# Lab PUMPS 2016

New Era Pump Systems, Inc.

SyringePump.com

2013 Catalog

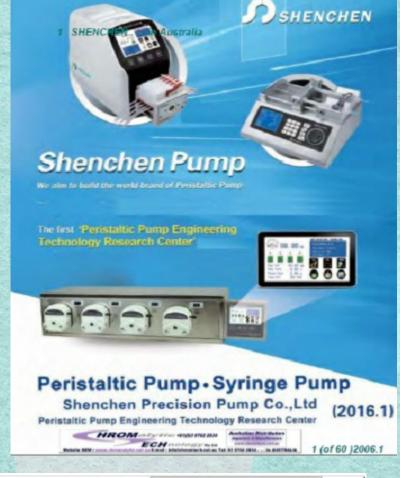






NEW ERA Syringe Pumps & Peristaltic Pumps

Shenchen Peristaltic: Lab & Industrial & Syringe Pumps





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Shenchen Pump

We aim to build the world brand of Peristaltic Pump

The first 'Peristaltic Pump Engineering Technology Research Center'





#### Peristaltic Pump · Syringe Pump

Shenchen Precision Pump Co.,Ltd

(2016.1)

Peristaltic Pump Engineering Technology Research Center

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#### 2 SHENCHEN . . . in Australia

- 2. Industrial Field
- 3. Filling Production Line
- 4. Laboratory Application
- Supporting
- 6. Filling Production Line













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#### SPLab10

#### **Model Number**

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



- Chromatic LCD display: Friendly human-computer interface; Large-screen LCD displays each technical parameter in real time.
- Syringe selection: It can be selected in the manufacturer table or input the inner diameter of the syringe barrel directly.
- Two measurement ways for option: Infusion flow volume -- Infusion speed rate Infusion flow volume - Infusion time
- Display the infusion flow volume in real time, and it has calibration function.
- Users can check and change the parameters during infusing, it comes with power-down memory function.
- Working mode: 6 working modes--Infusion, withdrawal, Infusion/ withdrawal, withdrawal/infusion, continuous, additional mode (Infusion/withdrawal, then exclude bubble). The parameter of each working mode saved separately.
- Protection function: The pump will stall and give an alarm when the drive structure of the pump is blocked.
- External control interface: Switch signal control start/stop.

#### Commonly used syringe reference flow injector

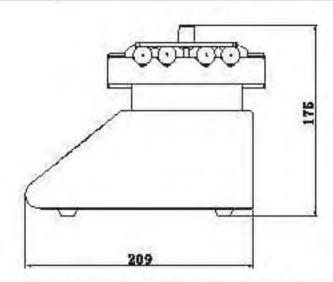
Syringe	Inside diameter(mm)	Flow rates()	L/min-mL/min)		
-,		SPLab01/SPLab02	SPLab03-SPLab10		
50 μ L	1.03	0.004~0.110	0.004-0.110		
1mL	4.61	0.083-2.203	0.083-2.203		
2.5 mL	7.28	0.208~5.492	0.208~5.492		
5 mL	10.30	0.417~10.993	0.417~10.993		
10 mL	14.57	0.834~21.997	0.834-21.997		
25 mL	23.03	2.083~54.958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

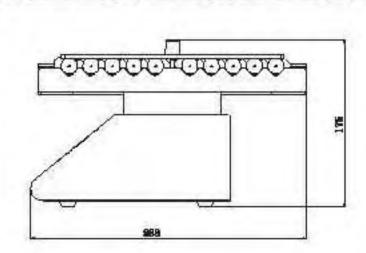
SPLab04

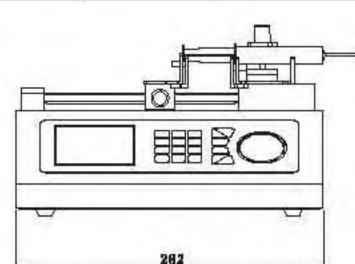
#### Installation Sizes Drawing (Unit: mm)

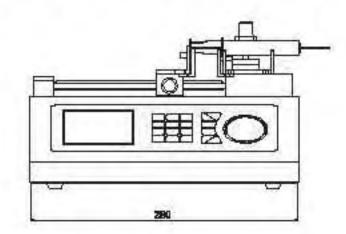
Channel number	L
4	145
6	190
8	235
10	260
12	325

SPLab10











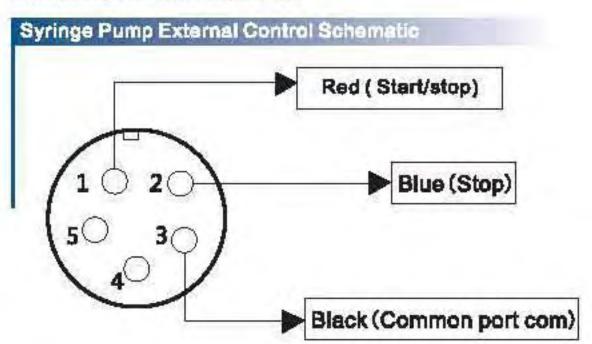
#### SPLab02





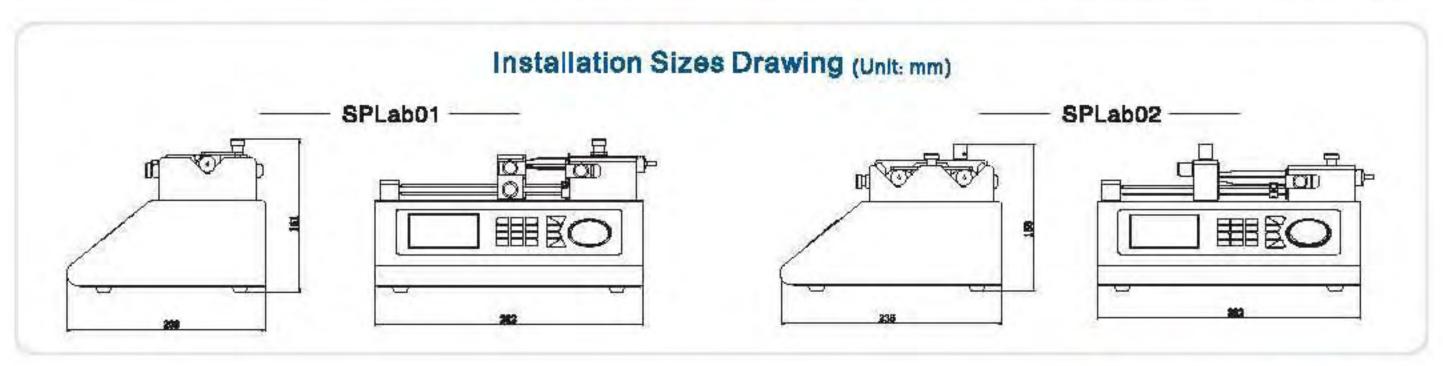
#### Product Introduction

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



#### Technical Specifications

Channel number	Working mode	Syringe size	per microstep	Flow rates	Accuracy	
1-2	Infusion/withdraw	10 µL-140mL	0.078 μ1	0.001 μ L/min-127mL/min	≤±0.5%	
3-12	11111-11111-11111-11111-1111-1111-1111-1111		10 µ L-10mL			
Max.linear force	Advance per microstep	Min. step rate	Max. step rate	Min. linear rate	Max. linear rate	
10kgf	0.078 µ m	0.0351 ms/Mirco step	0.937sec/Mirco step	5μm/min	132mm/min	
Operating mode	Display mode	Power supply	Operating condition	Weigh	it	
Rotary encoded switch	200104077771.00	AC220V ± 10%(standard)	Temperature 0-40°C	SPLab01: 4.84 Kg	SPLab02: 5.6 Kg	
and membrane keypad	320*240TFT-LCD	AC110V ± 10%(optional)	Relative humidity <80%	SPLab04: 5.73 Kg	PLab10: 6.03 Kg	





#### EM-MiniPump

#### Product Introduction

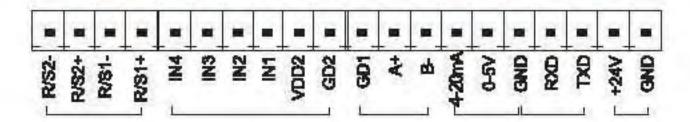
MiniPump series peristaltic pump use 42 stepper motor drive, small size, low noise. Embedded design, compact structure, fine appearance. OLED screen display the motor speed, direction and working status. The pump with external control interface can achieve external control, also can be controlled by computer.

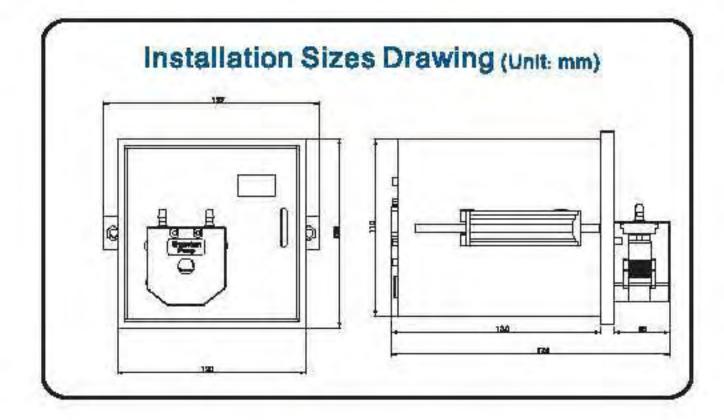
#### Features \_\_\_\_\_

- Embedded design, small space, standard industrial housing, more easy installation.
- OLED screen display.
- RS485 with MODBUS protocol, connect with PLC and HMI more easily and directly.
- Analog signal input interface, connect with inverter easily.
  EM-MiniPump external control use standard terminals, more suitable for industrial equipment.
- Low consumption, low noise.



#### EM-MiniPump External control schematic diagram





# Embedded design - Dual channel EM-MiniPump02





EM-MiniPump Series
Installation of the unique way



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

#### Technical Specifications

Flow rate range	0.0024~190 mL/min
Speed range	0.1~300 rpm, reversible.
Speed resolution	0.1rpm
Control method	Membrane keypad
Motor type	Stepper motor
Display	OLED display
External control	Start/stop, direction control (switch signal)
	0-5V, 0-10V, 4-20mA for option(Analog signal)
Communication interface	RS485 support MODBUS protocol( RTU mode)
Power supply	24V DC power
Drive dimension	110 x 120 x 220mm (LXWXH)
Weight	0.8 kg
Power consumption	< 15 W
Condition temperatur	e 0_40℃
Relative humidity	< 80%
IP rate	IP31

Drive	Motor type	Suitable pump head	Tubing size	Rotation speed	Flow rates range	
The state of the s		MiniPump01	1.6mm Wall thickness tubing: 13#、14#、16#、25#			
	Stepper	(4 rollers single channel)	1mm Wall thickness tubing: Tubing ID 1mm, 2mm, 2.5mm, 3mm	0.1-300	0.0024-190.00(mL/min)	
	motor	MiniPump02 (4 rollers dual channel)	1mm Wall thickness tubing: Tubing ID 1mm, 2mm, 2.5mm, 3mm	(rpm)	0.005-108.39(mL/mln)	

## Compact Peristaltic Pump

#### SP-MiniPump

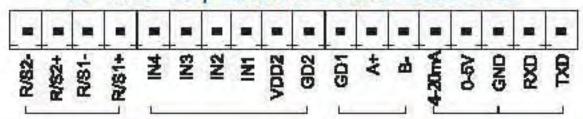
#### Product Introduction

SP-MiniPump series peristaltic pump, 304 stainless steel housing, stepper motor drive. OLED screen, display the current motor speed, direction and working status. Digital knob and toggle switch control speed and direction separately. External control with standard terminal, multiple external interface, support RS485 ( MODBUS protocol, RTU mode).

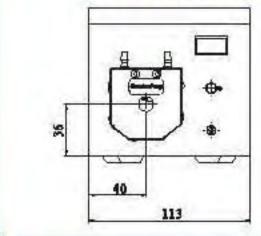
#### Features

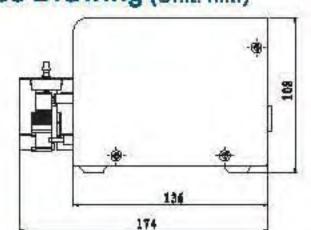
- 304 stainless steel housing, resisting corrosion, small space.
- Digital knob control speed, toggle switch control direction and start/stop.
- RS485 standard MODBUS protocol, more convenient to connect with PLC.
- Standard connection terminals, various external control function, more suitable for equipment.

#### SP-MiniPump External Control Schematic



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







#### Technical Specifications

**IP31** 

Flow rate range	0.0024~190 mL/min
Speed range	0.1~300 rpm, reversible.
Speed resolution	0.1rpm
Speed control	Digital knob control speed
Motor type	Stepper motor
Display	OLED display
External control	Start/stop,direction control (switch signal)
Spee	d control 0-5V, 0-10V, 4-20mA for option(Analog signal)
Communication Interfa	ace RS485 support MODBUS protocol (RTU mode)
Power supply	24V/1A DC power
Drive dimension	138×113×108mmmm (L×W×H)
Weight	1.64 kg
Power consumption	< 15 W
Condition temperature	0_40°C
Relative humidity	< 80%

#### EM-MiniPump and SP-MiniPump speed/flow rates reference

8.28

Rotation speed	Flow rates (m	L/min) and tubing (1 mm)	wall thickness, dual chan	nel)
(rpm)	ID 1 mm	ID 2 mm	ID 2.5 mm	ID 3 mm
5	0.25	0.90	1.28	1.78
10	0.49	1.84	2.59	3.52
15	0.74	2.76	3.85	5.30
25	1.25	4.57	6.43	8.80
40	2.00	7.31	10.25	14.02
50	2.52	9.14	12.78	17.47
75	3.76	13.64	19.04	26.12
100	5.03	18.17	25.42	35.34
200	10.12	36.45	51.27	71.44
250	12.63	45.75	64.34	88.35
300	15.01	54.63	76.84	108.39
Rotation speed	Flow rates (mL/mi	n) and tubing (1.6 mm wal	thickness, single channe	el)
(rpm)	13#Tubing ID 0.8 mm	14# Tubing ID 1.6 mm	16# Tubing ID 3.1 mm	25# Tubing ID 4.8 mm
5	0.12	0.56	1.97	3.26
10	0.26	1.15	3.90	6.41
15	0.39	1.74	5.80	9.52
26	0.66	2.88	9.59	15.74
40	1.08	4.59	15.29	25.15
50	1.34	5.69	18.96	31.14
75	2.00	8.54	28.36	46.55
100	2.73	11.37	37.66	61.98
200	5.46	22.76	76.02	124.14
250	6.81	28.40	95.08	153.63

IP rate

33.88

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114.31

300

190.00

Warmly celebrate Baoding Shenchen Precision Pump Co., Ltd is awarded as Baoding Peristaltic pump Engineering Technology Research Center.









# Warmly celebrate Baoding Shenchen Precision Pump Co., Ltd is awarded as Baoding Peristaltic pump Engineering Technology Research Center.

Celebrating "Baoding Peristaltic Pump Engineering Technology Research Center" co-established by overnment and Baoding Shenchen Precision Pump Co.,Ltd.

Shenchen Precision Pump achieves to great success in world market depends on technical strength, good cooperate reputation, high quality and unique patented products, and received a lot of attention from Baoding government, Technology Bureau, especially Mayor. After survey, investigation and many times judgment of Shenchen by specialists and professional users, Government and Baoding Shenchen Precision Pump Co.,Ltd co-establish "Baoding Peristaltic Pump Engineering Technology Research Center" which is the only



authority research institution in Baoding peristaltic pump industry.

#### Lab2015 Product Introduction





Intelligent flow rate peristaltic pump with ABS engineering housing, streamlined body design. Industrial grade 4.3 inch true color LCD screen, touch screen control. Speed range: 0.1-100rpm, flow rate range: 0.000067-380ml/min. Dynamic display transferring status, flow rate data, setting parameters. The system configuration displays in the same screen. Calibration and online micro adjusting function. 3 measurement mode: fixed volume measurement, fixed time and volume, timer start and stop. Meeting multiple complicate transferring requirement. It is the ideal choice for laboratory, instruments and industrial production.

#### Lab2015 Product Composition and Flow rate Range

Drive	Speed Range(rpm)	Pump Head	Tubing Size	Flow Rate(ml/min)
		YZ1515x	13#、14#、19#、16# 25#、17#、18#	0.007~380
Lab2015	0.1-100rpm	YZ2515x	15#、24#	0.17~290
to the second of		MC1-MC8(10)	Inner diameter: 0.13~3.17mm	0.000067~32
		MC1-MC8(6)	Wall thickness: 0.8~1mm	0.00008~42









1.Portable handheld design, feel comfortable and stable.

4.Hidden external control interface, protective cover can

can be used for tool box, install common tools.

protect the interface and data lines effectively.

SHENCHEN

Fixed volume

flow rate in 550 00ml/min. Finish the volume need

Volume

2.00

OK

3. Multifunction protective cover for external control interface,

2

SHENCHEN 1)

2.Delicate touch pen design.

1

#### **Product Introduction**

Intelligent type flow rate peristaltic pump, with ABS engineering plastic housing, streamlined body design.Industrial grade 4.3" color display with touch screen control. Speed range is 0.1-600 rpm, flow rate range is 0.000067-2280ml/min. Dynamic display transferring status. Flow rate data, setting parameters and system configuration display in the same screen. Intelligent calibration and online micro adjusting function.3 kinds of metering mode: fixed volume metering,fixed time and volume, timer start and stop, meet different transferring and dispensing request. The unique motor working status output signal, can be used for other equipments monitoring the peristaltic pump working status. Various external control modes for option, also have programmable external control mode. Support RS232 and RS485 interface, standard MODBUS communication protocol, achieve external control under different industrial conditions. It is the ideal choice for laboratory, instrument and industrial production.



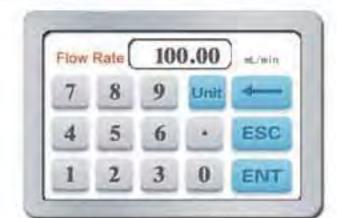
Sultable Pump Head

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



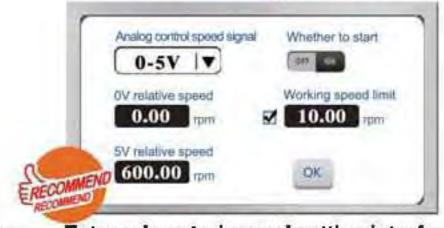






(8N15, SN25)

Flow Setting Interface



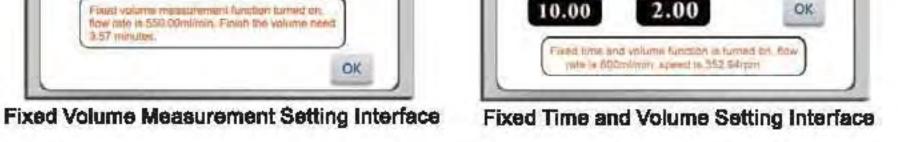
External control speed setting interface



Timer Start and Stop Setting Interface

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1.00

Pause time

Copy numbers

25

OK.

Fixed time and volume Running time

Setting volume



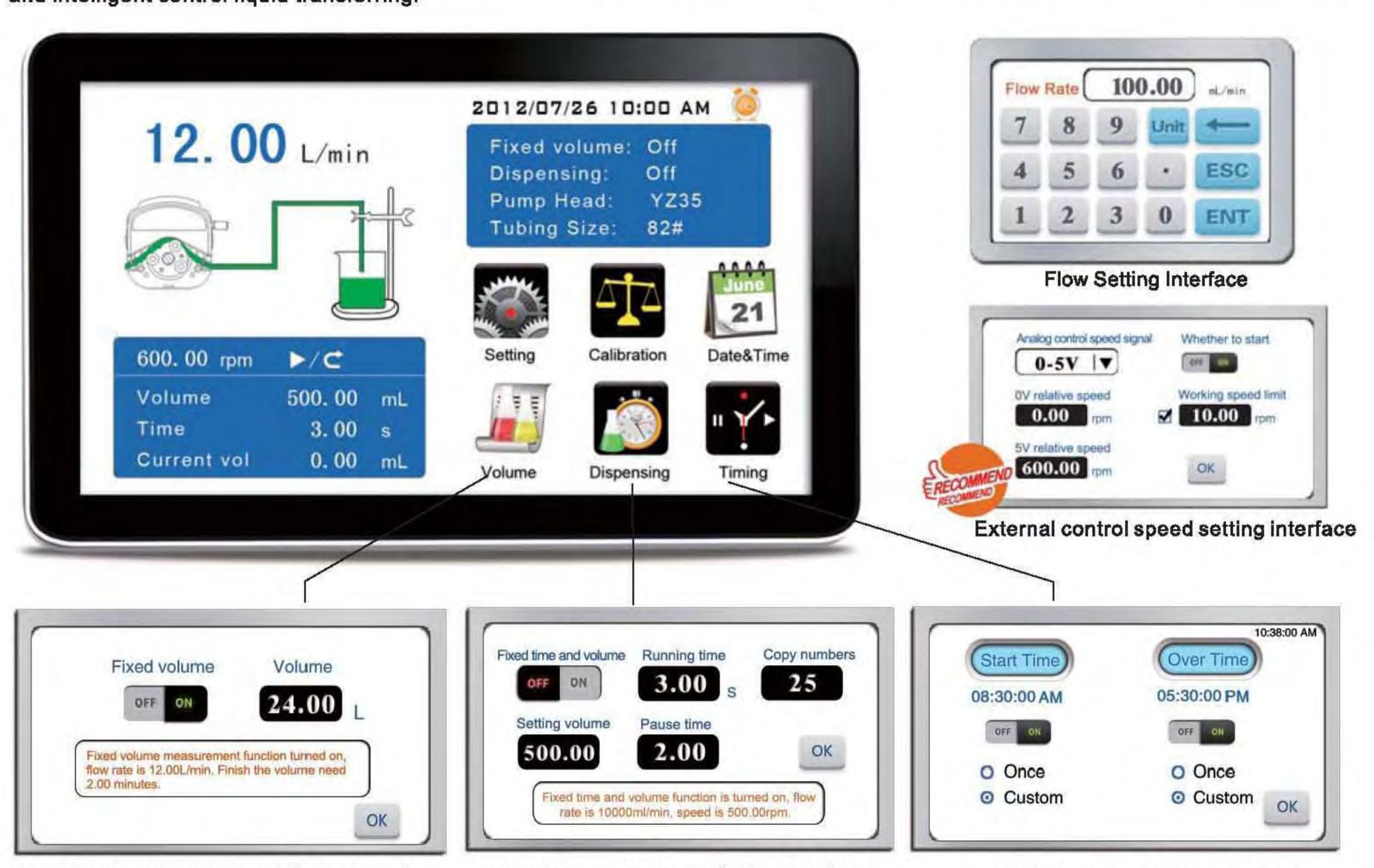
# P

# Flow Rates Peristaltic Pump



## Product Introduction

Intelligent flow rate type industrial peristaltic pump with servo motor drive, use 4.3" color display with touch screen control. Speed range: 0.1–600 rpm. Flow rate range: 0.000211–12 L/min. Dynamic display transferring state, flow rate data, setting parameters and system configuration in the same screen. Intelligent calibration and online micro adjusting function. 3 measurement mode: fixed volume measurement, fixed time and volume, timer start and stop, meet different transferring and dispensing requirement. Unique motor working status output signal, can be used for other equipments monitoring the peristaltic pump working status. Plenty external control mode for option, also have programmable external control mode. The pump support RS232 and RS485 interface with standard MODBUS protocol to achieve external control in different industrial conditions. It is the first choice for high level industrial sites, large flow rate, high precision and intelligent control liquid transferring.



Fixed Volume Measurement Setting Interface

Fixed Time and Volume Setting Interface

Timer Start and Stop Setting Interface

## Flow Rates Peristaltic Pump

#### Features

- Imported 4.3\* color display with touch screen, clear picture quality, more guarantee quality. Dynamic display working state, flow rate, rotation speed, setting parameters and system setting in the same screen.
- Imported touch screen operation, high hardness, antiscratch, high sensitivity, pay attention to users 'experience.
- Servo motor drive, precise control, strong power, low vibration and low noise.
- Shenchen-V-CIR circuit system, use imported chips, computing speed fast, reliable performance, working stable.
- Shenchen-V-EMB operation system, embedded software design, powerful function, friendly interface, pay attention to users' experience.
- Intelligent calibration function, can calibrate the flow rate or dispensing volume, ensure the flow rate accuracy. Suitable fi high precision transferring liquid.
- W Fixed volume measurement function: After turn on this function, the pump will measure the liquid volume automatically, it will stop automatically after the volume reach the set value. During the process, you can change the flow rate freely. It is suitable for laboratory liquid dosing and chemical reaction process.
- Fixed time and volume: After turn on this function, the pump will transfer fixed volume within set time. It is suitable for liquid dispensing in laboratory and industrial production.
- Timer start and stop function: Can set the pump start and stop time freely, reach automated control.

Installation Sizes Drawing (Unit: mm) V6-3L 331 V6-6L 283 347 V6-12L 394

Plenty external control function, besides start/stop, direction, speed control, RS485/RS232 interface, our pump have Shancehn-V-EMB-PGM programmable external control function to meet special industrial control request

#### External Control Schematic

-		-				-		-	-							=		=	=
0-10	79-0	4-20mA	3	\$5	GD1	GD2	S	WOOW	R/82	RAST	COM	50	0072	GND	8	8	GD1	ŧ	ф

- Online micro adjusting function. During the production process, if the tubes fatigue or abrasion, you can use the online micro adjusting function to adjust the flow rate without stopping the pump.
  - "In que accurate angle control technology, achieve high accuracy dispeg and dosing. filling function, not only can be used for washing the tubing, but also
- fill liquid to the tubing fast. matic temperature control system, reducing the fan noise effectively. d-shedding memory function, store the running parameters in time, safe and reliable.
- Strong anti-jamming feature, wide voltage design, suitable for complex power supply environment.
- Circuit board spray with three paint, anti-dust, anti-moisture, anti-static, resist corresion.
- 304 stainless steel housing, comply with pharmaceutical GMP certificate requirement. Meantime, use seamless welding technology, avoid accidental spilled liquid on the housing infiltrate inside, to protect the inside circuit board.
- DZ25-3L, DZ25-6Land YZ35 aluminum alloy pump head, 304 stainless steel rollers, strong rigidity, high accuracy, reliable performance, excellent quality.

#### Technical Specifications

Flow rate range	V6-3L: 0.211~3600 mL/min
	V6-6L: 0.3-6000 mL/mln
	V6-12L: 0.00069~12 L/min
Speed range	0.1-600 rpm
Speed resolution	0.01 rpm
Flow rate resolution	0.01 mL
Flow rate accuracy	<±0.5%
Back suction angle	0-360°
Output pressure	0.3Mpa;
Motor type	Servo motor
Circuit system	Shenchen-V-CIR
Operation system	Shenchen-V-EMB
Display	4.3" color display with touch screen
Control method	Touch screen and membrane keypad
External control signs	al0-5V, 0-10V, 4-20mA for option
Start/stop, change	Passive switch signal, such as : foot pedal.
direction signal	Active switch signal: 5V, 12V, 24V for option.
Communication interface	RS232,RS485,support MODBUS protocol (RTU) mode
Output Interface	Output motor working status (Open-Collector output)
Power supply	AC 220V ± 10% 50Hz/60Hz (standard)
	AC 110V ± 10% 50Hz/60Hz (optional)
Drive dimension	V6-3L: 223 x 152 x 200mm; V6-6L: 283 x 192 x 218mm
(TXMXH)	V6-12L: 302 x 222 x 275mm
Weight	V6-3L: 5.02kg; V6-6L: 7.85kg; V6-12L: 13.14kg;
Power consumption	V6-3L: < 80W; V6-6L: < 180W; V6-12L: < 300W
Condition temperatur	e 0–40°C
Relative humidity	< 80%
IP rate	IP31

#### Product Composition and Flow Rate Range

Drive	Motor Type	Pump Head	Tubing Size	Speed Range(rpm)	Flow Rate Range(mL/mln)
V6-3L		DZ25-3L	15', 24', 35', 36'		0.211~3600
V6-6L	V6-6L Servo Motor V6-12L	DZ25-6L	15', 24', 35', 38'	0.1-600	0.3~6000
V6-12L		YZ35	26', 73', 82'		0.69~12000

# Flow Rates Peristaltic Pump



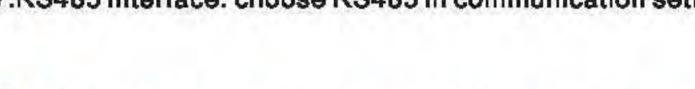


V Series peristaltic pump has various external control interface, can meet different equipment matching requirements.

4-20mA

#### 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, reversing 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 interface: choose RS232 in communication setting interface, this port is effective.
- 7.RS485 interface: choose RS485 in communication setting interface, this port is effective.

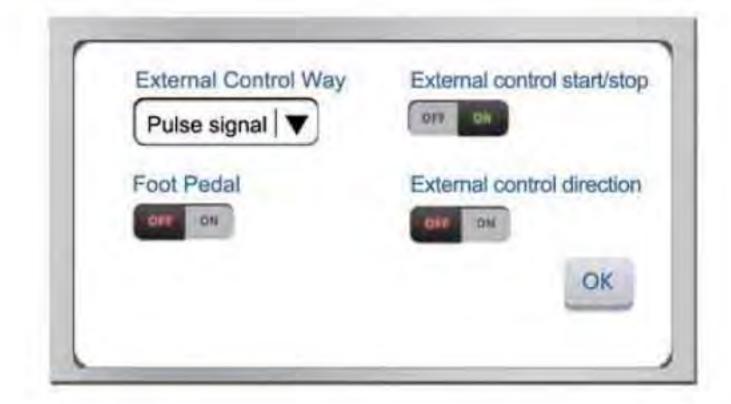


#### Choose external control start/stop, direction signal

1.Can set external control start/stop or reversing switch whether effective or not respectively.

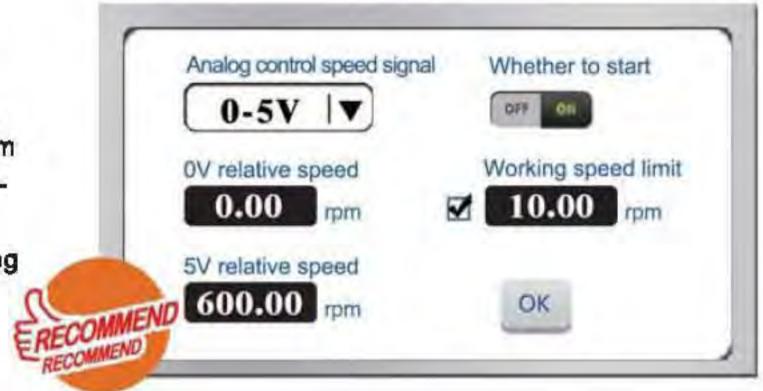
V Series peristaltic pump external control setting interface.

- 2.Can choose control mode according to requirement: pulse mode or level mode.
- 3.Can set the foot switch whether effective or not.
- 4.Can choose switch value signal 's high level values according to customers' main control equipment: 5V(default)、12V、24V.



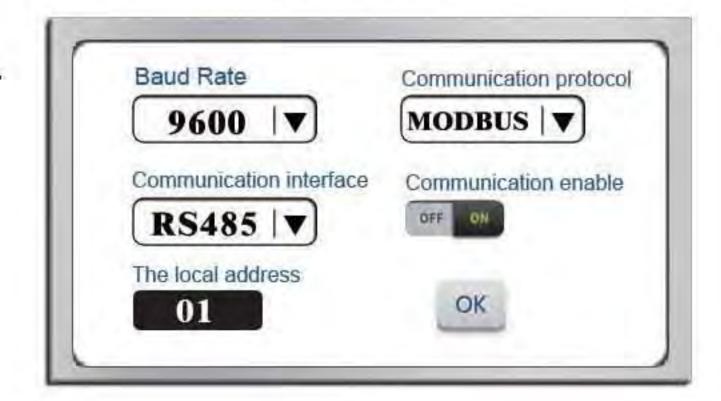
#### Programmable external control speed setting

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



#### Communication Setting

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



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## Flow Rates Peristaltic Pump



#### Product Introduction

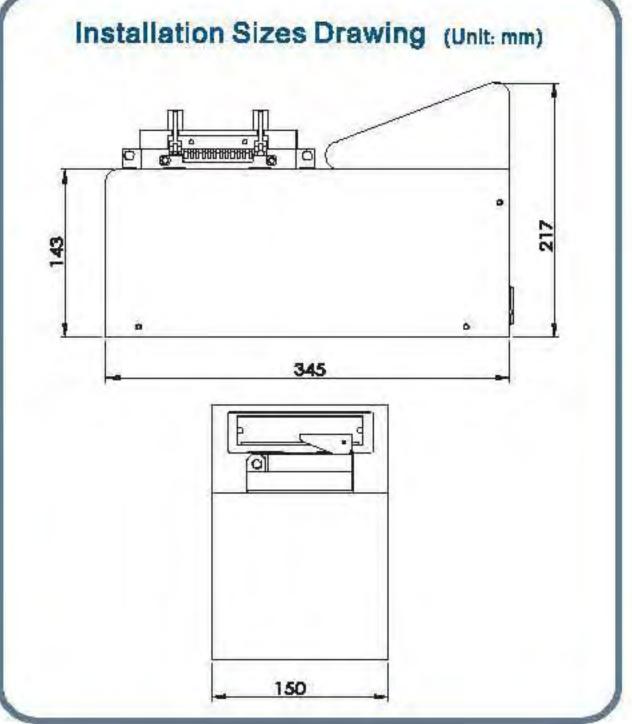
Servo motor drive TC50/MT12 peristaltic pump, special for flow injection analyzer. MT12 pump head, use overall block design to improve the accuracy between channels. The error between channels < 3%. TC50 control unit, use 4.3° color display with touch screen control. Speed range: 0.1-50 rpm, flow rate range: 0.0016-10.5mL/min. Dynamic display the transferring status, flow rate, setting parameters and system configuration in the same screen. Intelligent calibration and online micro adjusting function. 3 measurement modes: Fixed volume measurement, Fixed time and volume, Timer start and stop achieve different transferring and dispensing request. Unique motor working status output signal, can be used for other equipments to monitor the peristaltic pump working state. Different external control modes for selection, also have programmable external control mode. Support RS232 and RS485 interface, MODBUS protocol. The TC50 pump is the first choice for multichannel, high precision and micro flow rate liquid transferring.

#### Special for flow injection analyzer

#### Technical Specifications

Flow rate range	0.0016-10.5 mL/min					
Speed range	0.1-50 rpm					
Speed resolution	0.01 rpm					
Flow rate resolution	0.01 μ Ι					
Flow errors between channels	<3%					
Back suction angle	0-360°					
Output pressure	0.15 Mpa					
Motor type	Servo motor					
Circuit system	Shenchen-V-CIR					
Control system	Shenchen-V-EMB					
Display	4.3" color display with touch screen					
Control method	Touch screen and membrane keypad					
External control signal	0-5V, 0-10V, 0-20mA for option					
Start/stop.	Passive switch signal, such as: foot pedal switch					
direction signal	Active switch signal: 5V, 12V, 24V for option					
Communication Interface	RS232, RS485 support MODBUS protocol (RTU mode)					
Output interface	Output motor working status ( Open-Collector output					
Power supply	AC 220v ± 10% 50Hz/60Hz (Standard)					
	AC 110v ± 10% 50Hz/60Hz (Optional )					
Drive dimension	345×150×217mm(L×W×H)					
Drive weight	8.02 kg					
Power consumption	<50W					
Environment tempera	iture 0–40℃					
Relative humidity	< 80%					
IP rate	IP31					





#### Product Composition and Flow Rate Range

Drive	Motor Type	Pump Head	Tubing Size	Speed Range(rpm)	Flow Rate Range(mL/min)
			0.51×0.9		0.0016~0.84
TC50 Servo Motor	MT12	1.02×0.86 0.1–50		0.005~2.5	
1030	Sel ad Iniotol	MITIZ	2.06×0.86	0.1-50	0.015~7.5
			2.54×0.86		0.020-10.5







#### Product Introduction

Intelligent type dispensing peristaltic pump, with ABS engineering plastic housing, streamlined body design. Industrial grade 4.3° color display with touch screen control. Can preset dispensing volume, dispensing time, pause time, copy numbers and back suction angle. Dynamic display the working status, dispensing data, setting parameters and system configuration in the same screen. Intelligent calibration and online micro adjusting function. Can connect with foot pedal or receive switch signal, achieve external control. The unique motor working status output signal, can be used for other equipments monitoring the peristaltic pump working status. This pump suitable for large flow volume, high efficiency and precision filling.



#### Typical Application

- Widely used in medicine and chemicals, such as oral liquid, diagnostic reagents.
- Cosmetic dispensing, such as perfume, lip gloss.



#### F6/YZ1515x(PSF)

#### Features

- Imported 4.3" color display with touch screen, clear picture quality, more guarantee quality. Dynamic display dispensing status, dispensing volume, dispensing time, pause time, copy numbers and system setting in the same screen.
- Imported touch screen operation, high hardness, anti-scratch, high sensitivity, pay attention to users experience.
- Stepper motor drive, control precisely.
- Shenchen-F-CIR circuit system, use imported chips, computing speed fast, reliable performance, working stable.
- Shenchen-F-EMB operation system, embedded software design, powerful function, friendly interface, pay attention to users experience. Shenchen-F-EMB operation system with unique accurate angle control technology, achieve high accuracy liquid filling and dispensing.
- Intelligent calibration function, can calibrate the flow rate or dispensing volume, ensure the flow rate accuracy. Sultable for high precision liquid filling.
- The dispensing total number counting function, need to clear the numbers by manual. This is convenient for counting dispensing numbers when manual dispensing.

- Online micro adjusting function. During the production process, if the tubes fatigue or abrasion, you can use the online micro adjusting function to adjust the flow rate without stopping the pump.
- The pump can store 60 commonly used filling modes, save users setting time.
- Back suction angle setting, avoid liquid drop off when the pump stop working.
- External control start/stop function, it can connect with foot pedal switch, also can be unified controlled by the host computer when working in filling line.
- Automatic temperature control system, reducing the fan noise effectively.
- Power down memory function, store the running parameters in time, safe and reliable.
- Fast filling function, not only can be used for washing the tubing, but also can fill liquid to the tubing fast.
- Strong anti-jamming feature, wide voltage design, suitable for complex power supply environment.
- Circuit board spray with three paint, anti-dust, anti-moisture, anti-static, resist corrosion.





# Dispensing Peristaltic Pump

#### Technical Specifications

Flow rate range	LabF1/F1: 0.00067~900 mL/mln
	LabF3/F3: 0.00067~2100 mL/mln
	LabF6/F6: 0.00067~3600 mL/min
Speed range	1-600rpm
Speed resolution	0.01rpm
Dispensing volume range	0.1-9999.99mL
Dispensing volume resolution	n 0.01mL
Dispensing time	0.5-9999.99s
Pause time	0.5-9999.99s
Time resolution	0.01s
Copy numbers	1-9999 numbers, setting '0' means unlimited
Back suction angle	0-360°
Dispensing accuracy	< ±0.5%
Motor type	Stepper motor
Circuit system LabF S	eries :Shenchen-LabF-CIR,F Series :Shenchen-F-CIR
Control system LabF Se	erles :Shenchen-LabF-EMB,F Serles :Shenchen-F-EMB
Display	4.3"color display with touch screen
Control method	Touch screen and membrane keypad
Otantintan dissellan alamai	Passive switch signal, such as foot pedal switch
Start/stop, direction signal	Active switch signal: 5V, 12V and 24V for option
Communication Interface	RS232/RS485 support MODBUS protocol (RTU mode)

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**External Control Schematic** 

Output Interface	Output motor working status (Open-
	Collector output)
Power supply	$220V \pm 10\%$ , $50Hz/60Hz$ (standard),
	110V ± 10%, 50Hz/60Hz (optional)
Outlet pressure	0.1Mpa(0.86-1.0mm wall thickness tubing)
	0.1-0.27Mpa (1.6-2.4mm wall thickness tubing)
Drive dimension	LabF Series:261.4 x 157.3 x 236.9mm ( L x W x H
	F Series:219.6 x 152 x 211.6mm ( L x W x H )
Drive weight	LabF Series :4.40 kg, F Series :4.20 kg
Power consumpt	ion <50W
Environment terr	perature 0–40℃
Relative humidity	< 80%
IP rate	IP31



#### Product Composition and Flow Rate Range

Dispensing			Pump head & Flow rates (mL/min)									
MIE 1940 ₱703UN 197	tic pump	YZ1515x	YZ2515x	MC1~MC12(10)	MC1~MC12(6)	DZ25-3L	SN25	SN15-14	SN15-16			
Drive & speed	Tubing	13', 14', 19', 16' 25', 17', 18'	15",24"		Inner diameter: 0.13–3.17mm Wall thickness: 0.86–1mm			14*	16"			
LabF1/F1	1-150rpm	0.07~570	1.7~435	0.000067-32	(suggest working		2.5 - 375	0.24~36	0.88 - 132			
LabF3/F3	1-350rpm	0.07~1330	1.7~1015	(suggest working rotating speed ≤			2.5 ~ 875	0.24 - 84	0.88~308			
LabF6/F6	1-600rpm	0.07-2280	1.7~1740	150rpm)	150rpm)	2.11 ~ 3600	2.5 - 1500	0.24 - 144	0.88 ~ 528			

#### D LabF6/F6 Filling Volume Reference Parameter (Media is water)

Controller	Pump head	Tubing	Filling Volume (mL)	Filling Time (8)	Filling Accuracy (±%)	Output(pcs/min)	Motor Speed(rpm
		13#	0.1	0.5	±5ul	60	204.083
		13#	0.3	0.7	1.5	42	426.251
		13#	0.5	1	0.8	30	516.081
		13#	1	2	0.5	15	517.152
		14#	2	1	1	30	446.724
		14#	3	1.5	0.8	20	446.479
		19#	5	1.2	1	25	454.919
	5472500000	16#	7	1	0.5	30	457.705
LabF6/F6	YZ1515x	25#/15#	10	1	1	30	303.426
24/4/2-120/2	YZ2515x	25#/15#	15	1	0.8	30	461.273
		25#/15#	20	1.2	0.5	25	518.945
		17#/24#	30	1.2	0.8	25	462.725
		17#/24#	50	2	0.5	15	461.595
		18#	80	2.5	0.5	12	427.274
		18#	100	3	0.5	10	446.583





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

#### Product Introduction

Servo motor drive intelligent dispensing industrial peristaltic pump, use imported 4.3 color display with touch screen control, can preset the dispensing volume, dispensing time, pause time, copy numbers and back suction angle. Dynamic display the working status, dispensing parameters, setting parameters, system configuration in the same screen. Intelligent calibration and online micro adjusting function. Can connect with foot pedal or receive switch signal, achieve external control. Unique motor working status output signal, can be used for other equipments monitoring the peristaltic pump working status. This pump is sultable for large flow volume, high efficiency and high accuracy filling. Such as: filling 500ml, the efficiency is 15 bottles per minute. Accuracy is  $\pm 0.5\%$ .

- Imported 4.3\*color display with touch screen, clear picture quality, more guarantee quality. Dynamic display dispensing status, dispensing volume, dispensing time, pause time, copy numbers and system setting in the same screen.
- Imported touch screen operation, high hardness, anti-scratch, high sensitivity, attention users 'experience.
- Servo motor drive, precise control, strong power, low vibration and low noise.
- Shenchen-F-CIR circuit system, use imported chips, computing speed fast, reliable performance, working stable.
- Shenchen-F-EMB operation system, embedded software design, powerful function, friendly interface, pay attention to users' experience.
- Shenchen-F-EMB operation system with unique accurate angle control technology, achieve high accuracy dispensing and dosing.
- Intelligent calibration function,can calibrate the flow rate or dispensing volume, ensure the flow rate accuracy. Suitable for high precision liquid filling.
- Online micro adjusting function. During the production process, if the tubes fatigue or abrasion, you can use the online micro adjusting function to adjust the flow rate without stopping the pump.
- The pump can store 60 commonly used filling modes, save users setting time.

- Back suction angle setting, avoid liquid drop off when the pump stop working.
- External control start/stop function, it can connect with foot pedal switch. The pump also can be unified controlled by the host computer when working in filling line.
- Automatic temperature control system, reducing the fan noise effectively.
- Load-shedding memory function, store the running parameters in time, safe and reliable.
- Fast filling function, not only can be used for washing the tubing, but also can fill liquid to the tubing fast.
- Strong anti-jamming feature, wide voltage design, suitable for complex power supply environment.
- Circuit board spray with three paint, anti-dust, anti-moisture, antistatic, resist corresion.
- 304 stainless steel housing, comply with pharmaceutical GMP certificate requirement. Meantime, use seamless welding technology, avoid accidental spilled liquid on the housing infiltrate inside, to protect the inside circuit board.
- DZ25-6L aluminum alloy pump head, 304 stainless steel rollers, strong rigidity, high accuracy, reliable performance, excellent quality.

#### Technical Specifications

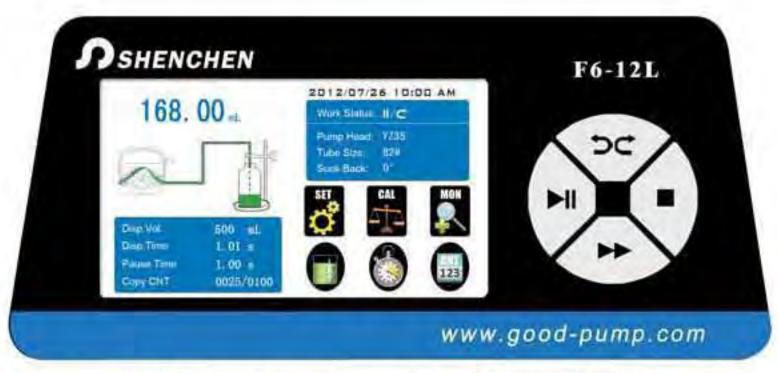
Flow rate range	F6-3L: 2.11-3600 mL/mln
	F6-6L: 3-6000 mL/min
	F6-12L: 0.0069-12 L/min
Speed range	1-600rpm
Speed resolution	0.01rpm
Dispensing volume range	0.1-9999.99mL
Dispensing volume resolution	0.01mL
Dispensing time	0.5-9999.99s
Pause time	0.5-9999.99s
Time resolution	0.01s
Copy numbers	1-9999 times,0 represent infinite.
Back suction angle	0-360°
Dispensing accuracy	±0.5%
Motor type	Servo motor
Circuit system	Shenchen-F-CIR
Operation system	Shenchen-F-EMB

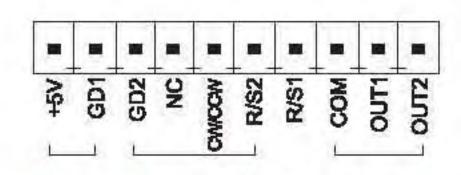
Display	4.3°color display with touch screen
Control method	Touch screen and membrane keypad
Start/stop,	Passive switch signal, such as:foot pedal.
change direction	Active switch signal: 5V, 12V, 24V for option.
Communication in	nterface RS232,RS485,support MODBUS protocol
Output Interface	Output motor working status (Open-Collector output)
Output pressure	D.3Mpa
Downe number	220V ± 10%, 50Hz/60Hz ( standard),
Power supply	110V ± 10%, 50Hz/60Hz (optional)
Drive dimension (L×W×H)	F6-3L: 223 x 152 x 200mm ; F6-6L: 283 x 192 x 218mm
(L×M×H)	F6-12L: 302 x 222 x 275mm
Weight	F6-3L: 5.02kg; F6-6L: 7.85kg; F6-12L: 13.14kg;
Power consumpti	
Condition temper	
Relative humidity	< 80%
IP rate	IP31

quality



# Dispensing Peristaltic Pump





F6 Series External Control Schematic

F6-12L membrane keypad and interface schematic

Controller	Pump head	Tubing	Filling Volume (mL)	Filling Time (s)	Filling Accuracy (±%)	Output(pcs/min)	Motor Speed(rpm
		15#	16	1	0.5	40	443.540
F6-3L	DZ25-3L	24#	30	1.2	1.0	35	454.877
ro-aL	DZ25-3L	35#	150	4	0.6	8	447.940
		36#	200	4	0.6	8	481.802
		15#	80	4	0.4	13	396.800
HO 01	5-4- AI	24#	150	4	0.4	13	440.700
F6-6L	DZ25-6L	35#	200	3.2	0.5	8	439.540
		36#	300	3.5	0.5	8	473.208
		26#	150	3	0.5	10	423.254
F6-12L	YZ35	73#	300	3	0.5	10	457.805
		82#	500	3	0.5	10	458.451

Drive	Pump head	Tubing Size	Filling Volume	Filling Time				Actua	I Filling	Volume(	mL)				Filling A	Accuracy							
		2	10-1	4.	15.97	15.97	16.00	16.06	15.97	15.92	15.96	16.02	16.01	15.97	O FOW	0.50%							
		15"	16mL	15	15.98	16.00	16.04	16.08	15.92	15.95	16.01	15.01	15.97	15.97	0.50%	-0.50%							
	DZ25-3L	DZ25-3L	-20.00	00-1	4.0-	29.98	30.12	30.20	30.29	30.06	29.94	30.11	30.18	30.02	29.99	* 000	0.000						
F6-3L			DZ25-3L	DZ25-3L	DZ25-3L	24"	30mL	1.28	30.23	30.24	30.12	29.99	30.12	30.23	30.20	30.30	30.19	30.11	1.00%	-0.209			
I D-OL			net.	150ml	44	149.50	149.50	150.10	150.00	149.80	148.00	149.70	149.50	150.10	149.60	0.60%	0.150						
		35*	150mL	48	149.00	149.90	149.70	149.10	149.50	150.00	150.10	150.10	149.60	149.40	0.60%	-0.159							
			200mL		199.70	200.30	200.10	200.30	200.00	200.00	200.70	200.80	200.70	200.40		0.07							
		36'		48	200.30	200.00	200.30	200.80	200.90	200.70	200.80	200.40	200.50	200.20	0.07%	-0.87							
		2.4	001	342	80.2	80.0	80.3	80.2	80.1	80.1	80.2	80.1	80.2	80.1	0.0758/	0.40=							
	15*	15'	80mL	45	80.1	79.9	80.1	79.9	80.0	80.1	19.9	80.1	80.1	80.0	0.375%	-0.125							
	DZ25-6L	200	450-1	(20)	149.9	150.2	150.0	150.1	150.0	150.3	150.0	150.1	150.3	150.0	0.200%	0.007							
F6-6L		24*	24*	24"	24	24	150mL	48	149.9	150.1	150.0	150.0	150.1	150.0	150.1	149.9	150.2	150.2	V.EUU /6	-0.087%			
FO-OL		DZZ5-0L	DZZ5-0L	DZ25-0L	D225-0L	DZ25-0L	DZ25-0L	DZ25-0L				199.7	199.9	200.2	200.2	200.2	199.6	199.8	199.8	200.1	199.9		
						35*	35'	200mL	0mL 3.58	199.5	199.2	199.5	199.9	199.5	199.3	199.8	199.3	199.6	199.9	0.100%	-0.400%		
			0001	0 =-	300.4	300.1	300.3	300.3	300.4	300.1	300.3	300.4	300.6	300.2	0.0004	0.107							
		36*	300mL	3.58	300.2	300.0	300.1	300.2	300.2	299.9	299.5	300.5	300.5	300.6	0.200%	-0.167							
		222		0-	149.3	150.3	149.6	150.2	150.5	150.1	150.5	150.1	150.5	150.0	0.33%	6.474							
		26*	26' 150mL 3s 150.4 149.9 150.4 150.0 150.3 149.8 150.3 149.9 15	150.4	150.0		-0.47%																
E6 401	V725		200-1	0-	299.9	299.8	300.0	300.1	300.4	300.2	300.4	300.4	300.6	300.5	0.074	0.070							
F6-12L	1200	YZ35 73*	300mL	38			300.5								0.27%	-0.07							
		200	COOmel	20	500.0	497.8	499.7	498.3	498.4	499.5	498.2	499.7	499.2	498.4	0.38%	0.44							
	82*	82.	500mL	38		and the second second second	501.5		The second second					the second secon	U-00 /	-0.449							

#### Product Composition and Flow Rate Range

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

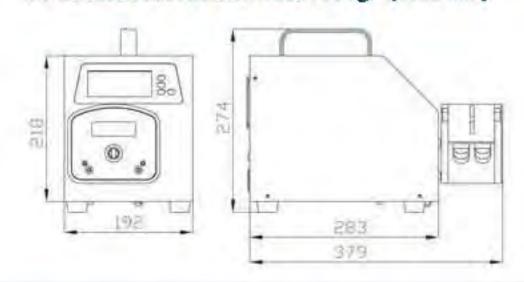




#### Product Introduction

Serve motor drive intelligent high precision, low pulse dispensing peristaltic pump.Imported 4.3 inch industrial true color LCD screen display,touch screen control. Speed range: 1-350rpm,flow rate range: 0.1-4340mL/min.Preset dispensing volume, dispensing time, pause time, copy numbers and back suction angle. Dynamic display working status. Dispensing data, setting parameters and system configuration display in the same screen. Intelligent calibration and online micro adjusting function. The pump can connect with foot pedal switch or receive switch signal, achieve external control. The unique motor working status output signal, can be used for other equipments monitoring the peristaltic pump filling status in realtime. The Low Pulsation pump head, special design 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, actually achieve micro flow rate and large flow rate high precision dispensing.

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



#### Product Composition and Flow Rate Range

**IF3 External Control Schematic** 

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

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

Tubing	Filling Volume	Filling Time			1	Actual Fi	Illing Vol	ume(mL	)				Filling	Filling Accuracy				
4.40			0.5003	0.5010	0.4982	0.5015	0.5015	0.5010	0.5014	0.5005	0.4981	0.4998	0.00%	0.276				
14"	0.5mL	0.5s	0.5025	0.4983	0.5024	0.5021	0.5020	0.5004	0.5005	0.4997	0.4977	0.5008	0.32%	-0.379				
	2000	41.0	1.0037	1.0000	1.0026	1.0003	1.0031	1.0015	1.0000	1.0007	1.0023	1.0035	a (aa)					
14"	1mL	18	1.0002	1.0020	0.9968	1.0010	0.9986	1.0026	1.0030	1.0029	1.0023	1.0017	0.42%	-0.449				
4.46	idne -	1	2.0020	2.0060	2.0039	2.0037	2.0047	1.0844	2.0062	2.0040	1.0951	2.0060		2 222				
14*	2mL	1s	2.0036	1.9940	2.0024	2.0086	1.9946	2.0005	1.9951	2.0068	1.9971	1.9965	0.80%	-0.58%				
	200	-14-2	3.0058	2.9935	3.0092	3.0008	2.9927	3.0072	3.0048	2.9914	3.0040	3.0000		2.222				
19'	3mL	18	2.9902	3.0048	3.0008	2.9919	2.9984	3.0012	3.0084	2.9915	2.9990	3.0051	0.31%	-0.339				
16*	Cont	96	5.0215	4.9982	5.0145	5.0038	4.9864	5.0183	4.9962	5.0227	5.0158	4.9806	0.504					
10	5mL	18	5.0248	5.0070	4.9861	5.0108	4.9995	5.0080	5.0044	4.9868	5.0231	4.9977	0.50%	-0.399				
05	40ml	4.	10.02	10.04	10.00	9.98	10.02	10.03	10.04	10.04	10.01	9.99	0.40%	0.000				
25*	10mL	18	10.00	10.02	10.02	10.04	9.99	9.98	10.00	10.04	10.02	10.03	0.40%	-0.20%				
0.00	100000	u ilos	15.02	14.97	14.97	14.94	15.00	15.00	14.94	14.95	14.96	14.99	0.13%	-0.47%				
25*	15mL	18	14.96	14.95	14.96	14.99	14.98	14.94	14.93	14.93	14.98	14.98						
	122	- in	29.92	30.01	29.99	29.91	29.83	29.86	29.91	29.91	29.91	29.89	0.200	-0.57%				
17*	30mL	18	29.88	29.96	30.03	30.06	30.02	30.02	30.06	29.96	29.96	29.83	0.20%					
401	400-1		99.80	99.90	99.60	99.90	100.00	100.10	100.10	100.00	100.10	100.00	0.009	0.000				
18"	100mL	2.58	99.80	100.00	100.10	100.20	99.90	100.10	100.00	100.30	100.10	100.10	0.30%	-0.209				
2.4	-3% -2	3.0	9.97	10.01	9.96	9.98	10.01	9.96	9.97	8.99	9.96	9.96	0.460/					
15*	10mL	18	10.00	9.94	9.97	10.00	9.96	9.97	10.00	10.00	10.01	9.97	0.10%	-0.609				
Total .	30		29.90	29.80	30.10	29.90	29.90	30.00	29.90	29.90	30.00	29.90						
24*	30mL	1\$	29.90	29.90	29.90	29.90	29.90	29.80	30.00	29.90	29.90	30.00	0.33%	-0.679				
200	2200		69.80	69.90	69.90	69.90	69.70	70.10	70.00	69.70	69.90	69.90						
35*	70mL	1.2\$	69.90	70.10	70.00	69.90	70.30	69.70	70.10	69.70	69.70	69.90	0.43%	-0.43%				
not	100-1		99.80	99.90	99.80	99.80	100.00	99.90	99.90	99.90	99.90	99.90	A 4044					
36*	100mL	28	99.80	99.90	99.90	99.90	100.00	100.10	99.80	100.10	99.90	99.90	0.10%	-0.20%				



#### DF600







#### Product Introduction

DF series intelligent type integrated filling system, consist of control unit and integrated filling units, each group have 4 filling units. One controller control 4 groups, total 16 filling units. 4.3" color display with touch screen controll, can preset the filling volume, filling time, pause time, copy numbers and back suction angle. Dynamic display the working status, filling data, setting parameters and system configuration in the same screen. Intelligent calibration and online micro adjusting function. The system can connect with foot pedal switch or receive switch signal, to achieve external control. The unique motor working status output signal, can be used for other equipments monitoring the pump filling status. Pay attention to users' experience, suitable for non-pollution, high precision fluid filling. The filling precision is 0.5%-1%.

#### Typical Application

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

### Model Number

- DF600
- DF600 Plus
- DF600 II
- DF600 Plus II.

#### DF600 Plus

Connected with HMI, PLC etc. industrial control system, one controller can control 4 groups total 16 filling units. It can display the details of 16 filling units in the HMI, widely used for industrial control occasion.

## DF600 Plus





#### Features

Accurate angle control technology, high precision filling. Color touch-screen control, friendly interface, dynamic display filling state, also display the filling parameter and system settings in the same screen.

Intelligent calibration function, it will calibrate the filling volume before production to ensure the filling accuracy, help you to improve the working efficiency.

The online calibration and micro adjusting function, more convenient to calibrate or micro adjust the filling unit during production progress. It can avoid the filling errors because of tubing fatigue and elasticity

Extend filling units on one controller freely, save cost.

decreased.

Real-time monitor, dynamic display the results of the monitoring. With alarm function, ensure the safety in production.

The filling system can store 60 commonly used filling modes, save users setting time, and improve working efficiency.

Back suction angle setting avoid liquid drop off when the pump stop working.

2012/07/26 10:00 AM Work Status: II/C Pump Hend: YZ1515x Tubo Size: 16# Such-Back: 30 Effective unit setting, you can start or stop any filling 25/100 channel during it working, meet different channel numbers requests. External control start and stop function, make it can be unified controlled by the host computer when working in filling line. Each filling units accept stop filling signal when bottle absent, reach single channel stop filling with bottle absent.

Fast filling liquid function, not only can wash the tubing, but also can fill liquid in the tubing. Separate controller and filling units, can install the controller where is

convenient to operate. 304 stainless steel housing, resist corrosion, no rust, conform to GMP sanitary request.

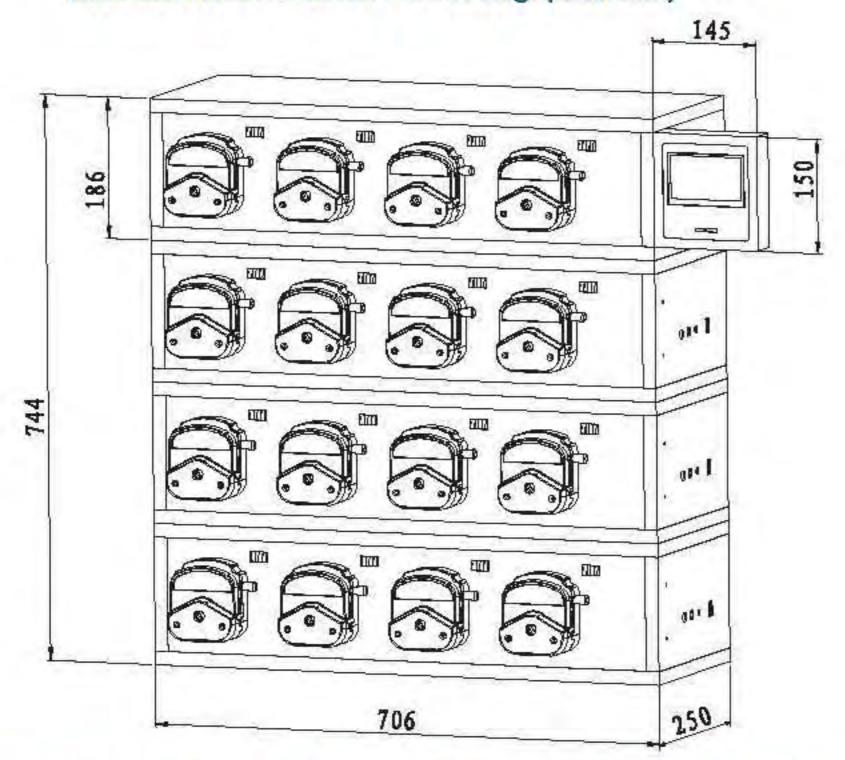
Disp Time

Pause Time

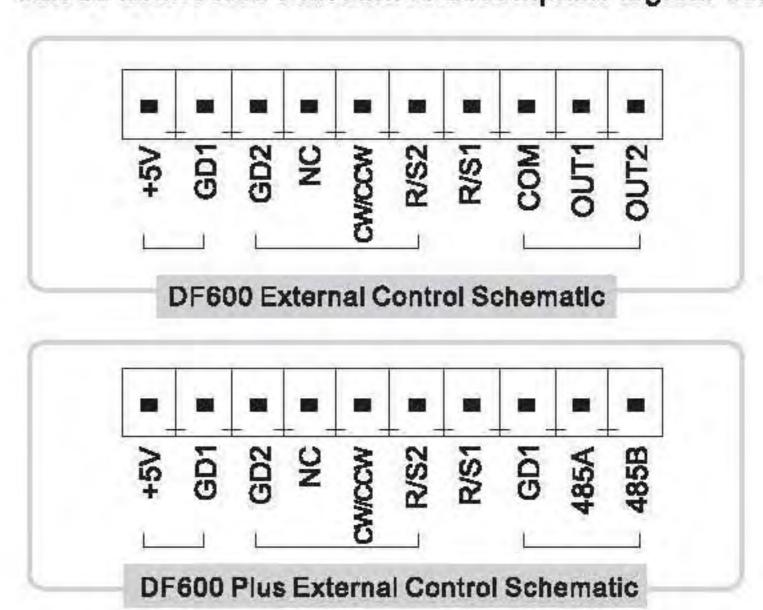
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#### Installation Sizes Drawing (Unit: mm)



DF600 with unique motor working status output signal, can be used for other equipments monitoring the pump filling status. DF600 plus use standard MODBUS communication protocol, can be connected with HMI to accomplish logical control.



## Filling Volume Reference Parameter (Media is water)

Controller	Pump Head	Tubing	Filling Volume (mL)	Filling Time (s)	Accuracy (±%)	Output (pcs/min)	Motor Speed (rpm)
		13#	0.1	0.5	±5ul	60	204.083
		13#	0.3	0.7	1.5	42	426.251
		13#	0.5	1	8.0	30	516.081
DF600 CF600 DF600 Plus		13#	1	2	0.5	15	517.152
		14#	2	1	1	30	446.724
		14#	3	1.5	0.8	20	446.479
		19#	5	1.2	1	25	454.919
	YZ1515x	16#	7	1	0.5	30	457.705
CF600 Plus	YZ2515x	25#/15#	10	1		30	303.426
CF600 Plus		25#/15#	15	1	0.8	30	461.273
		25#/15#	20	1.2	0.5	25	518.945
		17#/24#	30	1.2	8.0	25	462.725
		17#/24#	50	2	0.5	15	461.595
DF600 II CF600 II DF600 Plus II		18#	80	2.5	0.5	12	427.274
		18#	100	3	0.5	10	446.583
		15#	16	1	0.5	40	443.540
	DZ25-3L	24#	30	1.2	0.5	35	454.877
		35#	150	4	0.5	8	447.940
CF600 Plus II		36#	200	4	0.5	8	481.802

# Technical Specifications

Speed range	1-600rpm
Filling volume range	0.1-9999.99mL
Filling time range	0.5-9999.99s
Pause time range	0.5-9999.99s
Filling volume resolution	0.01mL
Time resolution	0.01s
Copy numbers	1-9999, 0 represent infinite.
Back suction angle	0-360°
Filling accuracy	< ±0.5%
Motor type	Stepper motor
Display 4.3" col	or display with touch screen
Operation way Touch s	creen and membrane keypad

Start/stop, direction signa	Passive switch signal, such as foot pedal switch				
	Active swith signal: 5V,12V and 24V for option				
Output interface	Output motor working status ( Open-Collector output )				
Outlet pressure	0.1Mpa(0.86-1.0mm wall thickness tubing)				
	0.1-0.27Mpa(1.6-2.4mm wall thickness tubing)				
Power supply	220V ± 10% 50Hz/60Hz (standard)				
	110V ± 10% 50Hz/60Hz (optional)				

DF600/DF600 Plus/DF600 II /DF600 Plus II: 706 x 250 x 186mm (L x W x H) Drive dimension CF600/CF600 Plus/CF600 II /CF600 Plus II: 237.4 × 152 × 158mm (L × W × H)

each filling unit < 50W(DF600/DF600 Plus/CF600/CF600 Plus) Power

consumption each filling unit < 80W(DF600 II /DF600 Plus II /CF600 II /CF600 Plus II )

0-40°C Condition temperature Relative humidity < 80% **IP31** IP rate



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

Tubing	Filling Volume	Filling Time				Actual F	illing Vo	lume(ml	-)				Filling A	ccuracy
	Part of the second		0.1000	0.1017	0.1004	0.1000	0.1006	0.0986	0.1015	0.0988	0.1006	0.0991		
13#	0.1mL	0.5s	0.0996	0.0975	0.0976	0.1006	0.0995	0.1015	0.0988	0.0991	0.0996	0.0993	-2.500%	1.700%
	14.40	Tanasa a	0.3000	0.2979	0.3013	0.2985	0.3020	0.3030	0.3023	0.2993	0.2993	0.2974		
13#	0.3mL	0.7s	0.3010	0.3030	0.2992	0.2979	0.3004	0.3019	0.3012	0.2978	0.3031	0.3022	-0.867%	1.0339
4114.50		10.20	0.5008	0.5034	0.4998	0.5020	0.5007	0.5038	0.5021	0.5023	0.5010	0.4995	0.1000/	0.7500
13#	0.5mL	1s	0.5003	0.5008	0.5003	0.5011	0.5002	0.5037	0.5025	0.5005	0.5010	0.5000	-0.100%	0.7609
425	14.2		1.0004	1.0000	0.9990	1.0011	1.0035	1.0014	1.0014	1.0014	0.9999	1.0015	0.3300	0.4000
13#	1mL	2s	1.0013	1.0013	1.0029	1.0049	1.0016	1.0019	1.0048	0.9963	1.0038	1.0040	-0.370%	0.4909
4.0			2.0030	2.0030	2.0125	1.9861	2.0116	1.9987	1.9984	2.0143	1.9973	2.0110	O COLO	0.7650
14#	2mL	1s	2.0033	2.0153	1.9875	2.0100	2.0092	2.0024	2.0103	1.9915	2.0045	2.0133	-0.695%	0.7659
202	20.4	212	3.0147	2.9861	3.0125	2.9897	3.0037	2.9905	3.0063	2.9850	3.0038	2.9917	-0.500%	0.4939
14#	3mL	1.5s	3.0088	3.0000	3.0019	3.0138	2.9896	3.0148	2.9921	3.0128	2.9905	3.0059	-0.50070	U.733
a des		4 12	4.9933	5.0069	4.9914	4.9540	5.0068	4.9957	4.9950	5.0029	4.9963	4.9571	0.0000	0 5000
19#	5mL	1.25	4.9838	5.0208	5.0031	4.9687	5.0237	4.9841	5.0239	5.0032	4.9584	5.0250	-0.920%	0.5009
12.20		1.205	7.0184	7.0197	7.0178	7.0120	7.0242	7.0132	7.0149	7.0213	7.0093	7.0215	-0.293%	0.346%
16#	7mL	1s	6.9795	6.9834	6.9946	6.9975	6.9868	7.0133	7.0195	7.0121	7.0190	7.0125		
35#135#	10-1		9.9400	10.0300	10.0700	10.0200	10.0000	9.9800	9.9200	10.0400	10.0600	10.0400	-0.800%	0.700%
25#/15#	10mL	1s	10.0400	10.0500	10.0200	9.9700	9.9500	10.0200	10.0600	10.0400	10.0500	9.9600		
	122.5	174	15.0000	15.0000	15.0300	14.9900	15,0400	15.0400	15.0300	15,0700	14.9000	15.0100	the transfer of the contract o	January 1
25#/15#	15mL	15	14.9500	15.0300	15.0300	15.0600	15.0300	14.9900	15.0300	14.9400	15.0100	15.0000	-0.667%	0.4679
555456	20-1		19.9600	19.9400	20.0600	19.9900	19.9600	19.9200	19.9700	20.0400	20.0000	20.0000	0.4500	0.5000
25#/15#	20mL	1.25	19.9300	20.1000	20.0000	19.9100	20.0200	20.1000	20.0100	19.9700	19.9900	20.0900	-0.450%	0.5009
	30.1	ialas a	29.9100	29.9900	30.1800	30.1000	29.9700	29.9700	30.1800	29.8100	30.1800	29.9500	0.62206	0.5000
17#/24#	30mL	1.2s	29.9400	29.9200	29.9300	30.0100	30.1800	30.0500	29.9600	29.8800	30.0100	30.1800	-0.633%	0.6009
174/544	FAMI	-	50.0600	50.0400	49.9900	49.8500	50.0800	50.1100	49.9800	49.8700	49.9200	50.1200	0.4400/	0.2400
17#/24#	50mL	25	49.9200	50.0000	49.9900	49.7800	49.8200	49.9100	50.0500	49.9300	49.8400	49.8400	-0.440%	0.2409
			79.9700	80.2200	80.2800	80.1100	80.0000	79.9000	79.9200	80.2900	80.1300	80.0300	0.3350/	0.2620
18#	80mL	2.5s	79.7400	79.7800	79.8000	80.0100	80.1700	79.8500	79.7600	79.8500	80.0300	80.2200	-0.325%	0.3639
	1	3s	99.8300	100.3500	99.9700	100.3700	100.0900	100.2600	100.0800	100.1500	100.1600	99.8900	0.4200	0 2700
18#	100mL		100.0400	99.6600	100.0800	99.5700	100.0100	99.9900	99.7900	100.1400	99.7200	100,1700	-0.430%	0.3709
254	150-1	45	149.4100	150.4300	149.7600	150.0400	150.4200	149.5500	150.3200	149.7500	149.6500	150.2900		ח ססס
35#	150mL	713	149,4200	149,9400	150.2700	149.3400	149,8600	150.2500	149.2800	150.0300	149.9200	149,4700	-0.480%	0.2879
36#	200-1	4s	199.4800	199.9000	199.6600	199.7200	199.8600	200.0200	199.2000	199.8800	199.8600	199.4800	-0.400%	0.3000
204	200mL	72	199.9000	200.5400	200.6000	199.9600	199.9400	200.0200	199.9800	200.0600	199.9200	200.1800	-0.400%	0.300%





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#### CF350 (servo control)





- Servo motor drive, precision control.
- Split type design, space-saving, easy installation.
- Imported 4.3" Industrial grade true color display, clear picture quality, the quality is more guaranted. Animation display current filling status, display filling volume, filling time, pause time, copy numbers and system configuration at the same screen.
- Imported touch screen control, high hardness, scratch resistance, high sensitivity, pay more attention to users' experience.
- Shenchen-CF-CIR electrical system all use imported chips, fast operation, high performance and work steady.
- Shenchen-CF-EMB operation system, use embedded software design, the function is powerful, the controllability is strong, friendly interface, pay more attention to users' experience.
- Shenchen-CF-EMB operation system, the core technology is precise angle control technology. Rely on this technology, the precision of this filling system reached international leading level. The filling precision is affected by various factor, expect for control technology, the physical precision of the pump head is also a factor, the two factors guarantee the high precision together.
- The CF350 dispensing system uses the specially designed "Low Pulsation " pump head for high precision filling. Through the phase difference between the two sets of rollers, makes the fluid peaks and valleys complementary, then reduce the pulsation of the fluid. Adaptive pressure tubing space, extend the tube lifetime effectively, actually achieves micro flow rate and large flow rate high precision dispensing.
- With the intelligent calibration function, the flow and distribution of the amount of liquid can be calibrated to ensure the flow accuracy, suitable for high precision liquid transferring.
- External control start/stop function, can connect to foot pedal switch, and realize upper computer unified control or receive stop filling signal when bottle absent when supporting filling production line.

#### Product Introduction

CF350 servo control series is split type intelligent filling system with high precision and low pulsation driven by serve motor. It is

composed by one control unit and several independent filling units, can arbitrarily add or minus the number of filling units, or finish the same filling request at different place, according to customers' request in different period. One control unit can control 16 independent filling units at the same time. This system use imported 4.3" industrial grade true color display with touch screen control, can preset filling volume, filling time, pause time, copy numbers and back-suction angle, animation display working status, filling data, setting parameter, system configuration display at the same screen; with intelligent calibration and online micro-adjust function. Can connect foot pedal and receive switch signal, realize long-distance control. With motor working status output signal, can let other equipment real-time monitor the current filling status of peristeltic pump. This filling system use serve 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.

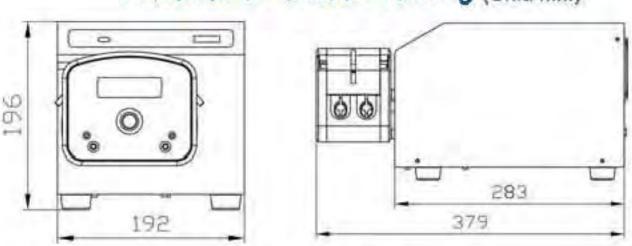


#### Model Number

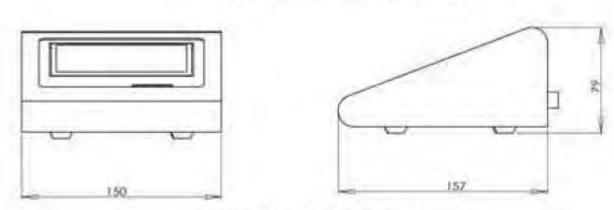
CF600IV

- CF350
  - CF350 Plus
- CF600 PlusIII ■ CF600Ⅲ
  - CF600 PlusIV

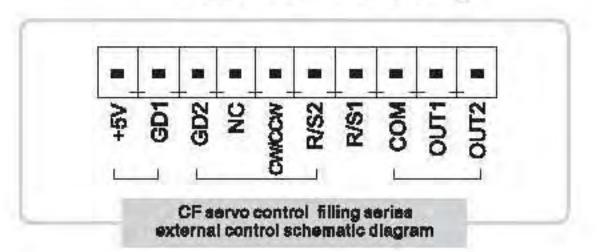
#### Installation Sizes Drawing (Unit: mm)



**Drive Dimension Drawing** 



**Controller Dimension Drawing** 





#### DF600IV (servo control)











#### Product Introduction

DF serve central series is split type intelligent filling system with high precision and low pulsation driven by serve motor. It is composed by control unit and integrated type filling units, each group have 4 filling units, total 16 filling units. This system use Imported 4.3" industrial grade true color display with touch screen control, can preset filling volume, filling time, pause time, copy numbers and back-suction angle, animation display working status, filling data, setting parameter, system configuration display at the same screen; with intelligent calibration and online micro-adjust function. Can connect foot pedal and receive switch signal, realize long-distance control. With motor working status output signal, can let other equipment real-time monitor the current filling status of peristaltic pump. This filling system use servo motor, and high precision, low pulsation pump head to make the filling precision higher, up to 0.1%-0.6%, make the micro volume and big volume high precision filling come true.

### DF350 (servo control)









#### Typical Application

- Medicine, health care products filling Diagnostic reagents filling
- Food, beverage filling Cosmetic filling

#### **Model Number**

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



- Servo motor drive, precision control.
- Imported 4.3" industrial grade true color display, clear picture quality, the quality is more guaranted. Animation display current filling status, display filling volume, filling time, pause time, copy numbers and system configuration at the same screen.
- Imported touch screen control, high hardness, scratch resistance, high sensitivity, pay more attention to users' experience.
- Shenchen-DF-CIR electrical system all use imported chips, fast operation, high performance and work steady.
- Shenchen-DF-EMB operation system, use embedded software design, the function is powerful, the controllability is strong, friendly interface, pay more attention to users' experience.
- Shenchen-DF-EMBShenchen-CF-EMB operation system, the core technology is precise angle control technology. Rely on this technology, the precision of this filling system reached international leading level. The filling precision is affected by various factor, expect for control technology, the

physical precision of the pump head is also a factor, the two factors guarantee the high precision together.

- The DF servo control filling system uses the specially designed "Low Pulsation" pump head for high precision filling. Through the phase difference between the two sets of rollers, makes the fluid peaks and valleys complementary, then reduce the pulsation of the fluid. Adaptive pressure tubing space, extend the tube lifetime effectively, actually achieves micro flow rate and large flow rate high precision dispensing.
- With the intelligent calibration function, the flow and distribution of the amount of liquid can be calibrated to ensure the flow accuracy, suitable for high precision liquid transferring.
- It has micro adjusting function. During production process, when the tube fatigue or elasticity decreased, the micro adjusting function can micro adjust the flow rate and avoid the error without the pump stopping.
- The filling system can store 60 commonly used filling modes, save users setting time, and improve working efficiency.

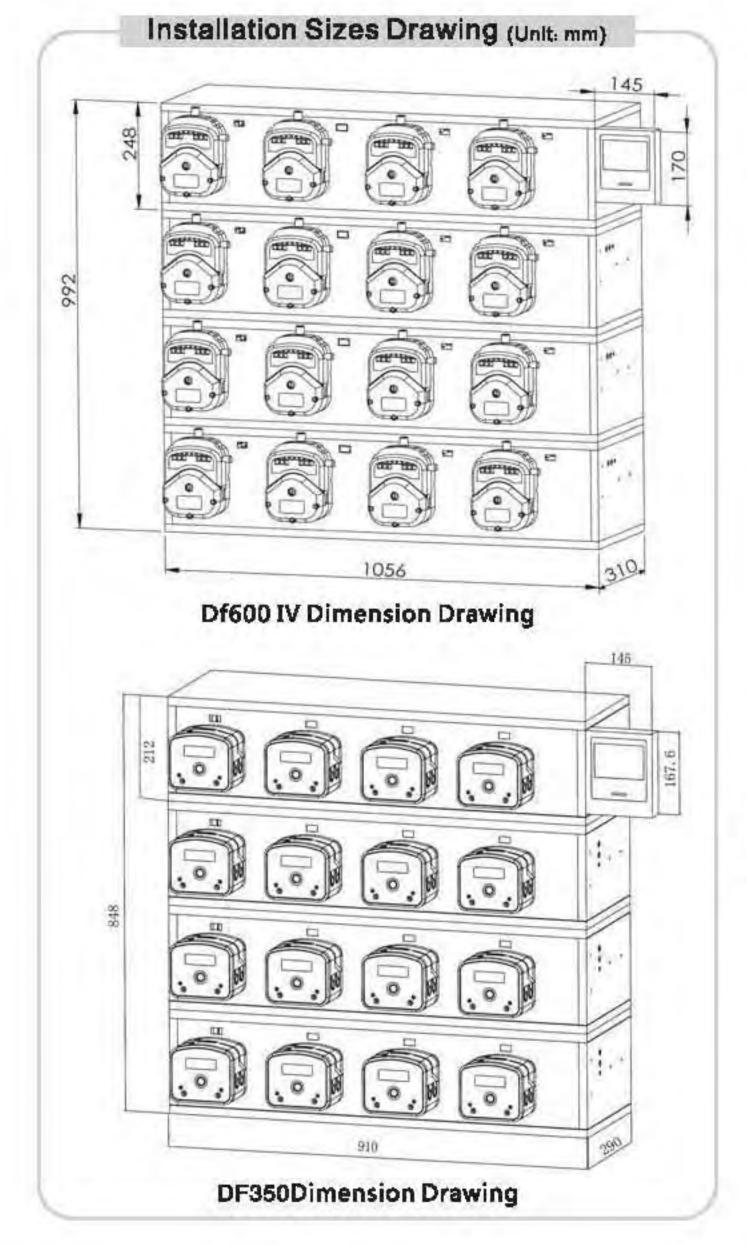
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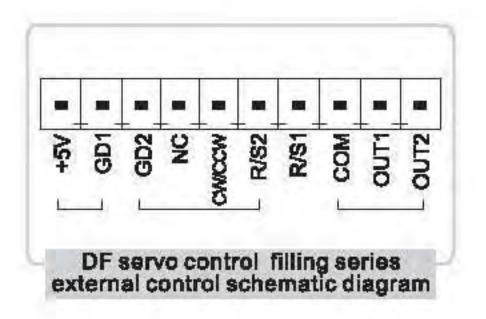
- Back suction angle setting, avoid liquid drop off when the pump stop working.
- Effective unit setting, you can start or stop any filling channel during working, meet different channel numbers request.
- Can arbitrarily add filling units, one control unit can simultaneously control 16 independent filling units. Each filling unit receive stop filling signal when bottle absent, so single channel can stop filling when bottle absent.
- Separate controller and filling units, can install the controller where is convenient to operate.
- Each filling unit use high definition LCD screen, display address number and working status.
  - External control start/stop function, can connect to foot pedal switch, and realize upper computer unified control or receive stop filling signal when bottle absent when supporting filling production line.
- Load-shedding memory function, store the running parameters in time, safe and reliable.
- Fast filling function, not only can be used for washing the tube, but also can fill liquid to the tubing fast
- but also can fill liquid to the tubing fast.

  Strong anti-jamming feature, wide voltage design, suitable for complex power supply environment.
- Circuit board spray with three paint, anti-dust, anti-moisture, anti-static, resist corrosion.
- 304 stainless steel housing, conform to GMP sanitary request. Meantime, use seamless welding technology, avoid accidental spilled liquid on the housing infiltrate inside, to protect the inside circuit board.



#### Technical Specifications

Speed range	CF350/DF350	1-350rpm
	CF350 Plus/DF350 Plus	1-350rpm
	CF800III/DF600III/DF600	IV 1-600rpm
CF600 Plus II	I/DF600 Plus III/DF600 Plus	IV 1-600rpm
Filling volume rar	nge 0.1-9999.99 mL	
Filling time range	0.5-9999.99 s	
Pause time range	0.5-9999.99 s	
Filling volume res	solution 0.01 mL	
Time resolution	0.01 s	
Copy numbers	1-9999, 0 represe	ent infinite
Back suction ang	le 0-360°	
Filling accuracy	< ± 0.5%	
Motor type	CF servo control series S	iervo motor
	DF servo control series S	Servo motor
Circuit system	Shenchen-DF-CIR/Shenc	hen-CF-CIR
Control system	Shenchen-DF-EMB/Shen	chen-CF-EMB
Display	4.3" industrial grade true or	olor LCD screen
Control method	Touch screen and membra	ine keypad
	Passive switch signal, such	n as foot pedal.
Start/stop,change	Active switch signal: 5V, 12	2V, 24V for option
Output interface	Output motor working state	us(Open-collector outpu
Power supply	AC 220V ± 10% 50Hz/60H	z (standard)
	AC 110V ± 10% 50Hz/60H	z (standard)
Drive dimension	CF350/CF350 Plus : 283 ×	192 × 196mm
(L×W×H)	CF600III/CF600 Plus III : 2	283 × 192 × 196mm
	DF350/DF350 Plus : 910 ×	290 x 212mm
	DF600III/CF600 PlusIII : 9	010×290×212mm
	DF600IV/DF600 PlusIV: 10	056 × 310 × 248mm
Weight	CF350/CF350 Plus : 7.8 k	g
	CF600III/CF600 PlusIII : 7	7.8 kg
	DF350/DF350 Plus : 41.45	
	DF600III/CF600 PlusIII : 4	11.45 kg
	DF600 IV/DF600 Plus IV: 5	Date 2
Power	each filling unit < 180W (CF	
consumption	CF600 Plus III/DF350/DF350 P	
	each filling unit < 300W(C	F600IV/CF600 PlusIV/
	DF600[V/DF600 PlusIV)	
Condition temper	ature 0–40℃	
Relative humidity	< 80%	
IP rate	IP31	







# Product Composition and Flow Rate Range

Dalina	Madel	The shall makedal	Tubing clamp/tubing		Tubing	(Speed0.1~350rpm)
Drive	Model	The shell material	connector material	Size	ID × Wall(mm)	Flow Rate Range mL/min
				13*	0.8×1.6	0.01~48
				14*	1.6×1.6	0.06~223
	DV4F			19"	2.4×1.6	0.13~448
DESEA	DY15	Aluminum alloy	PP	16*	3.1×1.6	0.2~723
DF350 CF350				25*	4.8×1.6	0.47~1626
DF350 Plus				17"	6.4×1.6	0.64~2230
CF350 Plus				18*	7.9×1.6	0.95~3337
0.000.100			PP	15*	4.8×2.4	0.42~1480
	DY25	Aluminum alloy		24*	6.4×2.4	0.76~2670
	DY25			35*	7.9×2.4	1~3600
				36"	9.6×2.4	1.24~4340
	NAME OF THE OWNER.		Tubing clamp/tubing	Tubing		(Speed0.1~600rpm)
Drive	Model	The shell material	connector material	Size	ID × Wall(mm)	Flow Rate Range mL/mir
DF600III				15*	4.8×2.4	0.42~1480
CF600III	D705 01	Alexandra constructions		24*	6.4×2.4	0.76~2670
DF600 PlusⅢ	DZ25-6L	Aluminum alloy	PP	35*	7.9×2.4	1~3600
CF600 PlusIII				36*	9.6×2.4	1.24~4340
DF600IV				26*	6.4×3.3	0.69~4200
CF600IV DF600 PlusIV	YZ35-PPS	PPS	PP	73*	9.6×3.3	1.23~7400
CF600 PlusIV				82*	12.7×3.3	2~12000

# Filling Volume Reference Parameter(Media is water)

Drive	Pump Head	Tubing	Filling Volume (mL)	Filling Time (s)	Filling Accuracy (±%)	Output (pcs/min)
		14#	0.5	0.5	0.3	60
		14#	1	1	0.4	30
		14#	2	1	0.6	30
		19#	3	1	0.3	30
DESEN	DY15	16#	5	1	0.5	30
		25#	10	1	0.3	30
CF350		25#	15	1	0.4	30
3900 1900 1900 1900 1900 1900 1900 1900		17#	30	1	0.4	30
DF350		18#	100	2.5	0.3	12
		15#	10	1	0.3	30
	DY25	24#	30	1	0.5	30
	2.20	35#	70	1.2	0.4	25
		36#	100	2	0.2	15
DF600Ⅲ		15#	80	4	0.4	13
	DZ25-6L	24#	150	4	0.4	13
	DZ25-0L	35#	200	3.2	0.5	8
F600 PlusⅢ		36#	300	3.5	0.5	8
TO THE PROPERTY OF THE PROPERT		24#	150	3	0.5	10
CF600IV	YZ35-PPS	35#	300	3	0.5	10
		36#	500	3	0.5	10



	Tubing	Filling	The second second second				Act	ual Fillin	g Volum	e(mL)				Filling Ad	curacy
	Con.m.	Volume	Time			0.1000			0.5040	0.5044	0.5005	0.4004	0.4000		
	14"	0.5mL	0.58	0.5003	0.4983	0.4982		0.5015		0.5005	0.5005	0.4981	0.4998	-0.37%	0.32%
	14°	1mL	1s	1.0037		1.0026	1.0003	1.0031	1.0015	1.0000	1.0007	1.0023	1.0035	-0.44%	0.42%
	14*	2mL	18	2.0020		2.0039	2.0037	444	1.9944	2.0062	2.0040	1.9951	2.0060	-0.58%	0.60%
	19*	3mL	18	3.0058	2.9935	3.0092	3.0008	2.9927	3.0072	3.0046	2.9914	3.0040	3.0000	-0.33%	0.31%
DY15	16*	5mL	1s	5.0215	Para Landa Control	3.0008 5.0145	5.0038	4.9864	5.0163	3.0084 4.9962	5.0227	5.0158	3.0051 4.9806	-0.39%	0.50%
	25*	10mL	18	10.02	10.04	4.9881	9.98	4.9995 10.02	10.03	10.04	4.9868	10.01	4.9977 9.99	-0.20%	0.40%
				10.00	10.02	10.02	10.04	9.99	9.98	10.00	14.95	10.02	10.03	-0.47%	
	25*	15mL	18	14.96	14.85	14.96	14.99	14.98	14.84	14.93	14.93	14.98	14.96		
	17°	30mL	18	29.88	29.96	30.03	30.06	30.02	30.02	30.06	29.95	29.96	29.83	-0.57%	0.20%
	18"	100mL	2.58	99.80	100.00	100.10	100.20	99.90	100.10	100.10	100.00	100.10	100.00	-0.20%	0.30%
	15°	10mL	1s	9.97	10.01	9.96	9.98	9.98	9.98	9.97	9.99	9.96	9.96	-0.60%	0.10%
21/25	24"	30mL	1s	29.90	29.80	30.10	29.90	29.90	30.00	29.90	29.90	30.00 29.90	29.90 30.00	-0.67%	0.33%
DY25	35*	70mL	1.26	69.80	69.90 70.10	69.90 70.00	69.90 69.90	69.70 70.30	70.10 69.70	70.00 70.10	69.70 69.70	69.90 69.70	69.90 69.90	-0.43%	0.43%
	36"	100mL	2s	99.80	99.90	99.80	99.80	100.00	99.90	99.90	89.90 100.10	99.90	99.90 99.90	-0.20%	0.10%
	15*	80mL	49	80.2 80.1	80.0 79.9	80.3 80.1	80.2 79.9	80.1 80.0	80.1 80.1	80.2 19.9	80.1 80.1	80.2 80.1	80.1 80.0	-0.13%	0.38%
D705 61	24"	150mL	48	149.9	150.2 160.1	150.0 150.0	150.1 150.0	150.0 150.1	150.3 150.0	150.0 150.1	150.1 149.9	150.3 150.2	150.0 150.2	-0.07%	0.20%
DZ25-6L	35"	200mL	3.58	199.7 199.5	199.9	200.2 199.5	200.2 199.9	200.2 199.5	199.6	199.8	199.8 199.3	200.1 199.5	199.9 199.9	-0.40%	0.10%
	36"	300mL	3.58	300.4	300.1	300.3	300.3	300.4	300.1 299.9	300.3 299.5	300.4	300.8	300.2 300.6	-0.17%	0.20%
	26'	150mL	38	149.3 150.4	150.3 149.9	149.6 150.4	150.2 150.0	150.5 150.3	150.1 149.8	150.5 150.3	150.1 149.9	150.6 150.4	150.0 150.0	-0.47%	0.33%
Z35-PPS	73*	300mL	3s	299.9 300.8	299.8 300.6	300.0 300.5	300.1 300.5	300.4 300.5	300.2 300.6	300.4 300.7	300.4 300.5	300.8 300.5	300.5 300.6	-0.07%	0.27%
	82*	500mL	3s	500.0 499.5	497.8 498.3	499.7 501.5	498.3 501.9	498.4 500.0	499.5 501.8	498.2 501.1	499.7 500.5	499.2 501.6	498.4 499.6	-0.44%	0.38%

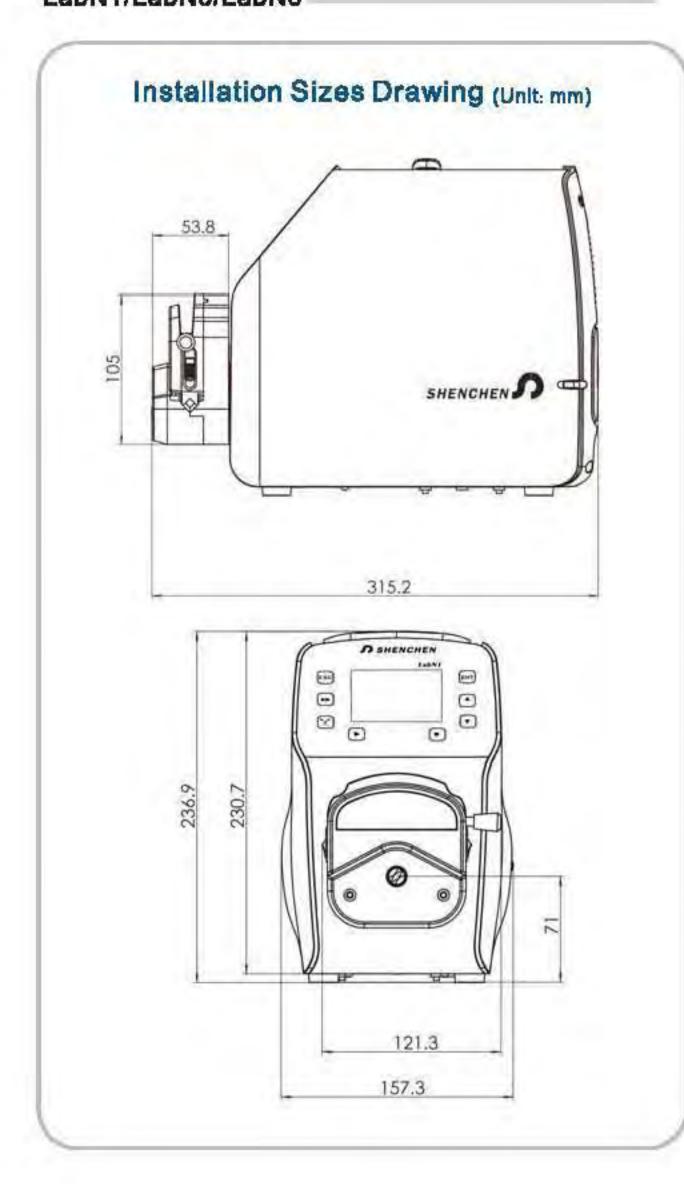


# SHENCHEN Standard Peristaltic Pump





#### LabN1/LabN3/LabN6



#### Product Introduction

The second generation standard type peristaltic pump, with ABS engineering plastic housing, streamlined body design, more fashion sense. 3.2" blue LCD screen, touch keypad control, feel comfortable. Speed range: 0.1-600 rpm, suitable for various pump heads. Flow rate range: 0.1-2280ml/min. Multiple external control for selection. Support RS232/RS485 communication, standard MODBUS protocol (RTU mode), meeting different industrial sites equipment request.



#### Typical Application

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

#### Features

- Friendly interface, 3.2" big screen LCD display working parameters in real time.
- Super silent drive setting, precise control, low vibration and low noise.
- Shenchen-Nx-CIR circuit system, use imported chips, computing speed fast, reliable performance, working stable.
- Shenchen-Nx-EMB operating system, using the embedded software design, powerful function, friendly interface, strong control, pay attention to the user experience..
- Touch keypad control, menu interface, convenient for users setting the parameters.
- Timing function, the time range is 0.1s-9999 hours, can be used for simple dispensing function.
- O-360° back suction angle setting, can avoid the fluid drop off when transferring viscous fluid.
- Automatical temperature control system, reduce the noise of fan effectively.
- Various external control functions, support 0-5V,0-10V,4-20mA analog signal control speed. In the mean time also have Shenchen -Nx-EMB-PGM programmable external control function, can meet special industrial control request.
- Support RS232/RS485 communication interface, MODBUS communication protocol, meet different industrial request.
- Power down memory function, store parameters in time, safe and reliable.
- Strong anti-jamming feature, wide voltage design, suitable for complex power supply environment.
- Circuit board spray with three paint, anti-dust, anti-moisture, anti-static, resist corrosion.

#### Technical Specifications

Speed range	LabN1:0.1~150 rpm
	LabN3:0.1~350 rpm
	LabN6:0.1~600 rpm
Speed resolution	0.1rpm
Back suction angle	0-360°
Testing time range	0.1s - 9999 hours
Outlet pressure	0.1Mpa ( 0.86-1.0mm wall thickness tubing)
	0.1-0.27Mpa (1.6-2.4mm wall thickness tubing)
Motor type	Stepper motor
Circuit system	Shenchen-Nx-CIR
Control system	Shenchen-Nx-EMB
Display	3.2 inch HD LCD screen
Control method	Touch keypad
External control spe	ed signal 0-5V, 0-10V, 4-20mA for option
Start/stop,change	Passive switch signal, such as foot pedal switch
direction signal	Active switch signal: 5V,12V and 24V for option
Communication int	
1 1 1 1 1 1 1 1	protocol (RTU mode)
Output interface	Output motor working status
B	(Open-Collector output)
Power supply	220V ± 10%, 50Hz/60Hz ( standard),
	110V ± 10%, 50Hz/60Hz (optional)
Drive dimension	261.4 x 157.3 x 230.7mm (L x W x H)
Drive weight	4.40 kg
Power consumption	
Environment tempe	erature 0–40℃
Relative humidity	< 80%
IP rate	IP31

### LabN series appearance features

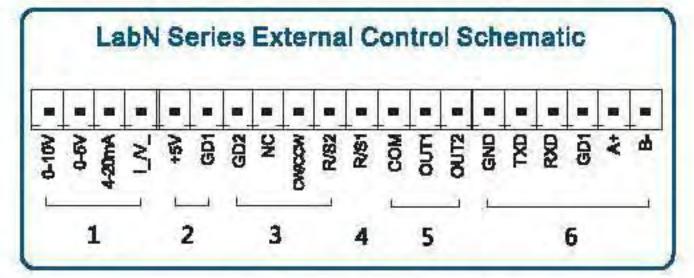
- Portable handheld design, feel comfortable and stable.
- Multifunction protective cover for external control interface, can be used for tool box, install common tools.
- Hidden external control interface, protective cover can protect the interface and data lines effectively.





#### LabN series with various external control

- 1. Analog signal input port:
- A.Can choose the analog signal source according with demand: 0-5V, 0-10V, 4-20mA
- B. After choose the signal source, customer can choose the relative speed with maximum and minimum data of the signal source. In this way, to achieve custom speed range purpose.
- C.The top limit of the working speed is setting the peristaltic pump maximum working speed when the analog signal and the speed keep linear relationship. This function can avoid the peristaltic pump transferring flow rate sudden change when outside analog signal change suddenly, occur production accident.
- 2.Inner isolated 5VDC output.
- 3.External control start/stop, direction signal input port: Active signal input. Can choose switch signal according with users' equipment, high level: 5V (default), 12V, 24V.
- 4.R/S 1 external control start/stop signal input port: Passive signal input.
- Motor working status output port: Output motor current working status.
- 6.RS232 communication port:
- A Support RS232/RS485 Interface, can choose this from the software interface.
- B.Support multiple baud rate communication: 2400bps, 4800 bps, 9800bps and 19200bps, can choose this from the software interface.
- C.Standard Modbus communication protocol is suitable to match with HMI, PLC and other master computer which support standard Modbus communication protocol.





LabN1 membrane keypad

#### Product Composition and Flow Rate Range

Standard peristaltic pump				Pump head & F	low rates (mL/mln)				
		YZ1515x	15x YZ2515x MC1~MC12(10) MC1~MC12(6)				SN25	SN15-14	SN15-16
Drive & spee	Tubing d	13'、14'、19'、16' 25'、17'、18'	15", 24"	inner diameter: 0 Wall thickness: 0	15',24' 35',36'	24"	14"	16'	
LabN1	0.1-150rpm	0.007~570	0.17-436	0.000067-32(suggest	0.00008-45(suggest	0.211 ~ 900	0.25 ~ 375	0.024~36	0.088 - 132
LabN3	0.1-350rpm	0.007-1330	0.17~1015	working rotating	working rotating	0.211 - 2100	0.25~875	0.024 84	0.088 ~ 308
LabN6	ъN6 0.1-600rpm	0.007-2280	0.17~1740	speed≪150rpm)	speed≪150rpm)	0.211 ~ 3600	0.25 ~ 1500	0.024 - 144	0.088 - 528

# Standard Peristaltic Pump





#### BT100N/BT300N/BT600N

## Technical Specifications

Speed range	BT100N:0.5~150 rpm					
	BT300N:0.5~350 rpm					
	BT600N:0.5~600 rpm					
Speed resolution	0.1rpm					
Back suction angle	0-360°					
Testing time range	0.5s - 999s					
Outlet pressure	0.1Mpa (0.86-1.0mm wall thickness tubing)					
	0.1-0.27Mpa (1.6-2.4mm wall thickness tubing)					
Motor type	Stepper motor					
Circuit system	Shenchen-Nx-CIR					
Control system	Shenchen-Nx-EMB					
Display	LED screen					
Control method	Membrane keypad					
External control spe	ed signal 0-5V, 0-10V, 4-20mA for option					
Start/stop, change	Passive switch signal, such as foot pedal switch					
direction signal	default 24V					
Communication inte	erface RS232/RS485 support MODBUS protocol (RTU mode)					
Power supply	AC 220V ± 10%, 50Hz/60Hz ( standard),					
	AC 110V ± 10%, 50Hz/60Hz (optional)					
Drive dimension	183 x 131x 194mm (LxWxH)					
Drive weight	4.20 kg					
Power consumption	<50W					
Environment tempe	rature 0–40℃					
Relative humidity	< 80%					
IP rate	IP31					

# Product Introduction

The first generation standard type peristaltic pump with ultra quiet working performance. It is widely used in laboratory and complete analytical instruments.

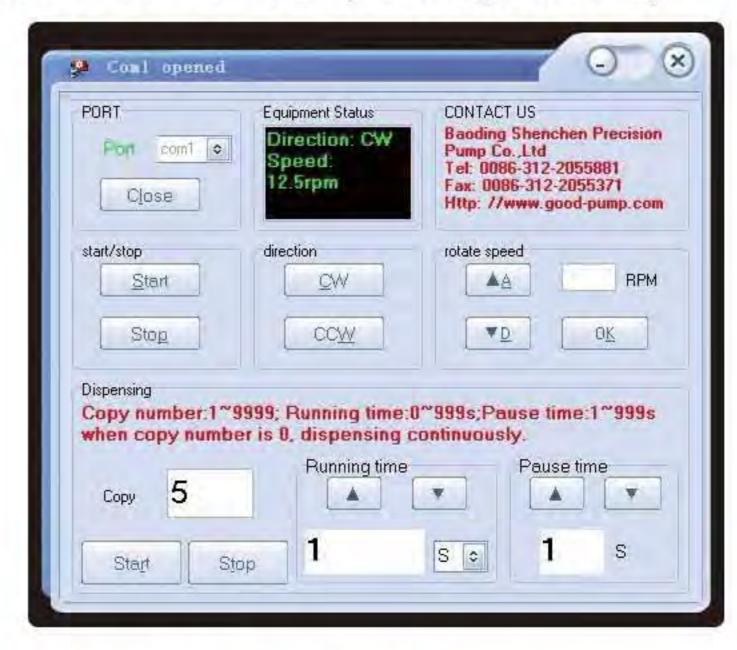


# Typical Application

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

## RS232/RS485 communication interface

Support Shenchen communication protocol or standard MODBUS communication protocol.(RTU mode)



# RS232 debug software

The peristaltic pump has a RS232 port, to control start/stop, reverse, speed control, and for dispensing, filling function. According to the request of remote control, it can be getting real-time feedback of the pump filling status.

# Product Composition and Flow Rate Range

Standard peristaltic pump				Pump head & Flow	rates (mL/min)			
		YZ1515x	YZ1515x YZ2515x MC1~MC12(10) MC1~MC12(		MC1~MC12(6)	SN25	SN15-14	SN15-16
Drive & speed	Tubing	13*, 14*, 19*, 16* 25*, 17*, 18*	15"、24"	Inner diameter Wall thickness	24	14*	16*	
BT100N	0.5-150rpm	0.035~570	0.85~435	0.00034-32(suggest		1.25~375	0.12~36	0.44 ~ 132
BT300N	0.5-350rpm	0.035~1330	0.85~1015	working rotating		1.25~875	0.12 ~ 84	0.44~308
BT600N	0.5-600rpm	0.035~2280	0.85~1740	oheen = 190(hiii)		1.25 ~ 1500	0.12~144	0.44~528



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# Standard Peristaltic Pump

# N6-12L

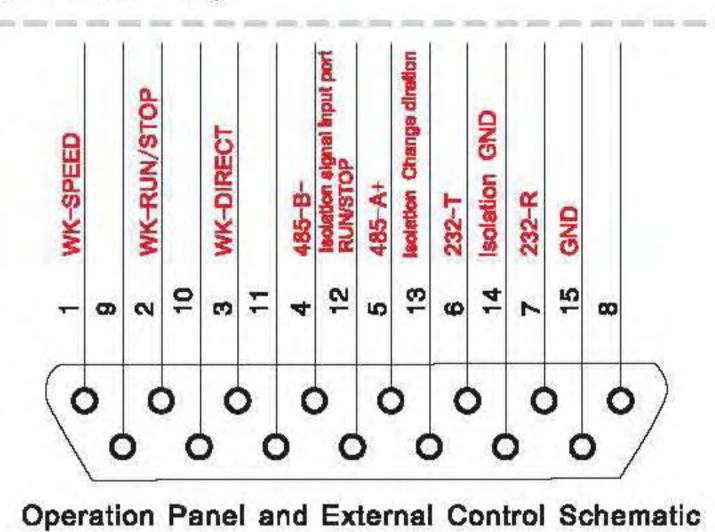


N6-12L/YZ35、N6-6L/DZ25-6L、N6-3L/DZ25-3L



#### Product Introduction

Servo motor drive standard type industrial peristaltic pump. Speed range: 0.1-600 rpm, flow rate range: 0.211-12000mL/min. Membrane keypad control start/stop, direction, timing test and external control selection. Rotary encoded switch control the speed, easy operation. 8 different external control ways with RS232/RS485 communication interface (MODBUS protocol, RTU mode). The pump can be connected with computer, PLC and HMI, achieve external control. Suitable for industrial sites, large flow rate, wide range and high precision liquid transferring.









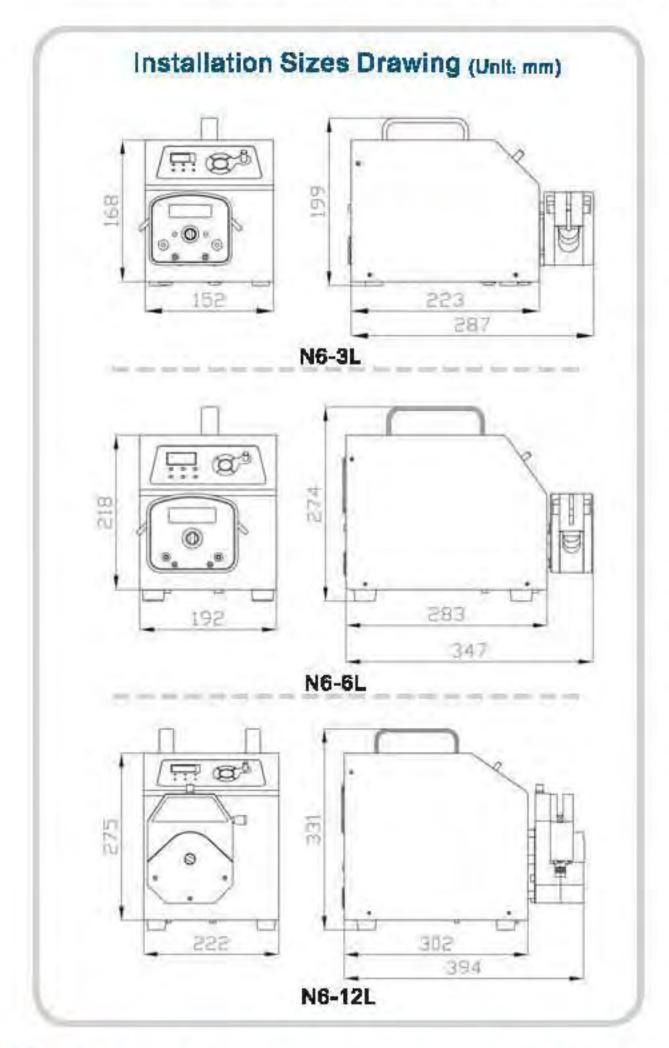


# Standard Peristaltic Pump



#### Features

- Servo motor drive, precise control, strong power, low vibration and low noise.
- Shenchen-N-CIR circuit system, use imported chips, computing speed fast, reliable performance, working stable.
- Shenchen-N-EMB operation system, embedded software design, powerful function, friendly interface, attention to users' experience.
- Membrane keypad control: start/stop,direction,timing test, external control mode selection.
- Rotary encoded switch can identify the target speed intelligently. When the rotation speed fast, the switch increase the adjustment range automatically. When the rotation speed slow, the switch decrease the adjustment range automatically. It is very convenient to adjust the speed. The rotary encoded switch also have full speed function, not only can be used for washing bottles, but also can be used for filling liquid to the tubing.
- Timing test function, time range is 0.5–999 seconds. Setting the test time freely, also can be used for simple dispensing.



7 different external control ways can be selected from the panel. Analog signals (0-5V, 0-10V, 4-20mA) control speed, switch signal control start/stop and direction.

	Way1	Way2	Way3	Way4	Way5	Way6	Way7
Start/stop				O	0	0	
Direction	0		0			0	
Speed	0	0		0			

- External control enable
- External control forbidden.
- RS232, RS485 interface, support MODBUS protocol. Convenient for external control.
- Load-shedding memory function.
- Strong anti-jamming feature, wide voltage design, suitable for complex power supply environment.
- Circuit board spray with three paint, anti-dust, anti-moisture, anti-static, resist corrosion.
- 304 stainless steel housing, comply with pharmaceutical GMP certificate requirement. Meantime, use seamless welding technology, avoid accidental spilled liquid on the housing infiltrate inside, to protect the inside circuit board.
- DZ25-3L、DZ25-6L、YZ35-PPS or aluminum alloy pump head, 304 stainless steel rollers, strong rigidity, high accuracy, reliable performance, excellent quality.

#### Technical Specifications

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Flow rate range	N6-3L: 0.211~3600 mL/mln
	N6-6L: 0.3~6000 mL/mln
	N6-12L: 0.00069-12 L/mln
Speed range	0.1-600rpm
Speed resolution	0.1rpm in the range of 0-100rpm.
	1rpm in the range of 100-600rpm.
Flow rate accuracy	< ±0.5%
Output pressure	0.3Mpa
Motor type	Stepper motor/Servo motor
Circuit system	Shenchen-N-CIR
Control system	Shenchen-N-EMB
Display	3 digital LED
Control method	membrane keypad
Speed control	Rotary encoded switch
External control speed	d signal 0-5V (standard), 0-10V, 4-20mA (option)
Start/stop, change	Passive switch signal, such as : foot pedal.
direction signal	Active switch signal: 5V, 12V, 24V for option.
Communication	RS232 (standard), Shenchen-N232 interface
Interface	protocol; RS 485(option), Modbus protocol (RTU mode)
Power supply	AC 220V ±10%, 50Hz/60Hz ( standard),
	AC 110V ±10%, 50Hz/60Hz (optional)
Drive dimension	N6-3L: 223 × 152 × 168mm; N6-6L: 283 × 192 × 218mm
(LXMXH)	N6-12L: 302 x 222 x 275mm
Weight	N6-3L: 5.02kg; N6-6L: 7.85kg; N6-12L: 13.14kg;
Power consumption	N6-3L: < 80W; N6-6L: < 180W; N6-12L: < 300W
Condition temperature	0–40℃
Relative humidity	<80%
IP rate	IP31
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#### Product Composition and Flow Rate Range

Drive	Motor Type	Pump Head	Tubing Size	Speed Range(rpm)	Flow Rate Range(mL/mln)	
N6-3L	18-3L Stepper Motor/Servo Motor		15", 24", 35", 36"		0.211-3600	
N6-6L	Servo Motor	DZ25-6L	15', 24', 35', 36'	0.1-600	0.3~6000	
N6-12L	CONTO MOIO	YZ35	26', 73', 82'		0.69~12000	



# NewArrivals

LabM series

ABS engineering plastic housing



RESEARCH CENTER

BAODING SHENCHEN PRECISION PUMP CO., LTD



Baoding Shenchen Precision Pump Co.,Ltd
Baoding Peristaltic Pump Engineering Technology Research Center



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LabM1/LabM3/LabM6

# Installation Sizes Drawing (Unit: mm) SHENCHEN SHENCHEN 121.3 157.3

#### Product Introduction

The second generation basic type peristaltic pump, with ABS engineering plastic housing, streamlined body design, more fashion sense. Speed range:0.5-600rpm/min, suitable for various pump heads. Flow rate range:0.00034-3600ml/min. Membrane keypad control, multiple external control for selection. Support RS232/RS485 (standard Modbus protocol) interface, it is easy to connect with computer, PLC, HMI etc.

#### Features

- Touch keypad control, not only can adjust speed manually, but can also control automatically through external interface.
- Full speed button: fast filling and emptying function.
- With timed function, time range: 0.5-999s, setting test time freely, can be used for simple dispensing.
- Internal isolate external control design. External control signal have active signal and passive signal, users can use it freely.
- RS232 and RS485 interface. The pump can be controlled by PC through RS232 and serial debugging software, control the pump start/stop, direction and speed. To achieve dispensing and filling function. It also can feedback pump working status according with external control request.
- Good performance drive circuit, good cooling condition, low noise, working stable, power down memory function.
- Super strong anti-jamming feature, wide voltage design, suitable for complex power supply environment.
- Circuit board spray with three anti-paint. Anti-dust, anti-moisture, anti-static, resist corrosion.

#### Technical Specifications

Speed range	LabM1:0.5~150 rpm
	LabM3:0.5~350 rpm
	LabM6:0.5~600 rpm
Speed resolution	0.1rpm
Back suction angle	0-360°
Testing time range	0.5s - 999s
Outlet pressure	0.1Mpa ( 0.86-1.0mm wall thickness tubing)
	.1-0.27Mpa (1.6-2.4mm wall thickness tubing)
Motor type	Stepper motor
Circuit system	Shenchen-N-CIR
Control system	Shenchen-N-EMB
Display	LED screen
Control method	Membrane keypad
External control spe	eed signal 0-5V, 0-10V, 4-20mA for option
Start/stop, change	Passive switch signal, such as foot pedal switch
direction signal	default 24V
Communication into	erface RS232/RS485,
	MODBUS protocol (RTU mode)
	Output motor working status (Open-Collector output)
Power supply	AC 220V $\pm$ 10%, 50Hz/60Hz ( standard),
	AC 110V ± 10%, 50Hz/60Hz (optional)
Drive dimension	261.4 x 157.3 x 230.7mm (LxWxH)
Drive weight	4.40 kg
Power consumption	1 <50W
Environment tempe	rature 0–40℃
Relative humidity	< 80%
IP rate	IP31

#### Product Composition and Flow Rate Range

Tubing 12' 14' 10' 16'				Pump head	& Flow rates (mL/m	in)			
		YZ1515x	YZ2515x	MC1~MC12(10) MC1~MC12(6)		DZ25-3L	SN25	SN15-14	SN15-16
		15"、24"	Inner diameter: 0.13–3.17mm Wall thickness: 0.86–1mm			24*	14*	16"	
LabM1	0.5-150rpm	0.035~570	0.85~435	0.00034-32(suggest	0.0004–45(suggest working rotating speed≤150rpm)	1.055 ~ 900	1.25~375	0.12~36	0.44 ~ 132
LabM3	0.5-350rpm	0.035~1330	0.85~1015	working rotating		1.055 ~ 2100	1.25~875	0.12~84	0.44~308
LabM6	0.5-600rpm	0.035~2280	0.85~1740	speed≤150rpm)		1.055 ~ 3600	1.25 ~ 1500	0.12~144	0.44 ~ 528

#### BT600M





CE

#### BT100M/BT300M/BT600M

#### Typical Application

- Add cement grinding aids
- Support center sealing machine
- Support industrial equipment

#### Technical Specifications

Flow rate range	BT100M: 0.00067-900 mL/min				
	BT300M: 0.00067~2100 mL/mln				
	BT600M: 0.00067~3600 mL/min				
Speed range	1-600rpm				
Speed resolution	0.1rpm when the speed is 0-100rpm,				
	1rpm when the speed is 100-600rpm.				
Flow rate accuracy	< ±0.5%				
Outlet pressure 0.1	Mpa (0.86-1.0mm wall thickness tubing)				
0.1	1-0.27Mpa (1.6-2.4mm wall thickness tubing				
Motor type	Stepper motor				
Circuit system	Shenchen-M-CIR				
Operation system	Shenchen-M-EMB				
Display	3 digital LED				
Operation way	Toggle switch and digital knob				
External control speed signa	0-5V(standard),0-10V,4-20mA (option)				
Start/stop, direction signal	TTL level signal				
Communication interface	RS485 (option), Modibus protocol (RTU mode)				
Power supply	220V ± 10%, 50Hz/60Hz ( standard),				
	110V ± 10%, 50Hz/60Hz (optional)				
Drive dimension	BT100M: 234 x 144 x 140mm				
(L×W×H)	BT300M, BT600M: 254×185×149mm				
Drive weight BT1	00M: 3.6kg; BT300M:4.54kg; BT600M: 4.64kg				
Power consumption	< 50W				
Environment temperatu	re 0-40℃				
Relative humidity	< 80%				
IP rate	IP31				

#### Product Introduction

Basic peristaltic pump with stepper motor driver, speed range:1-600 rpm, flow rate range: 0.00067-3600mL/min. Toggle switch control start/stop and direction. Digital knob control speed, easy operation, durable. Support external start /stop and multiple external control way. Also support RS485 Interface ( MODBUS protocol RTU mode). Easy to connect with computer, PLC and HMI achieve external control. Simple and fast operation, suitable for different industrial site using.



#### Features

- 'Dual CPU' control, separate control and driver, computing fast, working stable, high precision transferring.
- Shenchen-M-CIR circuit system with imported chips, computing fast, reliable performance, working stable.
- Shenchen-M-EMB control system with embedded software design, powerful function, friendly interface, attention to users' experience.
- Digital knob can identify the target speed intelligently. When the rotation speed fast, the switch increase the adjustment range automatically. When the rotation speed slow, the switch decrease the adjustment range automatically. It is very convenient to adjust the speed. The rotary encoded switch also have full speed function, not only can be used for washing bottles, but also can be used for filling liquid to the tubing.
- Toggle switch control direction and start/stop, easy operation, long lifetime.
- Free external control module: 0-5V, 0-10V, 4-20mA, 3 kind of signal can be used for external control the pump motor speed. Also can control the pump start/stop through switch signal.
- RS485 communication interface, support Shenchen communication protocol and standard MODBUS communication protocol (RTU mode), convenient for external control.
- Power down memory function, save data in time, safe and reliable.
- Strong anti-jamming feature, wide voltage design, suitable for complex power supply environment.
- Circuit board spray with three paint, anti-dust, anti-moisture, anti-static, resist corrosion.

#### Product Composition and Flow Rate Range

Basic				Pump head & F	low rates (mL/min)				
Perista	Itlc Pump	YZ1515x	YZ2515x	MC1~MC12(10)	MC1~MC12(6)	DZ25-3L	SN25	SN15-14	SN15-16
Drive & speed	Tubing	13', 14', 19', 16' 25', 17', 18'	15',24'	inner diameter: ( Wall thickness: 0	15*,24* 35*,36*	24°	14"	16*	
BT100M	1-150rpm	0.07~570	1.7-435	0.00067-32(suggest	0.0008–45(suggest working rotating speed≤150rpm)	2.11~900	2.5 - 375	0.24~36	0.88~132
BT300M	1-350rpm	0.07-1330	1.7~1016	working rotating		2.11-2100	2.5 ~ 875	0.24 - 84	0.88~308
BT800M	1-600rpm	0.07~2280	1.7-1740	speed≤150rpm)		2.11 - 3600	2.5~1500	0.24-144	0.88~528







Shenchen EXP600 explosion-proof pump, driven by explosion-proof motor, the power is strong, the direction is reversible. With poleless speed regulation, the speed can be adjusted manually. High performance, stable flow rate, high torque and low noise, suitable for various pump head and tubing. Can running for a long time continuously, easy for maintenance. Safe and explosion-proof, suitable for various environment, especially for the industrial sites which have Inflammable gas or electric problem.

# Features

- Safe explosion proof, suitable for sites where have electric problem.
- Poleless speed regulation, reversible.
- Stable flow rate, high torque, low noise, suitable for various pump heads and tubings.
- Can mount 2 pcs YZ15/25 pump heads to increase the flow rate. Reduce the pulsation, more stable to transfer the fluid.
- Big flow rate design, the speed range is 180-600rpm/min.



# Technical Specifications

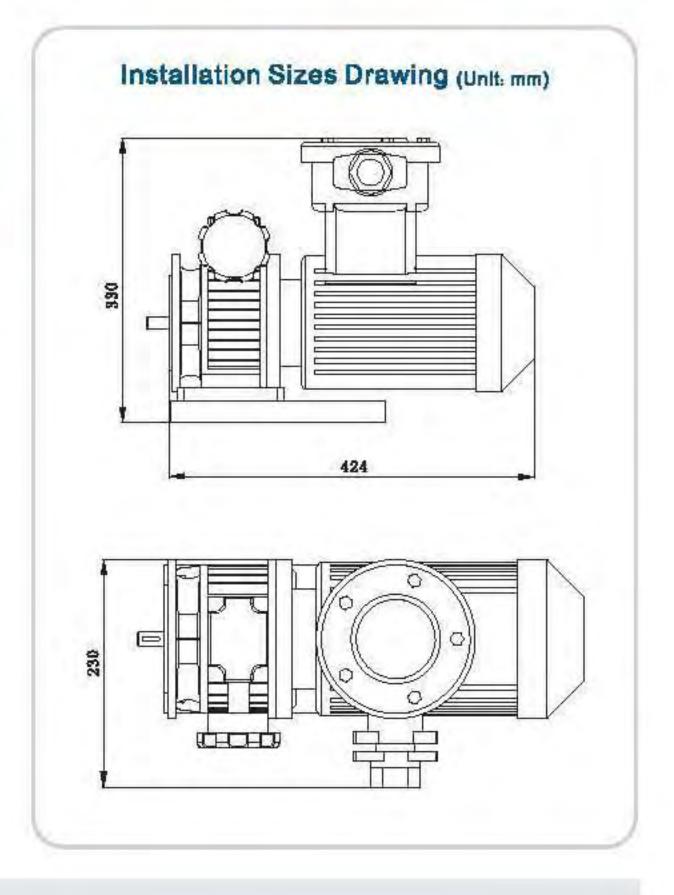
Speed I	ange	180-600 rpm	
Speed I	ange	180-600	rpm

Speed control Manual electrodeless speed adjusting

Working voltage AC 3 phase 360V 0-40°C Environment temperature

424×230×330 (mm) (L×W×H) Drive dimension

Drive weight 30 kg Relative humidity <80% **IP55** IP rate



# Product Composition and Flow Rate Range

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

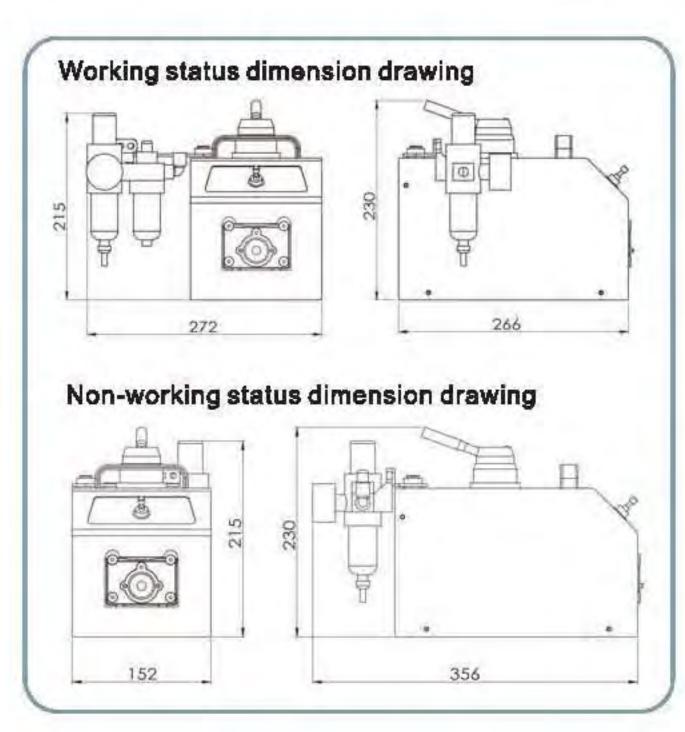
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# Explosion Proof Peristaltic Pump

# Product Introduction

Shenchen QD600 pneumatic pumps, with pneumatic motor driver. Start/stop, direction, stepless speed control functions. Functional design, pneumatic components can turn with >90°, convenient for users to check the pressure value. 304 stainless steel housing, with handle, easy to carry. Sultable for various pump head and tubing. Gas driving, explosion proof and safe, suitable for industrial sites where have inflammable gas and request explosion proof or without power supply.







# Features

- Gas driven,safe explosion-proof,apply to power hidden trouble or without power supply.
- Low heat, low temperature -rise
- 150W Low maintenance motor, large torque, stepless speed regulation.
- Start/stop, reverse function, overload protection.
- F.R.L unit direction reversible, when working, it can rotate outward to open and deadlock, convenient for users to observe air pressure value.
- Stainless steel housing with handle, portable and convenient.
   Note: carefully placed, prevent static electricity, ensure safe operation.

# Technical Specifications

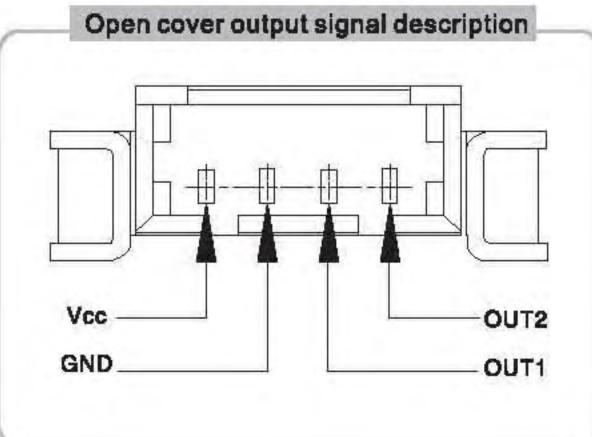
Speed range	60~600 rpm				
Display	Display air pressure				
Speed control	Poleless speed regulation(By adjusting				
	the speed flow valve)				
Control function	Start/stop, reversing (gas reversing				
	valve control)				
Working air pressu	ire 0.5-0.7Mpa				
Gas consumption	4L/Sec				
Drive dimension	Working:266x 272 x 230mm				
(LxWxH)	Non-working:356x 152 x 230mm				
Power consumption	n <80W				
Environment temp	erature 0–40℃				
Relative humidity	< 80%				
IP rate	IP31				
Drive weight	4.10 kg				

# Product Composition and Flow Rate Range

Peristaltic Pump		Pump head & Flow rates (mL/mln)							
		YZ1515x	YZ2515x	MC1-MC12(10)	MC1-MC12(8)	SN25	SN15-14	SN15-18	
Drive & speed	Tubing	13', 14', 19', 16' 25', 17', 18'	15",24"	Inner diameter: 0.13–3.17mm Wall thickness: 0.86–1mm		24*	14*	16"	
QD600	60-600rpm	5-2280	100-1740	2.8-49(suggest 3.2-84(suggest working rotating speed ≤ 150rpm) 3.2-84(suggest working rotating speed ≤ 150rpm)		150~1500	14.4 ~ 144	52.8 ~ 528	



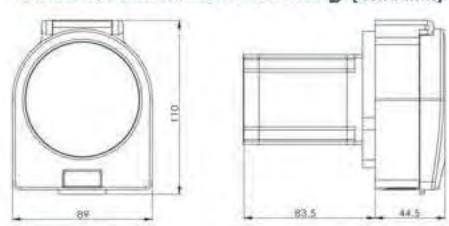




# Product Introduction

UC15 mechanical spring pump head, widely used for medical dialysis equipment. Functional design, simple atmosphere, practicality; with transparent protective cover, it can observe the operating condition anytime output signal of open cover, stop working when open the cover, assure safe operation. Elastic roller assembly, adaptive tubing pressure gap, working smoothly, low noise. Manual spanner, not only can be used for installing tubing, but also can be used for manual rotate the roller assembly press the tubing, complete the liquid transferring.

### Installation Sizes Drawing (Unit: mm)



# Features

- Simple atmosphere appearance, compact structure, with broad flow rate range.
- Elastic roller assembly, adaptive tubing pressure gap, adjustable pressure, extend using life.
- The transparent protective cover, can observe the operation of realtime.
- Manual spanner, can be manual rotation of the roller assembly after power off, complete liquid transferring.
- Manual spanner with clamping hose, to solve the traditional spring pump head hose clamping inconvenience.
- Open the protective cover, output the "stop signal", to ensure the operation safe and reliable.

# Motor data

Speed range	0.1-120 rpm
Speed resoultion	0.1 rpm
Motor type	Stepper motor
Outlet singal	Open the cover signal (Active signal DC12V)



1. Press the down clamp, put the hose into the U shaped groove



Put the hose between the two guide posts. Hand spanner, rotate the wheel body.



3. Press the down clamp, put the hose into the U shaped groove



4. Installation is complete.

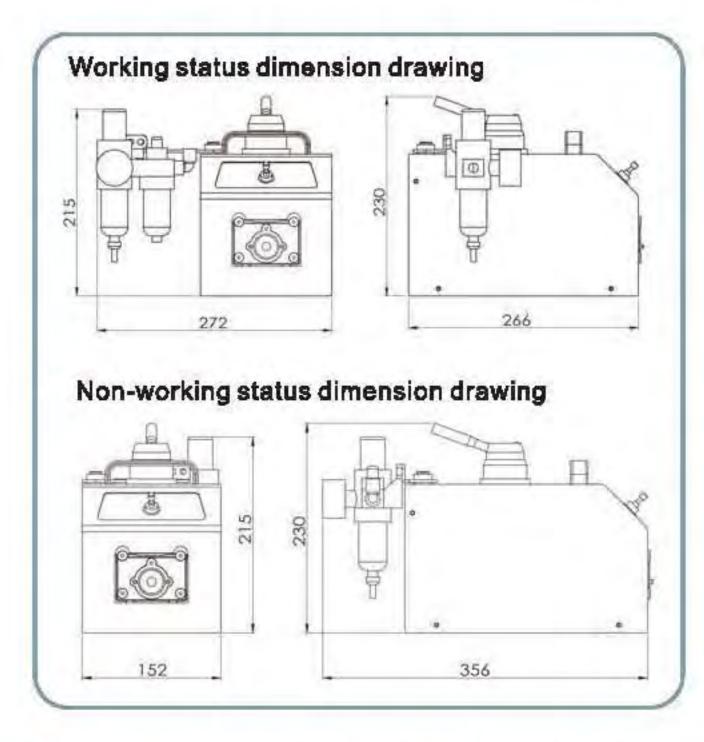
	odel The shell material	Tubing		Speed range(rpm)	Flow rates (mL/min)	Weight(kg)
MODEL		Size	ID × Wall(mm)	opeed (alige((pill)	rion races (me/mm)	vveigint(kg)
	19#	2.4×1.6		0.08-183		
		16#	3.1 × 1.6	0.1–200	0.15~320	0.5
Uc15	Aluminum	25#	4.8×1.6		1.1~699	
	alloy/FC	alloy /PC 17# 6.4×1.6	2-1270			
		18#	7.9×1.6		2.8~1719	
		Medical dialysis tube		0.1-60	0.86~500	

# Explosion Proof Peristaltic Pump

# Product Introduction

Shenchen QD600 pneumatic pumps, with pneumatic motor driver. Start/stop, direction, stepless speed control functions. Functional design, pneumatic components can turn with >90°, convenient for users to check the pressure value. 304 stainless steel housing, with handle, easy to carry. Sultable for various pump head and tubing. Gas driving, explosion proof and safe, suitable for industrial sites where have inflammable gas and request explosion proof or without power supply.







# Features

- Gas driven,safe explosion-proof,apply to power hidden trouble or without power supply.
- Low heat, low temperature -rise
- 150W Low maintenance motor, large torque, stepless speed regulation.
- Start/stop, reverse function, overload protection.
- F.R.L unit direction reversible, when working, it can rotate outward to open and deadlock, convenient for users to observe air pressure value.
- Stainless steel housing with handle, portable and convenient.
   Note: carefully placed, prevent static electricity, ensure safe operation.

# Technical Specifications

Speed range	60~600 rpm				
Display	Display air pressure				
Speed control	Poleless speed regulation(By adjusting				
	the speed flow valve)				
Control function	Start/stop, reversing (gas reversing				
	valve control)				
Working air pressu	ire 0.5-0.7Mpa				
Gas consumption	4L/Sec				
Drive dimension	Working:266x 272 x 230mm				
(LxWxH)	Non-working:356x 152 x 230mm				
Power consumption	n <80W				
Environment temp	erature 0–40℃				
Relative humidity	<80%				
IP rate	IP31				
Drive weight	4.10 kg				

# Product Composition and Flow Rate Range

Peristaltic Pump		Pump head & Flow rates (mL/mln)							
		YZ1515x	YZ2515x	MC1-MC12(10)	MC1-MC12(8)	SN25	SN15-14	SN15-18	
Drive & speed	Tubing	13', 14', 19', 16' 25', 17', 18'	15",24"	Inner diameter: 0.13–3.17mm Wall thickness: 0.86–1mm		24*	14*	16"	
QD600	60-600rpm	5-2280	100-1740	2.8-49(suggest 3.2-84(suggest working rotating speed ≤ 150rpm) 3.2-84(suggest working rotating speed ≤ 150rpm)		150~1500	14.4 ~ 144	52.8 ~ 528	



# MiniPump-2



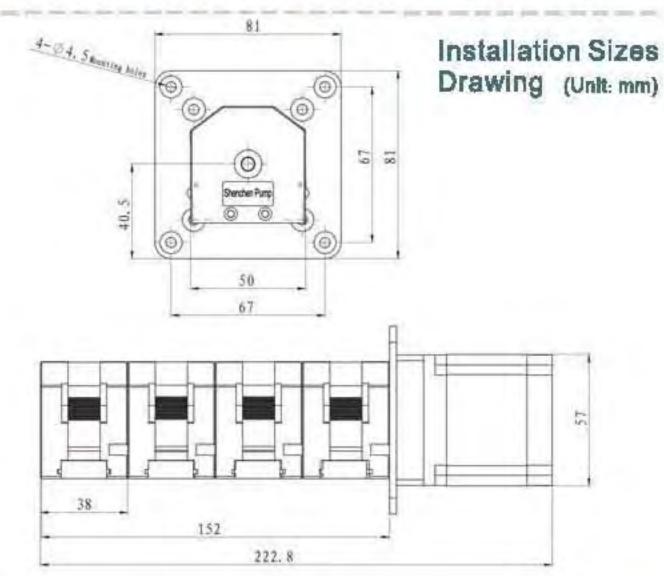
# MiniPump-3



# Product Introduction

Multiple pump head MiniPump series peristaltic pump, use 57 stepper motor drive. Based on the compact and embedded design, mounting 2, 3 and 4 pump heads, add the channel numbers up to 2-8. The Minipump suitable for 8 different size tube, flow rate range is 0.0024-190mL/min.





# MiniPump Series and MiniPump-N Series Technical Specifications

Rotation speed	Flow rates (mL/min) and tubing (1 mm wall thickness, dual channel)							
(rpm)	ID 1 mm	ID 2 mm	ID 2.5 mm	ID 3 mm				
5	0.25	0.90	1.28	1.78				
10	0.49	1.84	2.59	3.52				
15	0.74	2.76	3.85	5.30				
25	1.25	4.57	6.43	6.80				
40	2.00	7.31	10.25	14.02				
50	2.52	9.14	12.78	17.47				
75	3.76	13.64	19.04	26.12				
100	5.03	18.17	25.42	35.34				
200	10.12	36.45	51.27	71.44				
250	12.63	45.75	64.34	88.35				
300	15.01	54.63	76.84	108.39				

Rotation speed	Flow rates (mL/min) and tubing (1.6 mm wall thickness, single channel)							
(rpm)	13# Tubing ID 0.8 mm	14# Tubing ID 1.6 mm	16# Tubing ID 3.1 mm	25# Tubing ID 4.8 mm				
5	0.12	0.56	1.97	3.26				
10	0.26	1.15	3.90	6.41				
15	0.39	1.74	5.80	9.52				
25	0.68	2.88	9.59	15.74				
40	1.08	4.59	15.29	25.15				
50	1.34	5.69	18.96	31.14				
75	2.00	8.54	28.36	46.55				
100	2.73	11.37	37.66	61.98				
200	5.46	22.76	76.02	124.14				
250	6.81	28.40	95.08	153.63				
300	8.28	33.88	114.31	190.00				

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# Multichannel Pump Head-MC Series



Appearance design patent No.: ZL2011 3 0101376.9
The utility model patent No: ZL2011 2 0189392.2

# Model Number

- MC1 MC2 MC3
- MC4 MC5 MC6
- MC8 MC10 MC12

# 0

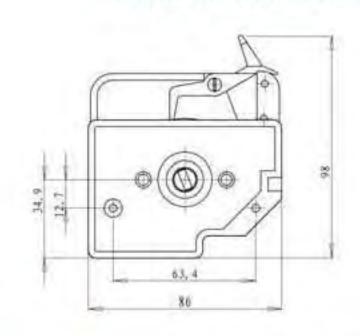
# Typical Application

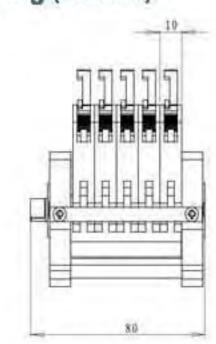
- Support blood sugar analytical device.
- Support ammonian analytical instrument.

# Product Introduction

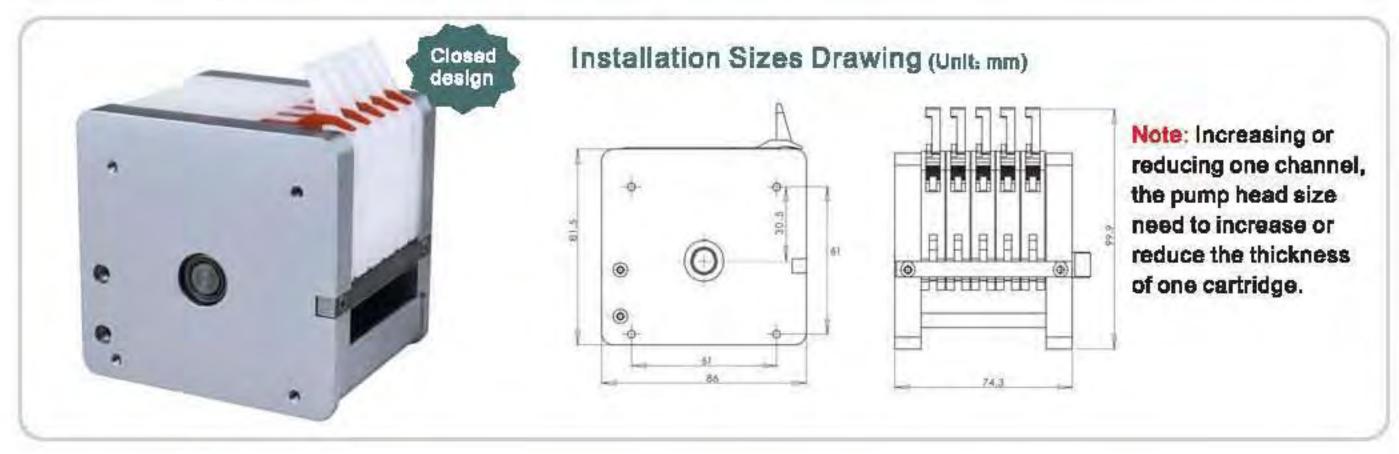
MC series new generation multichannel pump head with unique cam structure, make it more easy to operate. It is designed for small flow rates and multichannel transfer. Comparing with traditional DG pump head, it has particular cam design for micro adjustment occlusion, and also for opening the cartridge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

### Installation Sizes Drawing (Unit: mm)





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



# MC Pump VS DG Pump



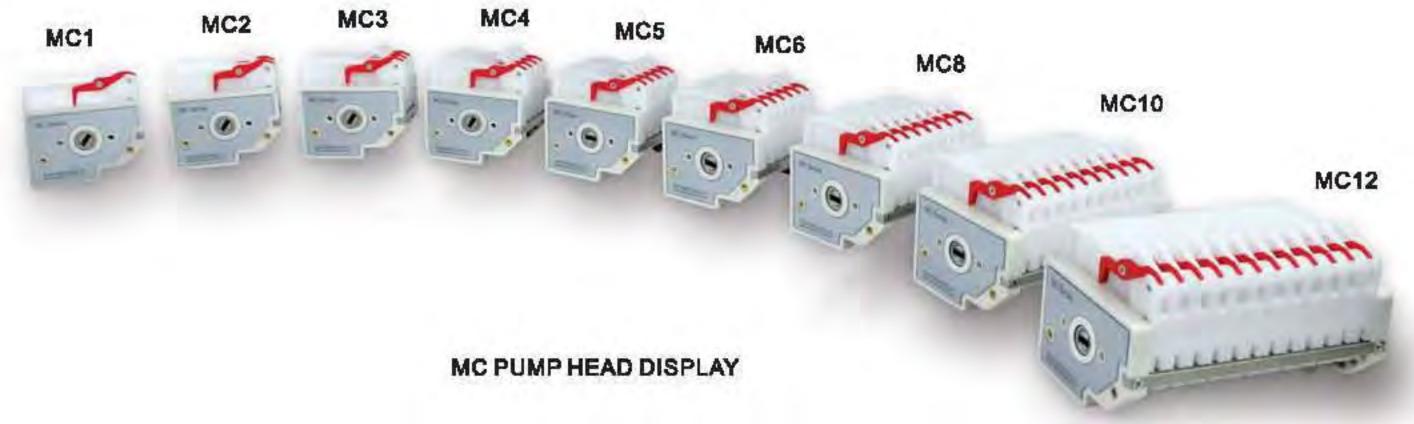
- 1. The traditional DG series pump head need to open the cartridge from the bottom. It is very inconvenient to use when the space of the equipment is compact. The MC series pump head just need to open the cartridge from the top, easy to operate.
- The gear on the MC pump head is smaller than DG, this improved the adjusting resolution.

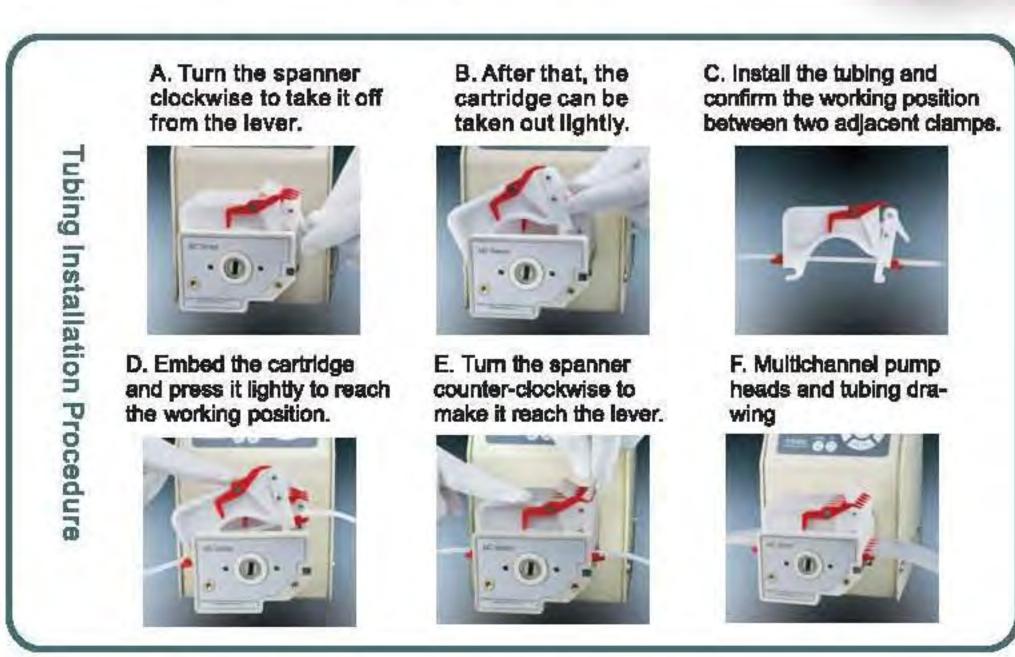


DG Series

# SHENCHEN Multichannel Pump Head-MC Series







Pump head	MC1	MC2	MC3	MC4	MC5	MC6	МСВ	MC10	MC12								
Channel number	1	2	3	4	5	6	8	10	12								
Tubing			1×1	2×1		2.4×0.8	2.79×	0.9	3×1								
ID (mm)			1	2		2.4	2.79		3								
Wall thickness(mm)			1	1	8.0		0.9		1								
Cartridge material				POM/	PVDF												
Rollers number an	d material		10 roller	s, 304/316 sta	inless s	steel material											
Flow rates of	0.1~50rpm		0.0046~2.27	0.016~7.64		0.021~10.50	0.024~12	2.33 0.0	32~16.22								
pump head with 10 rollers	50-100r	pm	2.27-4.69	7.64-16.11		10.50~21.65	12.33-22	.60 16	.22~32.00								
(mL/min)	100~150rpm		4.69~7.03	16.11~23.0	7 3	21.65~31.26	26 22.60~36.62		32.00-49.07								
Rollers number and	material		6 roller	s, 304/316 sta	Inless	steel material											
Flow rates of	0.1~50rp	om	0.0053~2.60	0.02~10.07		0.027~12.72	0.037~18	0.50	143~22.21								
pump head with 6 rollers	50~100r	pm	2.60~5.25	10.07~20.4	1	12.72-26.97	18.50-37	.00 22	.21~42.17								
(mL/min)	100~150	rpm	5.25~8.13	20.41~33.0	8	26.97-44.62	37.00-55	5.50 42	.17~65.00								
ubing maximum	Continu	ous				0.1											
pressure (Mpa)	Intermit	tent				0.1											

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# Multichannel Pump Head-MD Series

# MD3





Model Number Typical Application

MD3

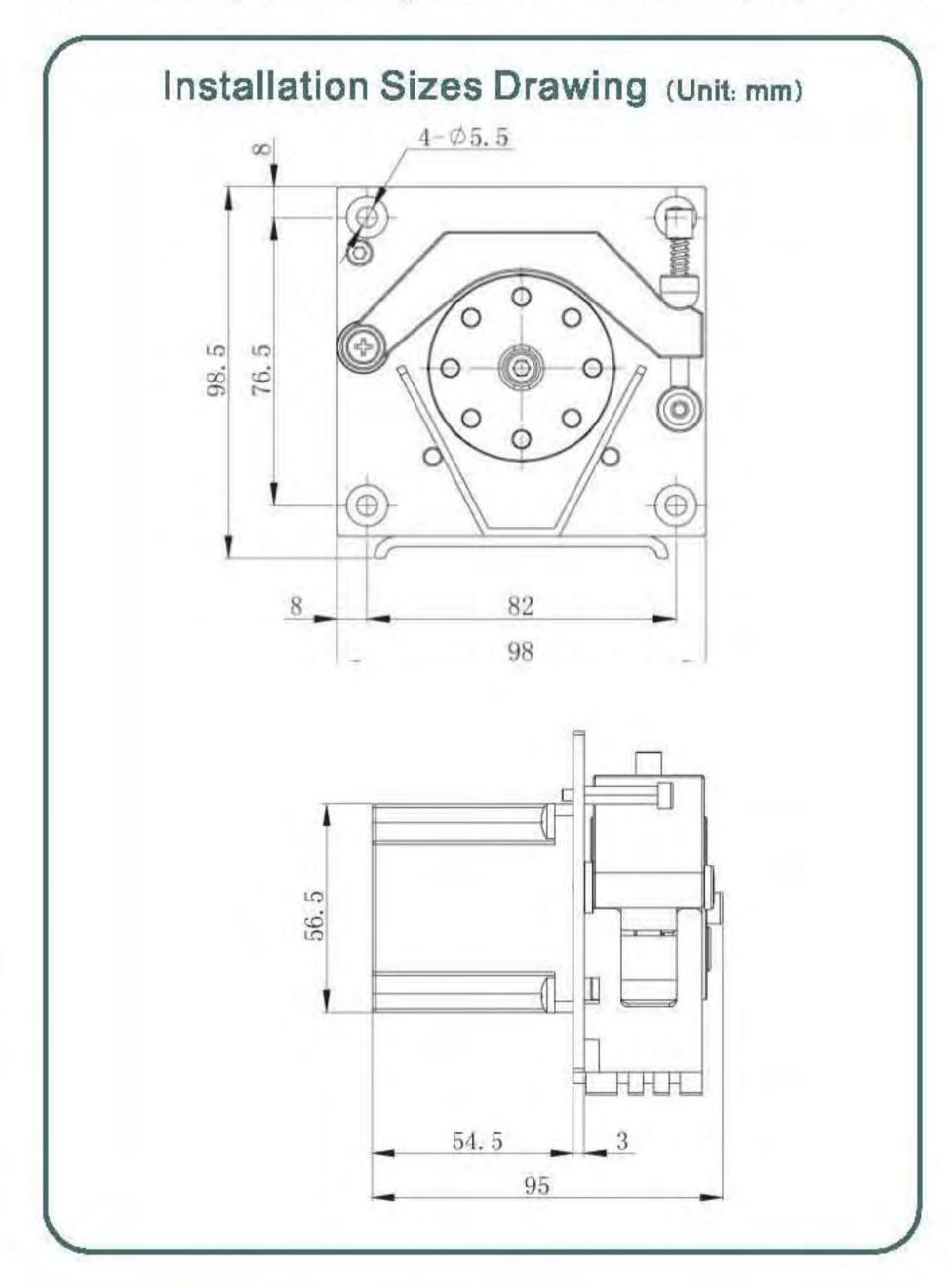
Support analytical instruments

# Features

- Complete compression block design, improve the accuracy among channels effectively.
- Micro adjustment occlusion, not only prolonging tubing use life, but also micro adjust the flow rate and output pressure.
- Embedded design, it is convenient used for various instruments.
- Stepper motor drive, accurate and reliable.
- 0.8-1mm wall thickness of tubing.
- 304 stainless steel roller assembly.

# Product Introduction

Suitable for liquid transferring of small flow rate and multiple channels. Complete compression block design, can improve the accuracy among channels effectively; with the function of micro adjustment occlusion, to micro adjust the flow rate and output pressure.

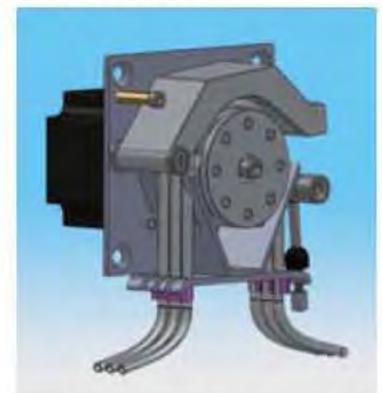


1.Turn the spanner clockwise

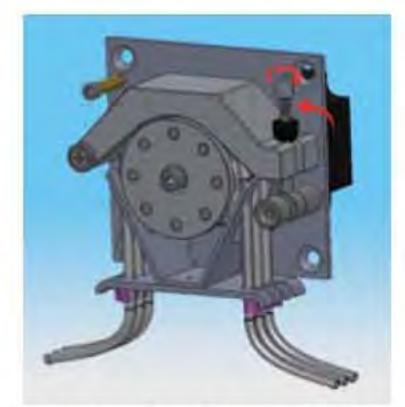
# **Tubing Installation Procedure**



2.Install tubing one by one, inside-out



3. Tubing installation complete



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

# Technical Specifications

Pump head	Channel number	Speed (rpm)	Tubing	Flow rates (0.1-300rpm)	Rollers number	Rollers material	Cartridge material
MD3 3		0.1-300	1×1	0.007-20.95 mL/min (each channel)			РОМ
	3		2×1	0.0244-74mL/min (each channel)	8 rollers	304 stainless steel	
				0.0356-107mL/min (each channel)			

Note:Can customerize channel numbers according with customers request.



# SHENCHEN Multichannel Pump Head-DG Series



# DG系列



# Model Number

DG-1 DG-2 DG-4

DG-6 DG-8 DG-12

# Typical Application

Widely used in the analytical instruments and laboratories

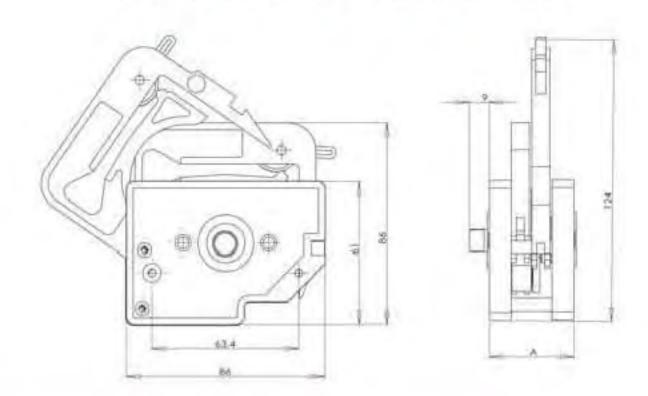
# Product Introduction

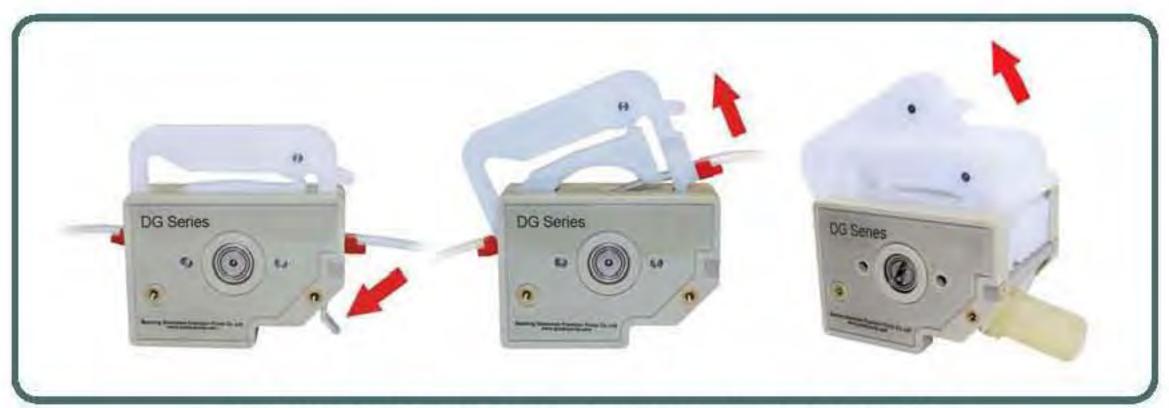
The first generation multichannel pump head is used for multichannel transfer micro liquid. Occlusion can be adjusted. Widely used in supporting analytical instruments.

# Features

- Accept 0.13mm-3.17mm ID tubing.
- Easy to change and fix the tubing. Occlusion can be adjusted slightly by ratchet wheel.
- Offer 1,2,4,6,8,12 channels for selection. Non-standard products can be customized according to customer's requirements.
- 304 stainless steel rollers assembly. Provide two roller structures: 6 rollers and 10 rollers.

### Installation Sizes Drawing (Unit: mm)





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

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

# Multichannel Pump Head-MT12



# Features

MT12 peristaltic pump is designed specially for increasing the precision among channels. The main body is made from aluminum alloy material. One compression block can press and fix 12 tubes at the same time to improve the transfer consistency and increase the transfer precision between channels.



The opening state drawing of compression block

# Product Introduction

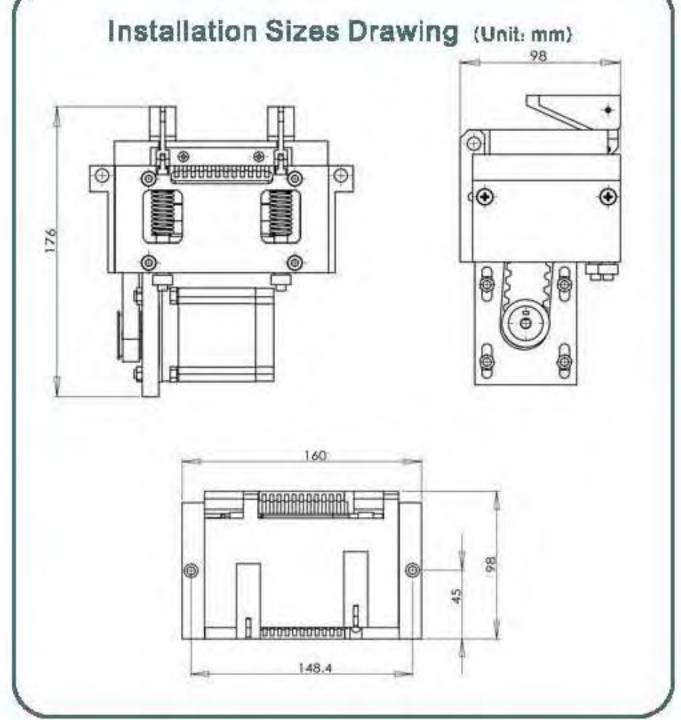
12 channels peristaltic pump with the unique complete compression block design, solves the big error problem between channels from traditional multichannel pump heads. The compact structure for saving room, widely used in high precision request of flow rates among channels, such as chemistry analytical instruments, etc. Accept many kinds of motors drive, such as stepper motor, DC motor and AC motor.



Typical Application

■ MT12

 Support the chemistry analytical instruments





Model	odel Housing Rollers Channel Ro		Rollers	Speed	Tubing and flow rates per channel (mL/min)				Tubing maximum pressure (Mpa)		
	material	terial number number		(rpm)	0.51×0.9	1.02×0.86	2.06×0.86	2.54×0.86	Intermittent	Continuous	
MT12	Aluminum alloy	304/316 stainless steel	12 channels	10 rollers	0.1–50	0.0016~0.84	0.005~2.5	0.015~7.5	0.020~10.5	0.2	0.15



YZ1515x



# Product Introduction

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

# Model Number

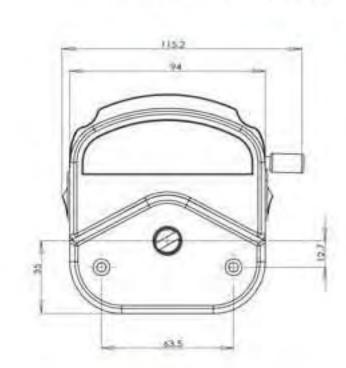
- YZ1515x
- YZ2515x

# Typical Application

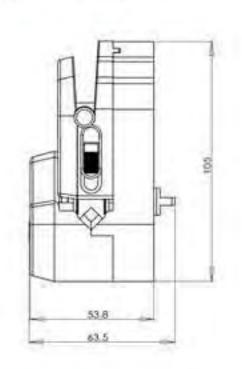
- Support COD on-line monitor.
- Support anorectal therapeutic instrument.
- Support biofermentation cylinder.

# Installation Sizes Drawing (Unit: mm)





Alloy



# **YZ35** Aluminum PPS Shenchen Pump YZ35 A SHENCHEN www.good-puttip.com YZ35-PPS www.good-pump com SHENCHEN

# **Product Introduction**

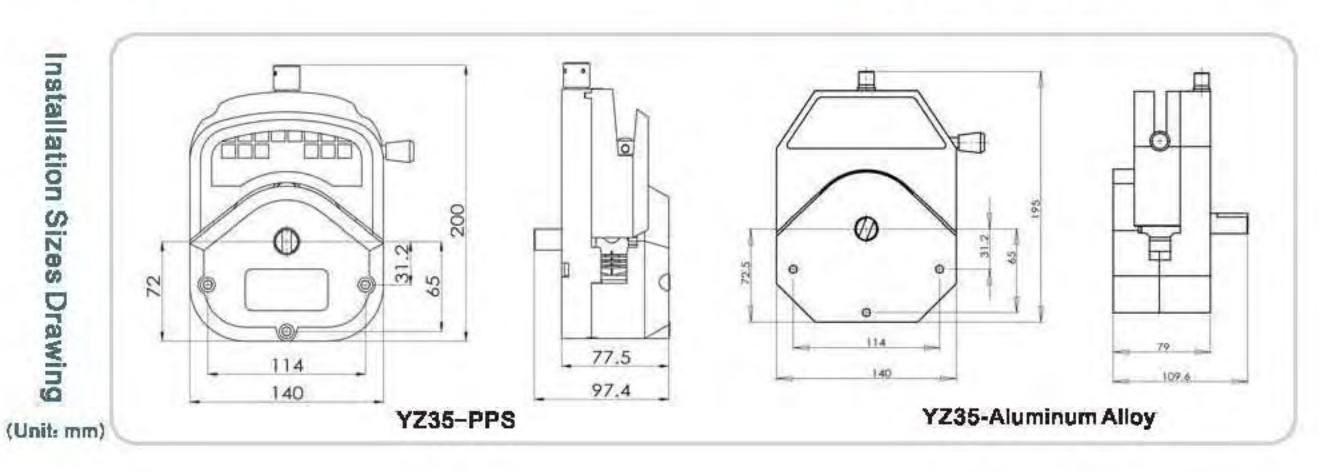
YZ35 pump head with aluminum alloy or PPS housing material. 304 stainless steel rollers assembly achieve high precision transferring liquid. Adaptive tubing cartridge structure makes it more easy to load the tubing.

# Model Number

YZ35-PPS YZ35

# **Features**

- Aluminum alloy and PPS housing.
- 304 stainless steel rollers assembly.
- Large flow rates design: 12L/min



ervice.

# Easy Load Pump Head-YZ Series

# Features

- The housing material of white pump head-PSF or PSU(polysulphone) PSF material pump head has white and good appearance. It resists high temperature, has long-term usage from -100°C to 150°C, perfect ageing resistant performance in the high temperature. PSF pump head can resist corrosion of most inorganic acid, base and salt, but cannot resist organic solvent corrosion. If transfer organic solvent, please choose the PPS pump head.
- The housing material of black pump head—PPS (polyphenylene sulfide)
  PPS material has high molding precision and perfect rigidity. The pump head can achieve long-term running heavily and transfer fluid with high

### **Tubing Installation Procedure**

A. Move lever to the left according with arrow direction, to open the pump head.



C. Rotate the lever to the right according with arrow direction, to close the pump head.



B. Install the correct size tubing.



D. Working status: Replace the compression block and fix the tubing, then ready for working.



accuracy. Resist high temperature of 200°C and corresion especially in the strong chemical corresion resistance, such as organic solvent, etc.

Rollers material---304 stainless steel Resist corrosion; Not easy to rust; High sanitary grade and low repair rate. All save the cost for customers.



3 rollers

6 rollers

Suitable for 9 different sizes tubing to ensure the same transfer precision-5‰~1% in different flow ranges.

Mounting several pump heads can increase the flow rates.



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

		1920 1931 115 115	A322 - 12-2	Flow rates(mL/min)	Tubing Max.p	ressure(Mpa)	Material/Weight(kg)	
Pump head	Tubing	ID x Wall(mm)	mL/r	(1-600rpm)	Intermittent	Continuous	PSF	PPS
YZ1515x	13*	0.8×1.6	0.07	0.007~42			0.40 (3 rollers) 0.44 (6 rollers)	0.46 (3 rollers) 0.50 (6 rollers)
	14"	1.6×1.6	0.27	0.027~162	- Linear	0.17		
	19*	2.4×1.6	0.55	0.055~330	0.27			
	16"	3.1×1.6	0.82	0.082~492				
	25*	4.8 × 1.6	1.7	0.17~1020	0.24	0.14		
	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	0.47		
122313X	24*	6.4×2.4	2.9	0.29~1740	0.27	0.17		
YZ35	26*	6.4×3.3	6.9	0.69~4200	0.27	0.20	Aluminum Alloy	PPS
	73°	9.6×3.3	12.3	1.23~7400	0.27	0.20	4.36	4.55
	82*	12.7×3.3	20	2~12000	0.14	0.10		1.50





# Model Number

DZ25-3L

DZ25-6L

# Features

- Cartridges and base body is separated. It is convenient to change the tubing.
- New cartridge structure design, can use both the special connector and the flexible tube card.
- Wide flow rate range, accept 15#, 24#, 35# and 36# tubing.
- Pump head is stackable.

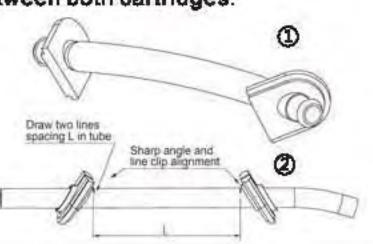
### ① Connector

The tubing length is 128mm between both connectors.

### 2 Cartridge

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

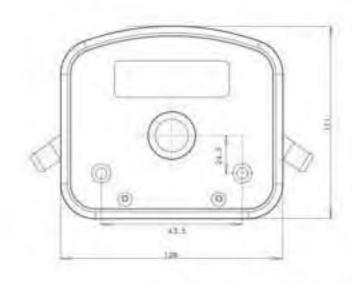
DZ25-3L: the tubing length is 90mm between both cartridges.

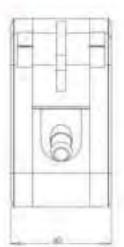


# Product Introduction

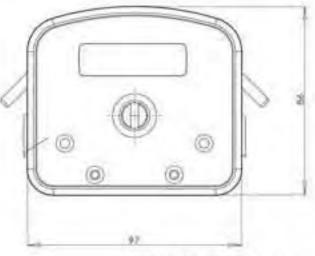
Easy operation, change tube rapidly. The house material is aluminum alloy or PPS (polyphenyl thioether). 304 stainless steel rollers. DZ25 pump head use 2.4mm wall thickness tube, the flow rate range is 3-6000mL/min. This pump head is suitable for high viscous liquid which include granule and floc. It also suitable for high pressure request. New cartridge structure design, can use the special connector, connect low cost tubing outside the pump head to save cost; also can use flexible tube card, meet hygiene requirement.

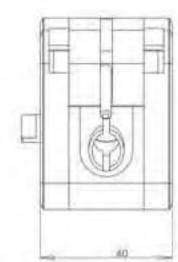
### Installation Sizes Drawing (Unit: mm)





DZ25-6L Dimension





---- DZ25-3L Dimension ----

### **Tubing Installation Procedure**

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



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



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



Model No.	***********	Cartridge/	Tu	bing	Flow rates (mL/min)	Weight (kg)	
	Housing Material	Connector material	Tubing sizes	ID×Wall(mm)	(0.1-600rpm)		
DZ25-6L Alumir			15"	4.8×2.4	0.3~1800		
	Aluminum alloy	PP	24*	6.4×2.4	0.55~3300	1.86	
			35"	7.9×2.4	0.8-4800		
			36*	9.6×2.4	1~6000		
			15"	4.8×2.4	0.211~1264	1.16/0.5	
DZ25-3L	Aluminum alloy/ PPS	// PP	24"	6.4×2.4	0.385~2310		
			35*	7.9×2.4	0.508~3050		
			36*	9.6×2.4	0.6~3600		

# Low Pulse Pump Head-DY Series

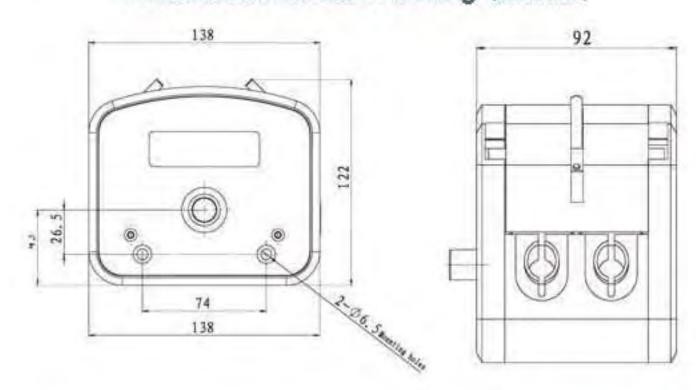
# DY15/DY25



# Product Introduction

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

### Installation Sizes Drawing (Unit: mm)

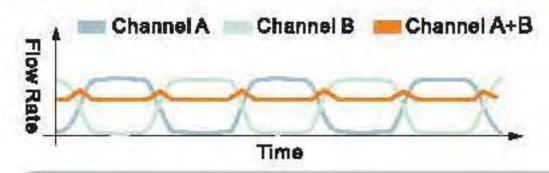


Rollers Assembly

# Pulsation Reduction Schematic Diagram

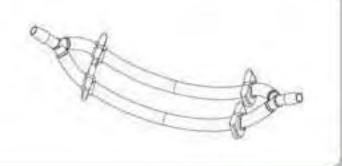
DY15

DY25



Three way connector and tubing cartridge schematic diagram

The tubing length is 126mm between two cartridges



# **Features**

48

- Complementary phase 304 stainless steel roller assembly, effective reducing the fluid pulsation.
- Pump head housing material is aluminum
- Using flexible tubing cartridge, install tubing easy and fast.
- The flexible block assembly with adaptive tubing gap' function, extend the tubing life effectively.

### **Tubing Installation Procedure**

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



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



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

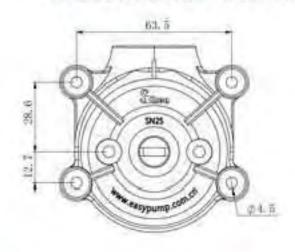


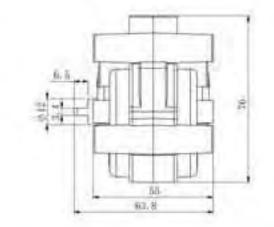
	100.000.000	Cartridge/	J	ubing	Flow rates (mL/min) (0.1-350rpm)	Weight (kg)	
Model No.	Housing Material	Connector	Tubing sizes	ID×Wall(mm)			
		PP	13*	0.8×1.6	0.01~48	3.2	
	Aluminum alloy		14*	1.6×1.6	0.06~223		
DY15			19*	2.4×1.6	0.13~448		
			16*	3.1 × 1.6	0.2~723		
			25*	4.8×1.6	0.47~1626		
			17*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

# SN25/SN15



Installation Sizes Drawing (Unit: mm)





# **Product Introduction**

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

# Model Number

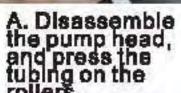
- Typical Application
- SN25

SN15-16

- SN15-14
- Use in the ice cream machine and coffee making machine
  - Support COD on-line monitor

### **Tubing Installation Procedure**







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



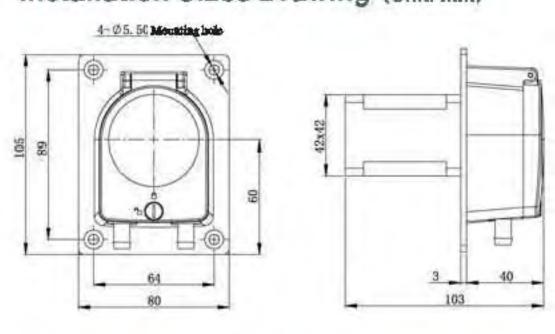
C. Tighten the tubing aptly, and load the other half pump head body.

# SN series pump head technical specification

Model No.	Housing material	Rollers material	Т	ubing	Flow rates (mL/min) (1-600rpm)	Weight (kg)	
			Tubing sizes	ID×Wall(mm)			
SN15-14			14*	1.6×1.6	0.024-144		
SN15-16	PC	304 stainless steel	16*	3.1×1.6	0.088~528	0.20	
SN25		100 100 100 100 100 100 100 100 100 100	24*	6.4×2.4	0.25~1500		

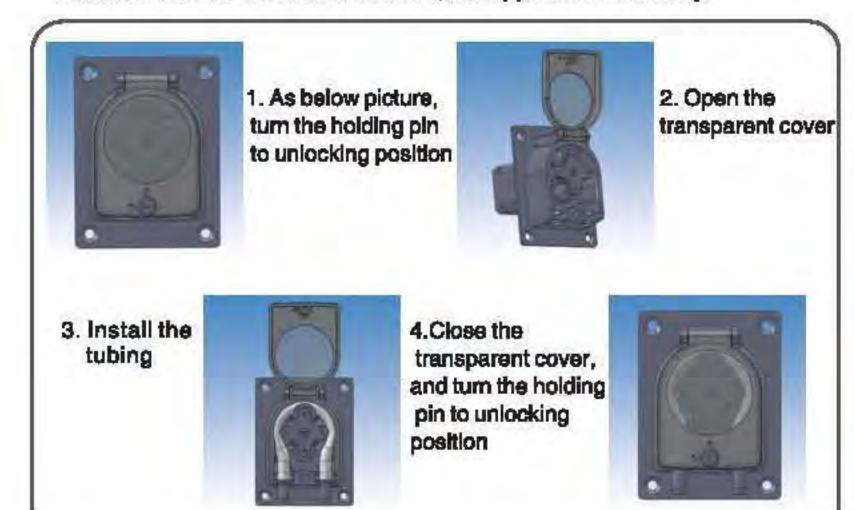


### Installation Sizes Drawing (Unit: mm)



# **Product Introduction**

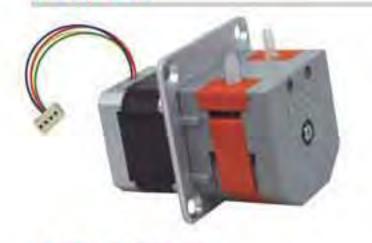
Ud15 pump head, compact structure, embedded design, there is water-proof groove in the pump head mounting side, more suitable for supporting various kinds of equipment. PES material, good rigidity and high precision. Transparent protecting cover, easily to observe the working situation of pump head and tubing at any time. Can use stepper motor, DC motor, AC motor and various driver, the application is widely.

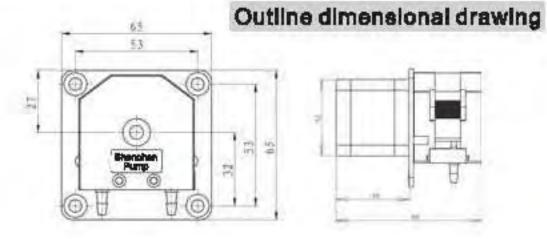


	House material		Tubing		Anne de la contrada del la contrada de la contrada		Section (section 20 and control
Model No.	Body	Protective cover	Tubing sizes	ID×Wall(mm)	Speed Range(rpm)	Flow rates (mL/mln)	Weight (kg)
	UD15 PES Trai	Transparent PC	16*	3.1×1.6	0.1~350	0.08~280	0.12
UD15			25*	4.8×1.6		0.16~580	
			17'	6.4×1.6		0.30~1000	

# **OEM Product**

### OEM-B01

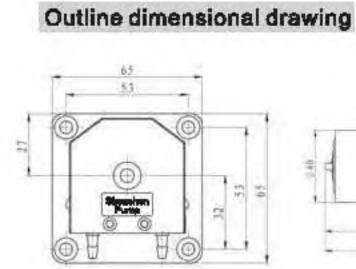


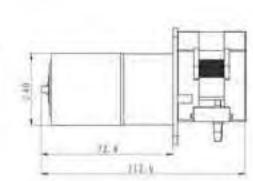


Speed range	≤300 rpm	
Max flow rate	190mL/min	
Motor type	42 stepper motor	
Motor phase number	2	
Motor step angle	1.8	
Motor phase voltage	2.2V	
Motor phase current	1.0A	

### **OEM-MZ** Series



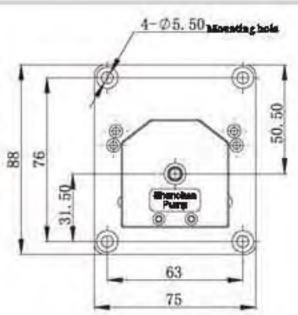




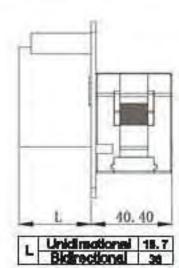
Model number	Rotation speed (rpm)	Power supply	Motor type
OEM-MZ01	170		
OEM-MZ11	5		
OEM-MZ12	10		
OEM-MZ13	15		
OEM-MZ14	20	DC 24V	Ø 37 DC Motor
OEM-MZ15	30	DC 24V	
OEM-MZ18	60		
QEM-MZ17	100		
OEM-MZ18	160		
OEM-MZ19	167		
OEM-MZ20	278		

### **OEM-MJ Series**



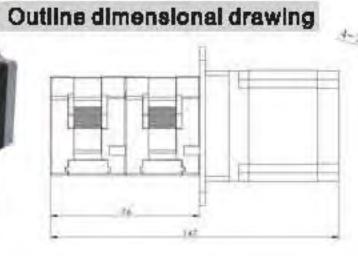


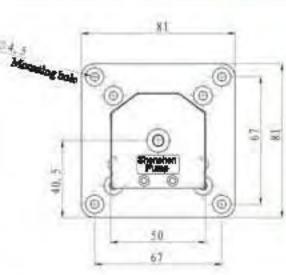
### Outline dimensional drawing



Model number	Rotation speed (rpm)	Direction of rotation	Power supply	Motor type	
OEM-MJ101	2.5/3				
OEM-MJ102	4/5	Unidirectional	AC 110V	AC Motor	
<b>OEM-MJ103</b>	5/6	172131171121			
OEM-MJ201	4.2/5		AC 220V		
OEM-MJ202	5/6	Bidirectional	100		
OEM-MJ203	11.7/14				

Bidrectional 34 Note: In the rotation of speed, "/"represents the rotation speed in 50/60HZ.

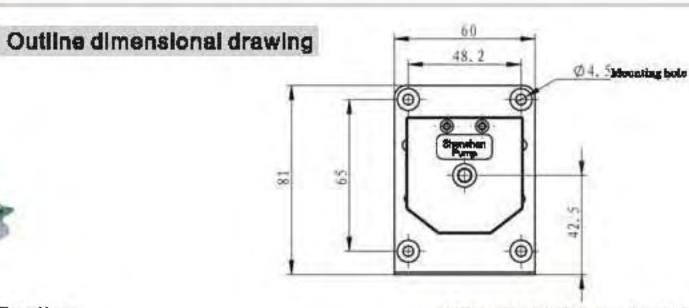


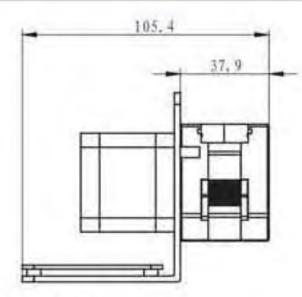


Speed range	≤300 rpm		
Max flow rate	190mL/min		
Pump head	MiniPump-N		
Motor type	57 stepper motor		
Motor phase number	2		
Motor step angle	1.8		
Motor phase voltage	3.75V		
Motor phase current	3.0A		

### OEM-B013, OEM-B014







### **OEM-B013 Technical Specification**

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

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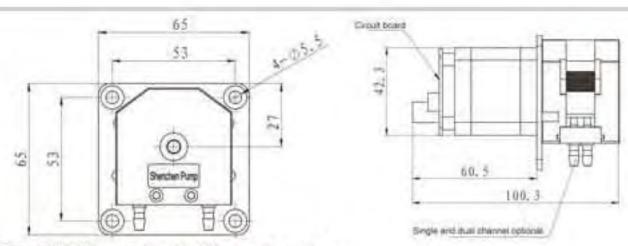
Speed range	0.1-300rpm
Flow rate range	0.12-190mi/min
Speed control	Different dial code to different speed 5-300rpm
External analog signal control	0-5V、0-10V、4-20mA 3 analog signal for option
External control	Start/stop, direction (external passive signal control)
Motor type	42 stepper motor
Input voltage	DC 24V
Power	<30W



# OEM-B02, OEM-B03



### Outline dimensional drawing



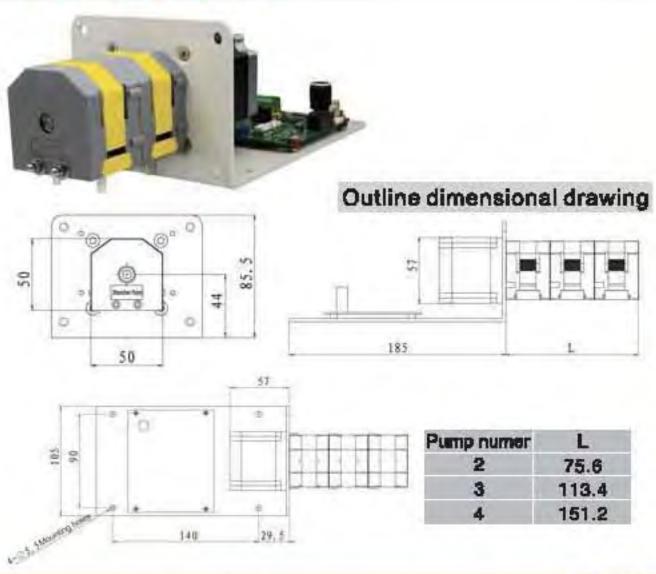
### OEM-B02 Technical Specification

Speed range	0.1-300 rpm
Flow rate range	0.0024-190mL/mln
Speed control	Preset speed or RS232 speed control
Subdivision settings	1/16
Motor type	42 stepper motor
Input voltage	DC 24V
Power	<24W

### OEM-B03 Technical Specification

	opouriouzion.
Speed range	0.1-300 rpm
Flow rate range	0.0024-190mL/min
Speed control	External input pulse frequency speed control
Multiple segments	1/16(recommend), 1, 1/2, 1/4, 1/8, 1/32, 1/64, 1/128
Motor type	42 stepper motor
Input voltage	DC 24V
Power	<24W

### OEM-B136, OEM-B137



### OEM-B136 Technical Specification

Speed range	0.1-300 rpm
Flow rate range	0.0024-190mL/mln
Speed control	Preset speed or manual control
Control mode	External passive signal level (normally closed or open) mode; control the start/stop of direction
Display (optional)	0.98 inch OLED screen
Motor type	57 stepper motor
Input voltage	DC 24V
Power	<80W

### OEM-B137 Technical Specification

OFILE PIOL LOCKILL	on opcomodici
Speed range	0.1-300 rpm
Flow rate range	0.0024-190mL/min
Speed control	Pulse frequency speed control
Logic input voltage	5V, 12V, 24V(default 5V)
Multiple segments	1/16(recommend)、1、1/2、1/4、1/8、1/32、1/64、1/128
Motor type	57 stepper motor
Input voltage	DC 24V
Power	<60W

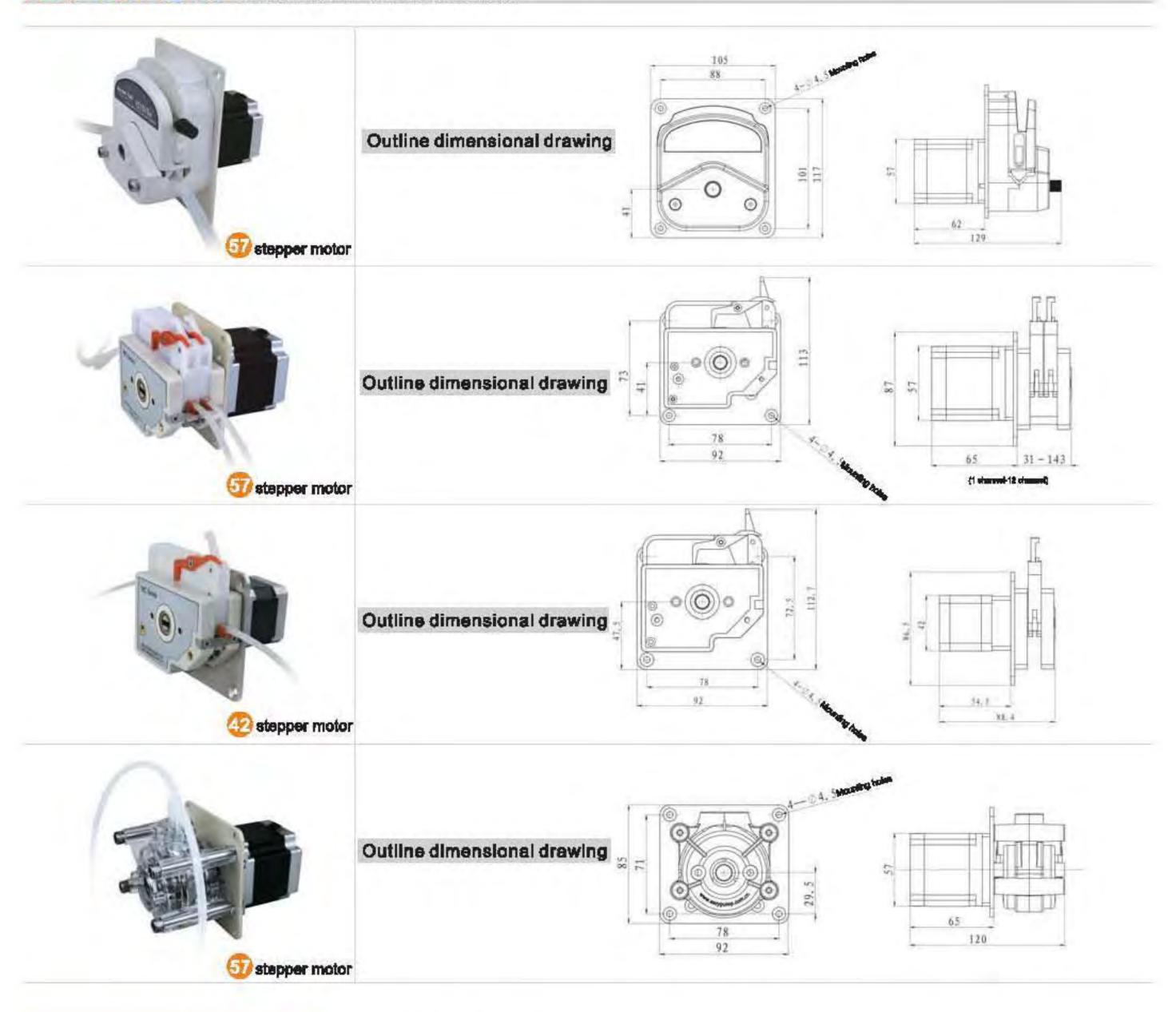
William Committee on the Committee of th		Flow rate ml/mln (1mm wall	thickness,dual channel)	
Motor speed(rpm)	ID 1mm	ID 2mm	ID 2.5mm	ID 3mm
5	0.25	0.90	1.28	1.78
10	0.49	1.84	2.59	3.52
15	0.74	2.76	3.85	5.30
25	1.25	4.57	6.43	8.80
40	2.00	7.31	10.25	14.02
50	2.52	9.14	12.78	17.47
75	3.76	13.64	19.04	26.12
100	5.03	18.17	25.42	35.34
200	10.12	36.45	51.27	71,44
250	12.63	45.75	64.34	88.35
300	15.01	54.63	76.84	108.39

800	15.01	34.03	70.84	108.39
		Flow rate ml/min (1.6mm wal	I thickness,single channel)	
Motor speed(rpm)	13* ID 0.8mm	14° ID 1.6mm	18" ID 3.1mm	25" ID 4.8mm
5	0.12	0.56	1.97	3.26
10	0.26	1.15	3.90	6.41
15	0.39	1.74	5.80	9.52
25	0.66	2.88	9.59	15.74
40	1.08	4.59	15.29	25.15
50	1.34	5.69	18.96	31.14
75	2.00	8.54	28.36	46.55
100	2.73	11.37	37.66	61.98
200	5.46	22.76	76.02	124.14
250	8.81	28.40	95.08	153.63
300	8.28	33.88	114.31	190.00

uality,

# **OEM Product**

# OEM-B130 Series Patent No. ZL 2013 2 0435227.X



Speed range	≤350 rpm	
Max flow rate	1330mL/min	
Motortype	57 stepper motor/42 stepper motor	
Motor phase number	2	
Motor step angle	1.8°	
Motor phase voltage	3.75V	
Motor phase current	3.0A	

Pump head	Tubing	Flow rate (mL/min)
YZ1515x	13', 14', 19', 16', 25', 17', 18'	≤1330
YZ2515x	15°、24°	≤1015
MC1-MC8	ID: 0.13-3.17mm Wall thickness: 0.8-1mm	≤49(10 roller)、≤65(6 roller)
SN Series	14', 16', 24'	<b>≤875</b>

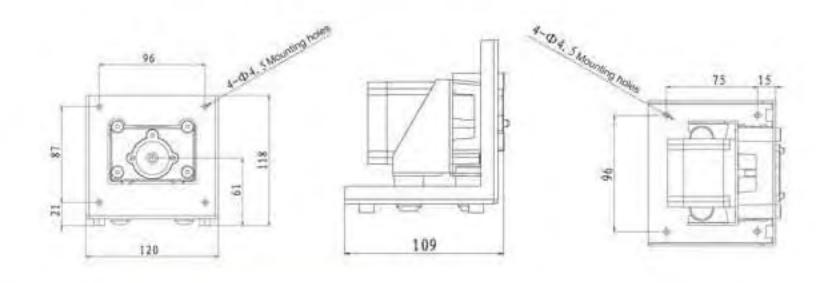


# OEM-B15 Series





# Outline dimensional drawing



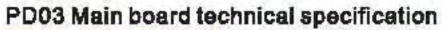
Speed range	≤350 rpm
Max flow rate	1330mL/min
Motor type	57 stepper motor
Motor phase number	2
Motor step angle	1.8
Motor phase voltage	3.75V
Motor phase current	3.0A

# Tubing&Flow rate

Pump head	Tubing	Flow rate (mL/mln)
YZ1515x	13', 14', 19', 16', 25', 17', 18'	≤1330
YZ2515x	15', 24'	≤1015
MC1-MC8	ID: 0.13-3.17mm Wall thickness: 0.8-1mm	≤32(10roller)、≤45(6roller)
SN Series	14", 16", 24"	€875

# User driven / speed type control board





Speed range	Speed range 0.1-350 rpm	
Speed control	Pulse frequency speed control	
Logic input voltage	5V、12V、24V(default 5V)	
Multiple segments	1/16(recommend)、1、1/2、1/4、1/8、1/32 1/64、1/128	
Input voltage	DC 24V	
Power	<60W	
Dimension (L+W)	98.48×82.68 mm	



### PMD07 Main board technical specification

Speed range	0.1-350 rpm
Speed control	Preset speed or manual control
Control mode	External passive signal level (normally closed or open) mode; control the start/stop of direction
Display (optional)	0.96 inch OLED screen
Input voltage	DC 24V
Power	<60W
Dimension (L+W)	98.48×82.68 mm

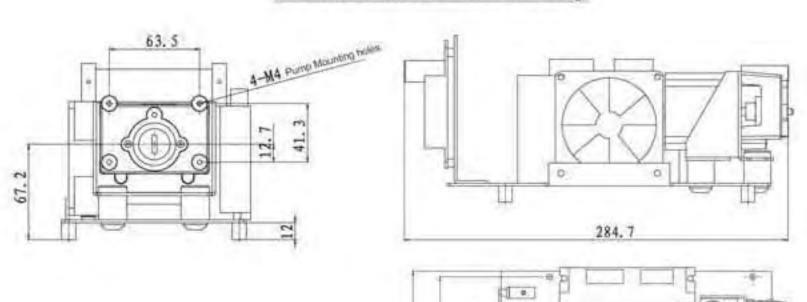
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# SHENCHEN . . . in Australia OEM Product

# OEM Drive

# YZISISX O1C

# Outline dimensional drawing



### Suitable Pump Head







MC1~MC8

YZ1515x, YZ2515x

SN15, SN25

### Pm02 Mainboard technical specification

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

### Pm01 Mainboard technical specification

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

OEM Dr	100	Pump head & Flow rates (mL/min)									
OEM DI	ive	YZ1515x	YZ2515x	MC1~MC12(10)	MC1~MC12(6)	SN25	SN15-14	SN15-16			
OEM Number (main board)&rotation s	Tubing peed	13', 14', 19', 16' 25', 17', 18'	15",24"	Inner diameter: 0.13–3.17mm Wall thickness: 0.86–1mm		24'	14 <sup>4</sup>	16 <sup>e</sup>			
OEM-B145(PM01)	0.1.160mm	0.007~570	0.17-435			0.25 - 375	0.024 - 36	0.088 - 132			
QEM-B147(PM02)	0.1-150rpm	0.007-570	0.17-433	0.000087-49	0.00008-65	0.23-3/3	0.024-36	U.U00 ~ 132			
OEM-B146(PM01)	0.1-350rpm	0.007~1330	0.17~1015	(suggest working	(suggest working	0.25 - 875	0.024 ~ 84	0.088 - 308			
OEM-B148(PM02)	0.1-350rpm	0.007~1330	0.17-1015	rotating speed ≪150rpm)	rotating speed ≤150rpm)	0.25~675	0.024 ~ 04	0.000 ~ 300			
OEM-B221(PM01)	0.1.000	0.007~2280	0.17-1740			0.05 4500	0.004 444	0.000 500			
OEM-B222(PM02)	0.1-800rpm		0.17-1740			0.25 ~ 1500	0.024 ~ 144	0.088 - 528			

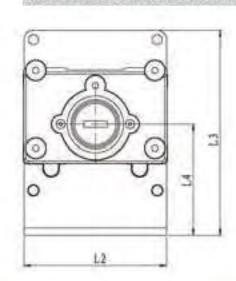


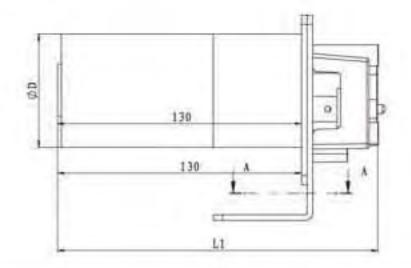


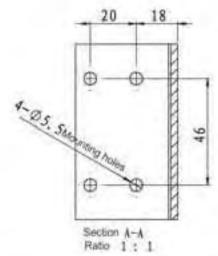
# **OEM-Z Series**



# outline dimensional drawing







### Sultable Pump Head







MCI~MCI2

YZ1515x, YZ2515x

SN15, SN25

Product model	Install method	Speed (rpm)	Speed error	Sultable power	Motor type	Work environmen
OEM-Z101	L shape connection plate	60				
OEM-Z102	L shape connection plate	100				
OEM-Z103	L shape connection plate	166				
OEM-Z104	L shape connection plate	200				
OEM-Z105	L shape connection plate	240	60 100 166 200 240 333 400 500 600 60 100 168 200 240 333 400 500 600 60 100 150 200 300 450 500 600 60 100 150 200 300 450 500 600 60 100 150 200 300 450 500 600 600 600 600 600 600 600 600 6			
OEM-Z106	L shape connection plate	333				
OEM-Z107	L shape connection plate	400				
OEM-Z108	L shape connection plate	500	2000000			
OEM-Z109	L shape connection plate	600	±10%			
OEM-Z110		60			Ø 60 DC geared motor	
OEM-Z111	L shape connection plate	60				
OEM-Z112	L shape connection plate	100				
OEM-Z113	L shape connection plate	166				
OEM-Z114	L shape connection plate	200				
OEM-Z115	L shape connection plate	240		DC 24V/15W		
OEM-Z116	L shape connection plate	333				
OEM-Z117	L shape connection plate	400				
OEM-Z118	L shape connection plate	500				
OEM-Z119	L shape connection plate	600				
OEM-Z201	L shape connection plate	60				
OEM-Z202	L shape connection plate	100				0–40℃
OEM-Z203	L shape connection plate	150				
OEM-Z204	L shape connection plate	200 240 333 400 500 600 60 100 150 200 300 450 500		DC 10V/0EW		
OEM-Z205	L shape connection plate	300		DO 124/2344		
OEM-Z206	L shape connection plate	450				
OEM-Z207	Lahape connection plate	500				
OEM-Z208	L shape connection plate	600			Ø 70 DC geared motor	
OEM-Z211	L shape connection plate	60	±10%		NOTE OF THE PARTY OF THE PARTY.	
OEM-Z212	L shape connection plate	100				
OEM-Z213	L shape connection plate	150				
OEM-Z214		200		DC 24V/25W		
OEM-Z215	L shape connection plate	300				
OEM-Z216	L shape connection plate	450				
OEM-Z217	L shape connection plate	500				
OEM-Z218	L shape connection plate	600				
OEM-Z301	L shape connection plate	600	±10%	DC 24V/30W	Ø 60 DC motor	
OEM-Z401	L shape connection plate	500	±10%	DC 24V/40W	Ø 80 DC motor	

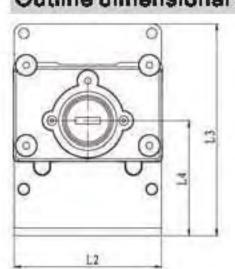
Pump head	Tubing	Flow rate (mL/min)
YZ1515x	13', 14', 19', 16', 25', 17', 18'	<2280
YZ2515x	15', 24'	<1740
MC	ID: 0.13-3.17mm Wall thickness: 0.86-1mm	<45
SN Series	14", 16", 24"	< 1500

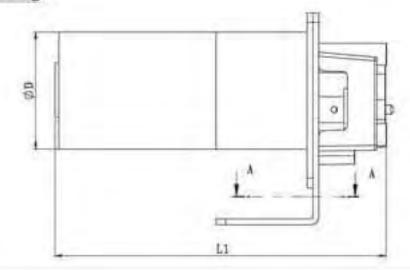
# **OEM Product**

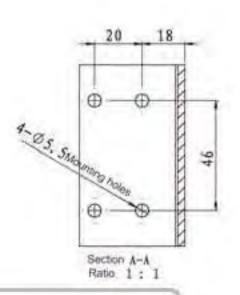
# **OEM-J Series**



# Outline dimensional drawing







Suitable Pump Head











MCI~MC12

YZ1515x, YZ2515x

SN15, SN25

DZ25-3L

DZ25-6L

### OEM-J

Product model	Install method	Speed (rpm)	Speed error	Suitable power	Motor type	Work environmen
OEM-J01	L shape connection plate	60				
OEM-J02	L shape connection plate	100				
OEM-J03	L shape connection plate	166	400	Various success		
OEM-J04	L shape connection plate	200	±10% AC 220V/10\ ±10% AC 220V/15\ ±10% AC 220V/25\	AC 220V/10W	Ø 60 AC geared motor	
OEM-J05	L shape connection plate	300				
OEM-J08	L shape connection plate	417				
OEM-J08	L shape connection plate	60				
OEM-J09	L shape connection plate	100				
OEM-J010	L shape connection plats	166		1 North Control	State Williams	
OEM-J011	L shape connection plate	200	±10% AC 220V/1	AC 220V/15W	Ø 70 AC geared motor	0–40℃
OEM-J012	L shape connection plate	300				
OEM-J013	L shape connection plate	417				
OEM-J015	L shape connection plate	60				
OEM-J016	L shape connection plate	120		AC 220V/25W	Ø 80 AC geared motor	
OEM-J017	L shape connection plate	300	±10%	AC 220 1/25 W	D do no godina mous	
OEM-J018	L shape connection plate	500				
OEM-J019	L shape connection plate	60				
QEM-J020	L shape connection plate	120	0.00444	and the same of th		
OEM-J021	L shape connection plate	300	±10%	AC 220V/80W	Ø 90 AC geared motor	
OEM-J022	L shape connection plate	500				

### OEM-JT

Product model	Install method	Speed range (rpm)	Speed error	Sultable power	Motor type	Work environmen
OEM-JT01	L shape connection plate	0-60				
OEM-JT02	L shape connection plate	0~120	W.W	2525020000000000		
OEM-JT03	L shape connection plate	0~300	±10%	AC 220V/15W	Ø 70 AC geared motor	
OEM-JT04	L shape connection plate	0-500				
OEM-JT05	L shape connection plate	0-60			Ø 80 AC geared motor	0–40℃
OEM-JT06	L shape connection plate	0-120		and a state of the state of		
QEM-JT07	L shape connection plate	0~300	±10% AC 220V/25W Ø	AC 220V/25W		
OEM-JT08	L shape connection plate	0~500				
OEM-JT09	L shape connection plate	0~60				
OEM-JT10	L shape connection plate	0~120	. 100	40 00011/0011	Market Tolland	
OEM-JT11	L shape connection plate	0~300	±10%	AC 220V/80W	Ø 90 AC geared motor	
OEM-JT12	L shape connection plate	0~500				

Pump head	Tubing	Flow rate (mL/min)
YZ1515x	13', 14', 19', 16', 25', 17', 18'	< 1900
YZ2515x	15'、24'	<1460
MC	ID: 0.13-3.17mm Wall thickness: 0.8-1mm	<45
SN Series	14", 16", 24"	< 1250
DZ25-3L	15', 24', 35', 36'	<3000
DZ25-6L	15', 24', 35', 36'	<5000

# 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 Rates Tubing

Tubing s	izes	0.13×0.86	$0.5 \times 0.86$	0.86×0.86	$1.52 \times 0.86$	2.06×0.86	2.4×0.86	2.79×0.86	3.17×0.86	1×1	2×1	3×1
Tubing of sections (1:1)		•	•	0	0	0	0	0	0	0	0	0
Wall thic (mr	CONTRACTOR SCALE				0.86						1.0	
Inside dia (mn		0.13	0.5	0.86	1.52	2.06	2.4	2.79	3.17	1.0	2.0	3.0
Maximum pressure	Conti- nuous					0.1						
(Mpa)	Interm- ittent					0.1						

# **Basic Flow Rates Tubing**

Tubing s	izes	13"	14"	19*	16"	25*	17*	18*	15*	24*	35*	36*	
Tubing of sections (1:1)		0	0	0	0	0	0	0	0	0	0	0	
Wall thic									2.4				
Inside dia (mn	HAND OF A PROPERTY AND A STATE OF	8.0	1.6	2.4	3.1	4.8	6.4	7.9	4.8	6.4	7.9	9.6	
Maximum pressure	Conti- nuous	0.17				0.14	0.1	0.07	0	.17	0.1	4	
(Mpa)	Interm- ittent		0.	27		0.24	0.14	0.1	0.27		0.2	0.24	

# **Industral Tubing**

Tubing	sizes	26*	73*	82*	86*	90*	88*	92*		
Tubing of sections (1:1)	3									
Wall thic (mr	North Street Str		3.3		6	.3	4	.8		
Inside dia (mn	AND THE PERSON NAMED IN	6.4	9.6	12.7	9.5	19	12.7	25.4		
Maximum pressure	Conti- nuous		0.2		0.25					
(Mpa)	Interm- ittent		0.27		0.3					

57



SAINT-GOBAIN Tubing Tygon, PharMed BPT, Norprene etc

	Tygon3350	Tygon R-3603	Norprene Chemical	▶ PharMed	■ 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, blopharm- aceutical, 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 pharmeceutical 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 belge.	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 belge.
Application Suitability	,	ACIDS GOOD ALKALIES GOOD ORGANIC NO PRESSURE GOOD VACUUM GOOD VISCOUS EXCELLENT FLUIDS STERILE GOOD		ACIDS GOOD ALKALIES GOOD ORGANIC NO SOLVENTS PRESSURE GOOD VACUUM EXCELLENT VISCOUS GOOD FLUIDS STERILE 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. Opeque, 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) Sterlitze with ethylene oxide (ETO) or autoclave. To autoclave: Coil loosely in nonlinting cloth or paper, autoclave at 121°C (250°F). 1KG/cm³ (15psl) for 30 minutes (tubing will appear milky); air dry at max 66°C (150°F) for 2 to 2 ½ hours until clear.	oxide(ETO), autoclave or gamma irradiation up	Autoclave, ethylene oxide, or gamma irradiation.	Autoclave.



# SyringePump.com

2013 Catalog







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NE-1002X

**NE-4500** 

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### **NE-1000** Fully Programmable Family of Syringe Pumps





NE-4002X

NE-1200

Dual-NE-1000



# **NE-9000 Peristaltic Dispensing Pump**

# Featuring Learn & Repeat™ for Fantastic Productivity!

- Pump from a reservoir through replaceable continuous tubing.
- ✓ Pump never comes into contact with fluid.
- ✓ Continuous Pumping. Up to 900 mL/min.
- Measured dispenses for production filling of bottles.
- Learn and Repeat<sup>™</sup> for quick setup of production dispenses.
- Computer and foot switch interface.

#### **Description:**

Have a need to accurately fill multiple bottles, vials, or other containers with a liquid? The Learn and Repeat™ mode of the NE-9000 Peristaltic Pump from New Era Pump Systems Inc. makes even the smallest of businesses highly productive right from day one. The NE-9000 is equipped to be used in many settings from the small home based businesses to the large factory floor. The pump can be integrated into existing production lines or simply used stand alone. The NE-9000 comes fully programmable and can be operated manually or with a PC through a RS-232 communication port. Even the most novice of technology users can easily operate the pump stand alone or through the PC. The pump's specialty is in small scale production dispensing. It will fill numerous bottles, vials, etc. with fluids of all types. Equipped for mass production dispensing at a price affordable for the home based business, this pump is a great deal no matter what your purchasing power is. The flow rates vary from a minimum of 0.041 mL/min to a maximum of 904.4 mL/min with 3/16" ID. tubing. Space Saving Chassis: Foot print size of only 7 3/4" x 5 1/4". Won't take up unnecessary space on your laboratory or production bench. Easy-to-use keypad interface.

### Features:

#### Dispense or withdrawal pumping

- Learn and Repeat™
- Foot Switch control available.
- Slow down mode to improve accuracy of dispenses.
- Anti-Drip mode to stop oozing after dispenses.
- Calibration mode to improve accuracy.
- Programmable dispense volumes. Store and select from up to 40 dispenses.
- Non-volatile memory of all operating parameters and pumping program.
- Programmable Phases allowing complex pumping applications and interaction with external devices.
- RS-232 bi-directional control for complete control from a PC. Network up to 100 pumps and other devices.
- Digital logic input: TTL I/O with software filtered control inputs to eliminate glitches and ringing on the control inputs.
- Configurable TTL operational trigger for foot switches and other devices.
  Power Failure Mode: Restarts the Pumping Program after a power interruption.
- Audible Alarm
- Two year warranty
- Includes all the advanced functions and programming features of the NE-1000 family.
- · Worldwide power supplies available.
- Comes with 5ft of Norprene Industrial Grade Tubing, other tubing available.



# **NE-300 Just Infusion™ Syringe Pump**





# Infuses Only!

- -Just the features that you want and none that you don't want to pay for
- -Does not withdraw, volume target, have computer interface or have programmability



- 1. Set the syringe diameter
- 2. Set the infusion rate
- 3. Start the pump
- Holds small or big syringes up to 60 mL
- Pumps continuously until you stop the pump
- Variable infusion rate can be changed while pumping
- Remembers previous settings on power up
- Power failure mode allows pump to continue pumping after a reset
- Syringe purge mode
- Displays total volume dispensed in mL or µL units
- Maximum pumping rate of 1568 mL/hr with a 60 mL syringe
- Precise reproducible flow rates
- Selectable infusion rates units: mL/hr, µL/hr, mL/min, µL/min





# **NE-1000 Single Syringe Pump**

**High Pressure Syringe Pump** 

NE-1010: \$830

**Continuous Infusion Syringe Pump System** 

Dual-NE-1000: \$1510

Microfluidics Double Syringe Pump

NE-1002X: \$1500



#### **NE-1000 Features:**

Accepts 1 syringe from the smallest size available up to 60 mL. A 140 mL syringe can be filled up to 120 mL. NE-1000 & Dual-NE-1000 pumping rate as low as 0.73  $\mu$ L/hr with a 1 mL syringe or as high as 35.33 mL/min with a 60 mL syringe. NE-1010 pumping rate as low as 1.459  $\mu$ L/hr with a 1 mL syringe or as high as 127.2 mL/min with a 60 mL syringe. NE-1002X pumping rate as low as .008 nL/hr with a 0.5  $\mu$ L syringe or as high as 1555  $\mu$ L/min with a 60 mL syringe.

### The NE-1000 Family of Syringe Pumps Features

- · Built for Automation
- Operates stand-alone or from a computer
- · Infuses and withdraws
- Applications range from simple infusions to complex pumping programs
- Programmable preset protocols
- Program up to 41 pumping phases: change pumping rates, set dispensing volumes, insert pauses, control and respond to external signals, sound the buzzer.
- RS-232 and TTL logic control interfaces

Two pumps connected with a dual cable create a Dual Pump System allowing for continuous infusion or emulsification. Network, control, and monitor up to 100 pumps with one computer. Worldwide power supplies available. Motor stall detection. Non-volatile memory of all parameters and programming. Upgradeable to the X and X2 advanced firmware versions for gradient pumping and increased program memory. Dispensing accuracy of +/-1%. Unlimited lifetime technical support. Two year warranty. Plus many, many more features!



# **NE-4000 Double Syringe Pump**

Continuous Infusion
Double Syringe Pump System

DUAL-NE-4000: \$1960

Microfluidics Double Syringe Pump

NE-4002X: \$1950

#### **BUILT FOR AUTOMATION**



#### NE-4000 Features:

Accepts 2 different syringes from the smallest size available up to 60 mL. A 140 mL syringe can be filled up to 120mL. 2 different sized syringes can be used for proportional infusion. NE-4000 & Dual-NE-4000 pumping rate as low as 1.459  $\mu$ L/hr with a 1 mL syringe or as high as 127.2 mL/min with a 60 mL syringe. NE-4002X pumping rate as low as .008 nL/hr with a 0.5  $\mu$ L syringe or as high as 1555  $\mu$ L/min with a 60 mL syringe.

### The NE-1000 Family of Syringe Pumps Features

- · Built for Automation
- Operates stand-alone or from a computer
- · Infuses and withdraws
- Applications range from simple infusions to complex pumping programs
- Programmable preset protocols
- Program up to 41 pumping phases: change pumping rates, set dispensing volumes, insert pauses, control and respond to external signals, sound the buzzer.
- RS-232 and TTL logic control interfaces

Two pumps connected with a dual cable create a Dual Pump System allowing for continuous infusion or emulsification. Network, control, and monitor up to 100 pumps with one computer. Worldwide power supplies available. Motor stall detection. Non-volatile memory of all parameters and programming. Upgradeable to the X and X2 advanced firmware versions for gradient pumping and increased program memory. Dispensing accuracy of +/-1%. Unlimited lifetime technical support. Two year warranty. Plus many, many more features!



# **MultiChannel Syringe Pumps**





- Holds 2, 4, 6, 8, 10 or 12 syringes of up to 3 cc each
- Infusion rates from 0.454 µL/hr (1 cc syringe) to 121.2 mL/hr (3 cc syringe)
- Higher flow rate models available
- Easy-to-use keypad interface



NE-1600: \$1500 DUAL-NE-1600: \$3010

- Holds 2, 4 or 6 syringes of up to 60 cc each Holds 2, 4, 6 or 8 syringes of up to 10 or 2 or 4 syringes up to 140 cc each
- Infusion rates from 0.454 µL/hr (1 cc syringe) to 2376 mL/hr (140 cc syringe)
- Higher flow rate models available
- Easy-to-use keypad interface



NE-1800: \$1500 DUAL-NE-1800: \$3010

- Infusion rates from 0.454 µL/hr (1 cc syringe) to 342.6 mL/hr (10 cc syringe)
- Higher flow rate models available
- Easy-to-use keypad interface

### The NE-1000 Family of Syringe Pumps Features

- Built for Automation
- Operates stand-alone or from a computer
- Infuses and withdraws
- Applications range from simple infusions to complex pumping programs
- Programmable preset protocols
- Program up to 41 pumping phases: change pumping rates, set dispensing volumes, insert pauses, control and respond to external signals, sound the buzzer.
- RS-232 and TTL logic control interfaces

Two pumps connected with a dual cable create a Dual Pump System allowing for continuous infusion or emulsification. Network, control, and monitor up to 100 pumps with one computer. Worldwide power supplies available. Motor stall detection. Non-volatile memory of all parameters and programming. Upgradeable to the X and X2 advanced firmware versions for gradient pumping and increased program memory. Dispensing accuracy of +/-1%. Unlimited lifetime technical support. Two year warranty. Plus many, many more features!



# **NE-1002X Microfluidics Syringe Pump**

Continuous Infusion Microfluidics Syringe Pump System

**DUAL-NE-1002X: \$3010** 

**OEM Microfluidics Syringe Pump** 

NE-502X: \$1100



#### NE-1002X Features:

#### Advance Per Step: 4.252232 Nanometers

Smooth pumping at ultra low flow rates. Accepts syringes from the smallest size available up to 60 mL. A 140 mL syringe can be filled up to 120mL. Pumping rate as low as 0.008 nL/hr with a .5  $\mu$ L syringe or as high as 1246  $\mu$ L/min with a 60 mL syringe. Includes the X Upgrade Smooth Linear/Gradient increasing and decreasing pumping feature.

### The NE-1000 Family of Syringe Pumps Features

- · Built for Automation
- Operates stand-alone or from a computer
- Infuses and withdraws
- Applications range from simple infusions to complex pumping programs
- Programmable preset protocols
- Program up to 41 pumping phases: change pumping rates, set dispensing volumes, insert pauses, control and respond to external signals, sound the buzzer.
- RS-232 and TTL logic control interfaces

Two pumps connected with a dual cable create a Dual Pump System allowing for continuous infusion or emulsification. Network, control, and monitor up to 100 pumps with one computer. Worldwide power supplies available. Motor stall detection. Non-volatile memory of all parameters and programming. Upgradeable to the X and X2 advanced firmware versions for gradient pumping and increased program memory. Dispensing accuracy of +/-1%. Unlimited lifetime technical support. Two year warranty. Plus many, many more features!



**OEM Syringe Pumps NE-500** 

**OEM Syringe Pump** 

NE-500: \$495

**OEM Syringe Pump with Stall Detection** 

NE-501: \$550

**High Pressure OEM Syringe Pump** 

NE-510: \$535

**High Pressure OEM Syringe Pump with Stall Detection** 

NE-511: \$535

**Double OEM Syringe Pump** 

NE-4500: \$625

**Double OEM Syringe Pump with Stall Detection** 

NE-4501: \$680

- Computer controllable: networkable up to 100 pumps
- Stand-alone operation: pre-program the pump with a dispensing program, then operate the pump from an attached Foot Switch, button, or I/O controller
- Add the OEM Starter Kit to run as a fully functional, stand-alone pump.
- Designed for OEM applications, this pump has the same mechanisms and electronics as the NE-1000 aside from the front panel controls.
- Operates from a computer or a foot switch
- · Infusion and withdrawal
- Set a single pumping rate and/or dispensing volume
- Program up to 41 pumping phases that change pumping rates, set dispensing volumes, insert pauses, control and respond to external signals, sound the buzzer
- Network, control, and monitor up to 100 pumps with one computer
- Motor stall detection available in NE-501 model (\$550)
- Dispensing accuracy of ± 1%



For Custom Designed OEM Syringe Pumps please call or e-mail for a quote.



Custom Chassis, Firmware and Mechanical Design. You want it, we'll make it, no matter how simple or complex. When others say it can't be done, we say of course it can be done. The limits are endless to what we can create for you. We here at New Era have been designing pumps for over ten years for all types of OEM applications.

### **OEM Syringe Pump Accessories**

### **OEM Starter & Net Kits**





- Allows user to interactively communicate to the pump with a computer
- Includes: power supply, Pump-to-PC network cable and user manual



Power supply and secondary cable only. For use when networking two or more OEM NE-500 syringe pumps together. Must use the secondary cable in order to complete this application.

#### **Foot Switch**



Model: ADPT-FOOTSW-2 **Price: \$25** 

- Start, stop, or send a signal to a pumping program
- Attach to any of the NE-1000 family pumps to allow remote operation
- Utilizes the TTL logic port on the pump
- · Quick and simple setup







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# Continuous Infusion/Dual NE-1000 Syringe Pump



#### **Description:**

Two NE-1000 Family of Syringe Pumps connected together are often used in dual-pump setups, possibly with check valves for continuous pumping or mixing so that one syringe dispenses while the other reloads. Gives customer flexibility to separate pumps for individual use.

- Dual NE-1010:
- Dual NE-4000:
- Dual NE-1600/1800:
- Dual NE-1002X:

### Includes all of the features of the NE-1000 family of pumps

#### **Dual Pump Plumbing Kit**



#### **Description:**

- For use with our continuous infusion system or dual infusion system
- Provides a dual check valve for two syringes, withdraw will pull fluid from a reservoir and infusion will output into a separate line
- The kit is pre-assembled, all you need to do is plug in the syringes
- Each dual check valve uses 6" of 1/8" tubing to connect to a Y connector, one for reservoir and one for output; each Y-connector has 5' of tubing to make connections to your application.
- Two 60 cc Terumo syringes are included.
- Individual parts are also available.

Model: P-DKIT



Website NEW: www.chromalytic.com.au E-mail: info@chromtech.net.au Tel: 03 9762 2034 . . . in AUSTRALIA

# Continuous NE-1000X (Model: Dual-NE-1000X)

### The Next Generation **Continuous Infusion Syringe Pump System**

#### **Eliminates Flow Rate Pauses & Drop-Offs!**

Eliminates the problem of flow rate drop-off found in "Push-Pull" syringe pumps. In these "Push-Pull" systems, one pump is refilling while the other infuses and then they switch directions. That switch of directions causes a pause or drop in flow. The Continuous NE-1000X's continuous pumping mode eliminates the flow rate drop offs and pauses.



#### **How it Works:**

- Refilling pump refills the syringe at a faster rate than the infusing pump, giving it time to prime the syringe.
- Refilling pump pauses and waits for the infusing pump to empty.
- When the pumps switch directions, the refilled pump is primed and starts infusing at the set rate immediately.

- Two NE-1000X Family of Syringe Pumps connected together via a Dual Pump Sync Cable.
- Continuous Pumping Mode provides a precise continuous flow without any drop-offs of pauses.
- Programmable infusion, refill and prime rates and syringe overlap and prime volumes.
- Flexibility for the pumps to perform either continuous flow, emulsification, or independently at any time.

#### **NE-1000X Family of Syringe Pumps Features**

- Built for Automation
- · Operates stand-alone or from a computer
- Infuses and withdraws
- Applications range from simple infusions to complex pumping programs
- Programmable preset protocols
- Program up to 41 pumping phases that change pumping rates, set dispensing volumes, insert pauses, control and respond to external signals, sound the buzzer
- RS-232 and TTL logic control interfaces
- Network, control, and monitor up to 100 pumps with one computer
- · Gradient ramping of flow rates
- Worldwide power supplies available
- Motor stall detection
- Non-volatile memory of all parameters and programming
- Upgradeable to 340 pumping phases program memory with the X2 Upgrade
- Dispensing accuracy of +/-1%
- Unlimited lifetime technical support
- Two year warranty
- Plus many, many more features!

#### **Dual Pump Plumbing Kit - Model: P-DKIT**



- · For use with our continuous infusion system or dual infusion system.
- Provides a dual check valve for two syringes, withdraw will pull fluid from a reservoir and infusion will output into a separate line.
- The kit is pre-assembled, all you need to do is plug in the syringes.
- Each dual check valve uses 6" of 1/8" tubing to connect to a Y connector, one for reservoir and one for output; each Y-connector has 5' of tubing to make connections to your application.
- Two 60cc Terumo syringes are included.
- Individual parts are also available.







**Australian Distributors** Importers & Manufacurers www.chromtech.net.au

# **Upgrade Options**

**Higher Pressure, Speed & Power Upgrade Options** 

### X Version Upgrade

#### **Upgraded Features to the standard NE-1000 firmware:**

- Linear/Gradient Program Function
- Dual Pump Next Generation Continuous Pumping Mode
- Dual Pump Constant Flow Rate Gradient Pumping Mode
- Additional programming functions for more complex pumping programs
- Syringe Pumps, Syringes & Plumbing Supplies sold separately
- Any syringe pump can be field upgraded except for the NE-300

MODEL: FW-1-X is only available for the NE-1000 series models

(NE-1000 series models included are the NE-1000, NE-4000 and the Multi-Pumps)

MODEL: FW-5-X is only available for the NE-500 series models

MODEL: CBL-DUAL-3 is required to connect 2 pumps for use with dual pump modes

X2 Version Upgrade: Increases the maximum number of programmable pumping phases from 41 to 340.

MODEL: FW-1-X2 is only available for the NE-1000 series models

(NE-1000 series models included are the **NE-1000**, **NE-4000** and the **Multi-Pumps**)

MODEL: FW-5-X2

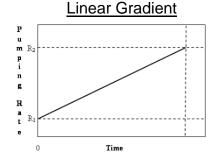
FW-1-X2 is only available for the NE-500 series models

#### **Linear/Gradient Function Pump Features:**

- Smooth linear increasing or decreasing gradient pumping
- Set the start pumping rate, end pumping rate and the time
- Pre-program multiple gradients including any other NE-1000 programming feature

#### **Requirements for Dual Pump Modes:**

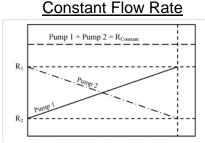
- Any combination of 2 syringe pumps with X firmware upgrades
- Dual pump communications cable Model # CBL-DUAL-3



**The Next Generation Continuous Infusion System** eliminates the problem of flow rate drop offs and pauses caused by push-pull syringe pumps. Please visit our Continuous NE-1000X page and learn how the system works.

#### **Constant Flow Rate Gradient Pumping Mode:**

- Set pump 1 linear function
- Pump 2 automatically pumps inversely to pump 1
- Sum of pump 1 and pump 2 flow rates remains a constant rate







# **Syringe Heater Kit**





Model: HEATER-KIT-1LG

Model: HEATER-PAD2-1LG

#### **Description for HEATER-KIT-1LG:**

Heating device for syringes that requires temperature-controlled dispensing. Heats up to 185°C.

#### **Compatibility Notes:**

- Please contact us at 631-249-1392 or <u>info@syringepump.com</u> about pump compatibility when heating syringes above 100°C. Customization may be required.
- If you are in a country where the voltage is above 120V, you must purchase a step-down transformer with the Heater Kit.
- · Digitally set the heater set point
- Temperature sensor in heating pad
- Set point and other parameters retained in memory
- Controller will heat the syringe and hold the set temperature using an on/off or Thermo-kinetic control algorithm.
- Multiple syringe heater pads can be attached to the control unit, under restricted conditions.
- Heated syringe can be mounted on a syringe pump. Please call 631-249-1392 for compatibility.
- Dual temperature sensors in primary heating pad.
- Heater Kit includes Control-Unit power cable and Primary-Syringe-Heater-Pad.

#### **Description for HEATER-PAD2-1LG:**

For attaching a second heating pad to HEATER-KIT-1LG. Temperature is sensed in primary heating pad only.

#### **Compatibility Notes:**

- Heater pad measures 75 mm x 75 mm
- Each syringe heater control unit uses only the primary heating pad to sense temperature. All secondary heater pads connected to that control unit function according to temperature at the primary heater pad. Careful consideration should be taken when using secondary/slave heater pads. For different temperatures or variable environments, use separate control units with primary heater pads.
- Plugging more than 12 Syringe-Heater-Pads onto one Controller is not recommended



Model: HEATER-PAD3-1LG

#### **Description for HEATER-PAD3-1LG:**

- For attaching additional, up to 12 total, heating pads to HEATER-KIT-1LG with HEATER-PAD2-1LG
- Temperature sensed in primary heating pad only



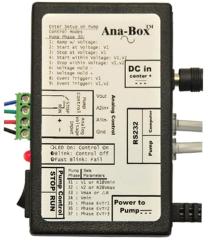
SyringePump.com
Clever Pumps, Priced Right!





Australian Distributors
Importers & Manufacurers
www.chromtech.net.au

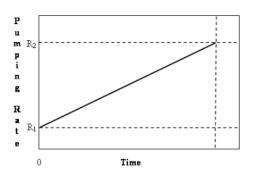
Featured Accessory: Anabox Analog Sensor Interface



Model: ADPT-ANABOX-11

#### Sample Anabox Operational Modes:

Ramping (gradient) with Voltage



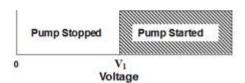
#### **Pressure Controlled Infusion**

Automatically varies the pumping rate to maintain a pressure by utilizing your pressure sensor with a voltage output.

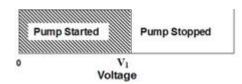
#### ANABOX CLOSED LOOP ANALOG SENSOR INTERFACE

- Vary the pumping rate in proportion to a variable voltage input
- Start or stop pump at set voltages
- Vary the pumping rate to maintain a voltage window (i.e. maintain a pressure or pH level)
- Attaches to any pump in the NE-1000 Family
- Operates stand alone. Does not need a computer to operate.
- Optionally outputs event data to a computer for data logging

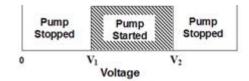
#### Start Pump at Voltage Trigger



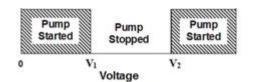
#### Stop Pump at Voltage Trigger



#### Start Pump within Voltage



#### Stop Pump within Voltage





### **Foot Switch**

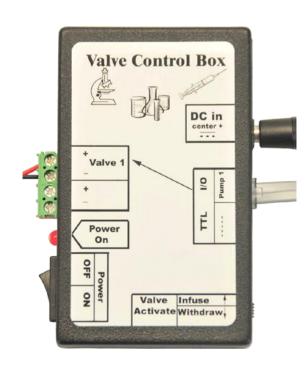
#### **Description:**

- Start, stop, or send a signal to a pumping program.
- Compatible with any New Era pump excluding the NE-300 Just Infusion
- Utilizes the TTL logic port on the pump
- Quick and simple setup
- 20 ft. length cable

Model: ADPT-FOOTSW-2



### **Valve Control Boxes**

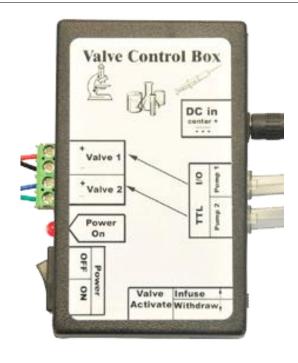


#### **Single Valve Control Box**

#### **Description:**

- Attach your 12V DC valve and the control box will open or close your valve according to the pumping direction
- Utilizes the TTL logic port on syringe pump
- Includes power supply for valve

Model: ADPT-VALVE-INTERFACE-1



#### **Dual Valve Control Box**

#### **Description:**

- Attach your two 12V DC valves and the control box will open or close your valves according to the pumping directions of your two pumps
- Includes CBL-TTL-1 cable to allow synchronized pumping between two pumps
- Utilizes the TTL logic ports on both syringe pumps
- · Includes power supply for valves

Model: ADPT-VALVE-INTERFACE-2



### **Pump Cables & Accessories**

#### Pump-to-PC Primary Network Cable



Model: CBL-PC-PUMP-7

Model: CBL-PC-PUMP-25

#### **Description:**

- Allows full control over syringe pumps through your computer
- DB-9 adapter connects to 9-pin serial port (25-pin adapters available upon request)
- Utilizes the RS-232 communications port of syringe pump
- Available in 7' and 25' length cable
- Quick and simple setup

#### **Pump-to-Pump Secondary Network Cable**



Model: CBL-NET-7

Model: CBL-NET-25

#### **Description:**

- Allows networking of two or more syringe pumps to a single computer
- · Quick and simple setup
- Utilizes the RS-232 communications port of syringe pump
- Available in 7' and 25' length cable
- Requires first pump to be connected with primary network cable

#### RS-232 to USB Converter



#### **Description:**

- Adapter to add a DB-9 RS-232 serial port to your computer by using an USB port
- Includes software driver CD

Model: CBL-USB232

#### **Lockout Disable Key**



#### Description:

- For use with the syringe pump's Lockout Mode
- Prevent unauthorized or accidental changes to the settings by locking the keypad
- Unlocks the keypad and allows settings to be changed
- Utilizes the TTL logic port on syringe pump
- Quick and easy setup

Model: ADPT-LOCKOUT

#### **Pump Synchronization Cable**



Model: CBL-DUAL-3

#### **Description:**

- Used for creating a continuous or dual infusion system
- Establishes a communications link between two pumps to duplicate the exact or inverse commands issued to one pump.
- Utilizes the RS-232 logic port on syringe pump
- · Quick and simple setup
- This is the new replacement cable for CBL-TTL-1 unless the use of the TTL ports for synchronization is preferred







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Control Software for Syringe Pumps

### **Syringe Pump Control Software**











#### Control programmable infusion syringe pumps including Microfluidic, Peristaltic and OEM models.

SyringePumpPro is an easy to use computer interface for programmable syringe pumps. It permits faster programming and operation of one or more pumps. You can create pump programs and upload them to your pumps.

Experience friendly effective software support like never before.

- Synchronously start and stop multiple pumps
- Configure and control multi-pump protocols
- Eliminates hours of manual pump operation
- Monitor pump parameters
- Upload pump programs
- · End front panel button mashing
- OEM Pump? No Keypad?
- Send commands to one or many pumps
- No more re-typing of commands in terminal software
- Quick and easy to use interface for communicating with your pumps

#### Compatible with following brands



















### syringePump.com Clever Pumps, Priced Right!







### **Disposable Syringes & Kits**

New Era supplies an assortment of disposable plastic syringes between 1mL to 140mL from Monoject, NormJect, Terumo & Excel. You can receive discounts in box quantities.

Note: Inert syringes are non-reactive syringes made from polypropylene and polyethylene. Inert syringes do not contain any latex, rubber, silicone oil, styrene or DEHP.

Description (mL=CC)	Part #	Price Each	Box Part #	Box Price
140 mL Luer Lock Non-Inert	SYR-MJ140LL	\$4.95	SYR-MJ140LLBX	\$85.00 (20 per Box)
60 mL Luer Lock Non-Inert	SYR-TER60LL	\$1.25	SYR-TER60LLBX	\$18.75 (25 per Box)
50 mL Luer Lock Inert	SYR-NJ50LL	\$1.75	SYR-NJ50LLBX	\$37.50 (30 per Box)
30 mL Luer Lock Inert	SYR-NJ30LL	\$1.25	SYR-NJ30LLBX	\$40.00 (50 per Box)
20 mL Luer Lock Inert	SYR-NJ20LL	\$0.75	SYR-NJ20LLBX	\$55.00 (100 per Box)
10 mL Luer Lock Inert	SYR-NJ10LL	\$0.50	SYR-NJ10LLBX	\$40.00 (100 per Box)
5 mL Luer Lock Inert	SYR-NJ5LL	\$0.40	SYR-NJ5LLBX	\$30.00 (100 per Box)
3 mL Luer Lock Inert	SYR-NJ3LL	\$0.35	SYR-NJ3LLBX	\$25.00 (100 per Box)
1 mL Luer-Lock Non-Inert	SYR-EX1LL	\$0.40	SYR-EX1LLBX	\$30.00 (100 per Box)
1 mL Tuberculin Inert	SYR-TB1	\$0.25	SYR-EX1LLBX	\$20.00 (100 per Box)



#### Large Syringe Kit Model: P-SYRKIT-LG

- (2) 20mL Luer Lock Inert
- (2) 30mL Luer Lock Inert
- (2) 60mL Terumo Luer Lock Non-Inert
- (6) Female Luer Barbs
- (3) Male Luer Barbs
- (20 ft) Tubing .125" ID, .188" OD, PVC



#### Small Syringe Kit Model: P-SYRKIT-SM

- (2) 1mL Luer Lock Inert
- (2) 3mL Luer Lock Inert
- (2) 5mL Luer Lock Inert
- (2) 10mL Luer Lock Inert
- (6) Female Luer Barbs
- (3) Male Luer Barbs
- (20 ft) Tubing .125" ID, .188" OD, PVC



### Dual Pump Plumbing Kit Model: P-DKIT

- For use with our continuous infusion system or dual infusion system (Dual-NE-1000). Provides a dual check valve for two syringes, withdraw will pull fluid from a reservoir and infusion will output into a separate line.
- The kit is pre-assembled, all you need to do is plug in the syringes.
- Each dual check valve uses 6" of 1/8" tubing to connect to a Y connector, one for reservoir and one for output; each Y-connector has 5' of tubing to make connections to your application.
- Two 60cc Terumo syringes are included.





# Glass Syringes: Standard & Gas Tight

New Era supplies a full range of glass syringes from 50µL to 100mL in gas tight quality and 1mL to 100mL in standard quality. Standard glass can handle between 22 to 43psi while the gas tight can handle from 100psi to upwards of 400psi depending on the syringe.

#### **Standard Glass Syringes**

Part #	Size	PSI/KPA Limits	Temp Limits	Price Each
SYR-GL1LL	1mL	43.5 / 300	200°C	\$30.00
SYR-GL2LL	2mL	43.5 / 300	200°C	\$20.00
SYR-GL3LL	3mL	43.5 / 300	200°C	\$20.00
SYR-GL5LL	5mL	43.5 / 300	200°C	\$20.00
SYR-GL10LL	10mL	29 / 200	200°C	\$28.00
SYR-GL20LL	20mL	29 / 200	200°C	\$30.00
SYR-GL30LL	30mL	29 / 200	200°C	\$54.00
SYR-GL50LL	50mL	21.8 / 150	200°C	\$75.00
SYR-GL100LL	100mL	21.8 / 150	200°C	\$275.00



- Tips are Metal Luer Lock
- Barrel and plunger are made from Borosilicate Glass and are interchangeable
- Manufactured in Germany
- Chemically compatible for a wide range of applications
- Good basic reusable syringe

#### **SGE Gas Tight Glass Syringes**

Part #	Size	PSI/KPA Limits	Temp Limits	Price Each
SYR-GL50MCLL-S	50uL	400 / 2758	70°C	\$59.00
SYR-GL100MCLL-S	100uL	400 / 2758	70°C	\$59.00
SYR-GL250MCLL-S	250uL	400 / 2758	70°C	\$57.00
SYR-GL500MCLL-S	500uL	400 / 2758	70°C	\$54.50
SYR-GL1LL-S	1mL	400 / 2758	70°C	\$56.50
SYR-GL2.5LL-S	2.5mL	400 / 2758	70°C	\$54.00
SYR-GL5LL-S	5mL	400 / 2758	70°C	\$51.90
SYR-GL10LL-S	10mL	200 / 1379	70°C	\$71.50
SYR-GL25LL-S	25mL	100 / 689	70°C	\$162.50
SYR-GL50LL-S	50mL	100 / 689	120°C	\$205.00
SYR-GL100LL-S	100mL	100 / 689	120°C	\$303.00



- Longest working life in the industry
- All SGE syringes come with metal Fixed Luer Lock Tips except for the 50 & 100 mL which are removable.
- Suitable for chromatography applications
- Barrel made from Borosilicate Glass
- PTFE tipped plunger
- Able to replace the plunger
- Nickel plated brass barrel flange
- · Manufactured in Australia
- Chemically compatible for a wide range of applications.





#### **Stainless Steel Syringes**

New Era supplies a full range of stainless syringes from 1mL to 200mL. The syringes can handle 750psi (1500psi for the 8ml), high temperatures and highly corrosive chemicals. Highly corrosive chemicals may require an upgrade in O'Ring.

Part #         Size         PSI         Included Fitting         Price each           SYR-SS1         1 mL         750         None, 1/4-28 Thread         \$325.00           SYR-SS1SL8         1 mL         750         1/8 SwageLok         \$385.00           SYR-SS1L16         1 mL         750         1/16 SwageLok         \$385.00           SYR-SS3L16         1 mL         750         Luer-Lok         \$365.00           SYR-SS3SL8         3 mL         750         1/8 SwageLok         \$425.00           SYR-SS3SL16         3 mL         750         1/16 SwageLok         \$425.00           SYR-SS3LL         3 mL         750         1/16 SwageLok         \$425.00           SYR-SS5L1         3 mL         750         Luer-Lok         \$425.00           SYR-SS5L8         5 mL         750         1/8 SwageLok         \$475.00           SYR-SS5L8         5 mL         750         1/16 SwageLok         \$475.00           SYR-SS5L16         5 mL         750         Luer-Lok         \$475.00           SYR-SS8L         8 mL         1500         None, 1/4-28 Thread         \$400.00           SYR-SS8L16         8 mL         1500         Luer-Lok         \$475.00				T	
SYR-SS1SL8         1 mL         750         1/8 SwageLok         \$385.00           SYR-SS1SL16         1 mL         750         1/16 SwageLok         \$385.00           SYR-SS1LL         1 mL         750         Luer-Lok         \$385.00           SYR-SS3         3 mL         750         None, 1/4-28 Thread         \$365.00           SYR-SS3SL8         3 mL         750         1/16 SwageLok         \$425.00           SYR-SS3L16         3 mL         750         1/16 SwageLok         \$425.00           SYR-SS3LL         3 mL         750         Luer-Lok         \$425.00           SYR-SS5L16         3 mL         750         Luer-Lok         \$4400.00           SYR-SS5L8         5 mL         750         1/16 SwageLok         \$475.00           SYR-SS5L16         5 mL         750         Luer-Lok         \$475.00           SYR-SS8         8 mL         1500         None, 1/4-28 Thread         \$400.00           SYR-SS8L8         8 mL         1500         None, 1/4-28 Thread         \$400.00           SYR-SS8SL8         8 mL         1500         1/8 SwageLok         \$475.00           SYR-SS8SL16         8 mL         1500         1/16 SwageLok         \$475.00 <tr< td=""><td>Part #</td><td>Size</td><td>PSI</td><td>Included Fitting</td><td>Price each</td></tr<>	Part #	Size	PSI	Included Fitting	Price each
SYR-SS1SL16         1 mL         750         1/16 SwageLok         \$385.00           SYR-SS1LL         1 mL         750         Luer-Lok         \$385.00           SYR-SS3         3mL         750         None, 1/4-28 Thread         \$365.00           SYR-SS3SL8         3mL         750         1/8 SwageLok         \$425.00           SYR-SS3L16         3mL         750         1/16 SwageLok         \$425.00           SYR-SS3L1         3mL         750         Luer-Lok         \$425.00           SYR-SS5L16         3mL         750         Luer-Lok         \$4400.00           SYR-SS5L8         5 mL         750         1/16 SwageLok         \$475.00           SYR-SS5L16         5 mL         750         1/16 SwageLok         \$475.00           SYR-SS5L1         5 mL         750         Luer-Lok         \$475.00           SYR-SS8L         8mL         1500         None, 1/4-28 Thread         \$400.00           SYR-SS8L8         8mL         1500         None, 1/4-28 Thread         \$400.00           SYR-SS8L8         8mL         1500         None, 1/4-28 Thread         \$400.00           SYR-SS8L8         8mL         1500         None, 1/4-28 Thread         \$400.00 <t< td=""><td>SYR-SS1</td><td>1 mL</td><td>750</td><td>None, 1/4-28 Thread</td><td>\$325.00</td></t<>	SYR-SS1	1 mL	750	None, 1/4-28 Thread	\$325.00
SYR-SS1LL         1 mL         750         Luer-Lok         \$385.00           SYR-SS3         3mL         750         None, 1/4-28 Thread         \$365.00           SYR-SS3L8         3mL         750         1/8 SwageLok         \$425.00           SYR-SS3L16         3mL         750         1/16 SwageLok         \$425.00           SYR-SS3L1         3mL         750         Luer-Lok         \$425.00           SYR-SS3L1         3mL         750         Luer-Lok         \$425.00           SYR-SS5         5 mL         750         None, 1/4-28 Thread         \$400.00           SYR-SS5L8         5 mL         750         1/16 SwageLok         \$475.00           SYR-SS5L16         5 mL         750         Luer-Lok         \$475.00           SYR-SS8L         8mL         1500         None, 1/4-28 Thread         \$400.00           SYR-SS8L         8mL         1500         None, 3/8-24 Thread         \$475.00      <	SYR-SS1SL8	1 mL	750	1/8 SwageLok	\$385.00
SYR-SS3         3mL         750         None, 1/4-28 Thread         \$365.00           SYR-SS3SL8         3mL         750         1/8 SwageLok         \$425.00           SYR-SS3SL16         3mL         750         1/16 SwageLok         \$425.00           SYR-SS3L1         3mL         750         Luer-Lok         \$425.00           SYR-SS5         5 mL         750         None, 1/4-28 Thread         \$400.00           SYR-SS5L8         5 mL         750         1/16 SwageLok         \$475.00           SYR-SS5L16         5 mL         750         Luer-Lok         \$475.00           SYR-SS5L1         5 mL         750         Luer-Lok         \$475.00           SYR-SS8         8mL         1500         None, 1/4-28 Thread         \$400.00           SYR-SS8         8mL         1500         None, 1/4-28 Thread         \$400.00           SYR-SS8L8         8mL         1500         1/8 SwageLok         \$475.00           SYR-SS8L16         8mL         1500         Luer-Lok         \$475.00           SYR-SS20L         20mL         750         None, 3/8-24 Thread         \$510.00           SYR-SS20SL4         20mL         750         1/4 SwageLok         \$575.00	SYR-SS1SL16	1 mL	750	1/16 SwageLok	\$385.00
SYR-SS3SL8         3mL         750         1/8 SwageLok         \$425.00           SYR-SS3SL16         3mL         750         1/16 SwageLok         \$425.00           SYR-SS3LL         3mL         750         Luer-Lok         \$425.00           SYR-SS5         5 mL         750         None, 1/4-28 Thread         \$400.00           SYR-SSSL8         5 mL         750         1/16 SwageLok         \$475.00           SYR-SSSL16         5 mL         750         Luer-Lok         \$475.00           SYR-SSSL1         5 mL         750         Luer-Lok         \$475.00           SYR-SS8         8mL         1500         None, 1/4-28 Thread         \$400.00           SYR-SS8L8         8mL         1500         None, 1/4-28 Thread         \$400.00           SYR-SS8L8         8mL         1500         1/8 SwageLok         \$475.00           SYR-SS8LB         8mL         1500         1/16 SwageLok         \$475.00           SYR-SS8LB         8mL         1500         Luer-Lok         \$475.00           SYR-SS8LL         8mL         1500         Luer-Lok         \$475.00           SYR-SS20SL4         20mL         750         1/4 SwageLok         \$575.00           SYR-	SYR-SS1LL	1 mL	750	Luer-Lok	\$385.00
SYR-SS3SL16         3mL         750         1/16 SwageLok         \$425.00           SYR-SS3LL         3mL         750         Luer-Lok         \$425.00           SYR-SS5         5 mL         750         None, 1/4-28 Thread         \$400.00           SYR-SS5SL8         5 mL         750         1/8 SwageLok         \$475.00           SYR-SS5SL16         5 mL         750         Luer-Lok         \$475.00           SYR-SS5L1         5 mL         750         Luer-Lok         \$475.00           SYR-SS8         8mL         1500         None, 1/4-28 Thread         \$400.00           SYR-SS8         8mL         1500         None, 1/4-28 Thread         \$400.00           SYR-SS8         8mL         1500         None, 1/4-28 Thread         \$400.00           SYR-SS8         8mL         1500         1/8 SwageLok         \$475.00           SYR-SS8L8         8mL         1500         1/16 SwageLok         \$475.00           SYR-SS20         20mL         750         None, 3/8-24 Thread         \$510.00           SYR-SS20SL4         20mL         750         1/4 SwageLok         \$575.00           SYR-SS20LL         20mL         750         1/16 SwageLok         \$575.00 <tr< td=""><td>SYR-SS3</td><td>3mL</td><td>750</td><td>None, 1/4-28 Thread</td><td>\$365.00</td></tr<>	SYR-SS3	3mL	750	None, 1/4-28 Thread	\$365.00
SYR-SS3LL         3mL         750         Luer-Lok         \$425.00           SYR-SS5         5 mL         750         None, 1/4-28 Thread         \$400.00           SYR-SS5SL8         5 mL         750         1/8 SwageLok         \$475.00           SYR-SS5SL16         5 mL         750         Luer-Lok         \$475.00           SYR-SS5LL         5 mL         750         Luer-Lok         \$475.00           SYR-SS8         8mL         1500         None, 1/4-28 Thread         \$400.00           SYR-SS8L8         8mL         1500         1/8 SwageLok         \$475.00           SYR-SS8SL16         8mL         1500         1/16 SwageLok         \$475.00           SYR-SS8LL         8mL         1500         Luer-Lok         \$475.00           SYR-SS20         20mL         750         None, 3/8-24 Thread         \$510.00           SYR-SS20SL4         20mL         750         1/4 SwageLok         \$575.00           SYR-SS20SL8         20mL         750         1/16 SwageLok         \$575.00           SYR-SS20SL16         20mL         750         1/26 SwageLok         \$575.00           SYR-SS50SL4         50mL         750         None, 3/8-24 Thread         \$595.00      <	SYR-SS3SL8	3mL	750	1/8 SwageLok	\$425.00
SYR-SS5         5 mL         750         None, 1/4-28 Thread         \$400.00           SYR-SS5SL8         5 mL         750         1/8 SwageLok         \$475.00           SYR-SS5SL16         5 mL         750         1/16 SwageLok         \$475.00           SYR-SS5L1         5 mL         750         Luer-Lok         \$475.00           SYR-SS8         8 mL         1500         None, 1/4-28 Thread         \$400.00           SYR-SS8SL8         8 mL         1500         1/8 SwageLok         \$475.00           SYR-SS8SL16         8 mL         1500         1/16 SwageLok         \$475.00           SYR-SS8L1         8 mL         1500         Luer-Lok         \$475.00           SYR-SS20         20 mL         750         None, 3/8-24 Thread         \$510.00           SYR-SS20SL4         20 mL         750         1/4 SwageLok         \$575.00           SYR-SS20SL8         20 mL         750         1/16 SwageLok         \$575.00           SYR-SS20SL16         20 mL         750         Luer-Lok         \$575.00           SYR-SS50SL4         50 mL         750         None, 3/8-24 Thread         \$595.00           SYR-SS50SL8         50 mL         750         1/4 SwageLok         \$650.00 <td>SYR-SS3SL16</td> <td>3mL</td> <td>750</td> <td>1/16 SwageLok</td> <td>\$425.00</td>	SYR-SS3SL16	3mL	750	1/16 SwageLok	\$425.00
SYR-SS5SL8         5 mL         750         1/8 SwageLok         \$475.00           SYR-SS5SL16         5 mL         750         1/16 SwageLok         \$475.00           SYR-SS5LL         5 mL         750         Luer-Lok         \$475.00           SYR-SS8         8 mL         1500         None, 1/4-28 Thread         \$400.00           SYR-SS8SL8         8 mL         1500         1/8 SwageLok         \$475.00           SYR-SS8SL16         8 mL         1500         1/16 SwageLok         \$475.00           SYR-SS8LL         8 mL         1500         Luer-Lok         \$475.00           SYR-SS20         20 mL         750         None, 3/8-24 Thread         \$510.00           SYR-SS20SL4         20 mL         750         1/4 SwageLok         \$575.00           SYR-SS20SL8         20 mL         750         1/16 SwageLok         \$575.00           SYR-SS20SL16         20 mL         750         1/16 SwageLok         \$575.00           SYR-SS50         50 mL         750         None, 3/8-24 Thread         \$595.00           SYR-SS50SL8         50 mL         750         1/4 SwageLok         \$650.00           SYR-SS50SL16         50 mL         750         1/8 SwageLok         \$650.00 </td <td>SYR-SS3LL</td> <td>3mL</td> <td>750</td> <td>Luer-Lok</td> <td>\$425.00</td>	SYR-SS3LL	3mL	750	Luer-Lok	\$425.00
SYR-SS5SL16         5 mL         750         1/16 SwageLok         \$475.00           SYR-SS5LL         5 mL         750         Luer-Lok         \$475.00           SYR-SS8         8mL         1500         None, 1/4-28 Thread         \$400.00           SYR-SS8SL8         8mL         1500         1/8 SwageLok         \$475.00           SYR-SS8SL16         8mL         1500         1/16 SwageLok         \$475.00           SYR-SS8LL         8mL         1500         Luer-Lok         \$475.00           SYR-SS20         20mL         750         None, 3/8-24 Thread         \$510.00           SYR-SS20SL4         20mL         750         1/4 SwageLok         \$575.00           SYR-SS20SL8         20mL         750         1/8 SwageLok         \$575.00           SYR-SS20SL16         20mL         750         Luer-Lok         \$575.00           SYR-SS20LL         20mL         750         Luer-Lok         \$575.00           SYR-SS50SL4         50mL         750         None, 3/8-24 Thread         \$595.00           SYR-SS50SL4         50mL         750         1/4 SwageLok         \$650.00           SYR-SS50SL16         50mL         750         Luer-Lok         \$650.00	SYR-SS5	5 mL	750	None, 1/4-28 Thread	\$400.00
SYR-SS5LL         5 mL         750         Luer-Lok         \$475.00           SYR-SS8         8mL         1500         None, 1/4-28 Thread         \$400.00           SYR-SS8SL8         8mL         1500         1/8 SwageLok         \$475.00           SYR-SS8SL16         8mL         1500         1/16 SwageLok         \$475.00           SYR-SS8LL         8mL         1500         Luer-Lok         \$475.00           SYR-SS20         20mL         750         None, 3/8-24 Thread         \$510.00           SYR-SS20SL4         20mL         750         1/4 SwageLok         \$575.00           SYR-SS20SL8         20mL         750         1/16 SwageLok         \$575.00           SYR-SS20SL16         20mL         750         1/16 SwageLok         \$575.00           SYR-SS20LL         20mL         750         Luer-Lok         \$575.00           SYR-SS50         50mL         750         None, 3/8-24 Thread         \$595.00           SYR-SS50SL4         50mL         750         1/4 SwageLok         \$650.00           SYR-SS50SL8         50mL         750         1/16 SwageLok         \$650.00           SYR-SS50LL         50mL         750         Luer-Lok         \$650.00 <tr< td=""><td>SYR-SS5SL8</td><td>5 mL</td><td>750</td><td>1/8 SwageLok</td><td>\$475.00</td></tr<>	SYR-SS5SL8	5 mL	750	1/8 SwageLok	\$475.00
SYR-SS8         8mL         1500         None, 1/4-28 Thread         \$400.00           SYR-SS8SL8         8mL         1500         1/8 SwageLok         \$475.00           SYR-SS8SL16         8mL         1500         1/16 SwageLok         \$475.00           SYR-SS8LL         8mL         1500         Luer-Lok         \$475.00           SYR-SS20         20mL         750         None, 3/8-24 Thread         \$510.00           SYR-SS20SL4         20mL         750         1/4 SwageLok         \$575.00           SYR-SS20SL8         20mL         750         1/8 SwageLok         \$575.00           SYR-SS20SL16         20mL         750         1/16 SwageLok         \$575.00           SYR-SS20LL         20mL         750         Luer-Lok         \$575.00           SYR-SS50         50mL         750         None, 3/8-24 Thread         \$595.00           SYR-SS50SL4         50mL         750         1/4 SwageLok         \$650.00           SYR-SS50SL8         50mL         750         1/8 SwageLok         \$650.00           SYR-SS50LL         50mL         750         Luer-Lok         \$650.00           SYR-SS100         100mL         750         None, 3/8-24 Thread         \$685.00 <td>SYR-SS5SL16</td> <td>5 mL</td> <td>750</td> <td>1/16 SwageLok</td> <td>\$475.00</td>	SYR-SS5SL16	5 mL	750	1/16 SwageLok	\$475.00
SYR-SS8SL8         8mL         1500         1/8 SwageLok         \$475.00           SYR-SS8SL16         8mL         1500         1/16 SwageLok         \$475.00           SYR-SS8LL         8mL         1500         Luer-Lok         \$475.00           SYR-SS20         20mL         750         None, 3/8-24 Thread         \$510.00           SYR-SS20SL4         20mL         750         1/4 SwageLok         \$575.00           SYR-SS20SL8         20mL         750         1/8 SwageLok         \$575.00           SYR-SS20SL16         20mL         750         1/16 SwageLok         \$575.00           SYR-SS20LL         20mL         750         Luer-Lok         \$575.00           SYR-SS20LL         20mL         750         None, 3/8-24 Thread         \$595.00           SYR-SS50SL4         50mL         750         1/4 SwageLok         \$650.00           SYR-SS50SL8         50mL         750         1/8 SwageLok         \$650.00           SYR-SS50SL16         50mL         750         Luer-Lok         \$650.00           SYR-SS100         100mL         750         None, 3/8-24 Thread         \$685.00           SYR-SS100SL4         100mL         750         None, 3/8-24 Thread         \$685.00 <td>SYR-SS5LL</td> <td>5 mL</td> <td>750</td> <td>Luer-Lok</td> <td>\$475.00</td>	SYR-SS5LL	5 mL	750	Luer-Lok	\$475.00
SYR-SS8SL16         8mL         1500         1/16 SwageLok         \$475.00           SYR-SS8LL         8mL         1500         Luer-Lok         \$475.00           SYR-SS20         20mL         750         None, 3/8-24 Thread         \$510.00           SYR-SS20SL4         20mL         750         1/4 SwageLok         \$575.00           SYR-SS20SL8         20mL         750         1/8 SwageLok         \$575.00           SYR-SS20SL16         20mL         750         1/16 SwageLok         \$575.00           SYR-SS20LL         20mL         750         Luer-Lok         \$575.00           SYR-SS50         50mL         750         None, 3/8-24 Thread         \$595.00           SYR-SS50SL4         50mL         750         1/4 SwageLok         \$650.00           SYR-SS50SL8         50mL         750         1/16 SwageLok         \$650.00           SYR-SS50SL16         50mL         750         1/16 SwageLok         \$650.00           SYR-SS50LL         50mL         750         Luer-Lok         \$650.00           SYR-SS100SL4         100mL         750         None, 3/8-24 Thread         \$685.00           SYR-SS100SL8         100mL         750         1/4 SwageLok         \$750.00	SYR-SS8	8mL	1500	None, 1/4-28 Thread	\$400.00
SYR-SS8LL         8mL         1500         Luer-Lok         \$475.00           SYR-SS20         20mL         750         None, 3/8-24 Thread         \$510.00           SYR-SS20SL4         20mL         750         1/4 SwageLok         \$575.00           SYR-SS20SL8         20mL         750         1/8 SwageLok         \$575.00           SYR-SS20SL16         20mL         750         1/16 SwageLok         \$575.00           SYR-SS20LL         20mL         750         Luer-Lok         \$575.00           SYR-SS20LL         20mL         750         None, 3/8-24 Thread         \$595.00           SYR-SS50SL4         50mL         750         1/4 SwageLok         \$650.00           SYR-SS50SL8         50mL         750         1/8 SwageLok         \$650.00           SYR-SS50SL16         50mL         750         1/16 SwageLok         \$650.00           SYR-SS50LL         50mL         750         Luer-Lok         \$650.00           SYR-SS100SL4         100mL         750         None, 3/8-24 Thread         \$685.00           SYR-SS100SL4         100mL         750         None, 3/8-24 Thread         \$685.00           SYR-SS100SL8         100mL         750         1/4 SwageLok         \$750.	SYR-SS8SL8	8mL	1500	1/8 SwageLok	\$475.00
SYR-SS20         20mL         750         None, 3/8-24 Thread         \$510.00           SYR-SS20SL4         20mL         750         1/4 SwageLok         \$575.00           SYR-SS20SL8         20mL         750         1/8 SwageLok         \$575.00           SYR-SS20SL16         20mL         750         1/16 SwageLok         \$575.00           SYR-SS20LL         20mL         750         Luer-Lok         \$575.00           SYR-SS20LL         20mL         750         None, 3/8-24 Thread         \$595.00           SYR-SS50SL4         50mL         750         1/4 SwageLok         \$650.00           SYR-SS50SL8         50mL         750         1/8 SwageLok         \$650.00           SYR-SS50SL16         50mL         750         1/16 SwageLok         \$650.00           SYR-SS50LL         50mL         750         Luer-Lok         \$650.00           SYR-SS100SL4         100mL         750         None, 3/8-24 Thread         \$685.00           SYR-SS100SL8         100mL         750         1/4 SwageLok         \$750.00           SYR-SS100SL16         100mL         750         1/8 SwageLok         \$750.00           SYR-SS100SL16         100mL         750         1/16 SwageLok         \$	SYR-SS8SL16	8mL	1500	1/16 SwageLok	\$475.00
SYR-SS20SL4         20mL         750         1/4 SwageLok         \$575.00           SYR-SS20SL8         20mL         750         1/8 SwageLok         \$575.00           SYR-SS20SL16         20mL         750         1/16 SwageLok         \$575.00           SYR-SS20LL         20mL         750         Luer-Lok         \$575.00           SYR-SS50         50mL         750         None, 3/8-24 Thread         \$595.00           SYR-SS50SL4         50mL         750         1/4 SwageLok         \$650.00           SYR-SS50SL8         50mL         750         1/8 SwageLok         \$650.00           SYR-SS50SL16         50mL         750         1/16 SwageLok         \$650.00           SYR-SS50LL         50mL         750         Luer-Lok         \$650.00           SYR-SS100         100mL         750         None, 3/8-24 Thread         \$685.00           SYR-SS100SL4         100mL         750         1/4 SwageLok         \$750.00           SYR-SS100SL8         100mL         750         1/8 SwageLok         \$750.00           SYR-SS100SL16         100mL         750         1/16 SwageLok         \$750.00	SYR-SS8LL	8mL	1500	Luer-Lok	\$475.00
SYR-SS20SL8         20mL         750         1/8 SwageLok         \$575.00           SYR-SS20SL16         20mL         750         1/16 SwageLok         \$575.00           SYR-SS20LL         20mL         750         Luer-Lok         \$575.00           SYR-SS50         50mL         750         None, 3/8-24 Thread         \$595.00           SYR-SS50SL4         50mL         750         1/4 SwageLok         \$650.00           SYR-SS50SL8         50mL         750         1/8 SwageLok         \$650.00           SYR-SS50SL16         50mL         750         1/16 SwageLok         \$650.00           SYR-SS50LL         50mL         750         Luer-Lok         \$650.00           SYR-SS100         100mL         750         None, 3/8-24 Thread         \$685.00           SYR-SS100SL4         100mL         750         1/4 SwageLok         \$750.00           SYR-SS100SL8         100mL         750         1/8 SwageLok         \$750.00           SYR-SS100SL16         100mL         750         1/16 SwageLok         \$750.00	SYR-SS20	20mL	750	None, 3/8-24 Thread	\$510.00
SYR-SS20SL16         20mL         750         1/16 SwageLok         \$575.00           SYR-SS20LL         20mL         750         Luer-Lok         \$575.00           SYR-SS50         50mL         750         None, 3/8-24 Thread         \$595.00           SYR-SS50SL4         50mL         750         1/4 SwageLok         \$650.00           SYR-SS50SL8         50mL         750         1/8 SwageLok         \$650.00           SYR-SS50SL16         50mL         750         1/16 SwageLok         \$650.00           SYR-SS50LL         50mL         750         Luer-Lok         \$650.00           SYR-SS100         100mL         750         None, 3/8-24 Thread         \$685.00           SYR-SS100SL4         100mL         750         1/4 SwageLok         \$750.00           SYR-SS100SL8         100mL         750         1/8 SwageLok         \$750.00           SYR-SS100SL16         100mL         750         1/16 SwageLok         \$750.00	SYR-SS20SL4	20mL	750	1/4 SwageLok	\$575.00
SYR-SS20LL         20mL         750         Luer-Lok         \$575.00           SYR-SS50         50mL         750         None, 3/8-24 Thread         \$595.00           SYR-SS50SL4         50mL         750         1/4 SwageLok         \$650.00           SYR-SS50SL8         50mL         750         1/8 SwageLok         \$650.00           SYR-SS50SL16         50mL         750         1/16 SwageLok         \$650.00           SYR-SS50LL         50mL         750         Luer-Lok         \$650.00           SYR-SS100         100mL         750         None, 3/8-24 Thread         \$685.00           SYR-SS100SL4         100mL         750         1/4 SwageLok         \$750.00           SYR-SS100SL8         100mL         750         1/8 SwageLok         \$750.00           SYR-SS100SL16         100mL         750         1/16 SwageLok         \$750.00	SYR-SS20SL8	20mL	750	1/8 SwageLok	\$575.00
SYR-SS50         50mL         750         None, 3/8-24 Thread         \$595.00           SYR-SS50SL4         50mL         750         1/4 SwageLok         \$650.00           SYR-SS50SL8         50mL         750         1/8 SwageLok         \$650.00           SYR-SS50SL16         50mL         750         1/16 SwageLok         \$650.00           SYR-SS50LL         50mL         750         Luer-Lok         \$650.00           SYR-SS100         100mL         750         None, 3/8-24 Thread         \$685.00           SYR-SS100SL4         100mL         750         1/4 SwageLok         \$750.00           SYR-SS100SL8         100mL         750         1/8 SwageLok         \$750.00           SYR-SS100SL16         100mL         750         1/16 SwageLok         \$750.00	SYR-SS20SL16	20mL	750	1/16 SwageLok	\$575.00
SYR-SS50SL4         50mL         750         1/4 SwageLok         \$650.00           SYR-SS50SL8         50mL         750         1/8 SwageLok         \$650.00           SYR-SS50SL16         50mL         750         1/16 SwageLok         \$650.00           SYR-SS50LL         50mL         750         Luer-Lok         \$650.00           SYR-SS100         100mL         750         None, 3/8-24 Thread         \$685.00           SYR-SS100SL4         100mL         750         1/4 SwageLok         \$750.00           SYR-SS100SL8         100mL         750         1/8 SwageLok         \$750.00           SYR-SS100SL16         100mL         750         1/16 SwageLok         \$750.00	SYR-SS20LL	20mL	750	Luer-Lok	\$575.00
SYR-SS50SL8         50mL         750         1/8 SwageLok         \$650.00           SYR-SS50SL16         50mL         750         1/16 SwageLok         \$650.00           SYR-SS50LL         50mL         750         Luer-Lok         \$650.00           SYR-SS100         100mL         750         None, 3/8-24 Thread         \$685.00           SYR-SS100SL4         100mL         750         1/4 SwageLok         \$750.00           SYR-SS100SL8         100mL         750         1/8 SwageLok         \$750.00           SYR-SS100SL16         100mL         750         1/16 SwageLok         \$750.00	SYR-SS50	50mL	750	None, 3/8-24 Thread	\$595.00
SYR-SS50SL16         50mL         750         1/16 SwageLok         \$650.00           SYR-SS50LL         50mL         750         Luer-Lok         \$650.00           SYR-SS100         100mL         750         None, 3/8-24 Thread         \$685.00           SYR-SS100SL4         100mL         750         1/4 SwageLok         \$750.00           SYR-SS100SL8         100mL         750         1/8 SwageLok         \$750.00           SYR-SS100SL16         100mL         750         1/16 SwageLok         \$750.00	SYR-SS50SL4	50mL	750	1/4 SwageLok	\$650.00
SYR-SS50LL         50mL         750         Luer-Lok         \$650.00           SYR-SS100         100mL         750         None, 3/8-24 Thread         \$685.00           SYR-SS100SL4         100mL         750         1/4 SwageLok         \$750.00           SYR-SS100SL8         100mL         750         1/8 SwageLok         \$750.00           SYR-SS100SL16         100mL         750         1/16 SwageLok         \$750.00	SYR-SS50SL8	50mL	750	1/8 SwageLok	\$650.00
SYR-SS100         100mL         750         None, 3/8-24 Thread         \$685.00           SYR-SS100SL4         100mL         750         1/4 SwageLok         \$750.00           SYR-SS100SL8         100mL         750         1/8 SwageLok         \$750.00           SYR-SS100SL16         100mL         750         1/16 SwageLok         \$750.00	SYR-SS50SL16	50mL	750	1/16 SwageLok	\$650.00
SYR-SS100SL4       100mL       750       1/4 SwageLok       \$750.00         SYR-SS100SL8       100mL       750       1/8 SwageLok       \$750.00         SYR-SS100SL16       100mL       750       1/16 SwageLok       \$750.00	SYR-SS50LL	50mL	750	Luer-Lok	\$650.00
SYR-SS100SL8         100mL         750         1/8 SwageLok         \$750.00           SYR-SS100SL16         100mL         750         1/16 SwageLok         \$750.00	SYR-SS100	100mL	750	None, 3/8-24 Thread	\$685.00
SYR-SS100SL16	SYR-SS100SL4	100mL	750	1/4 SwageLok	\$750.00
	SYR-SS100SL8	100mL	750	1/8 SwageLok	\$750.00
SYR-SS100LL         100mL         750         Luer-Lok         \$750.00	SYR-SS100SL16	100mL	750	1/16 SwageLok	\$750.00
	SYR-SS100LL	100mL	750	Luer-Lok	\$750.00

Part #	Size	PSI	Included Fitting	Price each
SYR-SS200	200mL	750	None, 3/8-24 Thread	\$750.00
SYR-SS200SL4	200mL	750	1/4 SwageLok	\$825.00
SYR-SS200SL8	200mL	750	1/8 SwageLok	\$825.00
SYR-SS200SL16	200mL	750	1/16 SwageLok	\$825.00
SYR-SS200LL	200mL	750	Luer-Lok	\$825.00

#### Stainless Steel Syringe O-Rings

Stainless steel syringes come standard with a Viton O-Ring. Chemraz® O-Rings are ordered separately and are for applications requiring higher chemical resistance.



Part #	Description	Price each
SYRP-SSORV5	Viton, 5mL Replacement O'Rings	\$25.00
SYRP-SSORK5	Chemraz® 5mL O'Rings	\$250.00
SYRP-SSORV8	Viton 1, 3 & 8mL Replacement O'Rings	\$25.00
SYRP-SSORK8	Chemraz® 1, 3 & 8mL O'Rings	\$250.00
SYRP-SSORV20	Viton, 20mL Replacement O'Rings	\$25.00
SYRP-SSORK20	Chemraz® 20mL O'Rings	\$270.00
SYRP-SSORV50	Viton 50mL Replacement O'Rings	\$25.00
SYRP-SSORK50	Chemraz® 50mL O'Rings	\$420.00
SYRP-SSORV100	Viton 100mL Replacement O'Rings	\$25.00
SYRP-SSORK100	Chemraz® 100mL O'Rings	\$420.00
SYRP-SSORV200	Viton 200mL Replacement O'Rings	\$25.00
SYRP-SSORK200	Chemraz® 200mL O'Rings	\$460.00

#### **Stainless Steel Syringe Fittings**



You can buy stainless steel syringes with or without fittings. They are also available to be purchased separately if needed. All fittings are pressure rated for all syringes they connect to.

### **Need to heat your syringe?**

The Syringe Heater Kit, you can find in the accessory section will heat all sizes of syringes up to 220°C.







Importers & Manufacurers www.chromtech.net.au



New Era Pump Systems, Inc.

