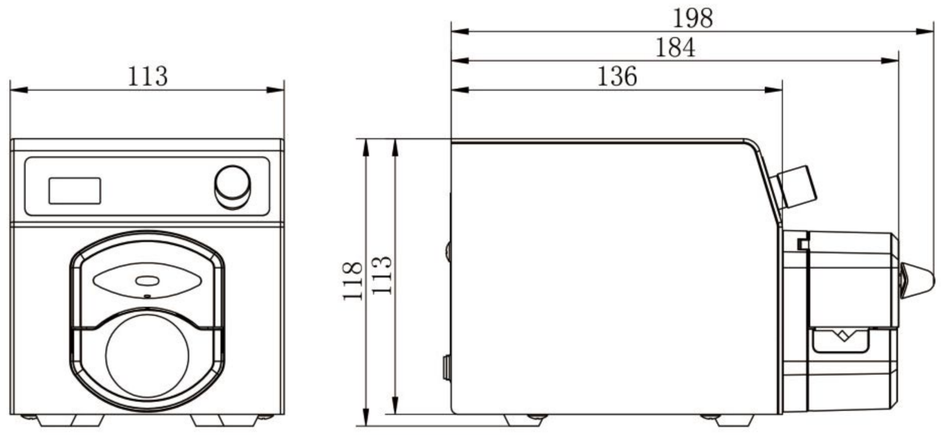
SK-HandyPump

Product Features

- 304 stainless steel shell, anti-corrosion, resistant to rust, conform to GMP request.
- OLED display motor speed and working status, digital knob control speed.
- SK-HandyPump external control adopts standard wiring terminal, which is more suitable for supporting industrial use.
- Support RS232, RS485 communication, Modbus protocol, more convenient to connect with PLC.
- With power-down memory function, cost-effective.
- The external control function interface is rich, and the external control isolation signal is 5-24V.
- Compact structure, can be stacked.

Model number | SK-HandyPump

Dimension Drawing (Unit: mm)



Pump Head

HandyPump01 HandyPump02

Technical Specifications

Flow rate range	0.0033~365.69mL/min	Power supply	Output: (24V/1.25A); Input: AC100V-240V，50Hz/60Hz
Speed range	0.1~300rpm	External control	Start/stop control(switch signal)
Speed resolution	0.1rpm		Speed: 0-5V, 4-20mA(standard), 0-10V (optional)
Control method	Digital knob control/Mechanical keypad	Communication interface	RS485, RS232
Motor type	Stepper motor	Condition temperature	0-40℃
Display	OLED display(0.96")	Relative humidity	<80%
Power consumption	15W	Output interface	Output motor working status
Weight	1.75Kg	IP rate	IP31
Keypad lifetime	300,000 times	Drive dimension	198*113*118mm(L*W*H)

Product Composition and Flow Rate Range

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

Compact Peristaltic Pump

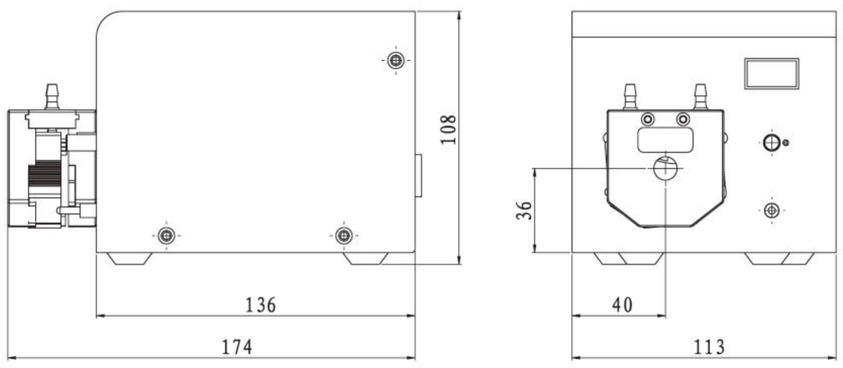
3 years warranty

SP-MiniPump

Features

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

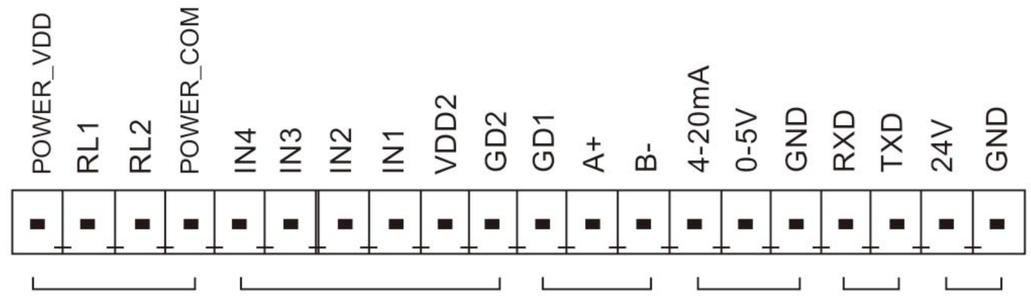
Dimension Drawing (Unit: mm)



Model Number

- SP-MiniPump01, SP-MiniPump02

External Control Schematic Diagram



Technical Specifications

Flow rate range	0.0024~190 mL/min	Communication interface	RS232, RS485 support MODBUS protocol (RTU mode)
Speed range	0.1~300 rpm	Power supply	24V/1.25A DC power
Speed resolution	0.1rpm	Drive dimension	174×113×108 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℃
External control	Start/Stop control (switch signal)	Relative humidity	< 80%
	0-5V(standard), 4-20mA, 0-10V (optional)	IP rate	IP31

SP-MiniPump Speed/Flow Rate Reference

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

Flow Rates Peristaltic Pump

LabV1-III, LabV3-III, LabV6-III

3 years warranty

ABS Engineering Plastic Housing

- Laboratory
- Industrial equipment supporting

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

Suitable Pump Head

EasyPump Series
(Pressure Adjustable)

EasyPump Series
(Fixed Pressure)

EasyPump-PPS Series
(Pressure Adjustable)

EasyPump-PPS Series
(Fixed Pressure)

Technical Specifications

Flow rate range	LabV1-III: 0.0053~775 mL/min	Start/stop, direction signal	Passive switch signal, such as foot pedal switch
	LabV3-III: 0.0053~1808 mL/min		Active switch signal: 5-24V universal
	LabV6-III: 0.0053~3100 mL/min	Communication interface	RS232, RS485 support MODBUS protocol (RTU mode)
Speed range	0.1-600 rpm		
Speed resolution	0.01 rpm	Output interface	Output motor working status (Open-Collector output)
Flow rate resolution	0.01 μl		
Flow rate accuracy	<±0.5%	Power supply	AC 220V±10% 50Hz/60Hz (standard)
Back suction angle	0-360°		AC 110V±10% 50Hz/60Hz (optional)
Outlet pressure	0.1Mpa (0.8-1.0mm wall thickness tubing)	Drive dimension	323×157×237 mm(L×W×H)
	0.1-0.27Mpa (1.6-2.4mm wall thickness tubing)	Drive weight	4.40 kg
Motor type	Closed-loop stepper motor	Power consumption	<50W
Display	Industrial grade 4.3" LCD color display	Condition temperature	0-40℃
Control method	Touch screen and Mechanical keypad	Relative humidity	< 80%
Keypad lifetime	**300,000 times**	IP rate	IP31
External speed control signal	0-5V, 0-10V, 4-20mA		

Product Composition and Flow Rate Range

Flow Rates Peristaltic Pump		Pump Head & Flow Rate (mL/min)		
		New Generation Easy Load Type Pump Head		
Drive&speed \ Tubing		EasyPumpI/III	EasyPumpII/IV	EasyPumpV/VI(dual channel)
		13#, 14#, 19#, 16#, 25#, 17#, 18#	15#, 24#, 35#, 36#	13#, 14#, 19#, 16#, 25#
LabV1-III	0.1-150 rpm	0.0053~645	0.18~775	0.0053~295
LabV3-III	0.1-350 rpm	0.0053~1505	0.18~1808	0.0053~688
LabV6-III	0.1-600 rpm	0.0053~2580	0.18~3100	0.0053~1180

Flow Rates Peristaltic Pump

LabV1, LabV3, LabV6

3 years warranty

ABS Engineering Plastic Housing

- LabV1, LabV3, LabV6
- Laboratory
  Industrial equipment supporting

Suitable Pump Head

YZ1515x

YZ2515X

AMC Series

MC Series

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

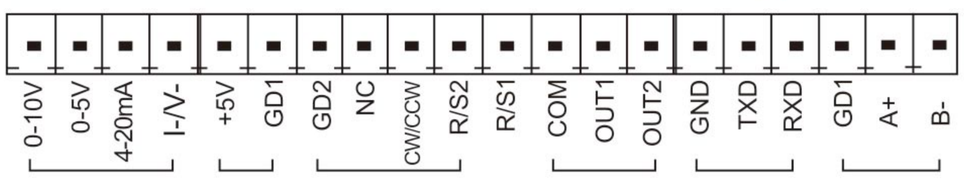
Flow Rates Peristaltic Pump

V1, V3, V6

3 years warranty

- V1, V3, V6
- Laboratory
  Industrial equipment

External Control Schematic Diagram



Patent No: ZL201430015533.8; ZL2017305719218

Technical Specifications

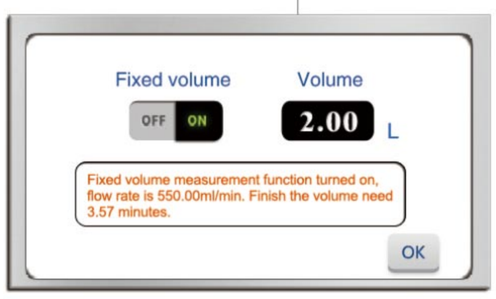
Flow rate range	LabV1/ V1: 0.000166~570 mL/min	Start/stop, direction signal	Passive switch signal, such as foot pedal switch
	LabV3/ V3: 0.000166~1330 mL/min		Active switch signal: 5-24V universal
	LabV6/ V6: 0.000166~2280 mL/min	Communication interface	RS232, RS485 support MODBUS protocol (RTU mode)
Speed range	0.1-600 rpm		
Speed resolution	0.01 rpm	Output interface	Output motor working status (Open-Collector output)
Flow rate resolution	0.01 μl	Power supply	AC 220V±10% 50Hz/60Hz (standard)
Flow rate accuracy	<±0.5%		AC 110V±10% 50Hz/60Hz (optional)
Back suction angle	0-360°	Drive dimension (L×W×H)	LabV Series: 261.4×157.3×236.9 mm
Outlet pressure	0.1Mpa (0.8-1.0mm wall thickness tubing)		V Series: 252×152×243 mm
	0.1-0.27Mpa (1.6-2.4mm wall thickness tubing)	Drive weight	LabV Series: 4.40 kg
Motor type	Stepper motor		V Series: 4.20 kg
Display	Industrial grade 4.3" LCD color display	Power consumption	< 50W
Control method	Touch screen and Mechanical keypad	Condition temperature	0-40℃
Keypad lifetime	**300,000 times**	Relative humidity	< 80%
External speed control signal	0-5V, 0-10V, 4-20mA for option	IP rate	IP31

Product Composition and Flow Rate Range

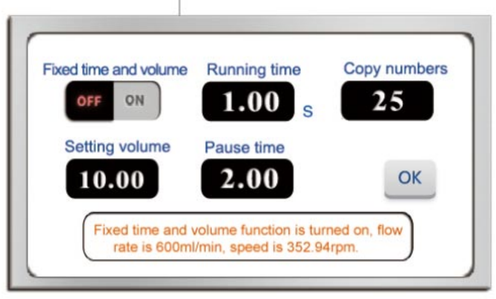
Flow Rates Peristaltic Pump		Pump Head & Flow Rate (mL/min)			
		YZ1515x	YZ2515x	MC1~MC12(10)	MC1~MC12(6)
Drive&speed / Tubing		13#, 14#, 19#, 16# 25#, 17#, 18#	15#, 24#	Inner diameter: 0.13-3mm Wall thickness: 0.8-1mm	
LabV1/V1	0.1-150 rpm	0.007~570	0.17~435	0.000166-49(working speed≤150rpm)	0.000185-65(working speed≤150rpm)
LabV3/V3	0.1-350 rpm	0.007~1330	0.17~1015		
LabV6/V6	0.1-600 rpm	0.007~2280	0.17~1740		
Drive&speed / Tubing		AMC1-AMC12(10)		AMC1-AMC12(6)	
		Inner diameter: 0.13-3mm Wall thickness: 0.8-1mm			
LabV1/V1	0.1-150 rpm	0.0002-48(working speed≤150rpm)		0.0002-65(working speed≤150rpm)	

Flow rate Setting Interface

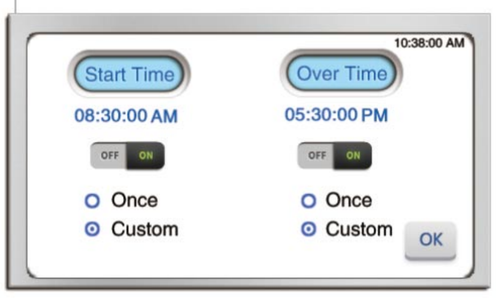
External Control Speed Setting Interface



Fixed Volume Measurement Setting Interface



Fixed Time and Volume Setting Interface



Timer Start and Stop Setting Interface

Flow Rates Peristaltic Pump

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

Technical Specifications

Flow rate range	V6-3L: 0.211~3600 mL/min	Start/stop,direction signal	Passive switch signal, such as foot pedal switch
	V6-6L: 0.3~6000 mL/min		Active switch signal: 5-24V universal
	V6-12L: 0.00069~12 L/min	Communication interface	RS232, RS485 support MODBUS protocol (RTU mode)
Speed range	0.1-600 rpm	Output interface	Output motor working status (Open-Collector output)
Speed resolution	0.01 rpm	Power supply	AC 220V±10% 50Hz/60Hz (standard)
Flow rate resolution	0.01 mL		AC 110V±10% 50Hz/60Hz (optional)
Flow rate accuracy	＜±0.5%	Drive dimension	V6-3L: 223×152×231mm
Back suction angle	0-360°		V6-6L: 283×192×274mm
Outlet pressure	0.3 Mpa		V6-12L: 302×222×331mm
Motor type	Closed-loop stepper motor	Drive weight	V6-3L: 5.02kg; V6-6L: 7.85kg; V6-12L: 13.14kg
Display	Industrial grade 4.3" color LCD display	Power consumption	V6-3L: ＜80W ; V6-6L: ＜180W ; V6-12L: ＜300W
Control method	Touch screen and Mechanical keypad	Environment temperature	0-40℃
Keypad lifetime	300,000 times	Relative humidity	< 80%
External speed control signal	0-5V,0-10V,4-20mA	IP rate	IP31

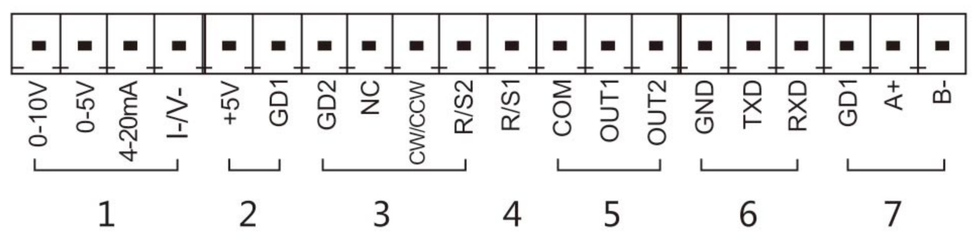
Product Composition and Flow Rate Range

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

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

External control interface definition

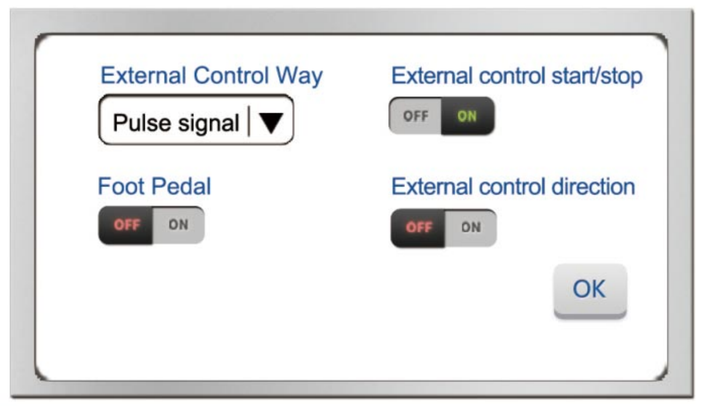
1. Analog signal input port: Choose the external control speed signal from the external control setting interface. Turn on the external control speed function, control the motor speed range through the analog signal.
2. Internal isolation 5VDC output.
3. External control start/stop,direction signal input port: active signal input.
4. R/S1 external control start/stop signal input port: passive signal input.
5. Motor running status output port: output current running status of the motor.
6. RS232 communication interface: choose RS232 in communication setting interface, this port is effective.
7. RS485 communication interface: choose RS485 in communication setting interface, this port is effective.



V Series peristaltic pump external control setting interface.

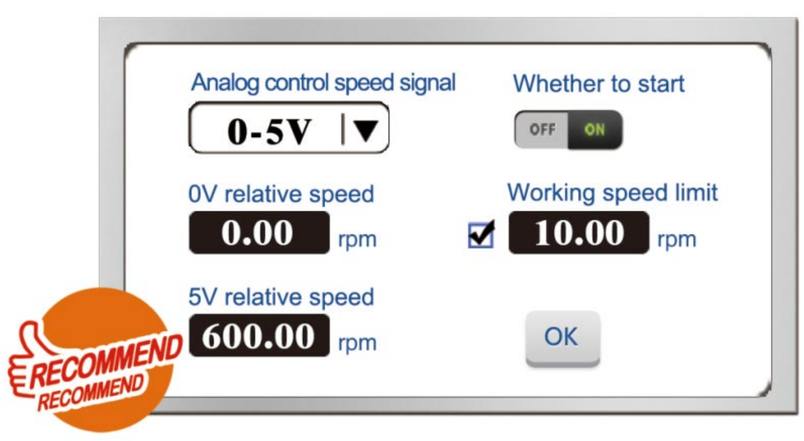
Choose external control start/stop,direction signal

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



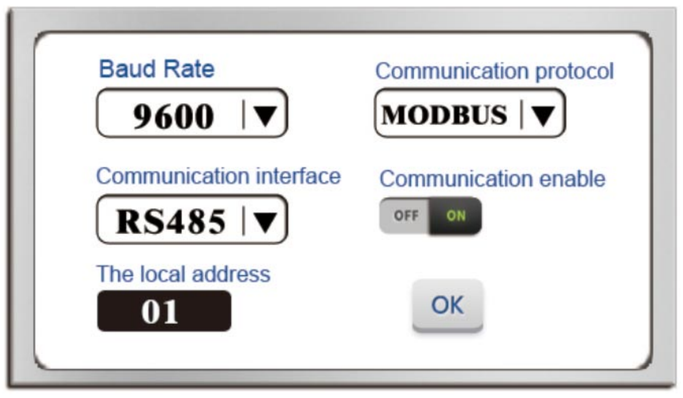
Programmable external control speed setting

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

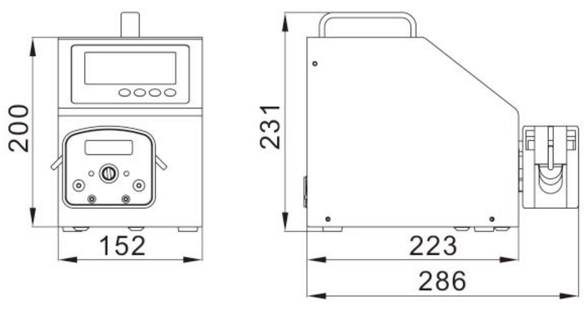


Communication setting

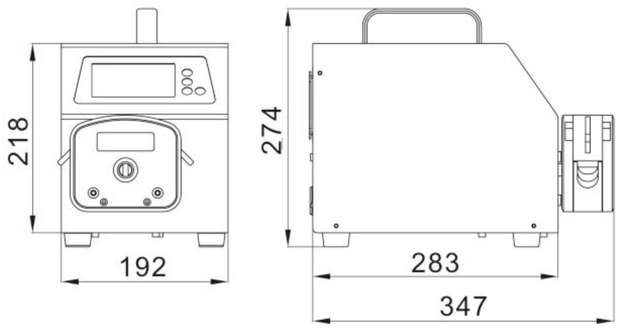
1. Support RS232 and RS485 interface, can be chosen in software interface.
2. Support various Baud rate : 2400bps, 4800bps, 9600bps, 19200bps.
3. Can choose standard modbus communication protocol or Shenchen communication protocol to control, modbus communication protocol is suitable to match with industrial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



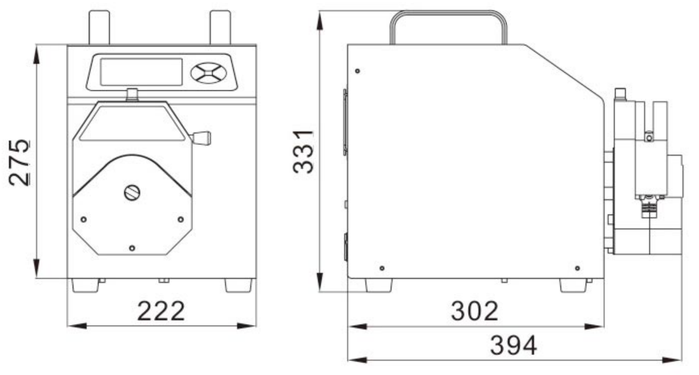
Dimension Drawing(Unit: mm)



V6-3L



V6-6L



V6-12L

Flow Rates Peristaltic Pump

LabV6-IV, LabF6-IV, LabN6-IV, LabM6-IV

Features

- With ABS engineering plastic housing, streamlined body design.
- Servo motor control, more strong and precise .
- Large flow rate range with UC25 pump head.

Model Number

- LabV6-IV, LabF6-IV, LabN6-IV, LabM6-IV

Typical Application

- Mainly for laboratory.

Product Composition and Flow Rate Range

Model	Pump Head	Speed Range(rpm)	Tubing Size	Flow Rate (mL/min)
LabV6-IV	UC25	0.1-600	15#, 24#, 35#, 36#	0.3423~6663
LabF6-IV		0.1-600		0.3423~6663
LabN6-IV		0.1-600		0.3423~6663
LabM6-IV		0.1-600		0.3423~6663

Technical Specifications

Outlet pressure	0.14~0.27Mpa	Drive dimension	261.4×157.3×236.9mm
Motor type	Closed-loop stepper motor	Drive weight	4.40kg
Communication interface	Rs232, RS485 communication	Power consumption	<80W
	MODBUS protocol	Condition temperature	0-40℃
Power supply	AC 220V±10% 50Hz/60Hz(standard)	Relative humidity	<80%
	AC 110V±10% 50Hz/60Hz(optional)	IP rate	IP31

Model	Display	Operating mode	External control signal	Motor Status Output Interface	Open cover stop running function
LabV6-IV	4.3"-industrial-true color LCD Screen	Touch screen + Mechanical keypad	External speed control signal: 0-5V, 0-10V, 4-20mA for option; Start/Stop: Passive switch signal, such as foot pedal; Active switch signal: 5-24V universal	open–collector output	Yes
LabF6-IV	4.3"-industrial-true color LCD Screen	Touch screen + Mechanical keypad	Start/Stop: Passive switch signal, such as foot pedal; Active switch signal:5-24V universal	open–collector output	Yes
LabN6-IV	3.2"LCD Screen	Mechanical keypad	External speed control signal: 0-5V, 0-10V, 4-20mA for option; Start/Stop: Passive switch signal, such as foot pedal; Active switch signal: 5-24V universal	open–collector output	No
LabM6-IV	3 digital LED	Mechanical keypad	External speed control signal: 0-5V, 0-10V, 4-20mA for option; Start/Stop: Passive switch signal, such as foot pedal; Active switch signal: 5-24V universal	No	No

Flow Rates Peristaltic Pump

LabN1-III, LabN3-III, LabN6-III

3 years warranty

ABS Engineering Plastic Housing

Typical Application

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

Suitable Pump Head

EasyPump Series
(Pressure Adjustable)

EasyPump Series
(Fixed Pressure)

EasyPump-PPS Series
(Pressure Adjustable)

EasyPump-PPS Series
(Fixed Pressure)

Features

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

Technical Specifications

Flow rate range	LabN1-III: 0.0053~775 mL/min	Start/stop, direction signal	Passive switch signal, such as foot pedal switch
	LabN3-III: 0.0053~1808 mL/min		Active switch signal: 5-24V universal
	LabN6-III: 0.0053~3100 mL/min	Communication interface	RS232, RS485 support MODBUS protocol (RTU mode)
Speed range	0.1-600 rpm		
Speed resolution	0.01 rpm	Output interface	Output motor working status (Open-Collector output)
Flow rate resolution	0.01 μl		
Flow rate accuracy	<±0.5%	Power supply	AC 220V±10% 50Hz/60Hz (standard)
Back suction angle	0-360°		AC 110V±10% 50Hz/60Hz (optional)
Outlet pressure	0.1Mpa (0.8-1.0mm wall thickness tubing)	Drive dimension	323×157×237 mm (L×W×H)
	0.1-0.27Mpa (1.6-2.4mm wall thickness tubing)	Drive weight	4.40 kg
Motor type	Closed-loop stepper motor	Power consumption	<50W
Display	Industrial grade 4.3" LCD color display	Condition temperature	0-40℃
Control method	Mechanical keypad and digital knob	Relative humidity	< 80%
Keypad lifetime	**300,000 times**	IP rate	IP31
External speed control signal	0-5V, 0-10V, 4-20mA		

Product Composition and Flow Rate Range

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

Flow Rates Peristaltic Pump

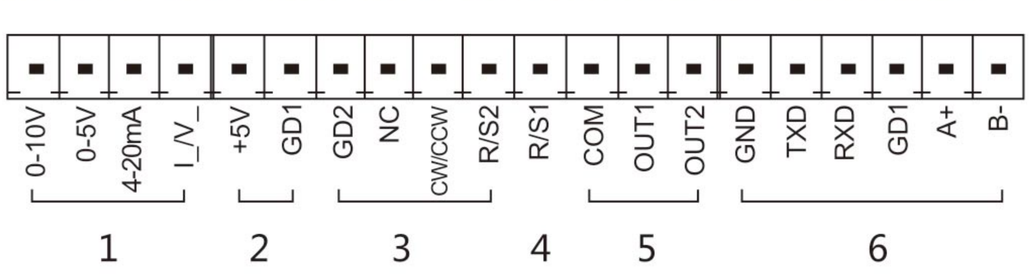
LabN1, LabN3, LabN6

3 years warranty

Model Number

- LabN1, LabN3, LabN6

LabN Series External Control Schematic Diagram



Suitable Pump Head

YZ1515x

YZ2515X

AMC Series

MC Series

Features

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

Typical Application

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

LabN Series Interface and Keypad

Patent No: ZL201830637555.6

Technical Specifications

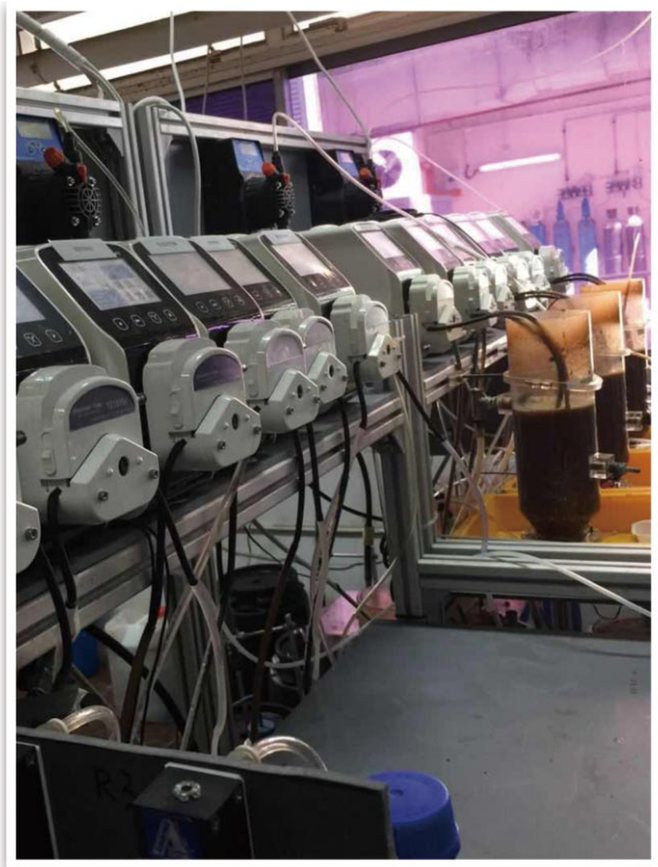
Flow rate range	LabN1: 0.000166~570 mL/min LabN3: 0.000166~1330 mL/min LabN6: 0.000166~2280 mL/min	Start/stop, reversing signal	Passive switch signal, such as foot pedal Active switch signal: 5V,12V,24V for option
Speed resolution	0.1rpm	Communication interface	RS232, RS485 support Modbus protocol(RTU mode)
Back suction angle	0-360°	Output interface	Output motor working status (Open-Collector output)
Testing time range	0.1 s-9999 h		
Outlet pressure	0.8~1.0 mm wall thickness tubing: 0.1Mpa; 1.6~2.4mm wall thickness tubing: 0.1~0.27Mpa	Power supply	AC 220V±10% 50Hz/60Hz (standard) AC 110V±10% 50Hz/60Hz (optional)
Display	3.2" high definition LCD screen	Drive dimension	261.4×157.3×236.9mm
Control method	Digital knob and Mechanical keypad	Drive weight	4.40 kg
Keypad lifetime	**300,000 times**	Power consumption	＜50W
External speed control signal	0-5V, 0-10V, 4-20mA for option	Condition temperature	0-40℃
Relative humidity	< 80%	IP rate	IP31

Product Composition and Flow Rate Range

Flow Rates Peristaltic Pump		Pump Head & Flow Rate (mL/min)			
		YZ1515x	YZ2515x	MC1~MC12(10)	MC1~MC12(6)
Drive&speed \ Tubing		13#, 14#, 19#, 16# 25#, 17#, 18#	15#, 24#	Inner diameter: 0.13-3mm Wall thickness: 0.8-1mm	
LabN1	0.1-150 rpm	0.007~570	0.17~435	0.000166-49(working speed≤150rpm)	0.000185-65(working speed≤150rpm)
LabN3	0.1-350 rpm	0.007~1330	0.17~1015		
LabN6	0.1-600 rpm	0.007~2280	0.17~1740		

Drive&speed \ Tubing		AMC1-AMC12(10)	AMC1-AMC12(6)
		Inner diameter: 0.13-3mm Wall thickness: 0.8-1mm	
LabN1	0.1-150 rpm	0.0002-48(working speed≤150rpm)	0.0002-65(working speed≤150rpm)

Application



Flow Rates Peristaltic Pump

Features

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

Model Number

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

Technical Specifications

Flow rate range	N6-3L: 0.211~3600 mL/min	Power supply	AC 220V±10% 50Hz/60Hz (standard)
	N6-6L: 0.3~6000 mL/min		AC 110V±10% 50Hz/60Hz (optional)
	N6-12L: 0.00069~12 L/min	Power consumption	N6-3L: <80W ; N6-6L: <180W ; N6-12L: <300W
Speed range	0.1-600 rpm	Communication interface	RS232, RS485 support MODBUS protocol (RTU mode)
Flow rate accuracy	<±0.5%		
Speed resolution	0.1rpm	Motor type	Servo motor
Fixed time dispensing Function	0.1s~9999h	Copy numbers	1-9999 times, setting '0' means unlimited
		Drive dimension (L×W×H)	N6-3L: 223×152×230mm
Control method	Mechanical keypad+Digital knob		N6-6L: 283×192×264mm
Display	3.2" high definition LCD screen		N6-12L: 302×222×321mm
Start/stop,direction signal	Passive switch signal, such as foot pedal switch	Drive weight	N6-3L: 5.06kg; N6-6L: 7.88kg; N6-12L: 13.01kg
	Active switch signal: 5V, 12V and 24V for option	Relative humidity	<80%
External speed control signal	0-5V,0-10V,4-20mA for option	Environment temperature	0-40℃
Output interface	Output motor working status (Open-Collector output)	IP rate	IP31
		Back suction angle	0-360°

Product Composition and Flow Rate Range

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

Dispensing Peristaltic Pump

LabF1-III, LabF3-III, LabF6-III

3 years warranty

ABS Engineering Plastic Housing

Typical Application

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

Suitable Pump Head

EasyPump Series
(Pressure Adjustable)

EasyPump Series
(Fixed Pressure)

EasyPump-PPS Series
(Pressure Adjustable)

EasyPump-PPS Series
(Fixed Pressure)

Features

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

Technical Specifications

Flow rate range	LabF1-III: 0.0053~775 mL/min	Start/stop, direction signal	Passive switch signal, such as foot pedal switch
	LabF3-III: 0.0053~1808 mL/min		Active switch signal: 5V, 12V and 24V for option
	LabF6-III: 0.0053~3100 mL/min	Communication interface	RS232, RS485 support MODBUS protocol (RTU mode)
Speed range	0.1-600 rpm		
Speed resolution	0.01 rpm	Output interface	Output motor working status (Open-Collector output)
Flow rate resolution	0.01 μl		
Flow rate accuracy	<±0.5%	Power supply	AC 220V±10% 50Hz/60Hz (standard)
Back suction angle	0-360°		AC 110V±10% 50Hz/60Hz (optional)
Outlet pressure	0.1-0.27Mpa (1.6-2.4mm wall thickness tubing)	Drive dimension	323×157×237 mm (L×W×H)
		Drive weight	4.40 kg
Motor type	Closed-loop stepper motor	Power consumption	<50W
Display	Industrial grade 4.3" LCD color display	Condition temperature	0-40℃
Control method	Touch screen and Mechanical keypad	Relative humidity	< 80%
Keypad lifetime	300,000 times	IP rate	IP31
External speed control signal	5-24V universal		

Product Composition and Flow Rate Range

Flow Rates Peristaltic Pump		Pump Head & Flow Rate (mL/min)		
		New Generation Easy Load Type Pump Head		
Drive&speed / Tubing		EasyPumpI/III	EasyPumpII/IV	EasyPumpV/VI
		13#, 14#, 19#, 16#, 25#, 17#, 18#	15#, 24#, 35#, 36#	13#, 14#, 19#, 16#, 25#
LabF1-III	0.1-150 rpm	0.0053~645	0.18~775	0.0053~295
LabF3-III	0.1-350 rpm	0.0053~1505	0.18~1808	0.0053~688
LabF6-III	0.1-600 rpm	0.0053~2580	0.18~3100	0.0053~1180

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

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

Drive	Pump Head	Tubing	Filling Volume (mL)	Filling Time(s)	Filling Accuracy (±%)	Output(pcs/min)	Motor Speed(rpm)
LabF6-III	EasyPump	13#	0.1	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
		14#	1	2	0.5	20	517.152
		19#	2	1	1	30	446.724
		16#	3	1.5	0.8	24	446.479
		25#	5	1.2	1	27	454.919
		25#	7	1	0.5	30	457.705
		17#	10	1	1	30	303.426
		17#	15	1	0.8	30	461.273
		18#	20	1.2	0.5	27	518.945
		18#	30	1.2	0.8	27	462.725
		15#	50	2	0.5	20	461.595
		15#	80	2.5	0.5	17	427.274
		24#	100	3	0.5	15	446.583
		24#	16	1	0.5	30	443.540
		35#	30	1.2	1.0	27	454.877
		36#	150	4	0.6	12	447.940

Dispensing Peristaltic Pump

LabF1, LabF3, LabF6

3 years warranty

ABS Engineering Plastic Housing

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

Accessories

① Filling Countersunk

② Filling Nozzle

③ Foot Pedal Switch

Features

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

Patent No: ZL2017305718018

Dispensing Peristaltic Pump

F1, F3, F6

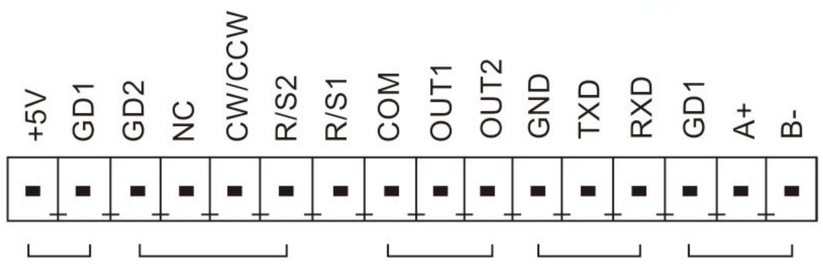
3 years warranty

304 SS Housing

Model Number

- F1, F3, F6

External Control Schematic Diagram

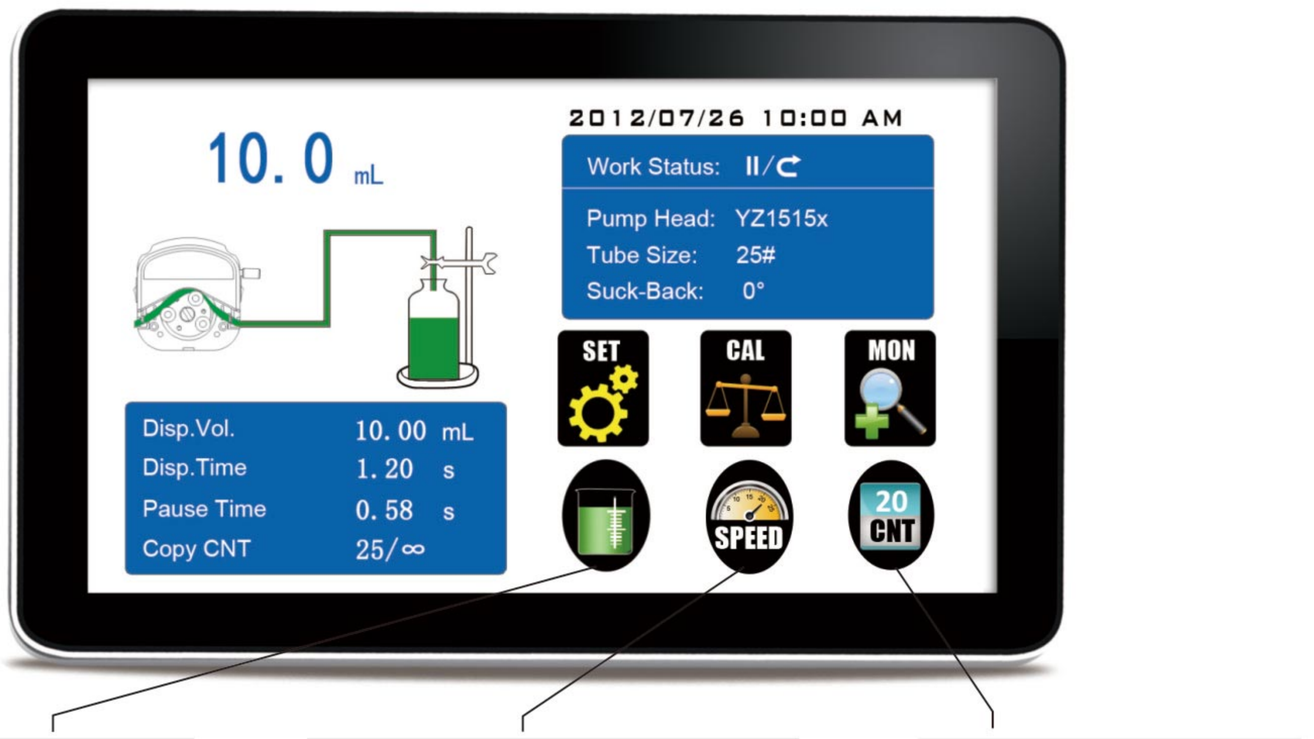


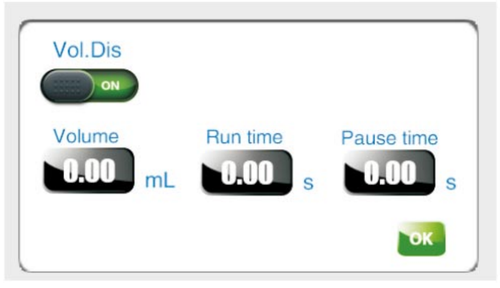
Technical Specifications

Flow rate range	LabF1/F1: 0.000166~570mL/min LabF3/F3: 0.000166~1330mL/min LabF6/F6: 0.000166~2280mL/min	Start/stop, direction signal	Passive switch signal, such as foot pedal switch; Active switch signal: 5-24V universal
Speed range	0.1-600rpm	Output interface	Output motor working status (Open-Collector output)
Speed resolution	0.01rpm	Communication interface	RS232, RS485 Modbus protocol (RTU mode)
Dispensing volume range	0.1-9999.99mL	Power supply	AC 220V±10% 50Hz/60Hz (Standard)
Dispensing volume resolution	0.01mL		AC 110V±10% 50Hz/60Hz (Optional)
Dispensing time	0.1-9999. 99s	Outlet pressure	0.1Mpa(0.8~1.0mm wall thickness tubing)
Pause time	0.1-9999. 99s		0.1~0.27Mpa(1.6~2.4mm wall thickness tubing)
Time resolution	0.01s	Drive dimension (L×W×H)	LabF Series: 261.4×157.3×236.9 mm
Copy numbers	1-9999 times, setting'0'means unlimited		F Series: 212×152×243mm
Back suction angle	0-360°	Drive weight	LabF Series: 4.40 kg
Dispensing accuracy	<±0.5%		F Series: 4.20 kg
Motor type	Stepper motor	Power consumption	<50W
Display	Industrial grade 4.3" color LCD display	Condition temperature	0-40℃
Control method	Touch screen and Mechanical keypad	Relative humidity	<80%
Keypad lifetime	**300,000 times**	IP rate	IP31

Product Composition and Flow Rate Range

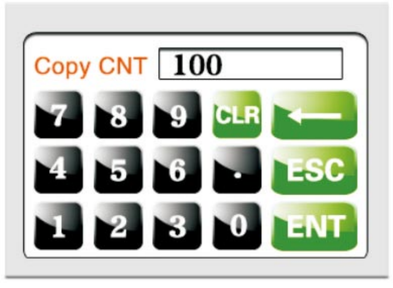
Flow Rates Peristaltic Pump		Pump Head & Flow Rate (mL/min)			
		YZ1515x	YZ2515x	MC1~MC12(10)	MC1~MC12(6)
Drive&speed \ Tubing		13#, 14#, 19#, 16# 25#, 17#, 18#	15#, 24#	Inner diameter: 0.13-3mm Wall thickness: 0.8-1mm	
LabF1	0.1-150 rpm	0.007~570	0.17~435	0.000166-49(working speed≤150rpm)	0.000185-65(working speed≤150rpm)
LabF3	0.1-350 rpm	0.007~1330	0.17~1015		
LabF6	0.1-600 rpm	0.007~2280	0.17~1740		
Drive&speed \ Tubing		AMC1-AMC12(10)		AMC1-AMC12(6)	
		Inner diameter: 0.13-3mm Wall thickness: 0.8-1mm			
LabF1	0.1-150 rpm	0.0002-48(working speed≤150rpm)		0.0002-65(working speed≤150rpm)	





Volume dispensing interface

Speed dispensing interface



Repeat numbers interface

Dispensing Peristaltic Pump

Features

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

Model Number

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

Technical Specifications

Flow rate range	F6-3L: 0.211~3600 mL/min	Control method	Touch screen and Mechanical keypad
	F6-6L: 0.3~6000 mL/min	**Keypad lifetime**	**300,000 times**
	F6-12L: 0.00069~12 L/min	Start/stop, direction signal	Passive switch signal, such as foot pedal switch
Speed range	0.1-600 rpm		Active switch signal: 5-24V universal
Speed resolution	0.01 rpm	Output interface	Output motor working status (Open-Collector output)
Dispensing volume range	0.1-9999.99 mL	Communication interface	RS232, RS485 support Modbus protocol (RTU mode)
Dispensing volume resolution	0.01 mL	Power supply	AC 220V±10% 50Hz/60Hz (Standard)
Dispensing time	0.1-9999.99 s		AC 110V±10% 50Hz/60Hz (Optional)
Pause time	0.1-9999.99 s	Drive dimension	F6-3L: 223×152×231mm
Time resolution	0.01 s		F6-6L: 283×192×274mm
Copy numbers	1-9999 times, setting '0' means unlimited		F6-12L: 302×222×331mm
Back suction angle	0-360°	Drive weight	F6-3L: 5.02kg; F6-6L: 7.85kg; F6-12L: 13.14kg;
Outlet pressure	0.3 Mpa	Power consumption	F6-3L:＜80W ; F6-6L:＜180W ; F6-12L:＜300W
Dispensing accuracy	<±0.5%	Condition temperature	0-40℃
Motor type	Closed-loop stepper motor	Relative humidity	＜80%
Display	Industrial grade 4.3" color LCD display	IP rate	IP31

Product Composition and Flow Rate Range

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

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

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 YZ2515x	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
		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	EasyPump	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
		14#	1	2	0.5	20	517.152
		19#	2	1	1	30	446.724
		16#	3	1.5	0.8	24	446.479
		25#	5	1.2	1	27	454.919
		25#	7	1	0.5	30	457.705
		17#	10	1	1	30	303.426
		17#	15	1	0.8	30	461.273
		18#	20	1.2	0.5	27	518.945
		18#	30	1.2	0.8	27	462.725
		15#	50	2	0.5	20	461.595
		15#	80	2.5	0.5	17	427.274
		24#	100	3	0.5	15	446.583
		24#	16	1	0.5	30	443.540
		35#	30	1.2	1.0	27	454.877
		36#	150	4	0.6	12	447.940
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)

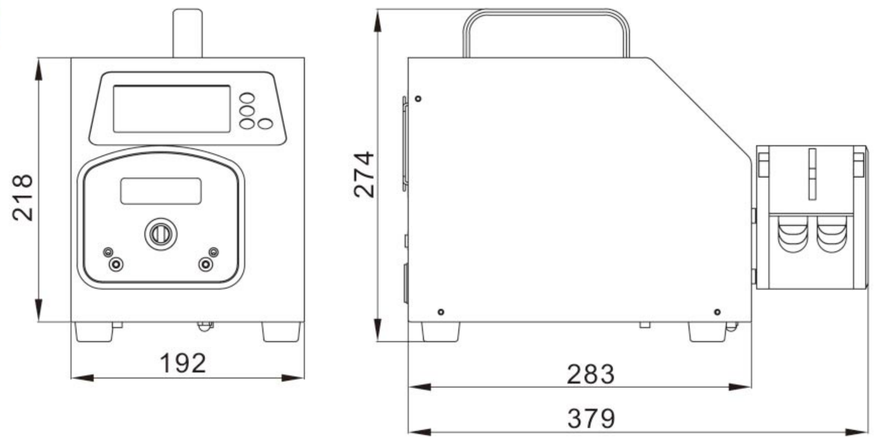
Drive	Pump Head	Tubing	Filling Volume	Filling Time	Actual Filling Volume(mL)										Filling Accuracy	
F6-3L	EasyPump I/III	13#	0.1mL	0.5s	0.1015	0.1013	0.1003	0.1013	0.1018	0.1004	0.1009	0.1014	0.1012	0.1008	-0.10%	1.80%
					0.1016	0.1013	0.1005	0.1016	0.1015	0.0999	0.1016	0.1016	0.0999	0.1016		
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

Low Pulsation Dispensing Peristaltic Pump

IF3

Features

- 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.



Model Number | IF3

Dimension Drawing(Unit: mm)

Product Composition and Flow Rate Range

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

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

Filling Volume Reference Parameter(Media is water)

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

Desktop Filling System

3 years warranty

KF300

The control unit

KF300+MiniPump

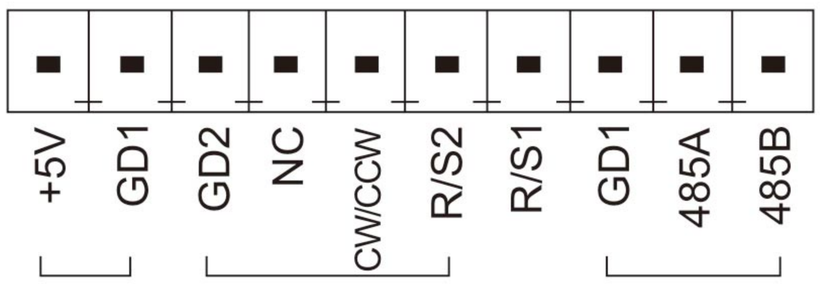
Typical Application

- Laboratory liquid distribution
- Diagnostic reagent components
- Medium dispensing

Features

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

External Control Schematic Diagram



KF300+HandyPump

Technical Specifications

Speed range	1-300 rpm	Control mode	Touch screen and Mechanical keypad
Filling volume	0.01-9999.99 ml	Start/stop, direction signal	Passive switch signal, such as :foot pedal switch; Active switch signal, 5-24V universal
Dispensing time	0.1-9999.99 s		
Interval time	0.1-9999.99 s		
Volume resolution	0.01 ml	Output interface	Output motor working status (Open-collector output)
Time resolution	0.01 s		
Copy numbers	1-9999 times,0 represent unlimited	Communication interface	RS485 support Modbus protocol (RTU mode)
Back suction angle	0-360°	Power supply	AC 220V±10% 50Hz/60Hz(standard) AC 110V±10% 50Hz/60Hz (optional)
Filling accuracy	<±0.5%		
Filling units	1-32 units	Condition Temperature	0-40℃
Display	4.3"Industrial grade –color LCD display	Relative humidity	<80%
Keypad lifetime	**300,000 times**	IP rate	IP31

Split Type Filling System

3 years warranty

CF600II

304 SS Housing

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.
- Controller screen display the working status of the filling units.

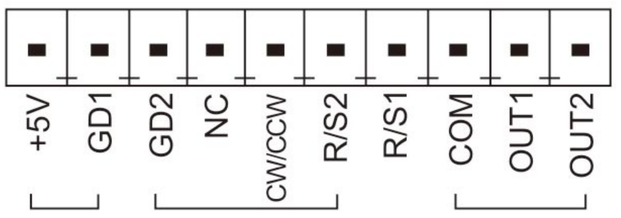
Model Number

- CF600, CF600 Plus, CF600II, CF600 PlusII

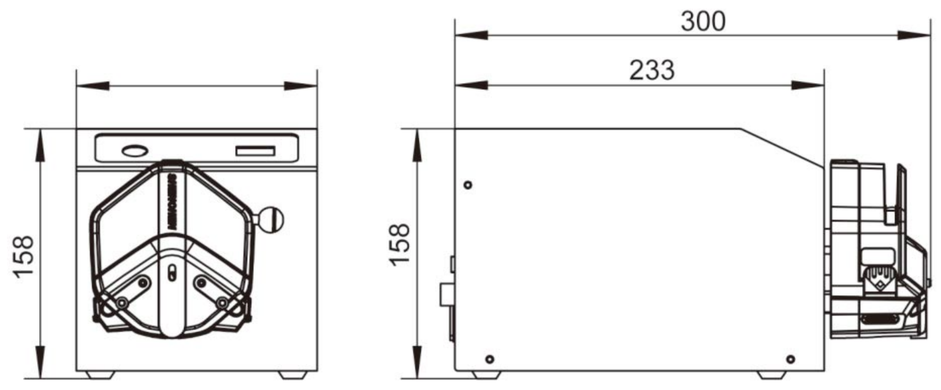
Typical Application

- Laboratory dispensing
- Industry filling

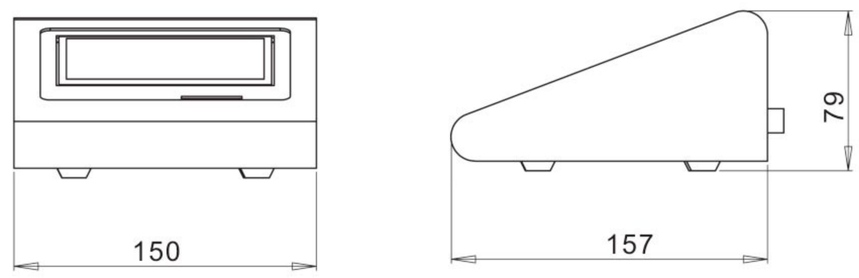
External Control Schematic Diagram



Dimension Drawing(Unit: mm)



Drive Dimension Drawing



Controller Dimension Drawing

Split Type Filling System

CF350

3 years warranty

304 SS Housing

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.

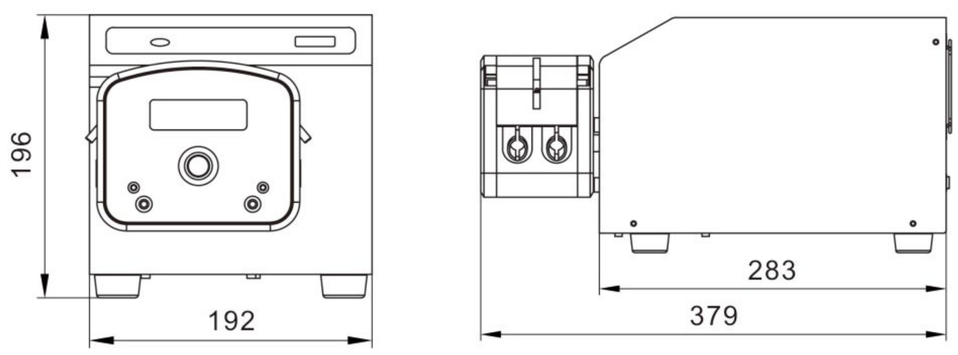
Model Number

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

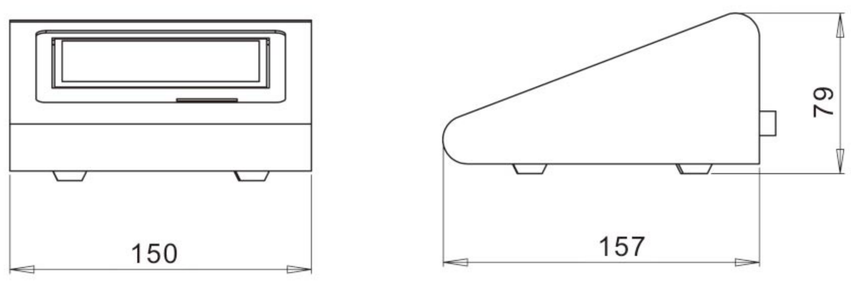
Control Unit

Filling Unit

Dimension 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 (L×W×H)	Power Consumption	Drive Weight
CF600 CF600Plus	YZ1515x	0.07-2280	Stepper motor	237.4×152×158mm	Each unit＜50W	4.2kg
	YZ2515x	1.7-1740				
CF600 II CF600Plus II	EasyPump	0.053-3100	Closed-loop stepper motor	237.4×152×158mm	Each unit＜80W	4.95kg
	DZ25-3L	2.11-3600				
CF600 III CF600Plus III	DZ25-6L	3.0-6000		283×192×196mm	Each unit＜180W	7.8kg
CF350 CF350Plus	DY15	0.1-3337		283×192×196mm	Each unit＜180W	7.8kg
	DY25	4.2-4340				
CF600 IV CF600PlusIV	YZ35 YZ35-PPS	6.9-12000		310×228×248mm	Each unit＜300W	11.9kg

Integrated Filling System

DF600II

3 years warranty

304 SS Housing

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.

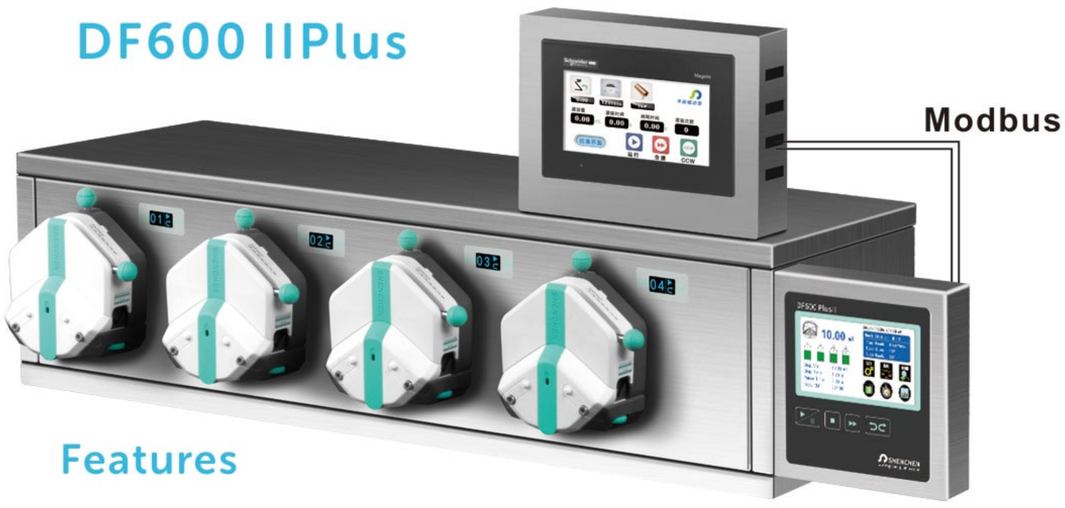
Model Number

DF600, DF600II, DF600 Plus, DF600 PlusII

Typical Application

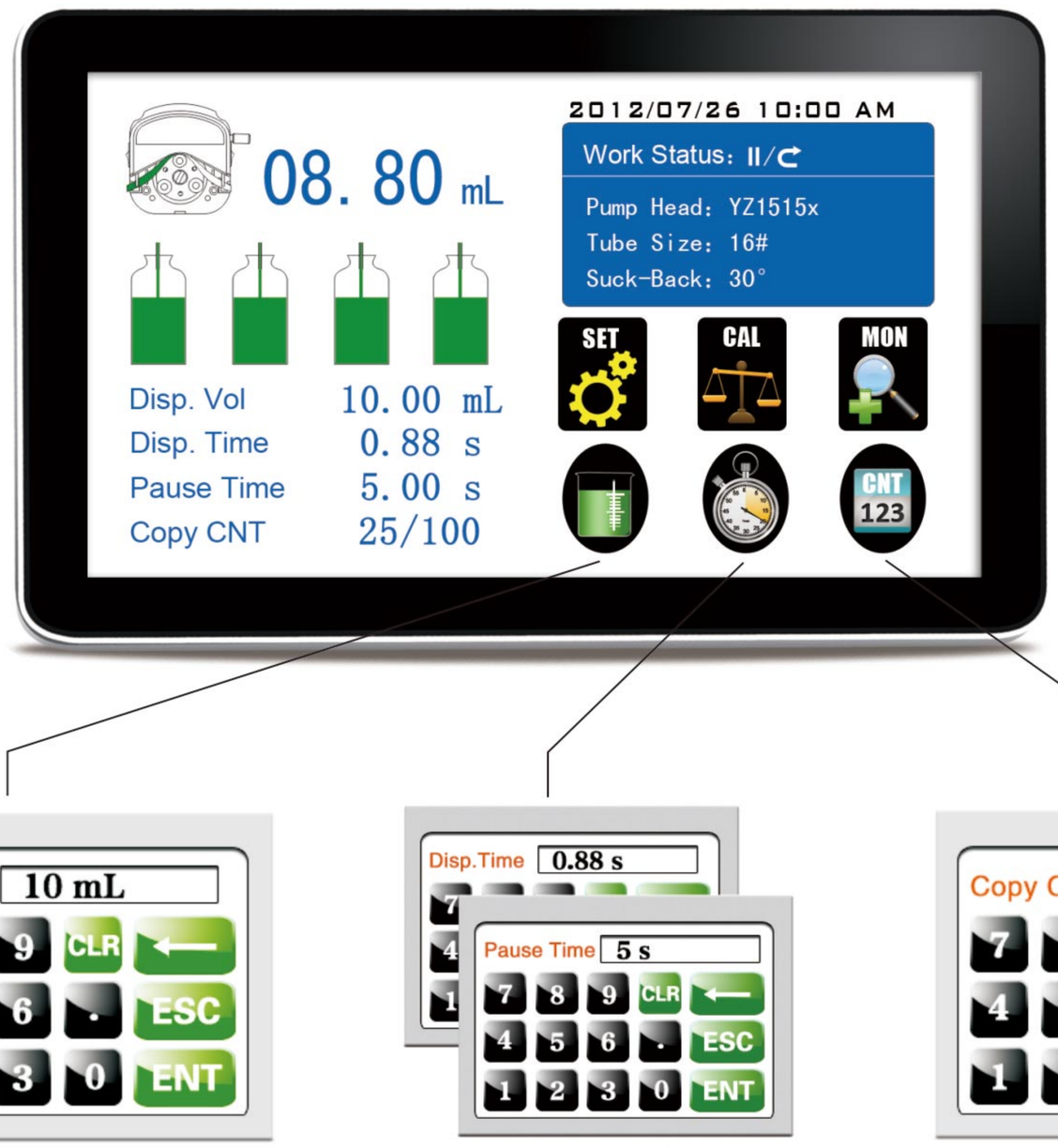
- Pharmaceutical, health product filling, diagnostic reagent dispensing.
- Food, beverage filling.
- Cosmetic filling.

DF600 IIPlus



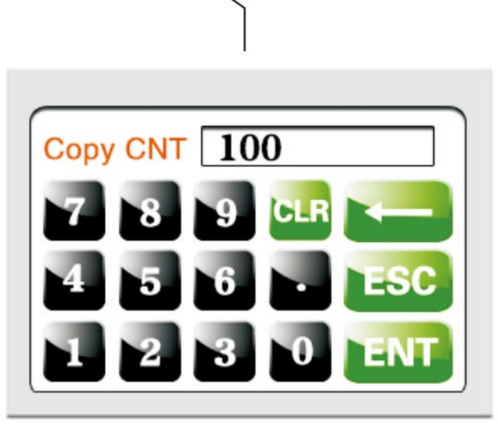
Features

Connected with HMI, PLC etc, industrial control system, one controller can control 8 groups (total 32) 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

3 years warranty

304 SS Housing

DF350

3 years warranty

304 SS Housing

Product Introduction

DF600 series 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. Dynamics display working status, filling data, setting parameter, system configuration display at the same screen; with intelligent calibration and online micro adjust function. Can connect foot pedal and receive switch signal, realize long-distance control. With motor working status output signal, can let other equipment realtime monitor the current filling status of peristaltic pump. This filling system use closed-loop stepper motor, and high precision, low pulsation pump head to make the filling precision higher, up to 0.1%-0.6%, make the micro volume and big volume high precision filling come true.

Model Number

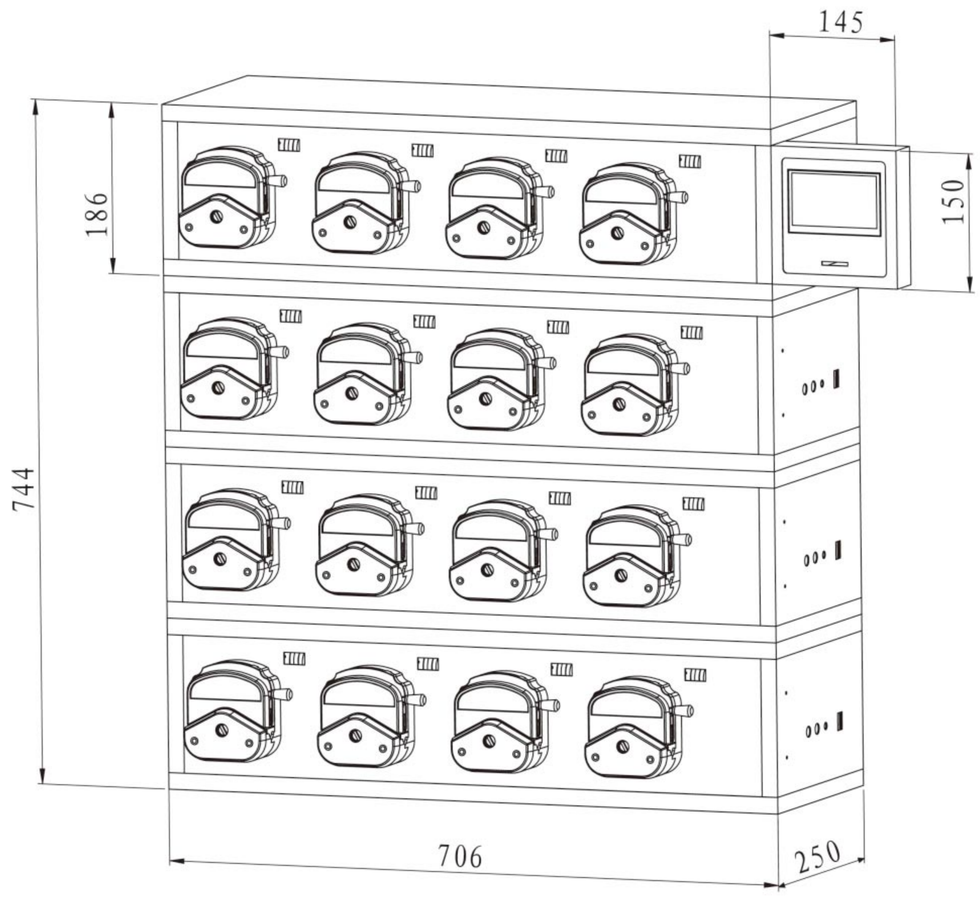
- DF350
- DF350 Plus
- DF600III
- DF600 PlusIII
- DF600IV
- DF600 PlusIV

Typical Application

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

Integrated Filling System

Dimension Drawing(Unit: mm)

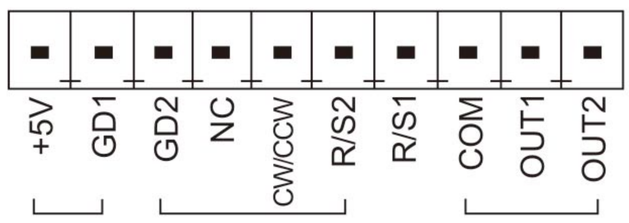


DF600 Dimension

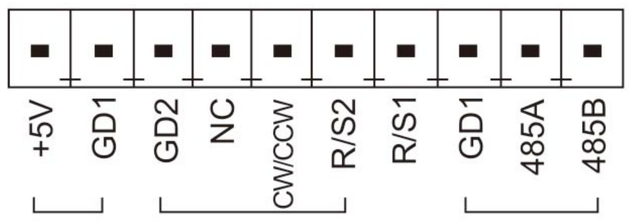
External Control Schematic Diagram

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

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 DF600Plus	YZ1515x	0.07~2280	Stepper motor	706×250×186mm	Each Unit＜50W	21.8kg
	YZ2515x	1.7~1740				
DF600 II DF600Plus II	EasyPump	0.053-3100	Closed-loop stepper motor	706×250×186mm	Each Unit＜80W	21.8kg
	DZ25-3L	2.11-3600				
DF600 III DF600Plus III	DZ25-6L	3.0-6000		910×290×212mm	Each Unit＜180W	41.45kg
DF350 DF350Plus	DY15	0.1-3337		910×290×212mm	Each Unit＜180W	41.45kg
	DY25	4.2-4340				
DF600IV DF600Plus IV	YZ35	6.9-12000		1056×310×248m	Each Unit＜300W	58.6kg

Pharmaceutical Filling Machine

Cosmetic Filling Line

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
	CF600/CF600 Plus Series 1-600 rpm	**Keypad lifetime**	**300,000 times**
	DF600/DF600 Plus Series 1-600 rpm	Start/stop, direction signal	Passive switch signal, such as foot pedal switch
Filling volume range	0.1-9999.99 mL		Active switch signal: 5-24V universal
Filling time range	0.5-9999.99 s/ DF600 Plus 0.1-9999.99 s	Output interface	Output motor working status
Pause time range	0.5-9999.99 s/ DF600 Plus 0.1-9999.99 s		(Open-Collector output)
Filling volume resolution	0.01 mL	Power supply	AC 220V±10% 50Hz/60Hz (standard)
Time resolution	0.01 s		AC 110V±10% 50Hz/60Hz (optional)
Copy numbers	1-9999,'0' means unlimited	Condition temperature	0-40℃
Back suction angle	0-360°	Relative humidity	< 80%
Filling accuracy	<±0.5%	IP rate	IP31

Product Composition and Flow Rate Range

Drive	Pump Head	Pump Head Material	Tube Clamp Material	Tubing		(Motor Speed 1~600rpm) Flow Rate mL/min
				Tubing Size	ID×Wall Thickness	
DF600 CF600 DF600 Plus CF600 Plus	YZ1515x	PSF PPS	———	13#	0.8×1.6 (mm)	0.07~42
				14#	1.6×1.6 (mm)	0.27~162
				19#	2.4×1.6 (mm)	0.55~330
				16#	3.1×1.6 (mm)	0.82~492
				25#	4.8×1.6 (mm)	1.7~1020
				17#	6.4×1.6 (mm)	2.9~1740
				18#	7.9×1.6 (mm)	3.8~2280
	YZ2515x	PSF PPS	———	15#	4.8×2.4 (mm)	1.7~1020
				24#	6.4×2.4 (mm)	2.9~1740
DF600Ⅱ CF600Ⅱ DF600 PlusⅡ CF600PlusⅡ	EasyPump I/III	———	———	13#	0.8×1.6 (mm)	0.0053~32
				14#	1.6×1.6 (mm)	0.027~162
				19#	2.4×1.6 (mm)	0.055~330
				16#	3.1×1.6 (mm)	0.093~560
				25#	4.8×1.6 (mm)	0.197~1180
				17#	6.4×1.6 (mm)	0.333~2000
				18#	7.9×1.6 (mm)	0.430~2580
	EasyPump II/IV	———	———	15#	4.8×2.4 (mm)	0.180~1080
				24#	6.4×2.4 (mm)	0.273~1640
				35#	7.9×2.4 (mm)	0.383~2300
				36#	6.4×2.4 (mm)	0.517~3100
	EasyPump V/VI	———	———	13#	0.8×1.6 (mm)	0.0053~32
				14#	1.6×1.6 (mm)	0.027~162
				19#	2.4×1.6 (mm)	0.055~330
				16#	3.1×1.6 (mm)	0.093~560
				25#	4.8×1.6 (mm)	0.197~1180
	DZ25-3L	Aluminum alloy/PPS	PP	15#	4.8×2.4 (mm)	2.11~1264
				24#	6.4×2.4 (mm)	3.85~2310
				35#	7.9×2.4 (mm)	5.08~3050
				36#	4.8×2.4 (mm)	6~3600
DF600Ⅲ CF600Ⅲ DF600 PlusⅢ CF600 PlusⅢ	DZ25-6L	Aluminum alloy/PPS	PP	15#	4.8×2.4 (mm)	3~1800
				24#	6.4×2.4 (mm)	5.5~3300
				35#	7.9×2.4 (mm)	8~4800
				36#	4.8×2.4 (mm)	10~6000
DF600Ⅳ CF600Ⅳ DF600 PlusⅣ CF600 PlusⅣ	YZ35-PPS	Aluminum alloy/PPS	PP	24#	6.4×3.3 (mm)	6.9~4200
				35#	9.6×3.3 (mm)	12.3~7400
				36#	12.7×3.3 (mm)	20~12000

Drive	Pump Head	Pump Head Material	Tube Clamp Material	Tubing		(Motor Speed1~350rpm) Flow Rate mL/min
				Tubing Size	ID×Wall Thickness	
DF350 CF350 DF350 Plus 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
				17#	6.4×1.6 (mm)	6.4~2230
				18#	7.9×1.6 (mm)	9.5~3337
	DY25	Aluminum alloy	PP	15#	4.8×2.4 (mm)	4.2~1480
				24#	6.4×2.4 (mm)	7.6~2670
				35#	7.9×2.4 (mm)	10~3600
				36#	9.6×2.4 (mm)	12.4~4340

Filling Volume Reference (Media is water)

Drive	Pump Head	Tubing	Filling Volume (mL)	Filling Time (s)	Accuracy (±%)	Output (pcs/min)	Motor Speed (rpm)
DF600 CF600 DF600 Plus CF600 Plus	YZ1515x YZ2515x	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
		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
DF600II CF600II DF600 PlusII CF600PlusII	EasyPump	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
		14#	1	2	0.5	20	517.152
		19#	2	1	1	30	446.724
		16#	3	1.5	0.8	24	446.479
		25#	5	1.2	1	27	454.919
		25#	7	1	0.5	30	457.705
		17#	10	1	1	30	303.426
		17#	15	1	0.8	30	461.273
		18#	20	1.2	0.5	27	518.945
		18#	30	1.2	0.8	27	462.725
		15#	50	2	0.5	20	461.595
		15#	80	2.5	0.5	17	427.274
		24#	100	3	0.5	15	446.583
		24#	16	1	0.5	30	443.540
		35#	30	1.2	1.0	27	454.877
		36#	150	4	0.6	12	447.940

Filling Volume Reference (Media is water)							
Drive	Pump Head	Tubing	Filling Volume (mL)	Filling Time (s)	Accuracy (±%)	Output (pcs/min)	Motor Speed (rpm)
DF600II CF600II Df600 PlusII Cf600 PlusII	DZ25-3L	15#	16	1	0.5	30	454.976
		24#	30	1.2	0.5	27	389.610
		35#	150	4	0.5	12	442.913
		36#	200	4	0.5	12	500.000
DF350 CF350 DF350 Plus CF350 Plus	DY15	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
		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
		18#	100	2.5	0.3	17	251.730
	DY25	15#	10	1	0.3	30	141.911
		24#	30	1	0.5	30	235.972
		35#	70	1.2	0.4	27	340.466
		36#	100	2	0.2	20	241.935
DF600III CF600III DF600 PlusIII Cf600PlusIII	DZ25-6L	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
		36#	300	3.5	0.5	13	514.285
DF600IV CF600IV DF600 PlusIV CF600 PlusIV	YZ35-PPS	26#	150	3	0.5	15	428.570
		73#	300	3	0.5	15	486.499
		82#	500	3	0.5	15	500.000

Basic Peristaltic Pump

Suitable Pump Head

LabM1-III, LabM3-III, LabM6-III

3 years warranty

ABS Engineering Plastic Housing

EasyPump Series
(Pressure Adjustable)

EasyPump Series
(Fixed Pressure)

EasyPump-PPS Series
(Pressure Adjustable)

EasyPump-PPS Series
(Fixed Pressure)

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

Typical Application

- University laboratory.
- Supporting ion chromatography and titrator.

Features

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

Technical Specifications

Flow rate range	LabM1-III: 0.0053~775 mL/min LabM3-III: 0.0053~1808 mL/min LabM6-III: 0.0053~3100 mL/min	Start/stop, direction signal	Passive switch signal, such as foot pedal switch; Active switch signal: 5-24V
Speed resolution	0.1rpm when the speed is 0-100rpm, 1rpm when the speed is 100-600rpm.	Communication interface	RS232, RS458 communication Modbus protocol(RTU mode)
Testing time range	0.5s-999s	Power supply	AC 220V±10%, 50Hz/60Hz (standard) AC 110V±10%, 50Hz/60Hz (optional)
Outlet pressure	0.1-0.27Mpa (1.6-2.4mm wall thickness tubing)	Drive dimension	323×157×237mm(L×W×H)
Display	3 digital LED	Drive weight	4.40 kg
Control method	Mechanical keypad	Power consumption	＜50W
Keypad lifetime	**300,000 times**	Condition temperature	0-40℃
External speed control signal	0-5V, 4-20mA, 0-10V	Relative humidity	＜80%
		IP rate	IP31

Product Composition and Flow Rate Range

Flow Rates Peristaltic Pump		Pump Head & Flow Rate (mL/min)		
		New Generation Easy Load Type Pump Head		
Drive&speed \ Tubing		EasyPumpI/III	EasyPumpII/IV	EasyPumpV/VI
		13#, 14#, 19#, 16#, 25#, 17#, 18#	15#, 24#, 35#, 36#	13#, 14#, 19#, 16#, 25#
LabM1-III	0.1-150 rpm	0.0053~645	0.18~775	0.0053~295
LabM3-III	0.1-350 rpm	0.0053~1505	0.18~1808	0.0053~688
LabM6-III	0.1-600 rpm	0.0053~2580	0.18~3100	0.0053~1180

Basic Peristaltic Pump

LabM1, LabM3, LabM6

3 years warranty

ABS Engineering Plastic Housing

Model Number

LabM1, LabM3, LabM6

Typical Application

University laboratory.
Supporting ion chromatography and titrator.

Suitable Pump Head

YZ1515x

YZ2515X

AMC Series

MC Series

Features

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

Technical Specifications

Flow rate range	LabM1: 0.000166~570 mL/min	Start/stop, direction signal	Passive switch signal, such as foot pedal switch;
	LabM3: 0.000166~1330 mL/min		Active switch signal: 24V default
	LabM6: 0.000166~2280 mL/min	Communication interface	RS232, RS485 Modbus protocol(RTU mode)
Speed resolution	0.1rpm when the speed is 0-100rpm,		
	1rpm when the speed is 100-600rpm.	Power supply	AC 220V±10%, 50Hz/60Hz (standard)
Testing time range	0.5s-999s		AC 110V±10%, 50Hz/60Hz (optional)
Outlet pressure	0.1Mpa (0.8-1.0mm wall thickness tubing)	Drive dimension	261.4×157.3×236.9mm
	0.1-0.27Mpa (1.6-2.4mm wall thickness tubing)	Drive weight	4.40 kg(L×W×H)
Display	3 digital LED	Power consumption	＜50W
Control method	Mechanical keypad	Condition temperature	0-40℃
Keypad lifetime	**300,000 times**	Relative humidity	＜80%
External speed control signal	0-5V, 0-10V, 4-20mA	IP rate	IP31

Product Composition and Flow Rate Range

Flow Rates Peristaltic Pump		Pump Head & Flow Rate (mL/min)			
		YZ1515x	YZ2515x	MC1~MC12(10)	MC1~MC12(6)
Drive&speed / Tubing		13#, 14#, 19#, 16# 25#, 17#, 18#	15#, 24#	Inner diameter: 0.13-3mm Wall thickness: 0.8-1mm	
LabM1	0.1-150 rpm	0.007~570	0.17~435	0.000166-49(working speed≤150rpm)	0.000185-65(working speed≤150rpm)
LabM3	0.1-350 rpm	0.007~1330	0.17~1015		
LabM6	0.1-600 rpm	0.007~2280	0.17~1740		
Drive&speed / Tubing		AMC1-AMC12(10)		AMC1-AMC12(6)	
		Inner diameter: 0.13-3mm Wall thickness: 0.8-1mm			
LabM1	0.1-150 rpm	0.0002-48(working speed≤150rpm)		0.0002-65(working speed≤150rpm)	

Basic Peristaltic Pump

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

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

Technical Specifications

Flow rate range	M6-3L: 0.211~3600 mL/min	Start/stop, direction signal	Passive switch signal, such as foot pedal
	M6-6L: 0.3~6000 mL/min		Active switch signal: 24V default
	M6-12L: 0.00069~12 L/min	Communication interface	RS232, RS485 Modbus protocol(RTU mode)
Speed resolution	0.1-600 rpm		
Speed range	0-100rpm, 0.1rpm;	Power supply	AC 220V±10% 50Hz/60Hz (standard)
	100-600rpm, 1rpm.		AC 110V±10% 50Hz/60Hz (optional)
Flow rate accuracy	<±0.5%	Drive dimension (L×W×H)	M6-3L: 223×152×199mm
Motor type	Servo motor		M6-6L: 283×192×274mm
Display	3 digital LED		M6-12L: 302×222×331mm
Control method	Mechanical keypad	Drive weight	M6-3L: 5.02kg; M6-6L: 7.85kg
Keypad lifetime	**300,000 times**		M6-12L: 13.14kg
Speed control	Rotary encoded switch	Power consumption	M6-3L: <80W; M6-6L:<180W
External speed control signal	0-5V, 0-10V, 4-20mA		M6-12L: <300W
		Condition temperature	0-40℃
IP rate	IP31	Relative humidity	<80%

Product Composition and Flow Rate Range

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

Basic Peristaltic Pump

3 years warranty

BT100N, BT300N, BT600N

Suitable Pump Head

YZ1515x

YZ2515x

AMC Series

MC Series

Features

- Plastic coated metal housing, compact structure.
- Timing function, time range 0.5s–999s, can be used for simple dispense.

RS232, RS485 Communication Interface.

- Support Shenchen communication protocol or standard Modbus communication protocol(RTU mode).

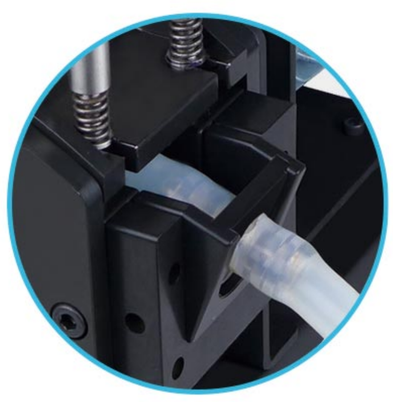
Technical Specifications

Flow rate range	BT100N: 0.000829~570 mL/min	Start/stop, reversing signal	Passive switch signal, such as foot pedal
	BT300N: 0.000829~1330 mL/min		Active switch signal: 5V,12V,24V for option
	BT600N: 0.000829~2280 mL/min	Communication interface	Rs232, RS458 communication
Speed resolution	0-100rpm, 0.1rpm;		Modbus protocol(RTU mode)
	100-600rpm, 1rpm	Power supply	AC 220V±10% 50Hz/60Hz (standard)
Testing time range	0.5 s-999 s		AC 110V±10% 50Hz/60Hz (optional)
Display	LED Display	Drive dimension	183×131×194mm
Control method	Mechanical keypad	Drive weight	4.20 kg
Keypad lifetime	300,000 times	Power consumption	＜50W
External speed control signal	0-5V, 4-20mA, 0-10V for option	Condition temperature	0-40℃
Relative humidity	＜80%	IP rate	IP31

Product Composition and Flow Rate Range

Flow Rates Peristaltic Pump		Pump Head & Flow Rate (mL/min)			
		YZ1515x	YZ2515x	MC1~MC12(10)	MC1~MC12(6)
Drive&speed \ Tubing		13#, 14#, 19#, 16# 25#, 17#, 18#	15#, 24#	Inner diameter: 0.13-3mm Wall thickness: 0.8-1mm	
BT100N	0.1-150 rpm	0.007~570	0.17~435	0.000166-49(working speed≤150rpm)	0.000185-65(working speed≤150rpm)
BT300N	0.1-350 rpm	0.007~1330	0.17~1015		
BT600N	0.1-600 rpm	0.007~2280	0.17~1740		
Drive&speed \ Tubing		AMC1-AMC12(10)		AMC1-AMC12(6)	
		Inner diameter: 0.13-3mm Wall thickness: 0.8-1mm			
BT100N	0.1-150 rpm	0.0002-48(working speed≤150rpm)		0.0002-65(working speed≤150rpm)	

Planetary Gear Type Industrial Peristaltic Pump



DZ45-I

DZ45-II

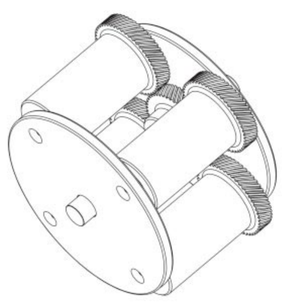
OEM-J025

Product Introduction

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

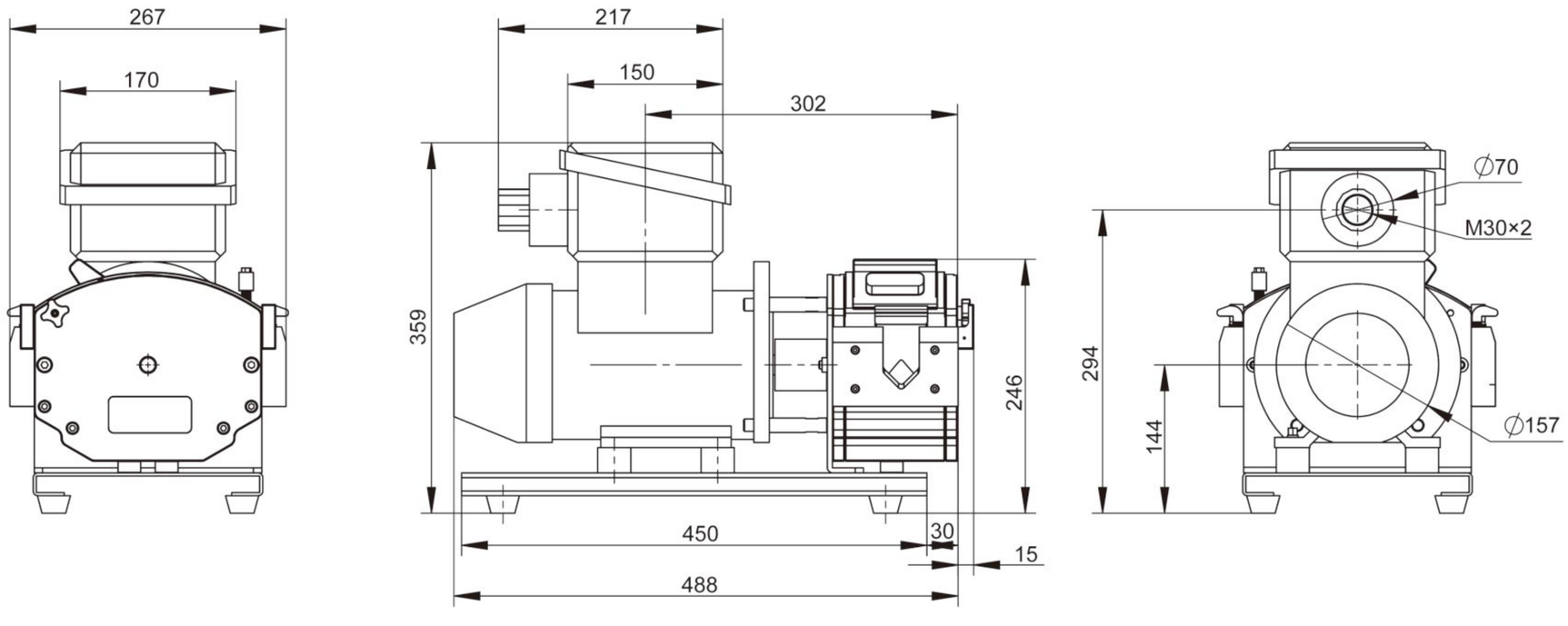
Typical Application

- Bio-medical
- Chemical industry
- Environmental protection



Roller Components Graph

Dimension Drawing(Unit: mm)



Product Composition and Flow Rate Range

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

Explosion Proof Peristaltic Pump

EXP600/EasyPump

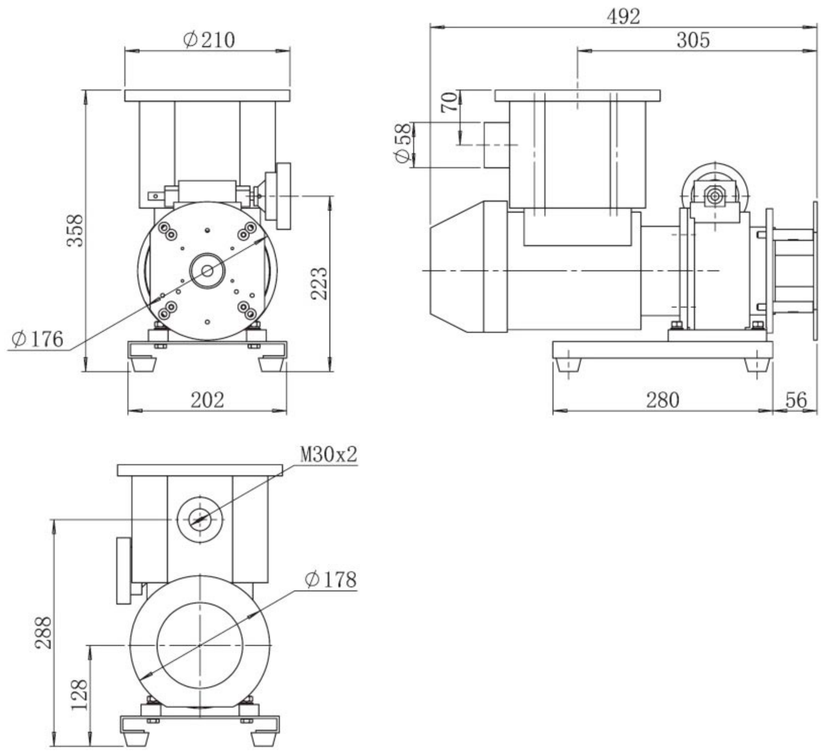
Features

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

IP rate: IP55
Explosion-proof grade:ExdIIBT4 Gb

Suitable for inflammable and explosive industrial sites.

Dimension Drawing(Unit: mm)



EXP600 with Frequency Converter

Technical Specifications

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

Product Composition and Flow Rate Range

Drive	Speed(rpm)	Pump Head	Tubing Size	Flow Rate (mL/min)
EXP600	60-600	AMC	1×1, 2×1, 2.4×0.8, 3×1, 0.13×0.86, 0.19×0.86, 0.25×0.86, 0.51×0.86, 0.89×0.86, 1.14×0.86, 1.42×0.86, 2.06×0.86, 2.79×0.86	0.12~65.17
		EasyPump	13#, 14#, 19#, 16#, 25#, 17#, 18#	3.18~2580
			15#, 24#, 35#, 36#	108~3100
		YZ1515x	13#, 14#, 19#, 16#, 25#, 17#, 18#	1.2~2280
		YZ2515x	15#, 24#	102~1740
		YZ35	26#, 73#, 82#	414~12000
		DZ25-3L	15#, 24#, 35#, 36#	126.6~3600
		DZ25-6L	15#, 24#, 35#, 36#	180~6000
		SN15	14#, 16#	14.4~528
		SN25	24#	150~1500
EXP300	37.5-350	DZ45	88#, 92#	1000~28150

Explosion Proof Peristaltic Pump

QD600

Suitable Pump Head

EasyPump Series

YZ Series

AMC Series

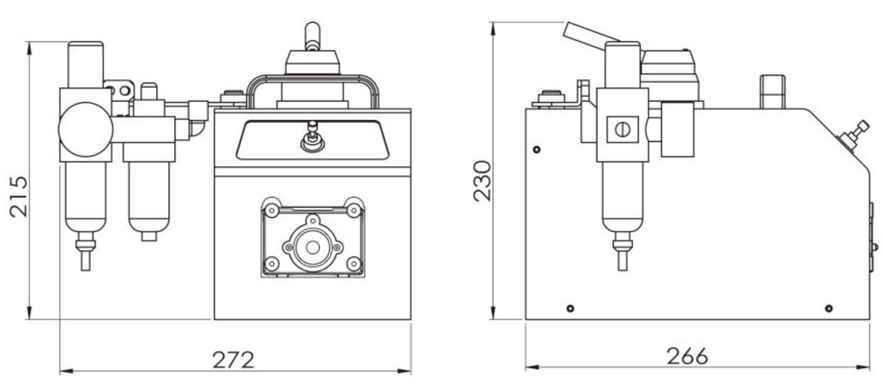
DZ25-3L

Features

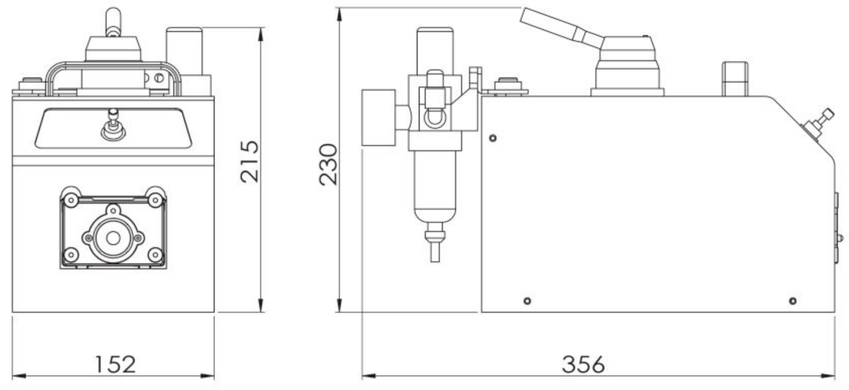
- Pneumatic motor driver, gas driving, explosion-proof and safe.
- Stepless speed regulation, manual control flow valve. Start/stop,direction,overload protection functions.
- Barometer, convenient for users to check the pressure value.
- Suitable for inflammable,explosive industrial sites.

Dimension Drawing(Unit: mm)

Working status dimension drawing



Non-working status dimension drawing



Technical Specifications

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

Product Composition and Flow Rate Range

Peristaltic Pump		Pump Head & Flow Rate (mL/min)			
		Yz1515x	Yz2515x	MC1~MC12	DZ25-3L
Drive & Speed \ Tubing		13#, 14#, 19#, 16# 25#, 17#, 18#	15#, 24#	Inner diameter: 0.13-3mm Wall thickness: 0.8-1mm	15#, 24#, 35#, 36#
QD600	60-600rpm	5~2280	100~1740	0.111-65 (working speed≤150rpm)	120~3600
		EasyPump		AMC1~AMC12	
		1.60 mm wall thickness	2.40 mm wall thickness	10 roller	6 roller
		13#, 14#, 19#, 16# 25#, 17#, 18#	15#, 24#, 35#, 36#	Inner diameter: 0.13-3mm Wall thickness: 0.8-1mm	
		3.18~2580	108~3100	0.12~48.38	0.12~65.17

Pump Head Flow Meter

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

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

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

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

MC Technical Specifications					
Tubing	Speed	Flow rate of pump head with 10 rollers (mL/min)	Flow rate of pump head with 6 rollers (mL/min)	Tubing maximum pressure (Mpa)	
				Continuous	Intermittent
1×1	0.1~150rpm	0.0046~6.90	0.0053~7.95	0.1	0.1
2×1		0.0156~23.40	0.021~31.35		
2.4×0.8		0.0212~31.80	0.0274~41.10		
3×1		0.0324~48.60	0.043~64.95		
0.13×0.86		0.00016~0.24	0.000185~0.277		
0.19×0.86		0.0002~0.27	0.0003~0.420		
0.25×0.86		0.0003~0.480	0.0005~0.720		
0.51×0.86		0.0014~2.10	0.0020~3.0		
0.89×0.86		0.0039~5.85	0.0057~8.55		
1.14×0.86		0.0066~9.90	0.0090~13.5		
1.52×0.86		0.0093~13.95	0.0133~19.95		
2.06×0.86		0.015~22.50	0.0250~37.5		
2.79×0.86		0.024~35.85	0.037~55.50		

EasyPump Series Technical Specifications

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

HandyPump Technical Specifications

Pump Head	Channel number	Tubing	ID×Wall thickness(mm)	mL / r	Speed(rpm)	Flow Rate(mL/min)	Weight(kg)
HandyPump01	Single channel	13#	0.8×1.6	0.033	0.1~300	0.0033~10.03	0.224
		14#	1.6×1.6	0.187		0.0187~56.09	
		19#	2.4×1.6	0.371		0.0371~111.17	
		16#	3.1×1.6	0.636		0.0636~190.76	
		25#	4.8×1.6	1.219		0.1219~365.69	
HandyPump02	Dual channel	13#	0.8×1.6	0.033	0.1~300	0.0033~10.03	0.224
		14#	1.6×1.6	0.187		0.0187~56.09	
		19#	2.4×1.6	0.371		0.0371~111.17	
		16#	3.1×1.6	0.636		0.0636~190.76	

YZ Series Technical Specifications

Pump Head	Tubing	ID×Wall thickness(mm)	mL / r	Flow Rate(mL/min) (0.1–600rpm)	Tubing Max.Pressure(Mpa)		Material/Weight(kg)	
					Intermittent	Continuous	PSF	PPS
YZ1515x	13#	0.8×1.6	0.07	0.007~42	0.27	0.17	0.40 (3 rollers)	0.46 (3 rollers)
	14#	1.6×1.6	0.27	0.027~162				
	19#	2.4×1.6	0.55	0.055~330				
	16#	3.1×1.6	0.82	0.082~492				
	25#	4.8×1.6	1.7	0.17~1020	0.24	0.14	0.44 (6 rollers)	0.50 (6 rollers)
	17#	6.4×1.6	2.9	0.29~1740	0.14	0.10		
	18#	7.9×1.6	3.8	0.38~2280	0.10	0.07		
YZ2515x	15#	4.8×2.4	1.7	0.17~1020	0.27	0.17	0.40 (3 rollers)	0.46 (3 rollers)
	24#	6.4×2.4	2.9	0.29~1740				

YZ35 Technical Specifications

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

DZ25 Series Technical Specifications

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

Peristaltic Pump Accessories

A Filling Nozzle

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

B One Way Checkvalve

Avoid liquid drop off after filling and transferring.

C Filling Countersunk

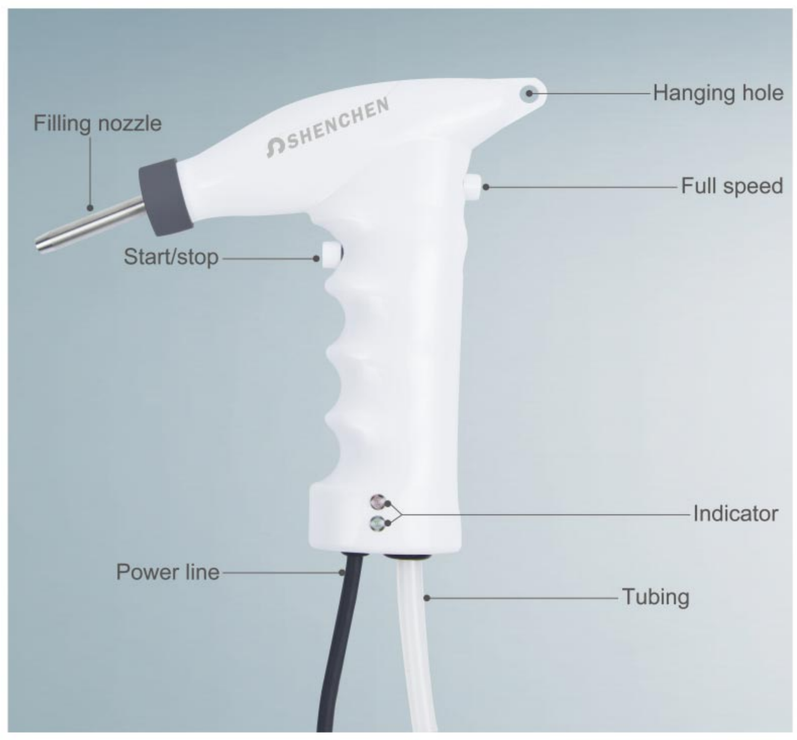
Used for the output of tube, preventing the tube floating or absorbing the wall of container.

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

D Fluid Pulse Damper

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

E Handling Dispenser



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

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

F Foot Pedal Switch

water proof

Control the pump start/stop with foot pedal switch.

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

G Tube Connector

a Straight tube connector

b "Y" tube connector

c Tee tube connector

d Reducer tube connector

e "L" tube connector

f Flexible/Hard tube connector

H PH Controller

Work with peristaltic pump, can control the liquid PH value,

add acid or alkali automatically.

Function:

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

I 5V Sensor

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

J Benchtop Tubing Cutter

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

K Support Stand

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

Peristaltic Pump Tubing

Silicone Tubing

- Platinum–cured silicone tubing
- Slightly clarity, smooth surface, low protein binding levels, fewer potential leachable .
- Ideal for pharmaceutical and biotechnology use, suitable temperature range –51~238 ℃.

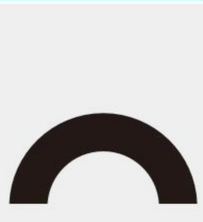
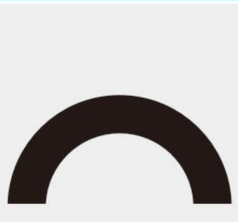
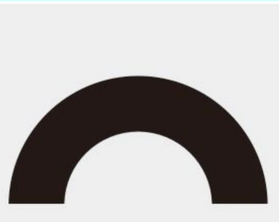
Micro Flow Rate Tubing

Tubing Size		0.13×0.86	0.5×0.86	0.86×0.86	1.52×0.86	2.06×0.86	2.79×0.86	1×1	2×1	3×1	2.4×0.8
Tubing cross sections (1:1)											
Wall thickness (mm)					0.86				1.0		0.8
Inside diameter (mm)		0.13	0.5	0.86	1.52	2.06	2.79	1.0	2.0	3.0	2.4
Maximum pressure (Mpa)	Conti-nuous	0.1									
	Interm-ittent	0.1									

Basic Flow Rate Tubing

Tubing Size		13#	14#	19#	16#	25#	17#	18#	15#	24#	35#	36#
Tubing cross sections (1:1)												
Wall thickness	mm	1.6							2.4			
	inch	1/16							3/32			
Inside diameter	mm	0.8	1.6	2.4	3.1	4.8	6.4	7.9	4.8	6.4	7.9	9.6
	inch	1/32	1/16	3/32	1/8	3/16	1/4	5/16	3/16	1/4	5/16	3/8
Maximum pressure (Mpa)	Conti-nuous	0.17				0.14	0.1	0.07	0.17		0.14	
	Interm-ittent	0.27				0.24	0.14	0.1	0.27		0.24	

Industrial Tubing

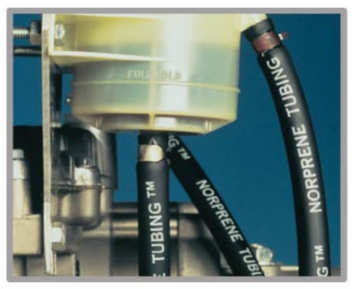
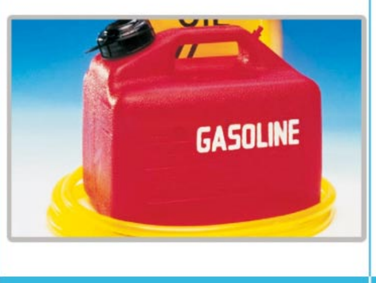
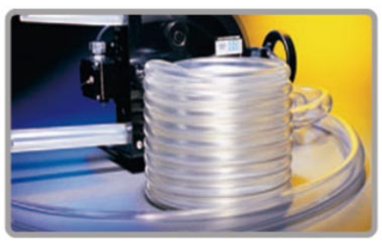
Tubing Size		26#	73#	82#	86#	90#	88#	92#
Tubing cross sections (1:1)								
Wall thickness	mm	3.3			6.3		4.8	
	inch	1/8			1/4		3/16	
Inside diameter	mm	6.4	9.6	12.7	9.5	19	12.7	25.4
	inch	1/4	3/8	1/2	3/8	3/4	1/2	1
Maximum pressure (Mpa)	Conti-nuous	0.2			0.25			
	Interm-ittent	0.27			0.3			

Peristaltic Pump Tubing

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

	A Tygon3350	B Tygon E-3603	C Norprene Chemical	D PharMed	E Norprene A-60-F
					
Formulation	Tygon3350	Tygon R-3603	Norprene Chemical	PharMed	Norprene A-60-F
Application	Pharmaceutical, cosmetic, medical and auto-analysis application.	General laboratory, food & beverage, biopharmaceutical, analytical instruments.	Elcellent for chemical processing and general industrial applications. Food and beverage applications where extractables are a concern.	Cell and tissue culture work and pharmaceutical uses. Also good for light-sensitive samples.	Ideal for the food, dairy and beverage.
Advantages	Ultra-smooth; minimizes bacterial growth. Good for mild to medium concentration bases, salts and alcohols; odorless, tasteless, and nontoxic. Transparent.	Inexpensive tubing for general lab application. Nonaging,nonoxidizing. Clear for easy flow monitoring. Handles virtually all inorganic chemicals. Low gas permeability. Smooth bore; good for viscous fluids. High dielectric constant.	Norprene thermoplastic elastomer outer jacket with chemically inert Tygon® 2075 inner bore for excellent chemical resistance. Plasticizer-free to guard against extractables. Long flex life. Opaque beige.	Great for tissue and cell work-nontoxic and nonhemolytic; long service life minimizes risk of fluidexposure; reduces tubing costs and pump downtime. Opaque to UV and visible light to protect light-sensitive fluids. Heat sealable, bondable, and formable. Extremely low gas permeability.	Heat, ozone, and UV light resistant. Nonaging; nonoxidizing; superior acid and alkali resistance. Opaque beige.
Application Suitability	———	ACIDS GOOD ALKALIES GOOD ORGANIC SOLVENTS NO PRESSURE GOOD VACUUM GOOD VISCOUS FLUIDS EXCELLENT STERILE FLUIDS GOOD	———	ACIDS GOOD ALKALIES GOOD ORGANIC SOLVENTS NO PRESSURE GOOD VACUUM EXCELLENT VISCOUS FLUIDS GOOD STERILE FLUIDS EXCELLENT	———
Physical characteristics	———	Thermoplastic. PVC-based material with plasticizer. Firm (stiff) material. Transparent, clear.	———	Thermoplastic elastomer. Polypropylene-based material with USP mineral oil. Excellent tensile strength. Firm(stiff) material. Opaque, beige.	———
Temp. range	–75 to 450° F (–60~232° C)	–58 to 165° F (–50~74° C)	–76 to 165° F (–60~74° C)	–60 to 270° F (–59~135° C)	–60 to 275° F (–51~135° C)
Meets classifications	FDA 21 CFR 177.2600 USP Class VI EP 3.1.9. Exceeds 3A standards Manufactured according to GMP.	FDA 21 CFR 175.300	None.	None.	FDA 21 CFR 177.2600 NSF listed (Standard 51) Manufactured according to GMP.
Cleaning/ Sterilization	Ethylene oxide gamma irradiation, or autoclave for 30 min, 15psi (1 bar).	Unaffected by commercial sanitizers (with recommended procedures) Sterilize with ethylene oxide (ETO) or autoclave. To autoclave: Coil loosely in nonlinting cloth or paper, autoclave at 121℃ (250°F). 1KG/cm³ (15psi) for 30 minutes (tubing will appear milky); air dry at max 66℃ (150°F) for 2 to 2 ½ hours until clear.	Sterilize with ethylene-oxide(ETO), autoclave or gamma irradiation up to 2.5Mrad. Repeated autoclaving will not affect overall life.	Autoclave, ethylene oxide, or gamma irradiation.	Autoclave.

Peristaltic Pump Tubing

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

SHENCHEN

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