

# Pump Head & OEM



# Shenchen Pump



Exported to 103countries

Intelligent, just for easier.

Baoding Shenchen Precision Pump Co.,Ltd

Baoding Peristaltic Pump Engineering Technology Research Center

# EXPORTED TO 103 cou



2016-2021

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

Successfully launched a new generation of easy load type pump heads and a new generation of multichannel pump heads, Exported to 103 countries.



2010-2015

Successfully registered the
"Shenchen" trademark,
Obtained CE certification issued by
European Union,
Launched intelligent filling system
CF600 and DF600,
Launched LabV and LabF series
intelligent peristaltic pump.



2007-2009

申辰<sup>®</sup> YZ1515x

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

N series standard type peristaltic pump.



# 蠕动泵工程技术研究中心

保定 市科学技术局保定 市 財 政 局保定市发展和改革委员会 二〇一四年十二月







# NTRIES SHENICHEN



Since 2006 2006

Shenchen is the first to use PPS polyphenylene sulfide materials to produce easy load type pump heads in China.

It solves the technical problem that the original PSU polyyan material pump head is not resistant to chemical corrosion. Successfully launched the basic peristaltic pump, flow rate peristaltic pump, and dispensing peristaltic pump.

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

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

Shenchen products are widely used in research laboratory, bio-pharmaceuticals, food & beverage, fine chemical, environment, etc. Our pumps have been exported to Germany, UK, USA, Australia, Russia, in total 103 countries.

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

Baoding Peristaltic Pump Engineering Technology Research Center













# APPLICATION







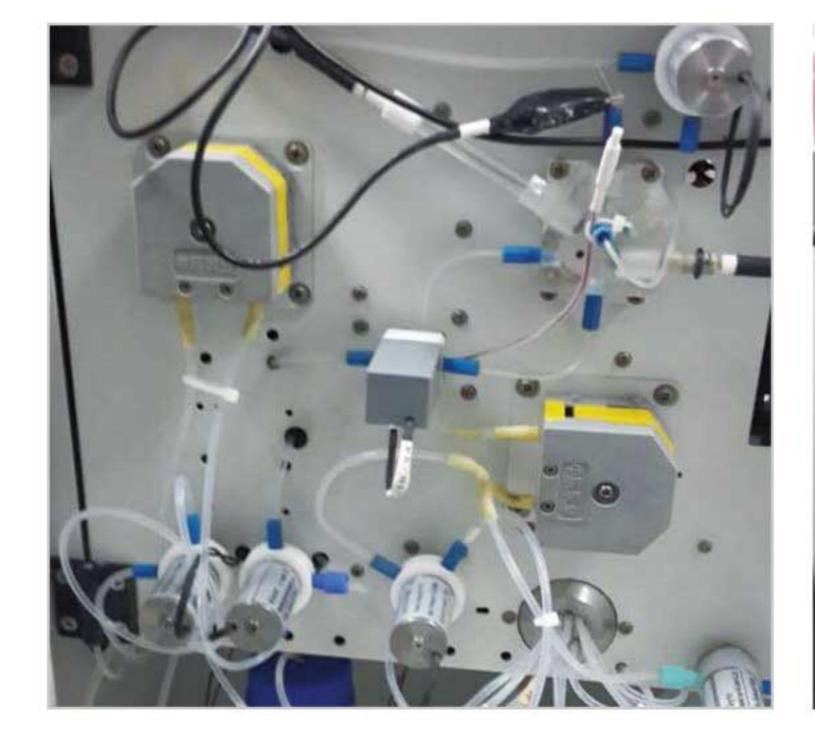
Online water quality analyzer



Ocean detection analyzer



Cosmetic filling



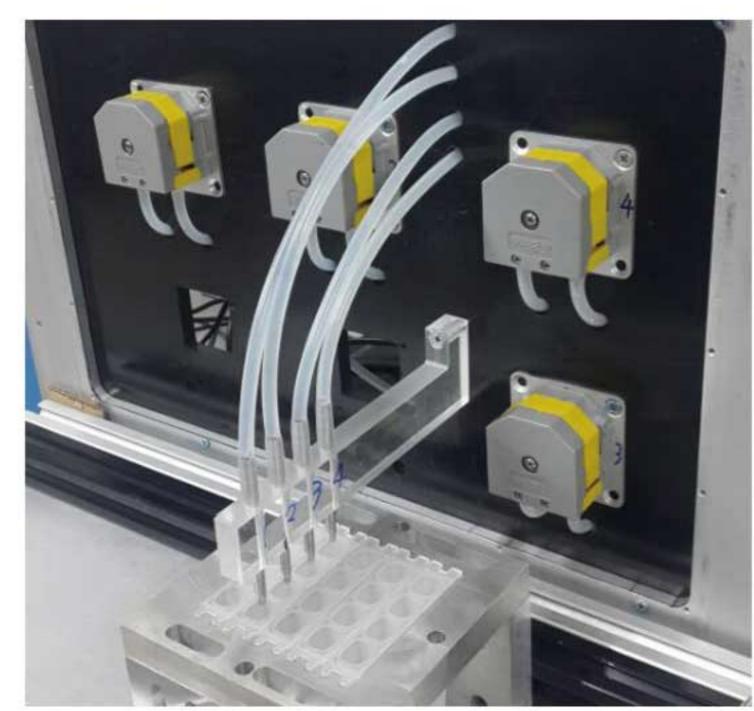
Analysis instrument supporting



Biochemical analysis equipment



Analysis instrument supporting



Reagents dispensing

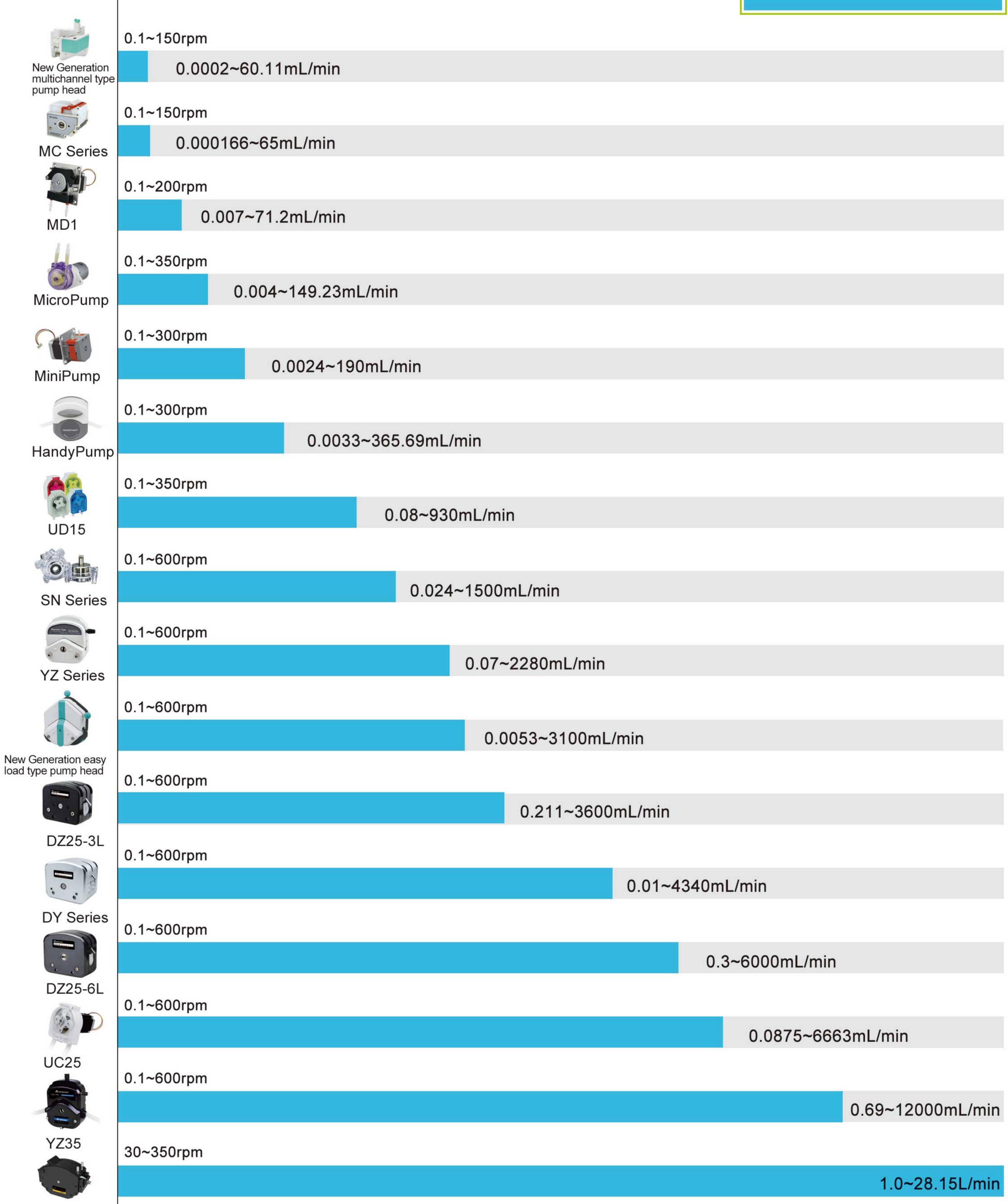




# SHENCHEN

**DZ45** 









easy load type pump head

tube and clamp linkage -more easy to install the tube



Accept reservation

# Features:

tube.

• The tube clamp linkage mechanism makes it more convenient to install

#91 paldut no

<Single channel>

- the tube.

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





# -DIRECTORY

- 1 COMPANY 2 APPLICATION
- 3 NEW PRODUCT
- 4 PRODUCTS







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# Compact Pump Head

# MicroPump



# Model No

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

# **Product Features**

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

# Industry Application

- Biochemical analyzer, support medical equipment
- | Plant protection drone

Pump Head Installation Procedure

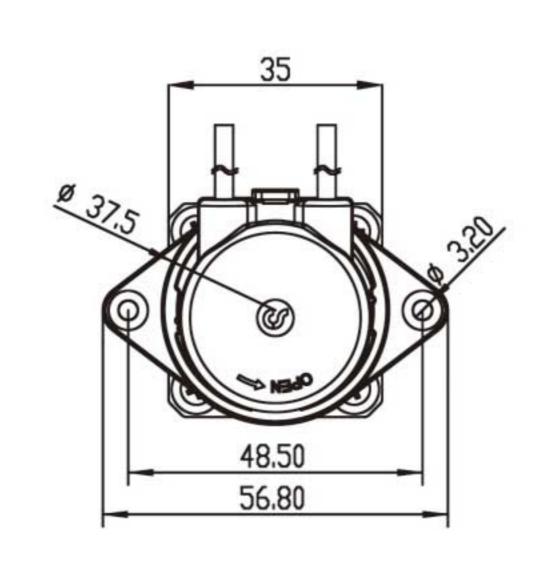


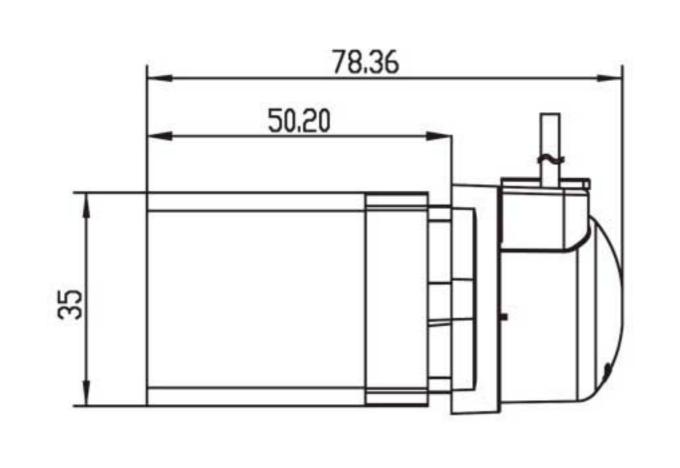






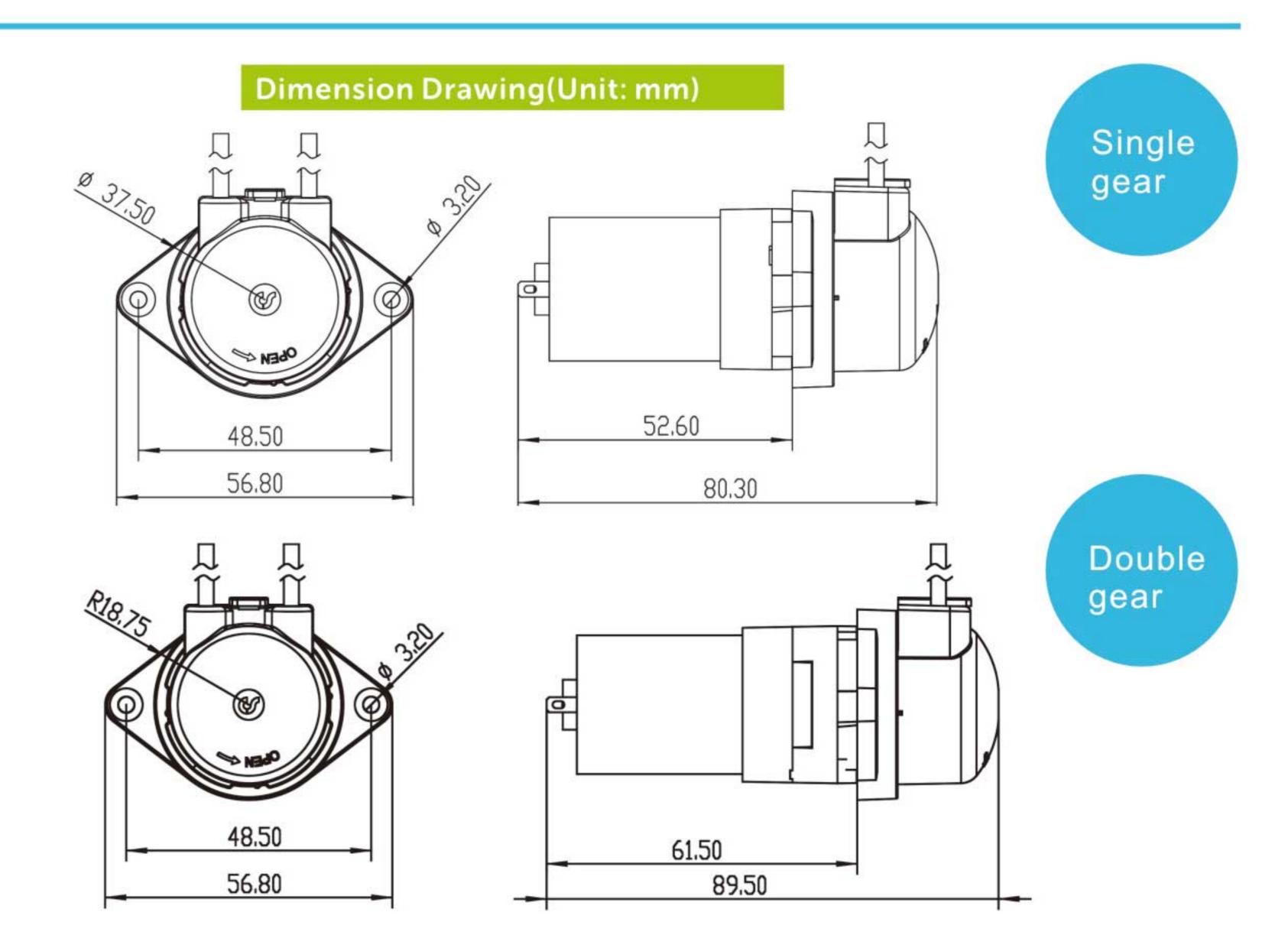
### Dimension Drawing(Unit: mm)



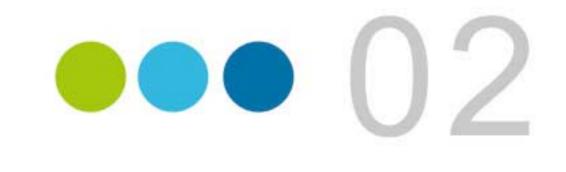




DC motor







# Compact Pump Head

# Stepper motor breakdown drawing

# OEM-HA OEM-STB В 06 В 06 P Level of Pump Pump tubing deceleration material size Pump Pump tubing material size Roller bracket color Motor Level of Roller bracket color Motor Pump Pump head color head color

# **Color Selection**



Pump head housing and roller bracket color							
Pump	Transparency	Green	Red	Yellow	Purple		
head color	Т	G	R	Υ	Р		
Roller	White	Green	Red	Yellow	Blue		
color	W	G	R	Υ	В		

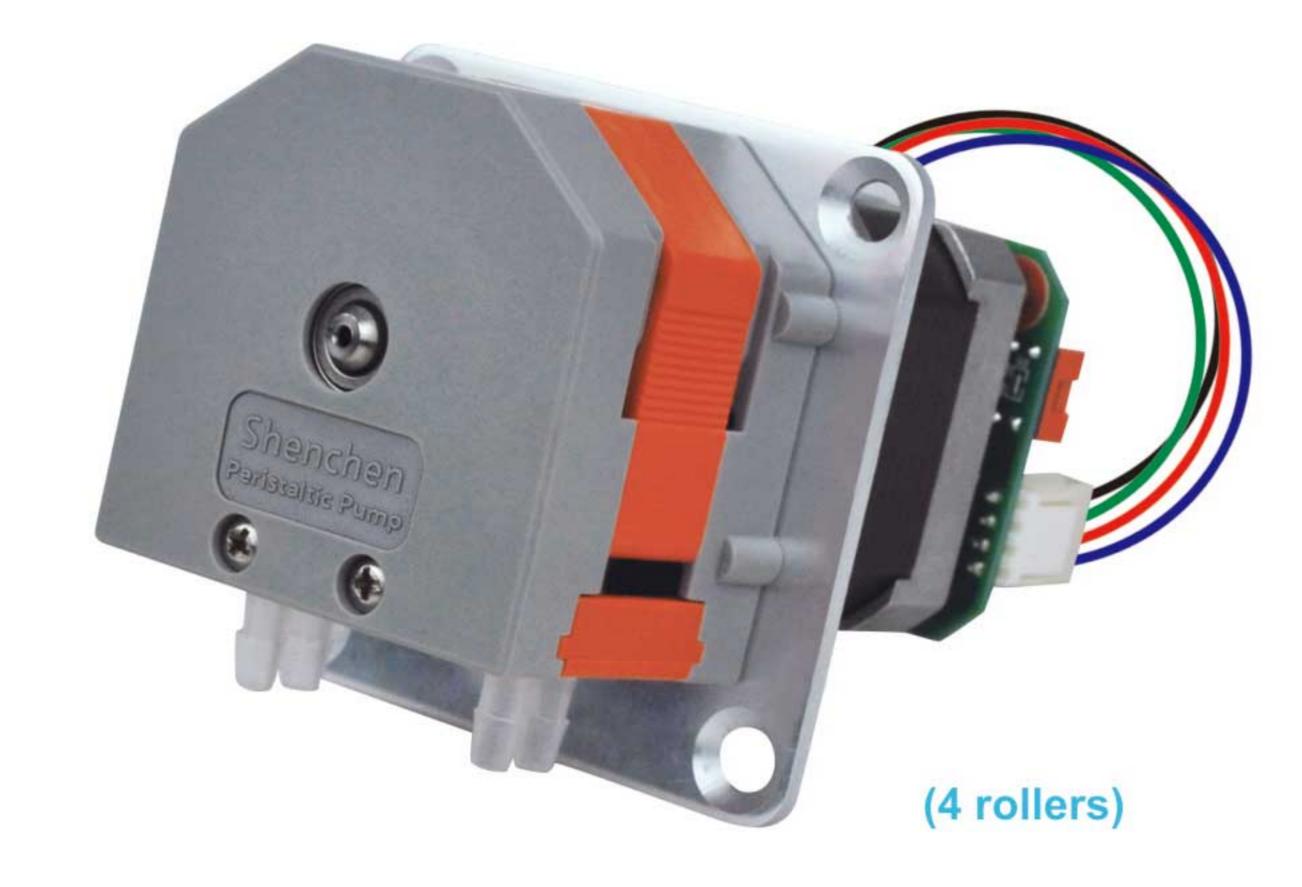
DC motor breakdown drawing

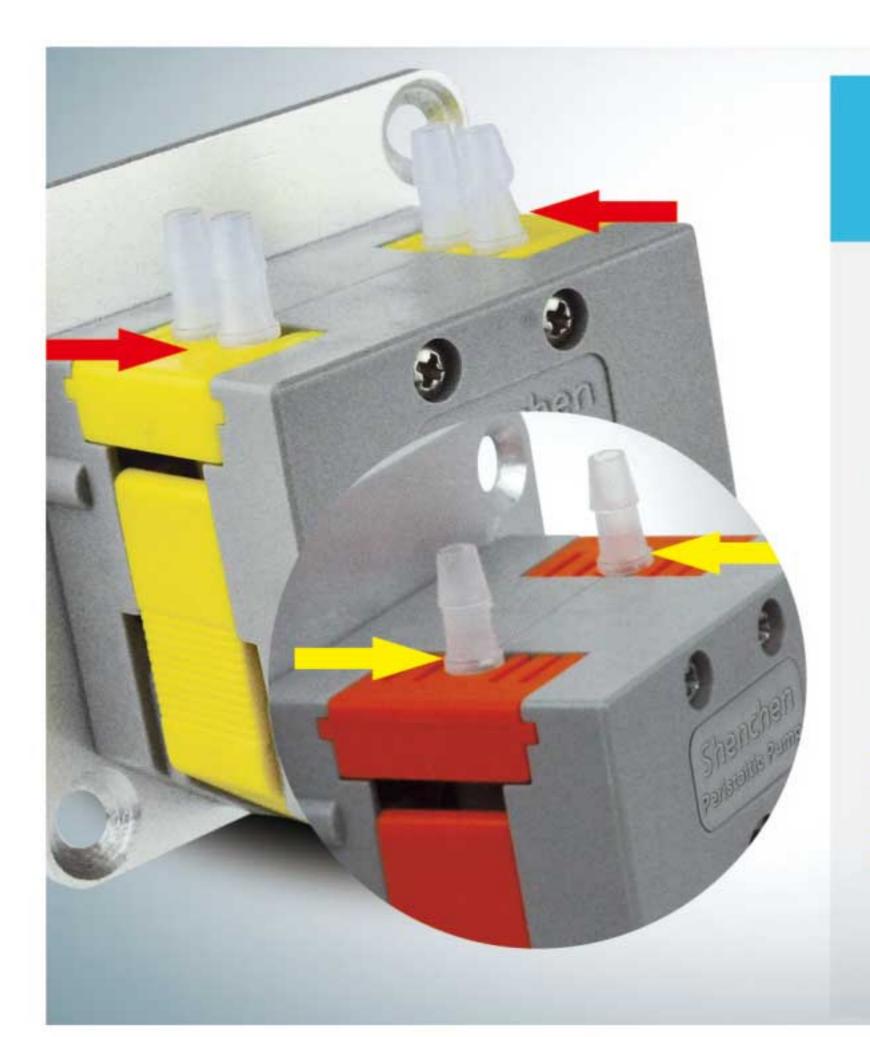
Flow model selection										
	Tubing No.		S04	S06	S10	S22	B04	B06	B10	B22
Tubing ID. ( wall thickness 1mm)			1mm	2mm	3mm	4mm	1mm	2mm	3mm	4mm
Tubing material		Silicone tubing	Silicone tubing	Silicone tubing	Silicone tubing	BPT	BPT	BPT	BPT	
	24V Brush/Brushless	Single gear	14.88	50.05	110.27	149.23	14.88	50.05	110.27	149.23
	HA/HD	Double gear	1.28	4.29	9.45	12.79	1.28	4.29	9.45	12.79
Flow rate	12V Brush/Brushless HB/HE	Single gear	14.88	50.05	110.27	149.23	14.88	50.05	110.27	149.23
(mL/min)		Double gear	1.28	4.29	9.45	12.79	1.28	4.29	9.45	12.79
	6V Brush/Brushless HC/HF	Single gear	14.88	50.05	110.27	149.23	14.88	50.05	110.27	149.23
		Double gear	1.28	4.29	9.45	12.79	1.28	4.29	9.45	12.79
	35Stepper motor(35	0rpm)STB	14.88	50.05	110.27	149.23	14.88	50.05	110.27	149.23



# Compact Pump Head

# MiniPump Series





# Connection type installation hose

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

### **Features**

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

# Tubing Installation Procedure

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

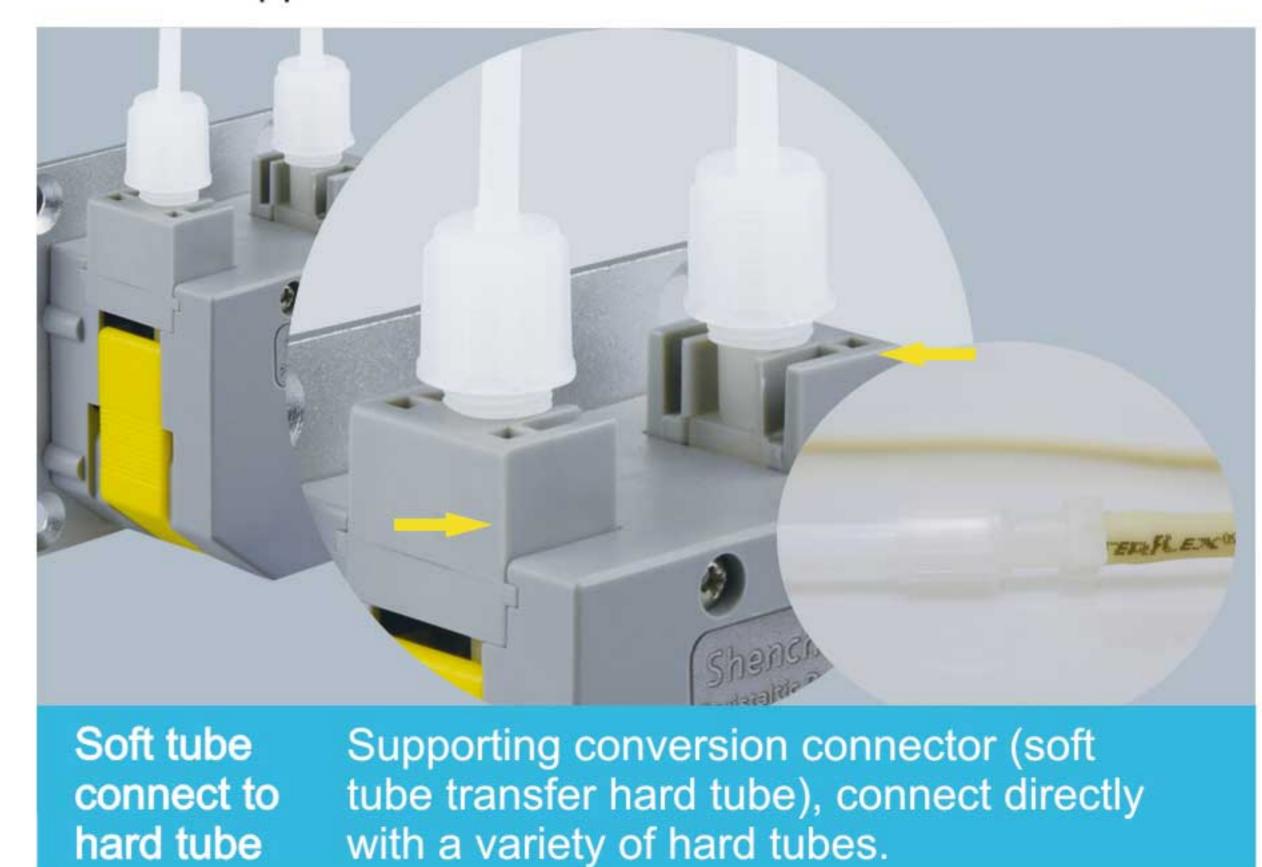


B. Ensure that the tubing is in the middle of rollers, and push the clamps into the pump head.



### **Product Introduction**

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





# Install hose without connector

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

# **Typical Application**

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

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



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



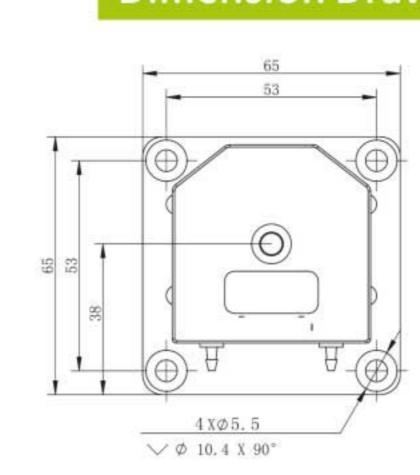


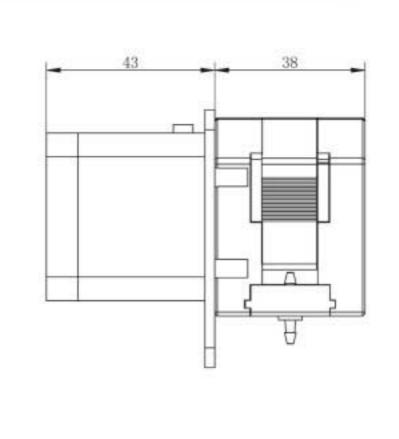


# OEM-B01



# Dimension Drawing(Unit: mm)



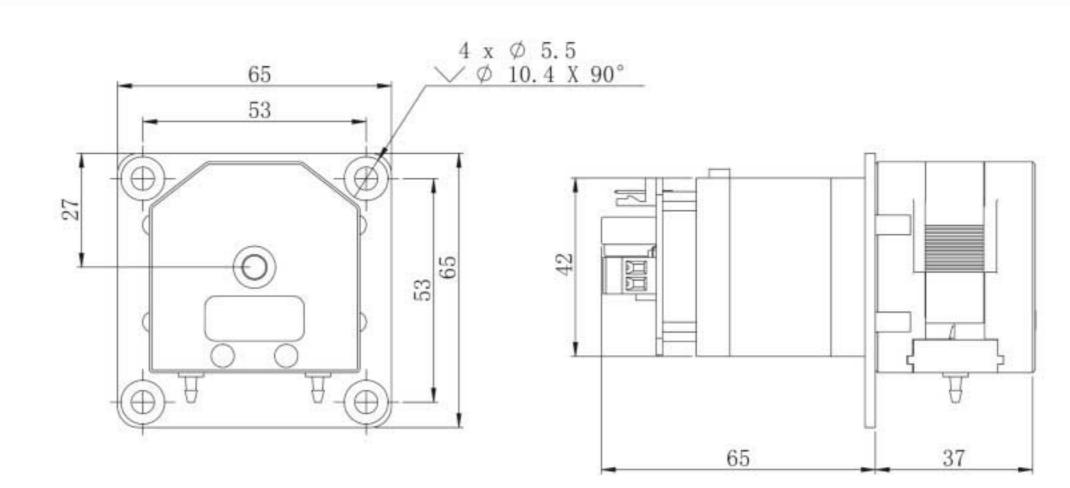


OEM-B01 Technical Specifications				
Speed range	0.1-300 rpm			
Flow rate range	190mL/min			
Motor type	42 stepper motor			
Motor phase number	2			
Motor step angle	1.8°			
Motor phase voltage	2.2V			
Motor phase current	1.0A			
Working environment	0-40°C, 80%RH			

# OEM-B02, OEM-B039/OEM-B040, OEM-B022



Dimension Drawing(Unit: mm)

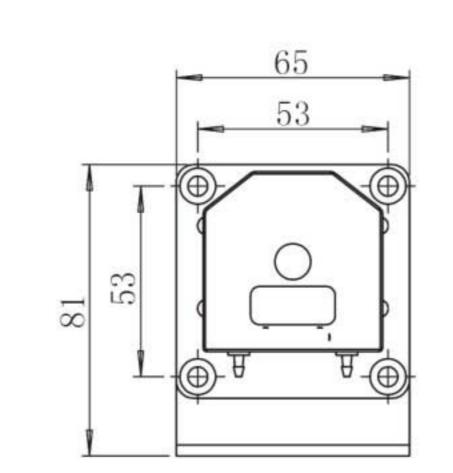


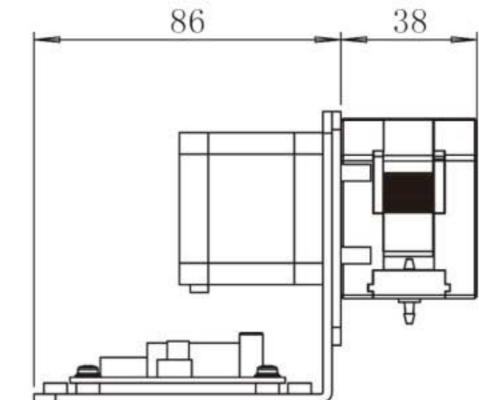
OEM-B02 Technical Specifications		OEM-B039/	B040 Technical Specifications	OEM-B022 Technical Specifications		
Speed range	0.1-300 rpm	Speed range	0.1–300 rpm	Speed range	0.1-300 rpm	
Flow rate range	0.0024-190mL/min	Flow rate range	0.0024-190mL/min	Flow rate range	0.0024-190mL/min	
Speed control	Preset speed or serial port control	Speed control	External input pulse frequency speed control	Speed control	Adjust speed by internal potentiometer	
Subdivision settings	1/16	Subdivision settings	1/16(recommend), 1, 1/2, 1/4, 1/8, 1/32, 1/64, 1/128	Subdivision settings	1/16	
Motor type	42 stepper motor	Motor type	42 stepper motor	Motor type	42 stepper motor	
Power supply	DC 24V, ≥48W	Power supply	DC 24V, ≥48W	Power supply	DC 24V, ≥48W	
Working environment	0-40°C, 80%RH	Working environment	0-40°C, 80%RH	Working environment	0-40℃, 80%RH	

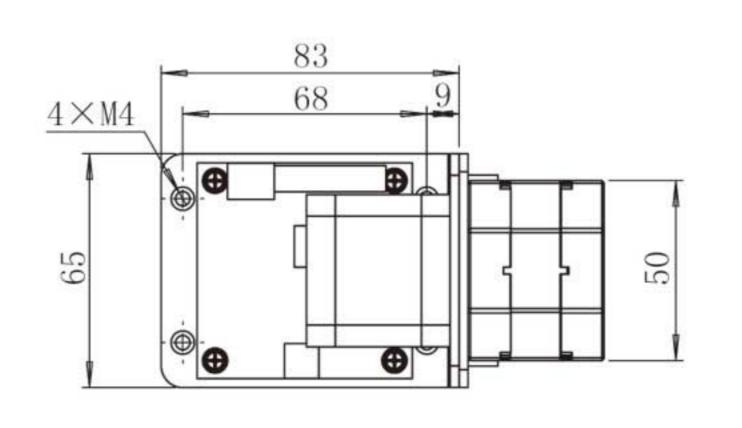
# **OEM-B013**



### Dimension Drawing(Unit: mm)



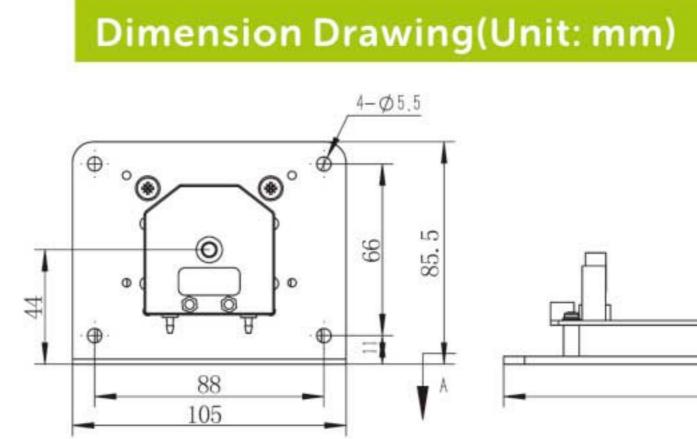


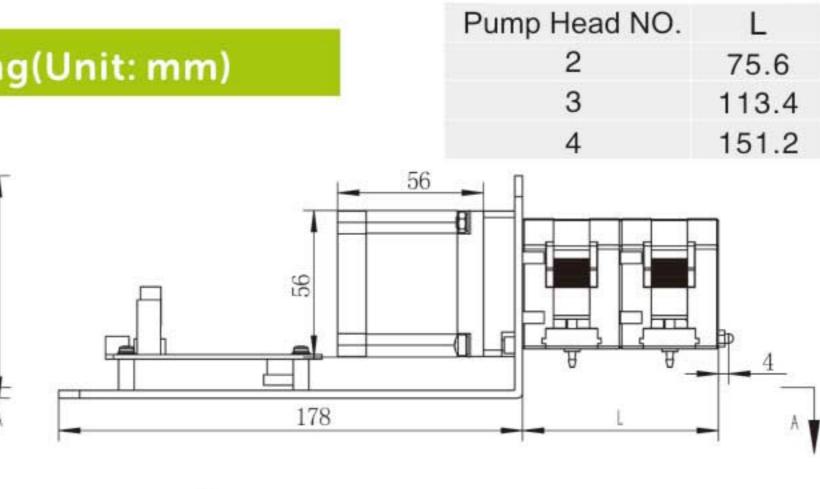


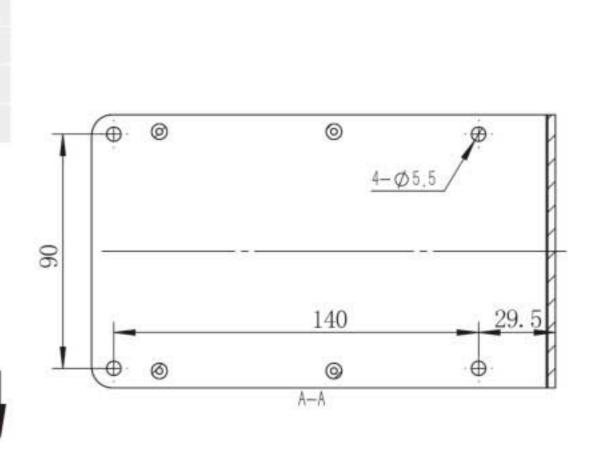
OEM-B013 Technical Specifications						
Speed range	0.1-300rpm	Address setting	1-32			
Flow rate range	0.0024-190mL/min	Motor type	42 stepper motor			
Speed control	Communication control	Power supply	DC 24V, ≥48W			
Communication interface	RS232,RS485 interface modbus protocol, control start/stop, direction and speed	Working environment	0-40℃, 80%RH			

# OEM-B136, OEM-B137







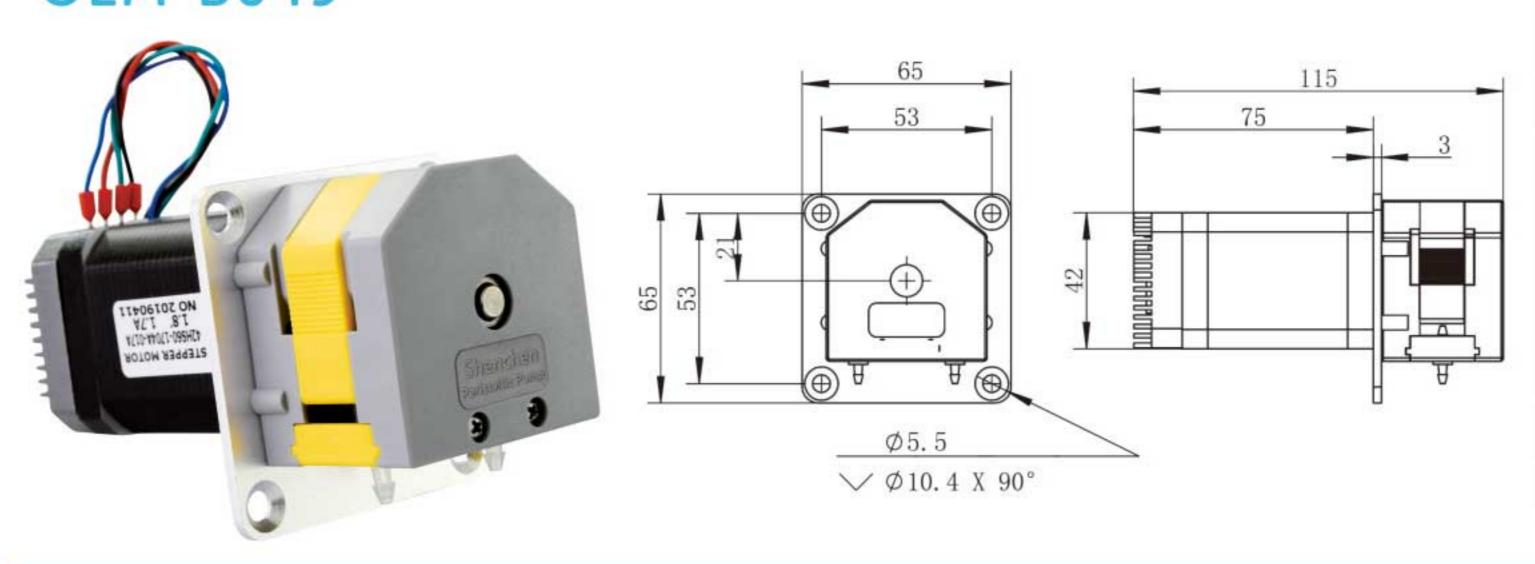


OEM-	B136 Technical Specifications	OEM-B137 Technical Specifications		
Speed range	0.1-300 rpm	Speed range	0.1-300 rpm	
Flow rate range	0.0024-190mL/min	Flow rate range	0.0024-190mL/min	
Speed control	Preset speed and manual control	Speed control	Pulse frequency speed control	
Control mode	External passive signal level (normally closed or open) mode; control the start/stop of direction	Logic input voltage	5V, 12V, 24V(default 5V)	
Control mode		Multiple segments	1/16(recommend),	
Display(optional)	0.96" OLED screen		1, 1/2, 1/4, 1/8, 1/32, 1/64, 1/128	
Motor type	Motor type 57 stepper motor		57 stepper motor	
Power supply	ver supply DC 24V, ≥150W		DC 24V, ≥150W	
Working environment	0-40°C, 80%RH	Working environment	0-40°C, 80%RH	







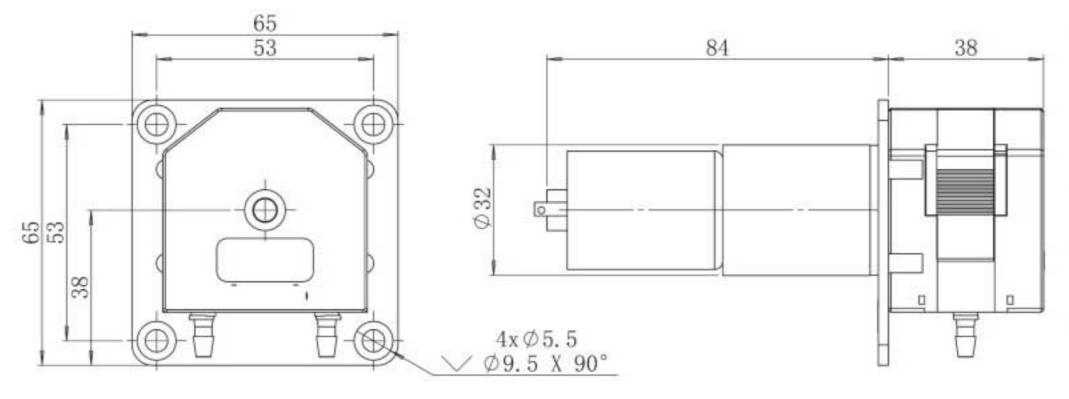


Model No.	OEM-B047/OEM-B048/OEM-B049
Speed range	0.1-300 rpm
Flow rate range	0.0024-190mL/min
Outer control	Passive switch signal control start/stop and direction
	OEM-B047:External potentiometer speed control 0-5V
Speed control	OEM-B045: External potentiometer speed control 0-10V
	OEM-B046: External potentiometer speed control 4-20mA
Motor type	42 stepper motor
Power supply	DC 24V, ≥48W
Working environment	0-40°C, 80%RH

# **OEM-MZ Series**

## Dimension Drawing(Unit: mm)



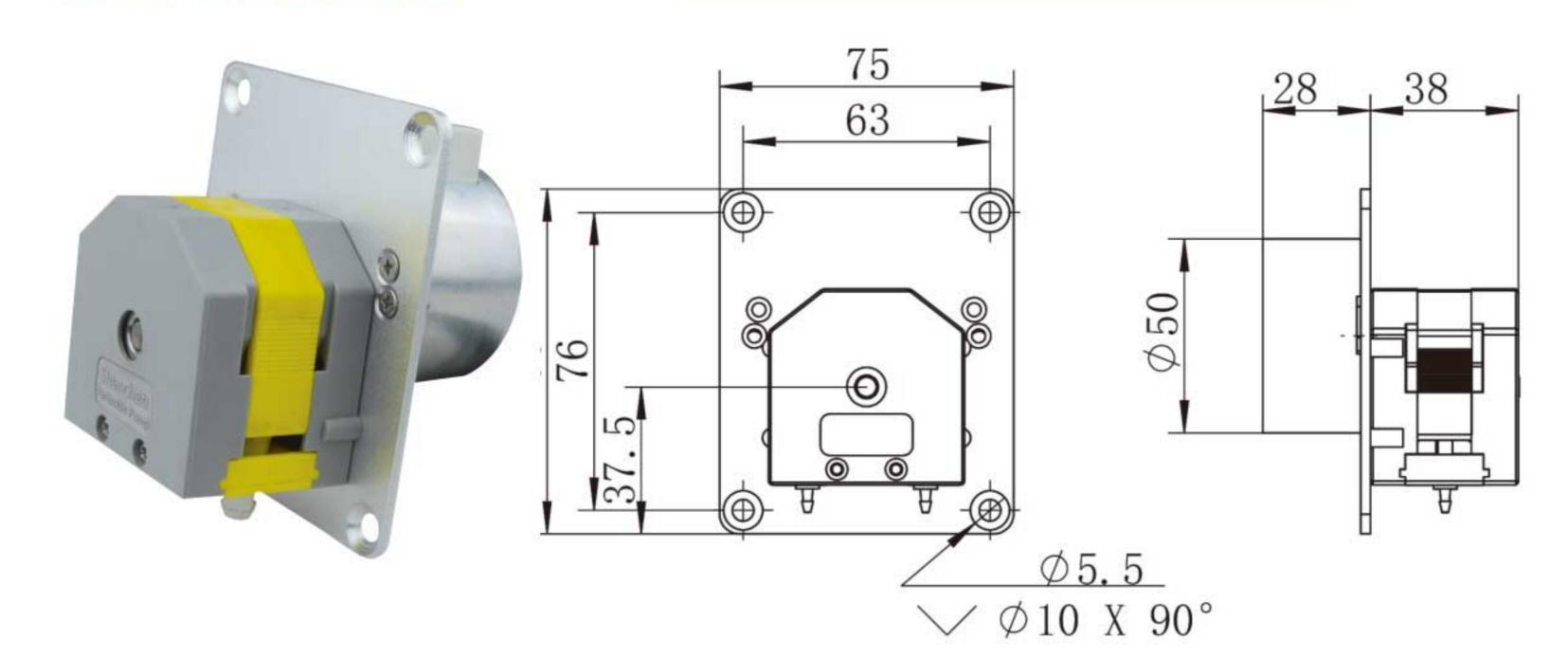


Note: OEM-MZ306 outline dimension drawing

Model No.	Motor Type	Power Supply	Motor Speed (rpm±10%)	Flow Rate (mL/min)
OEM-MZ001		D040)//4 FA	170	≤107.67
OEM-MZ004		DC12V/1.5A	300	≤190.00
OEM-MZ104	Ф37 DC		20	≤12.67
OEM-MZ107	motor	DC24V/1.2A	100	≤61.98
OEM-MZ108			160	≤101.33
OEM-MZ111			300	≤190.00
OEM-MZ304	Ф32 DC planetary gear motor	DC24V/1.2A	50	≤31.14
OEM-MZ306			100	≤61.98

# **OEM-MJ Series**

## Dimension Drawing(Unit: mm)



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

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

	Dual Channel Flow Rate (mL/min) and Tubing (1 mm wall thickness)						
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			
Single Channel Flow Rate (mL/min) and Tubing (1.6 mm wall thickness)							

	Singl	e Channel Flow Rate	e (mL/min) and Tubir	ng (1.6 mm wall thicki	ness)
Motor Speed(rpm)	13# ID 0.8mm	14# ID 1.6mm	19# ID 2.4mm	16# ID 3.1mm	25# ID 4.8mm
5	0.12	0.56	1.26	1.97	3.26
10	0.26	1.15	2.53	3.90	6.41
15	0.39	1.74	3.80	5.80	9.52
25	0.66	2.88	6.31	9.59	15.74
40	1.08	4.59	10.11	15.29	25.15
50	1.34	5.69	12.62	18.96	31.14
75	2.00	8.54	18.93	28.36	46.55
100	2.73	11.37	25.27	37.66	61.98
200	5.46	22.76	50.82	76.02	124.14
250	6.81	28.40	65.39	95.08	153.63
300	8.28	33.88	77.23	114.31	190.00

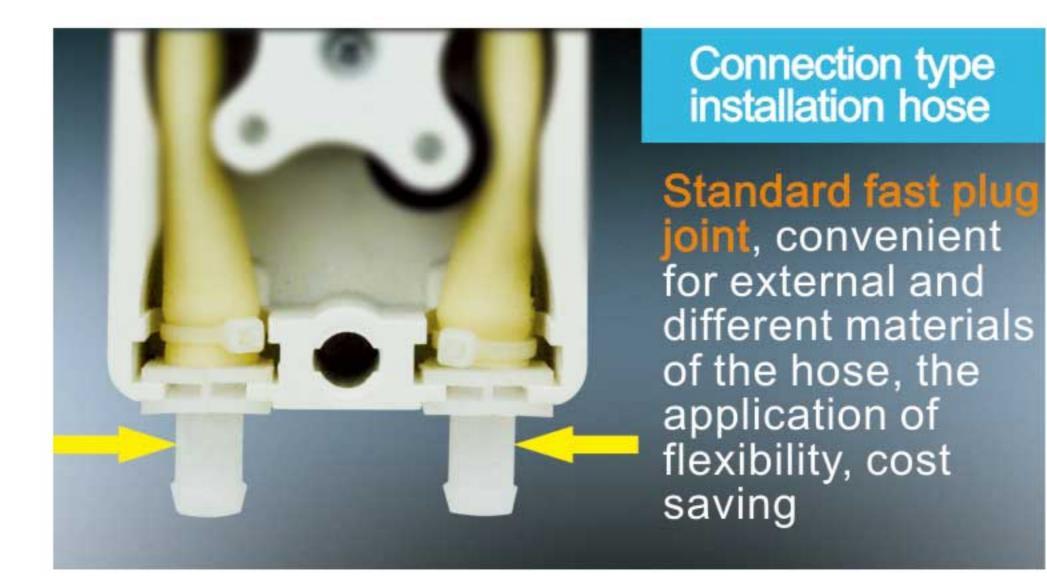




# Compact Pump Head





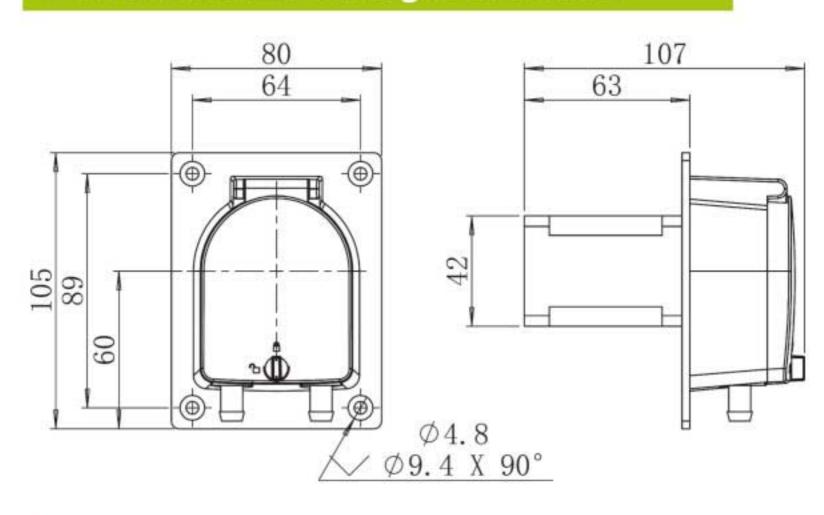


### **Product Introduction**

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

Model No.	OEM-UB01
Speed range	0.1-300 rpm
Flow rate range	0.08-930mL/min
Motor type	42 stepper motor
Motor phase number	2
Motor step angle	1.8∘
Motor phase voltage	2.2V
Motor phase current	1.0A
Working environment	0-40°C, 80%RH

### **Dimension Drawing(Unit: mm)**

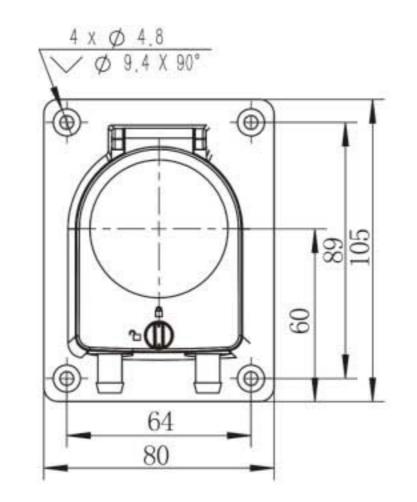


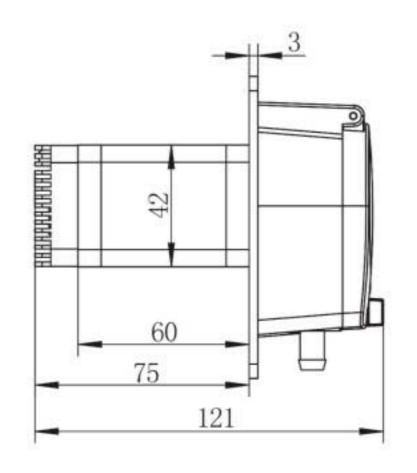


# OEM-UB02, OEM-UB09/UB10, OEM-UB016



**Dimension Drawing(Unit: mm)** 

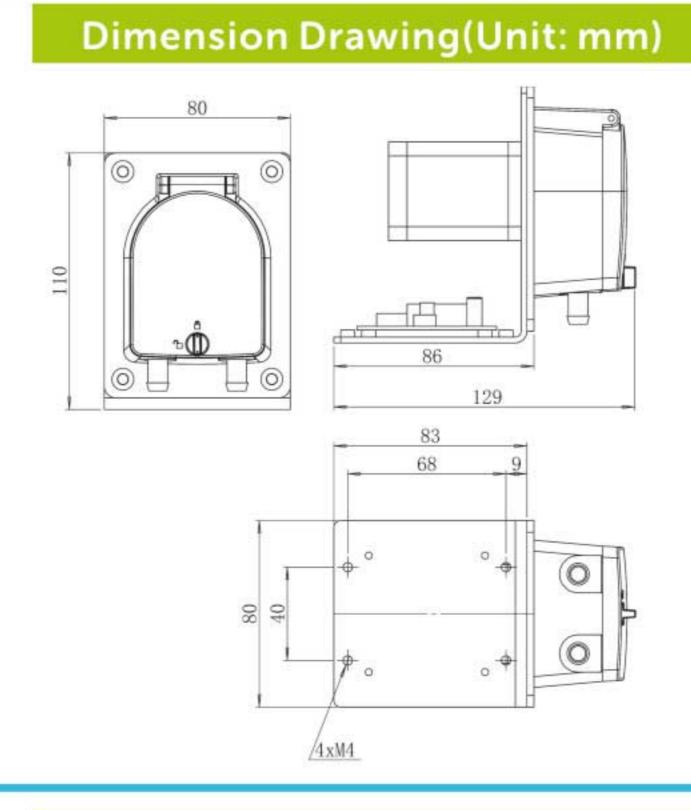




OEM-UB02 Technical Specifications		OEM-UB09/	UB10Technical Specifications	OEM-UB016 Technical Specifications		
Speed range	0.1-300 rpm	Speed range	0.1-300 rpm	Speed range	0.1-300 rpm	
Flow rate range	0.0024-190mL/min	Flow rate range	0.0024-190mL/min	Flow rate range	0.0024-190mL/min	
Speed control	Preset speed or serial port control	Speed control	External input pulse frequency speed control	Speed control	Adjust speed by internal potentiometer	
Subdivision settings	1/16	Subdivision settings	1/16(recommend), 1, 1/2, 1/4, 1/8, 1/32, 1/64, 1/128	Subdivision settings	1/16	
Motor type	42 stepper motor	Motor type	42 stepper motor	Motor type	42 stepper motor	
Power supply	DC 24V, ≥48W	Power supply	DC 24V, ≥48W	Power supply	DC 24V, ≥48W	
Working environment 0-40°C, 80%RH		Working environment	0-40°C, 80%RH	Working environment	0-40℃, 80%RH	

## OEM-UB04

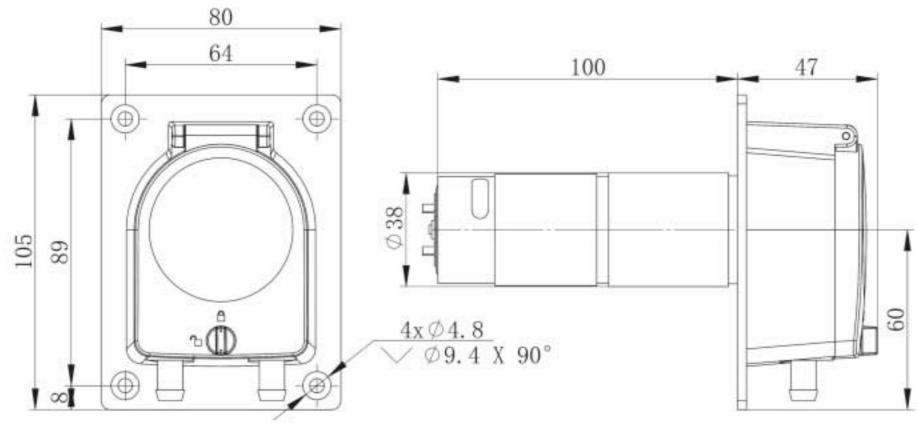




Model No.	OEM-UB04
Speed range	0.1-350 rpm
Flow rate range	0.08-930mL/min
Motor type	42 stepper motor
Speed control	Communication control
Address setting	1-32
Power supply	DC 24V, ≥48W
Communication interface	RS232,RS485 interface modbus protocol, control start/stop, direction and speed
Working environment	0-40°C, 80%RH

## **OEM-UXZ Series**

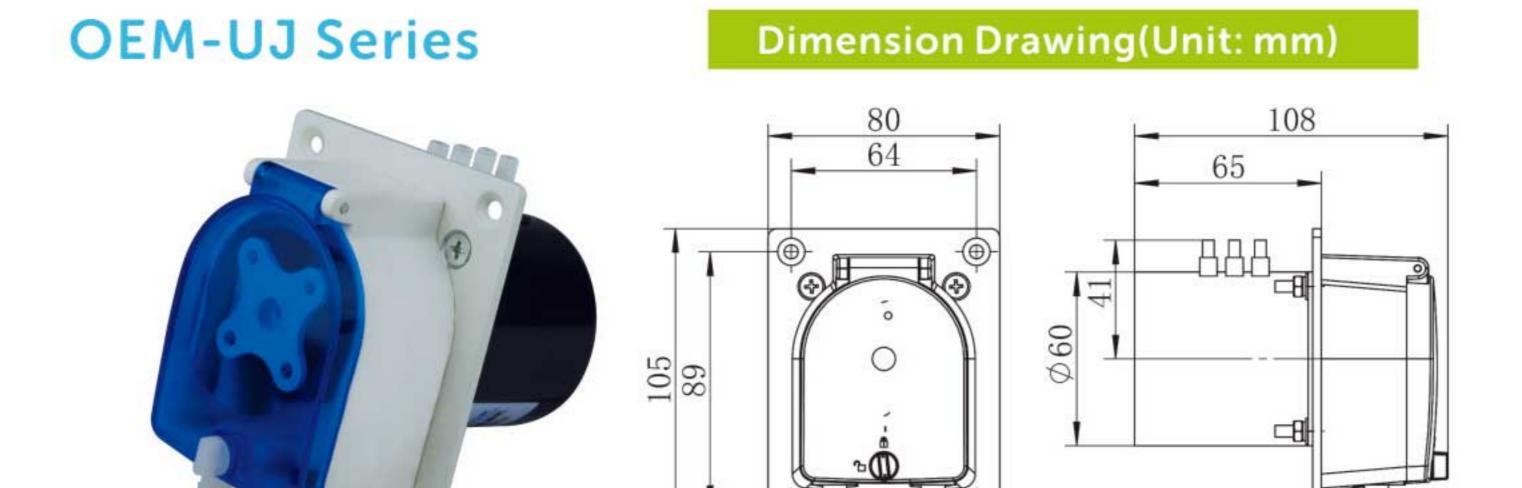




Model No.	Motor Type	Power Supply	Motor Speed (rpm±10%)	Flow Rate (mL/min)
OEM-UXZ03		DC10\//EA	150	≤398
OEM-UXZ06	Ф37 DC planetary	DC12V/5A	350	≤930
OEM-UXZ13	gear motor	DC24V/4A	150	≤398
OEM-UXZ16		DC24V/4A	350	≤930

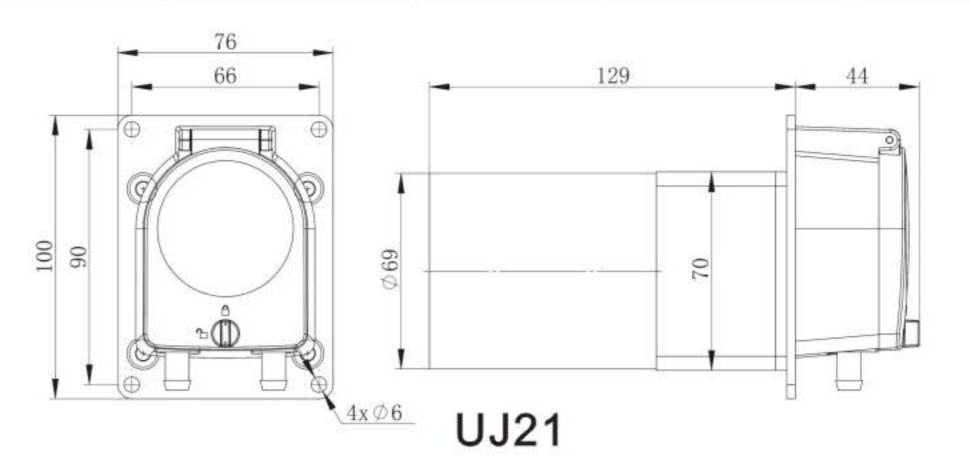


# Compact Pump Head



✓ Ø9.4 X 90°

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



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

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

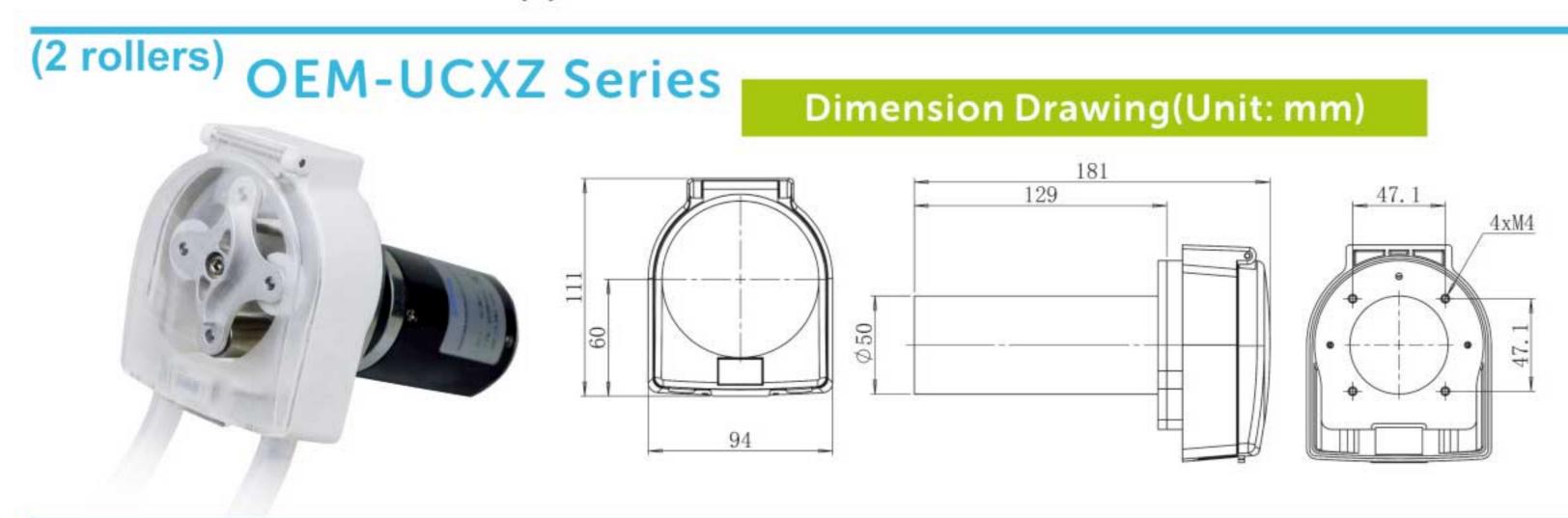
UJ010

	Housir	ng Material	The state of the s	Tubing				
Model No.	Body	Protective cover	Tubing Sizes	ID×Wall Thickness	Speed Range(rpm)	Flow Rate (mL/min)	Weight (kg)	
			16#	3.1×1.6(mm)		0.08~280		
UD15 (2 rollers)	PSF	Transparent PC	25#	4.8×1.6(mm)	0.1~350	0.16~580	0.12	
(Z lollers)		1 0	17#	6.4×1.6(mm)		0.26~930		

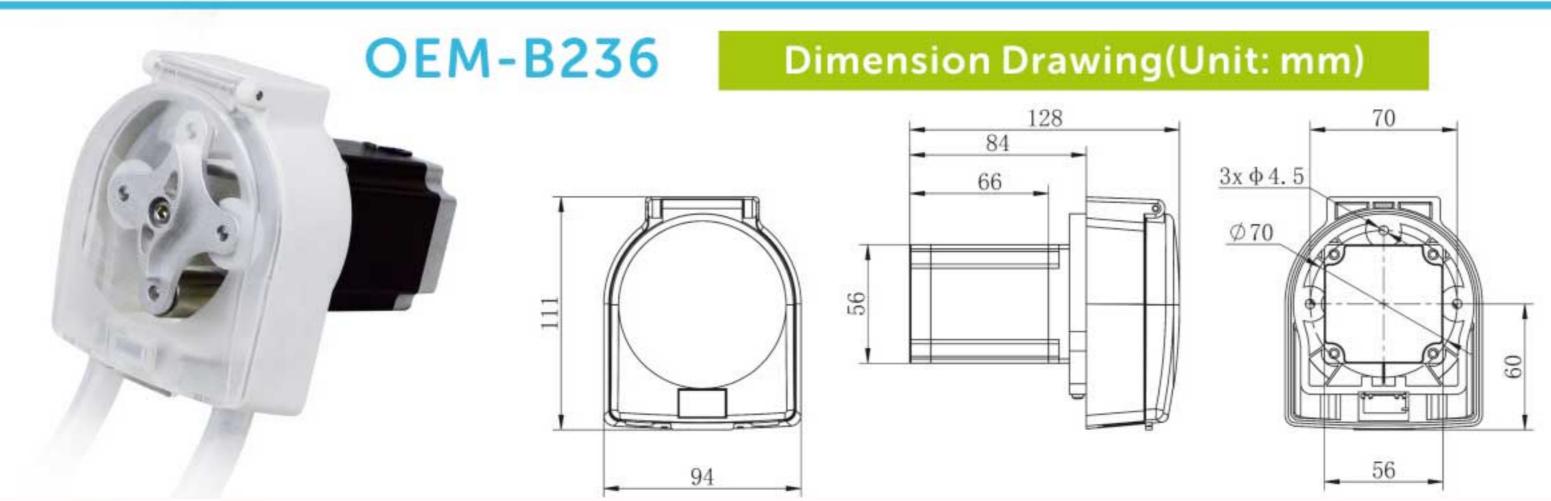
# Compact Pump Head

### **Product Introduction**

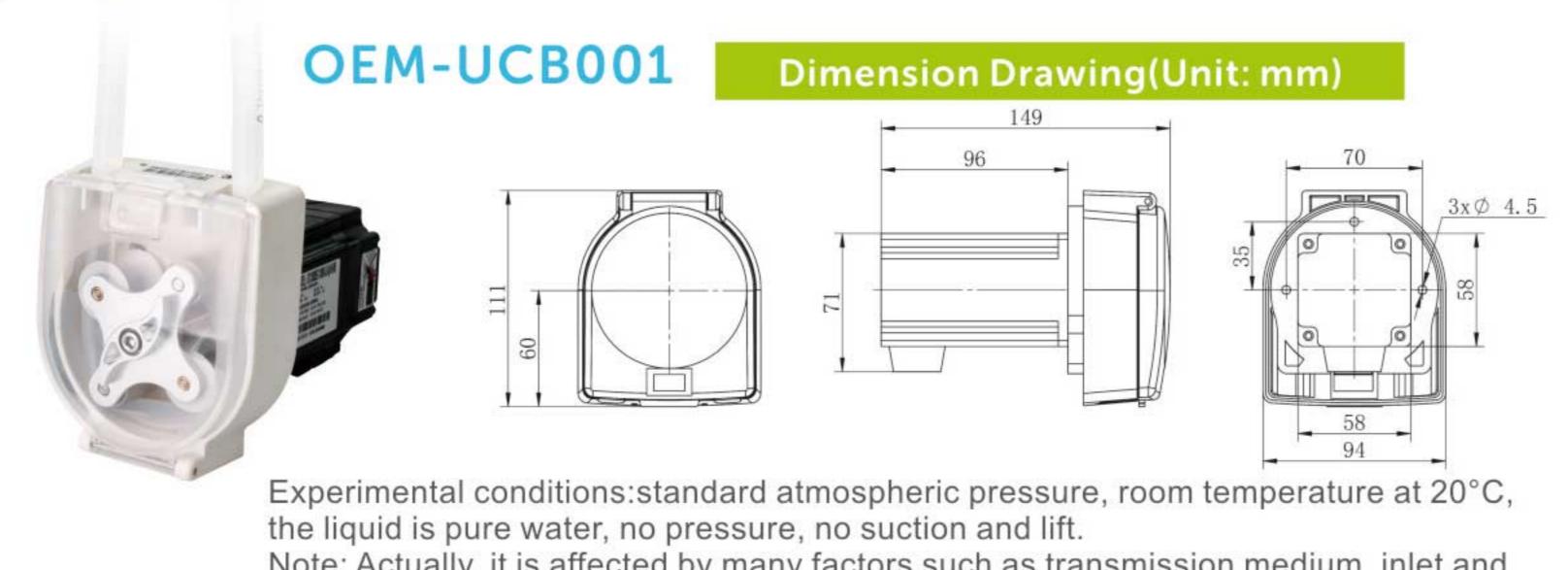
UC25, compact pump head, functional design, more practical. Transparent protective cover, can observe the working situation anytime; uncover signal output, stop working when uncover to ensure safety; running smoothly, low noise; support DC motor, brushless DC motor, stepper motor, servo motor and AC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



DC moto	DC motor Technical Specifications					
Model No.	UCXZ00X series, UCXZ10X series, UCXZ20X series, UCXZ30X series					
Motor type	Brush/Brushless DC plenetary gear motor					
Voltage	DC12V/DC24V					
Speed(rpm)	300					
Speed error	≤ ± 10%					
Working environment	0-40°C, 80%RH					



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

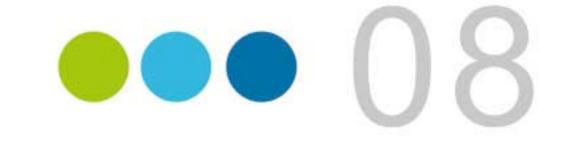


Servo mote	Servo motor Technical Specifications					
Model No.	OEM-UCB001					
Motor type	Step servo motor					
Motor phase number	2					
Motor step angle	1.8°					
Motor phase voltage	1.9V					
Motor phase current	5A					
Encoder power voltage	DC5V ( ±10% )					
Encoder resolution	1000cpr					
Working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

Note. Actually, it is affected by	y many factors such as transmission medium, inter and	
outlet pressure, hose materia	I and error, working environment, etc. This data is for reference only	

	Technical Specifications										
MadalNa	Но	Housing Material Tubing		oing	Speed Pange(rpm)	Flow Boto/ml /min)	\\\\-!\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
Model No.	Base	Protective cover	Tubing Sizes	ID×Wall(mm)	Speed Kange(ipin)	Flow Rate(mL/min)	Weight (kg)				
			15#	4.8×2.4		0.3423~2054	1.39				
UC25	PSF	PC	24#	6.4×2.4	0.1-600	0.5033~3020					
		1 0	35#	7.9×2.4		0.8588~5153					
			36#	9.6×2.4		1.1105~6663					

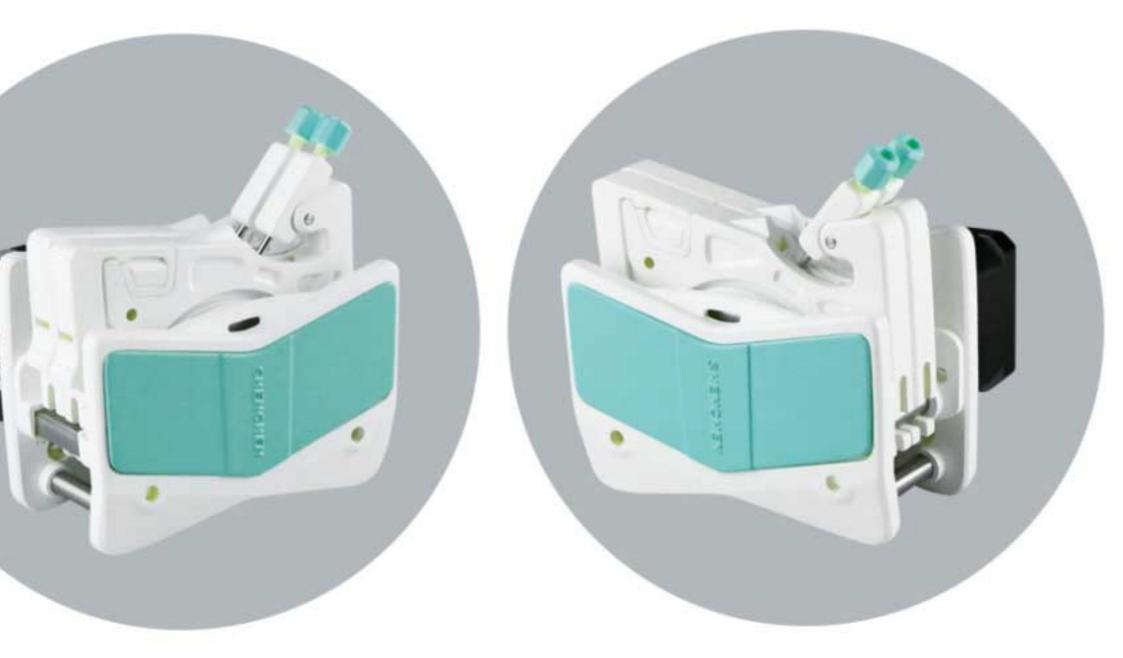




# Multichannel Pump Head

# New generation multichannel type pump head





# **Product Introduction**

- Brand new design, give you a brand new experience! Not only the appearance is exquisite, but the functional design is more practical.
- The unique elastic positioning mechanism allows users to install and remove cartridge with one hand. Multichannel, small volume transferring.
- Elastic pressure tube design to extend the service life of the tube.
- Stepless adjustment of the tube pressure gap, effectively improving the accuracy between channels.
- 304 stainless steel roller assembly, including 6 rollers, 8 rollers, and 10 rollers structure, of which 8 rollers are designed with low noise and high speed, suitable for supporting various analytical instruments.

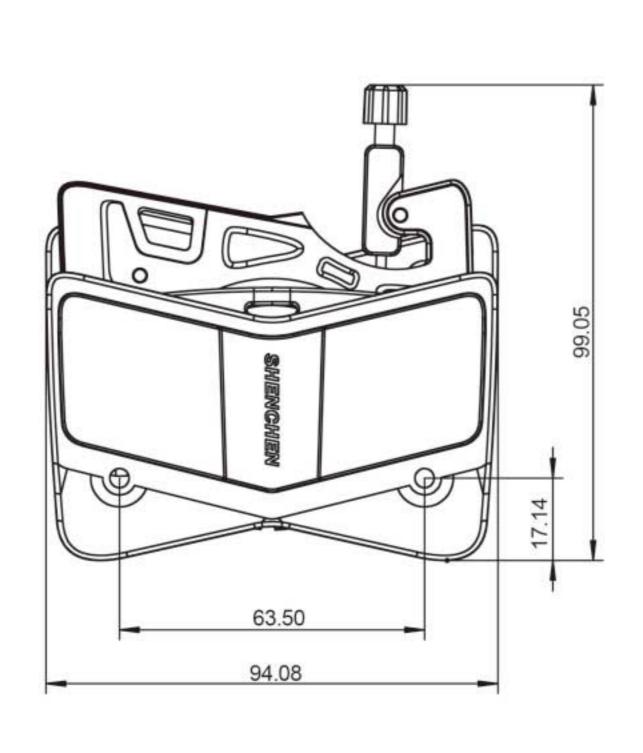
### **Product Features**

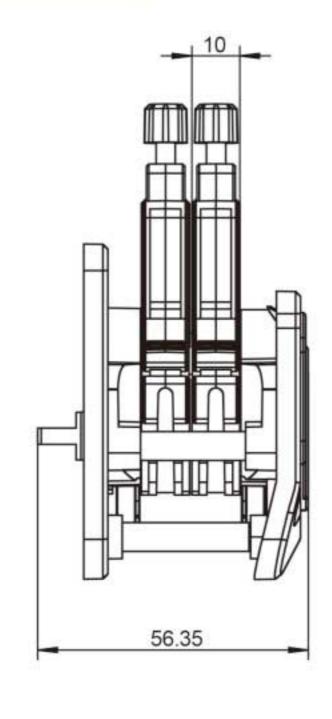
- The elastic positioning mechanism enables users remove and install cartridge with one hand.
- The elastic pressure tube design effectively extends the life of the tube.
- Stepless adjustment of the tube pressure gap, effectively improving the flow rate accuracy between channels.
- The mute design of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

# **Typical Application**

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

# Dimension Drawing(Unit: mm)





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

# **Tubing Installation Procedure**



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



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



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



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



5.Installation finished.



Patent No: ZL202030250105.9; ZL202030250745.X; ZL202030250744.5; ZL201922187842.3

EU patent number: 008005789-0001

# Multichannel Pump Head

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

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

	New	generation	n multichai	nnel type	oump head	d Technical	Specifi	ications	
Channel number	1	2	3	4	5	6	8	10	12
Cartridge material	POM/P	VDF							
Rollers material	304/31	6 stainless s	teel material						
Rollers number	8 roller	'S							
Tubing		Speed	Flow rat	e of nump he	ad with 8 rol	lers (ml/min)	Tub	ing maximun	n pressure (Mpa)
rubing		Opecu	Tiowia	Flow rate of pump head with 8 rollers (mL/min)			Con	ntinuous	Intermitten
1 × 1				0.004	19~7.38				
2 × 1	2×1								
$2.4 \times 0.8$				0.027	73~41.02				
3×1				0.034	5~51.79				
$0.13 \times 0.86$				0.000	2~0.25				
$0.19 \times 0.86$	0.	1~150rpm		0.000	3~0.28				
$0.25 \times 0.86$	0.			0.000	4~0.57			0.1	0.1
$0.51 \times 0.86$				0.00	6~2.42				
$0.89 \times 0.86$				0.004	6~6.84				
$1.14 \times 0.86$				0.007	74~11.12				
$1.42 \times 0.86$				0.010	7~16.1				
$2.06 \times 0.86$				0.020	06~30.95				
$2.79 \times 0.86$				0.032	29~49.39				

# Multichannel Pump Head-MC Series

# POM Material & PVDF Material



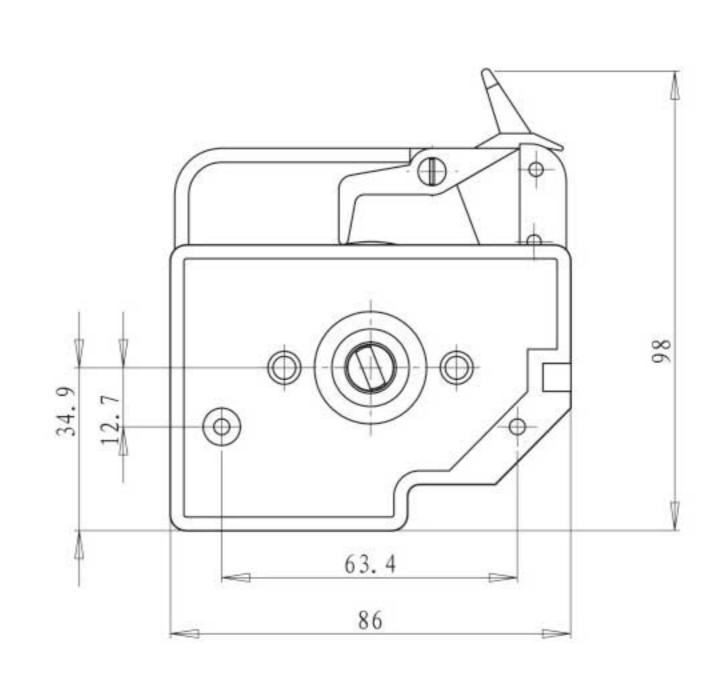
# **Typical Application**

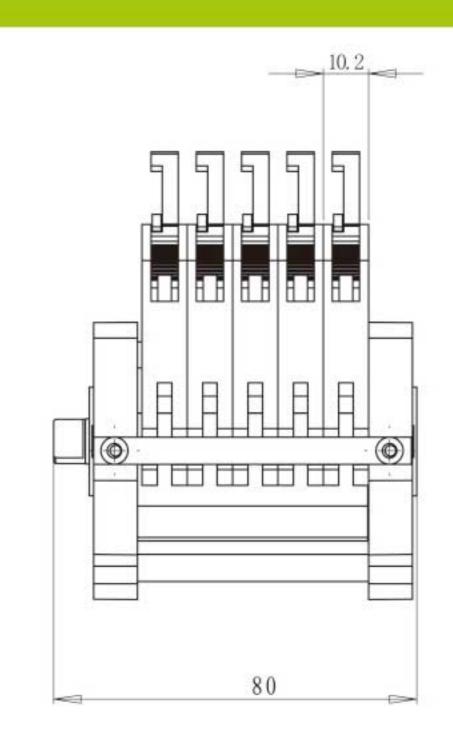
- Support blood sugar analytical device.
- Support ammonian analytical instrument.

# **Product Introduction**

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

# Dimension Drawing(Unit: mm)



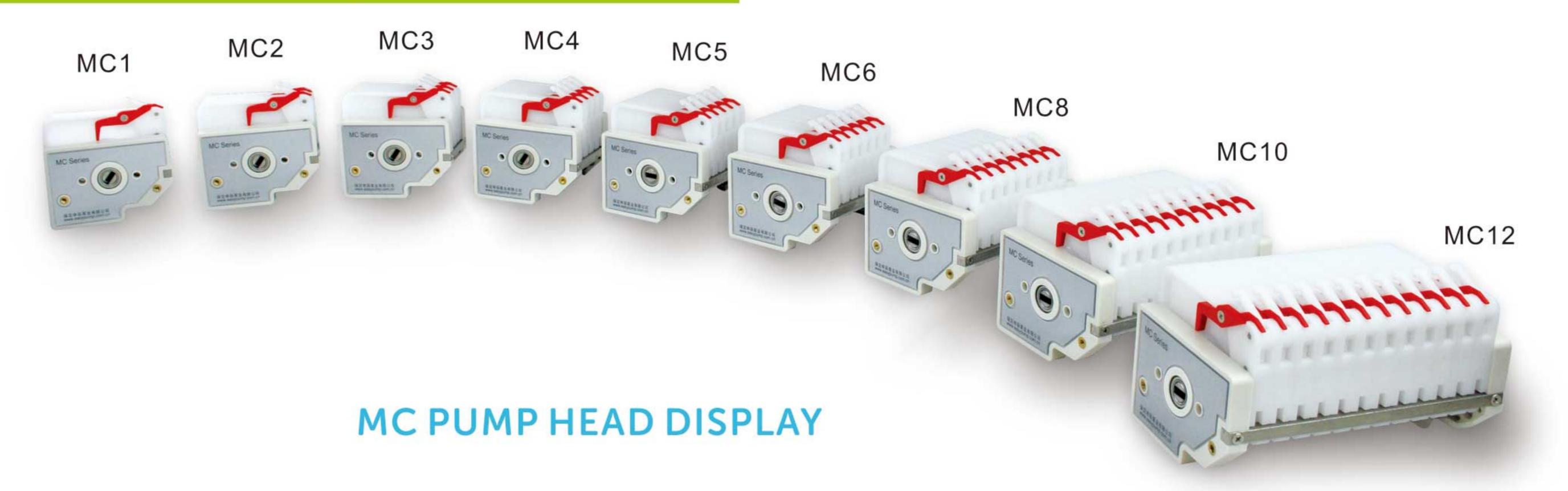


Note: Increasing or reducing one channel, the pump head size need to increase or reduce the thickness of one cartridge.





# Multichannel Pump Head-MC Series



# **Tubing Installation Procedure**

Roller assembly (10 roller)



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



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



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



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



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



F. Multichannel pump heads and tubing dra-



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

### Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only. MC Technical Specifications Channel number 12 10 6 5 8 Cartridge material POM/PVDF Rollers material 304/316 stainless steel material Dallara number Grallara 10 rollara

Rollers n	umber	6 rollers, 10 rollers			
_	Spood	Flow rate of pump head	Flow rate of pump head	Tubing maximu	m pressure (Mpa)
Tubing	Speed	with 10 rollers (mL/min)	with 6 rollers (mL/min)	Continuous	Intermittent
1 × 1		0.0046~6.90	0.0053~7.95		
2 × 1		0.0156~23.40	0.021~31.35		
$2.4 \times 0.8$		0.0212~31.80	0.0274~41.10		
3 × 1		0.0324~48.60	0.043~64.95		
$0.13 \times 0.86$		0.00016~0.24	0.000185~0.277		
$0.19 \times 0.86$	0.1~150rpm	0.0002~0.27	0.0003~0.420	0 1	0.1
$0.25 \times 0.86$	0.1~1501pm	0.0003~0.480	0.0005~0.720	0.1	0.1
$0.51 \times 0.86$		0.0014~2.10	0.0020~3.0		
$0.89 \times 0.86$		0.0039~5.85	0.0057~8.55		
$1.14 \times 0.86$		0.0066~9.90	0.0090~13.5		
$1.52 \times 0.86$		0.0093~13.95	0.0133~19.95		
$2.06 \times 0.86$		0.015~22.50	0.0250~37.5		
$2.79 \times 0.86$		0.024~35.85	0.037~55.50		



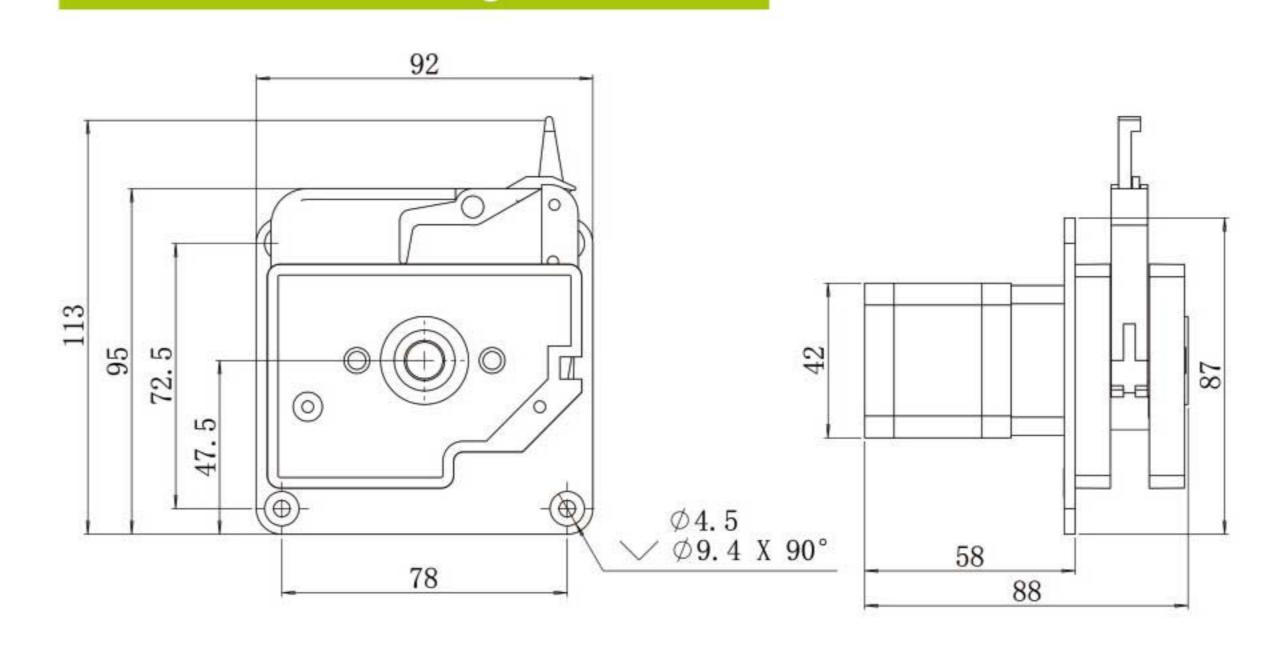
# **OEM Product**

# Multichannel Pump Head Series

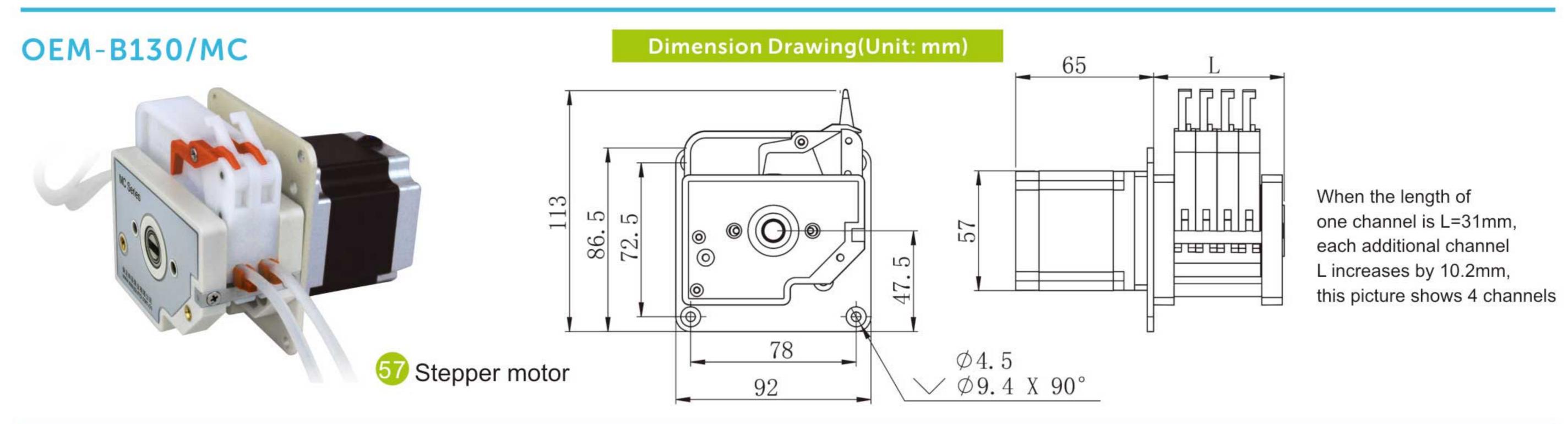
# OEM-B09/MC1

# 42 Stepper motor

# Dimension Drawing(Unit: mm)



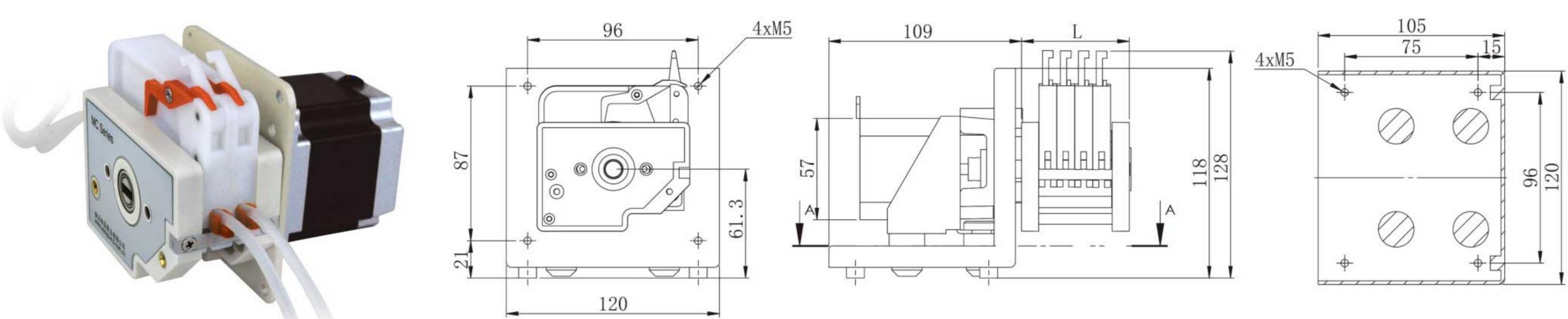
	OEM-B09 Technical Specifications										
Speed range	Speed range 0.1-150rpm Motor step angle 1.8°										
Flow rate range	0.00166-65mL/min	Motor phase voltage	2.2V								
Motor type	42 stepper motor	Motor phase current	1.0A								
Motor phase number	2	Working environment	0-40°C, 80%RH								



	OEM-B130 Technical Specifications									
Speed range	Speed range 0.1-150rpm Motor step angle 1.8°									
Flow rate range	0.00166-65mL/min	Motor phase voltage	3.3V							
Motor type	57 stepper motor	Motor phase current	1.0A							
Motor phase number	2	Working environment	0-40°C, 80%RH							

# OEM-B19/MC

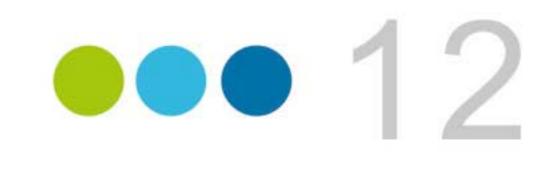
### **Dimension Drawing(Unit: mm)**



When the length of one channel is L=31mm, each additional channel L increases by 10.2mm, this picture shows 4 channels

	OEM-B19 Technical Specifications										
Speed range	Speed range 0.1-150rpm Motor step angle 1.8°										
Flow rate range	0.00166-65mL/min	Motor phase voltage	3.3V								
Motor type	57 stepper motor	Motor phase current	1.7A								
Motor phase number	2	Working environment	0-40°C, 80%RH								





# Multichannel Pump Head



# MD1

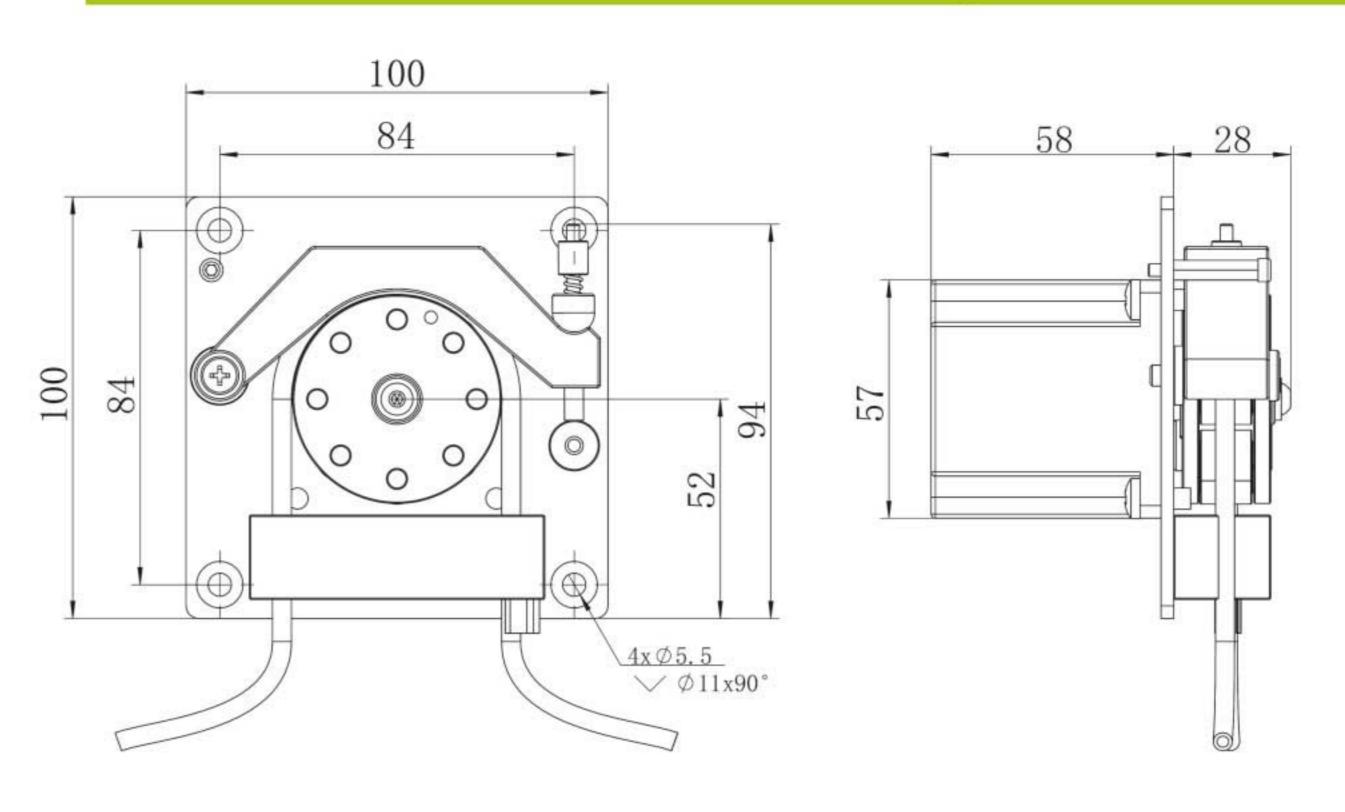
# **Product Introduction**

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

Model Number | MD1

Typical Application | Support analytical instruments

# Installation Sizes Drawing(Unit: mm)



# **Tubing Installation Procedure**



1. Turn the spanner clockwise.



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



3. Tubing installation finished.



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

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

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

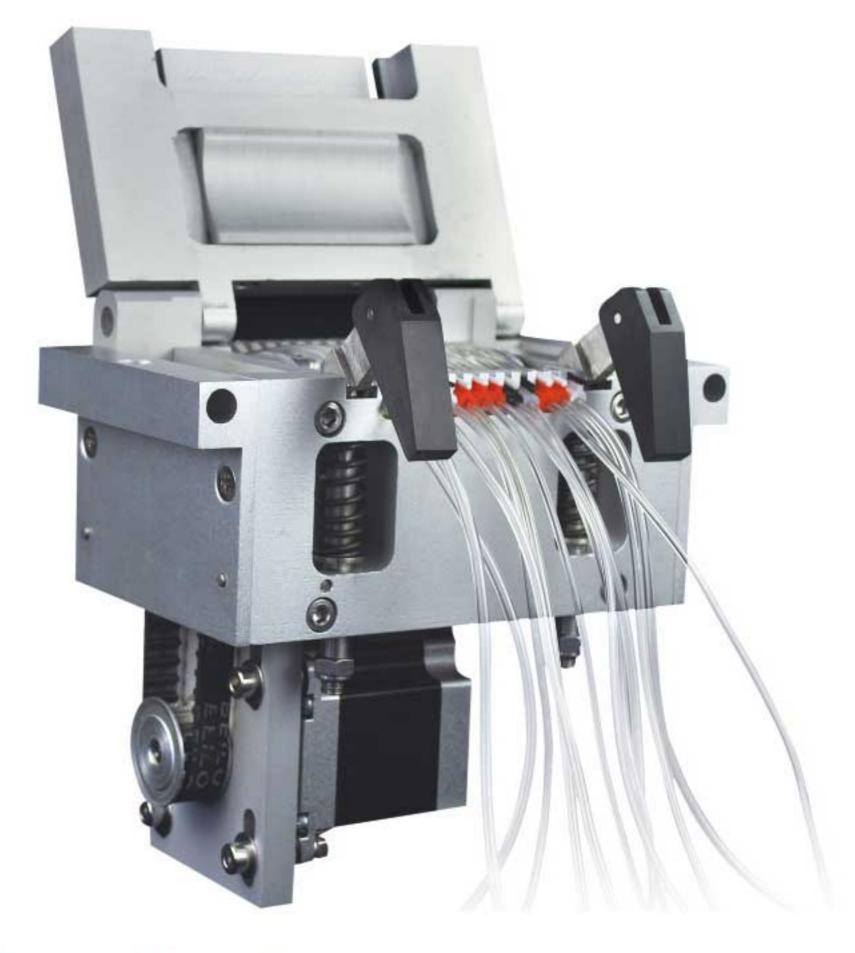
	Technical Specifications											
Pump Head	Channel Number	Speed	Tubing	Flow Rate (0.1-300rpm)	Rollers Number	Rollers Material	Tubing M Pressure	laximum (Mpa)				
			1×1	0.007-14 mL/min (each channel)								
MD1	1	0.1-200 (rpm)	2×1	0.0244-48.8mL/min (each channel)	8 rollers	POM	Intermittent 0.1	Continuous 0.1				
			2.79×0.86	0.0356-71.2mL/min (each channel)								



# Multichannel Pump Head

# **MT12**





# **Product Introduction**

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

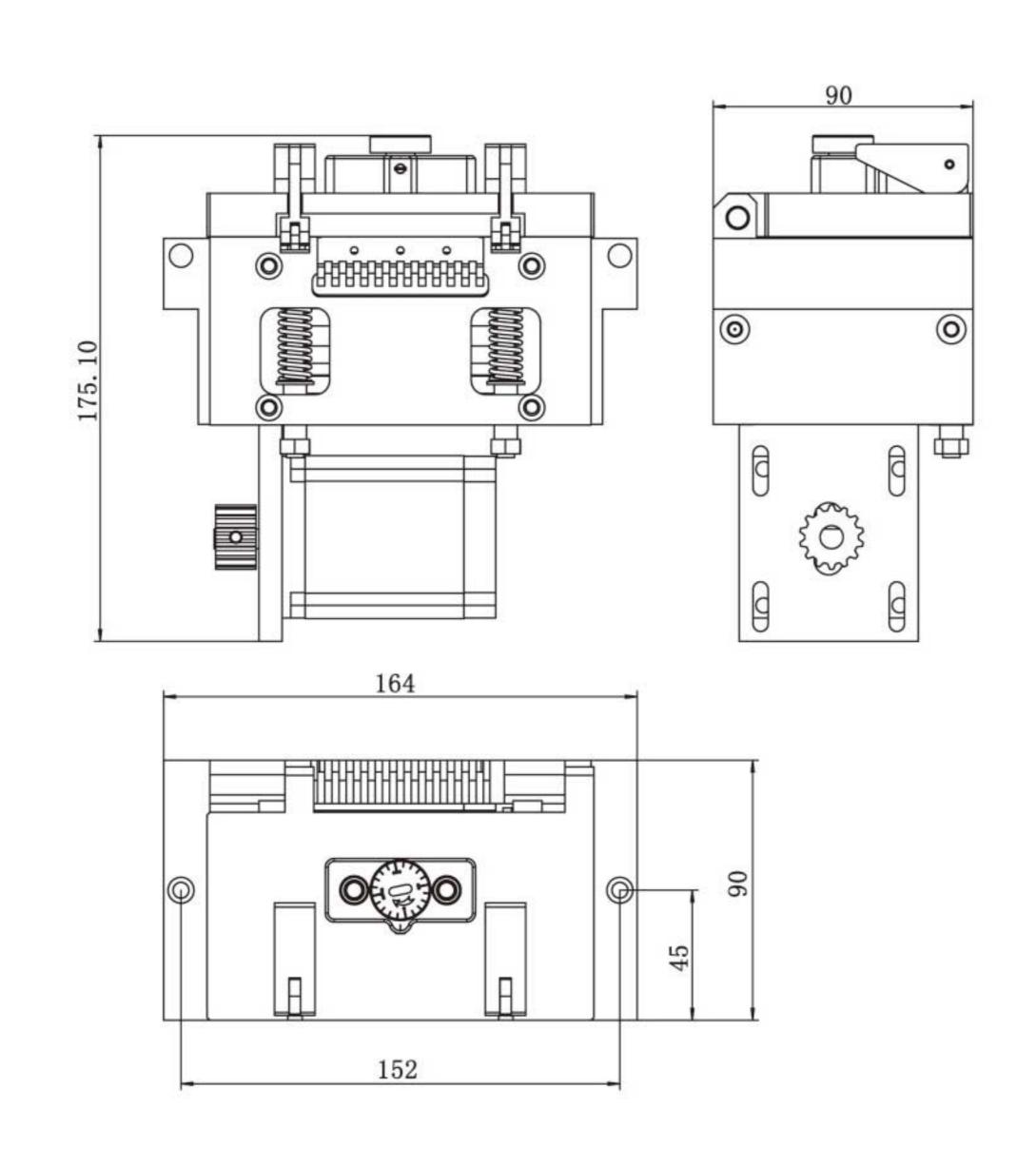
# Model Number

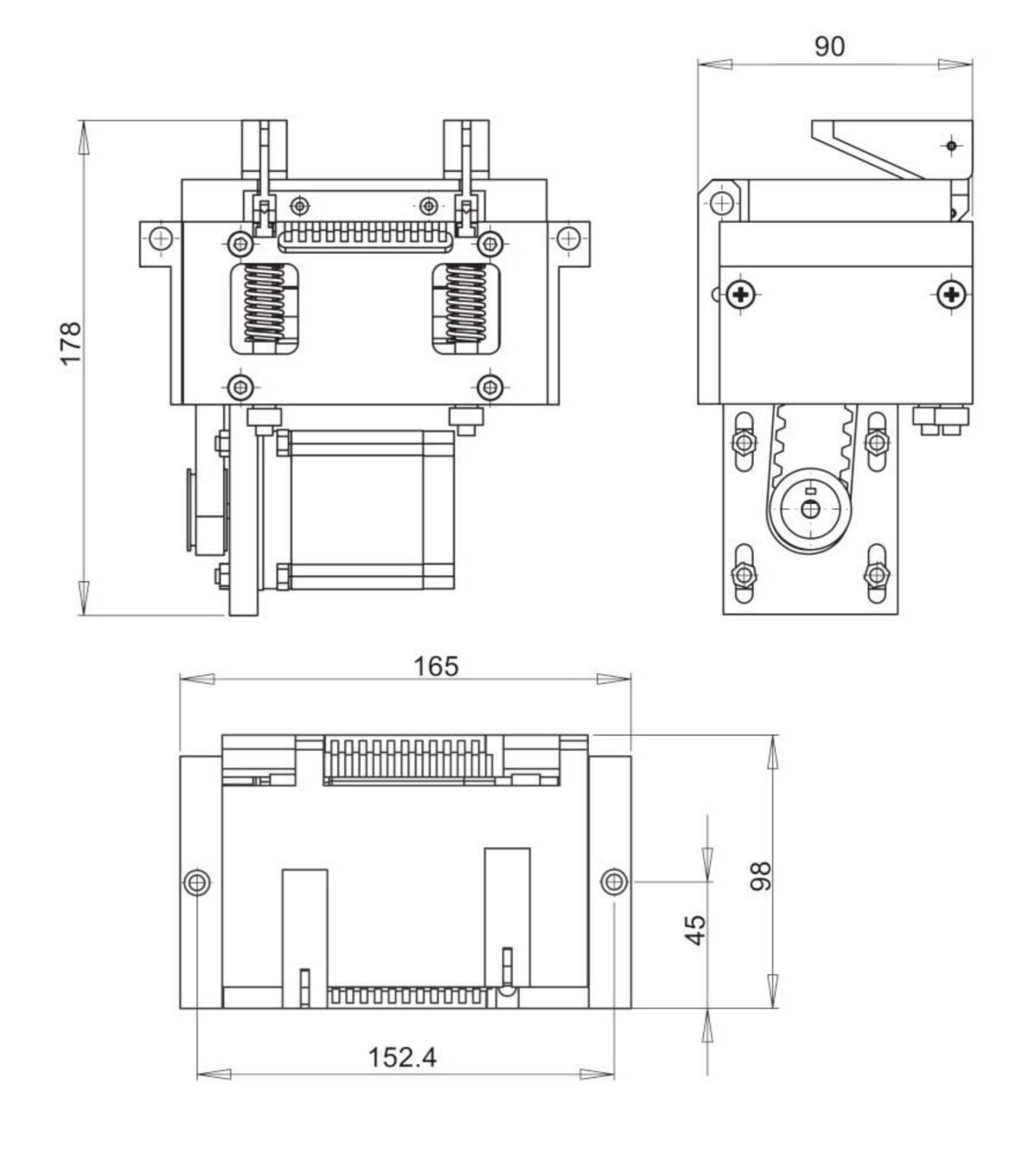
MT12

# **Typical Application**

Support chemistry analytical instruments

# Dimension Drawing(Unit: mm)





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

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

	Technical Specifications										
Model	Model Housing Rollers Channel Rollers		s Channel Roll		hannel Rollers Speed		I Flow Rate	Per Channe	l (mL/min)	Tubing M Pressure	
No.		Material Number	Number	Number		0.51×0.9	1.02×0.86	2.06×0.86	2.54×0.86	Intermittent	Continuous
MT12	Aluminum	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



# Easy Load Pump Head

New generation easy load type pump head

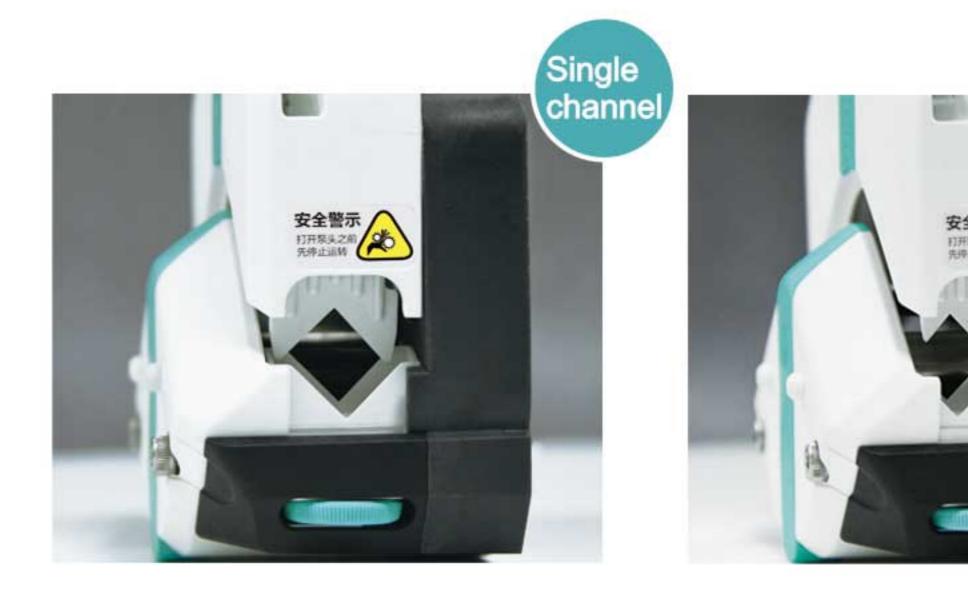


(3/6 rollers)



# **Typical Application**

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



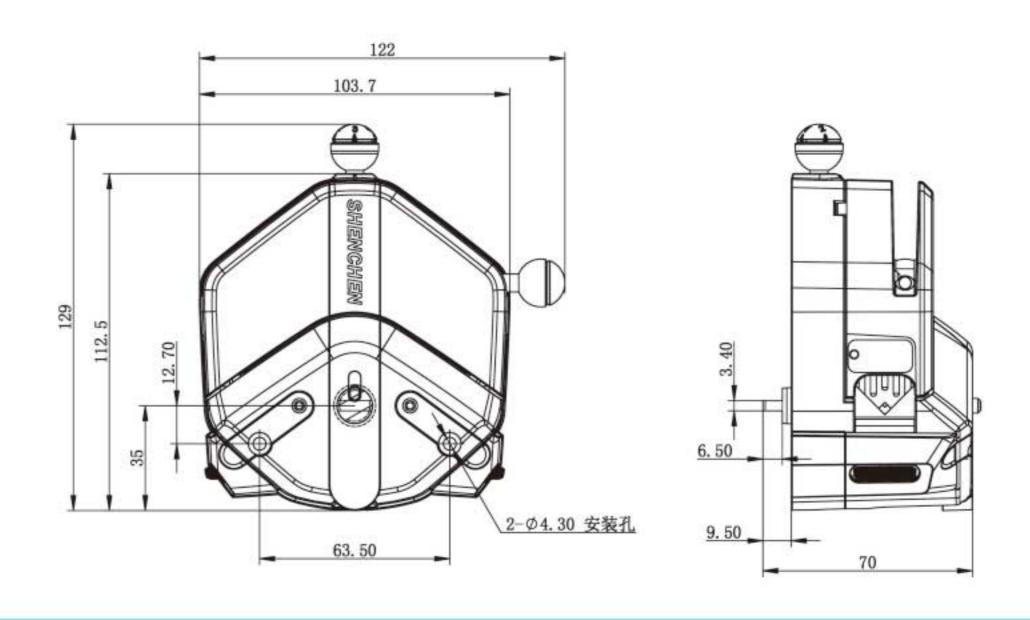
### **Product Introduction**

- Brand new design, give you a brand new experience! Not only the appearance is exquisite, but the functional design is more practical.
- The unique tube clamp linkage mechanism, with the opening process of the upper pressure block, the tube clamp automatically lifts, the user can easily install the tube. As the upper pressure block is closed, the tube clamp is automatically reset to fix the tube. At the same time, "the Trigger lever assist mechanism" assists the user in pressing the upper pressure block.
- The rubbing wheel mechanism can adjust the position of the lower tube clamp to fix different materials and diameters tube.
- Users can choose single or dual-channel pump heads. You can also choose a pump head with a fixed or adjustable tube pressure gap according to your requirements. The shell material of the pump head including two types: resistant to organic solvents and intolerant to organic solvents.

### **Product Features**

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

# Dimension Drawing(Unit: mm)



## **Tubing Installation Procedure**



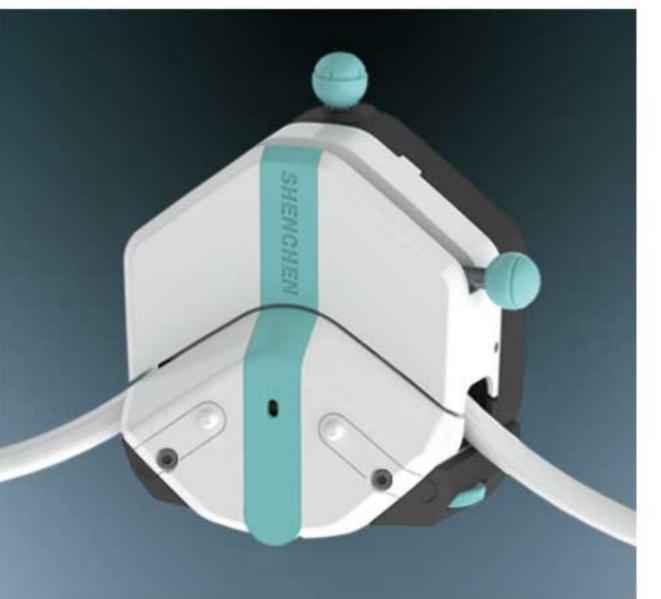
1. Turn the knob anticlockwise 180°, open the upper block.

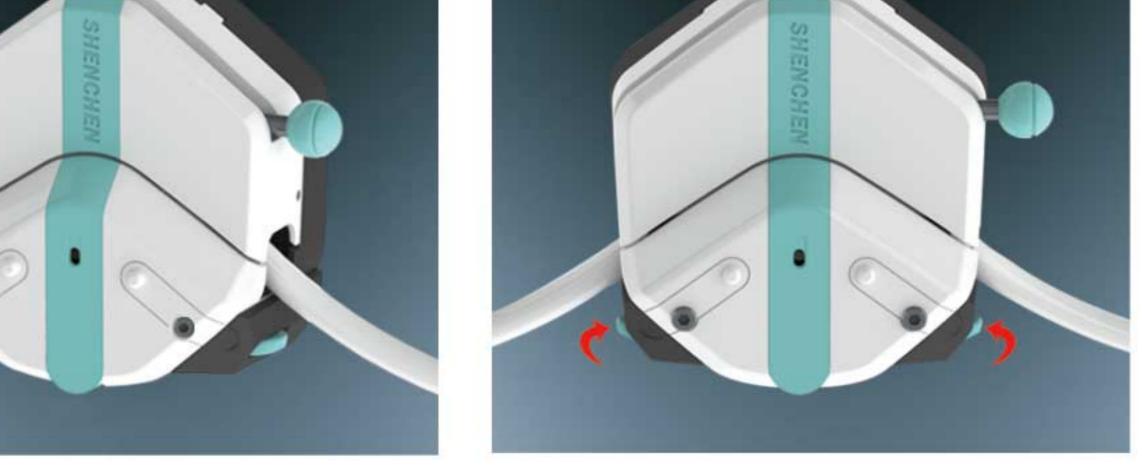


Dual

hannel

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





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



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

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

Dump Hood	Tubing	ID×Wall		Flow Rate(mL/min)	Tubing Max.P	ressure(Mpa)	\\\ - ! -  -   \( \( \  \) \\
Pump Head	Tubing	thickness(mm)	mL/r	(0.1–600rpm)	Intermittent	Continuous	Weight(kg)
	13#	$0.8 \times 1.6$	0.053	0.0053-32			
	14#	$1.6 \times 1.6$	0.27	0.027-162			
EasyPump	19#	$2.4 \times 1.6$	0.55	0.055-330	0.27	0.17	
(Acceptable tubing of	16#	$3.1 \times 1.6$	0.933	0.093-560			
1.6 mm wall thickness)	25#	$4.8 \times 1.6$	1.967	0.197-1180	0.24	0.14	
	17#	$6.4 \times 1.6$	3.333	0.333-2000	0.14	0.10	
	18#	$7.9 \times 1.6$	4.3	0.430-2580	0.10	0.07	0.6
	15 <sup>#</sup>	4.8×2.4	1.8	0.180-1080	0.27	0.17	
EasyPump (Acceptable tubing of	24#	6.4×2.4	2.733	0.273-1640	0.27	0.17	
2.4 mm wall thickness)	35#	7.9×2.4	3.833	0.383-2300	0.24	0.14	
	36#	9.6×2.4	5.167	0.517-3100	0.24	0.14	

# Easy Load Pump Head



# Dimension Drawing(Unit: mm)

# **Product Features**

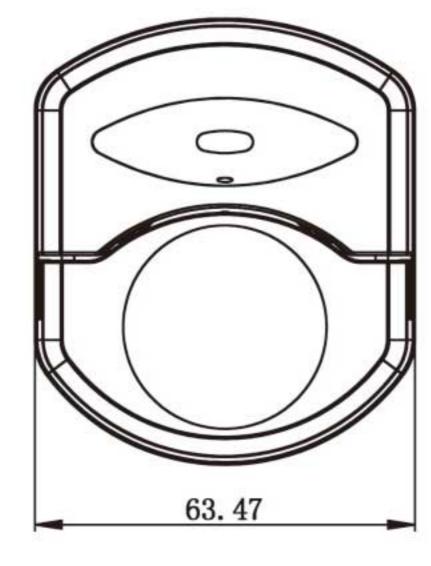
- Beautiful appearance, compact size
- Flow rate range: 0.0033-365.69mL/min.
- Front knob to open the pump head, save space.
- Automatic tubing retention makes tube loading easy and quick.
- Single and dual-channel head available.
- 5 different sizes tubing to meet different flow rate requirements.

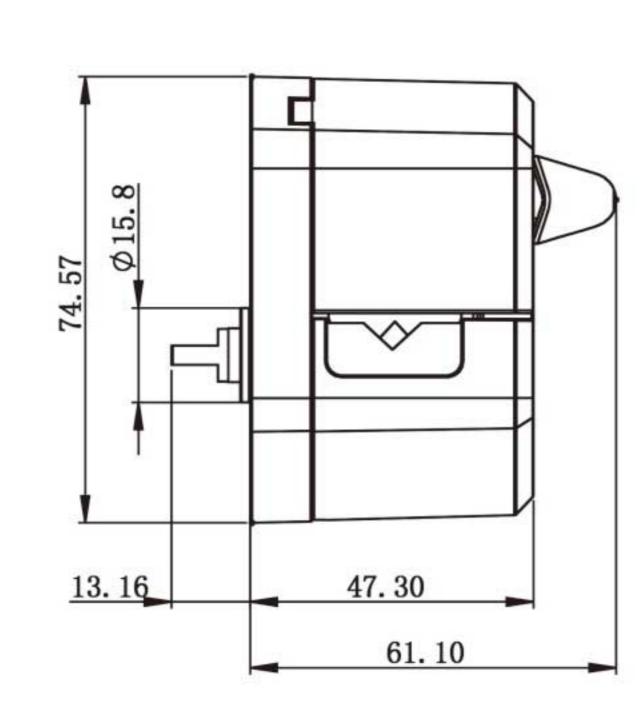


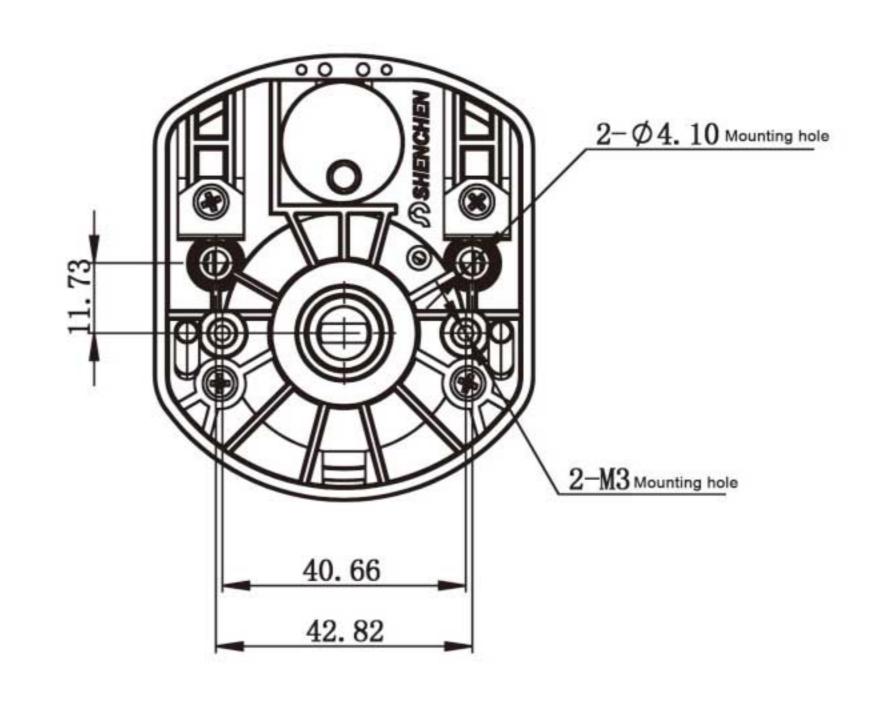




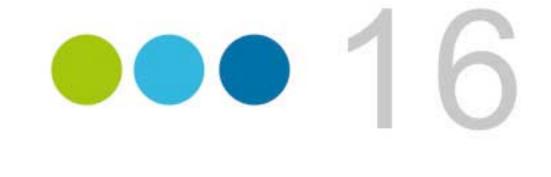
Dual channel HandyPump02











# **Tubing Installation Procedure**



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



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



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

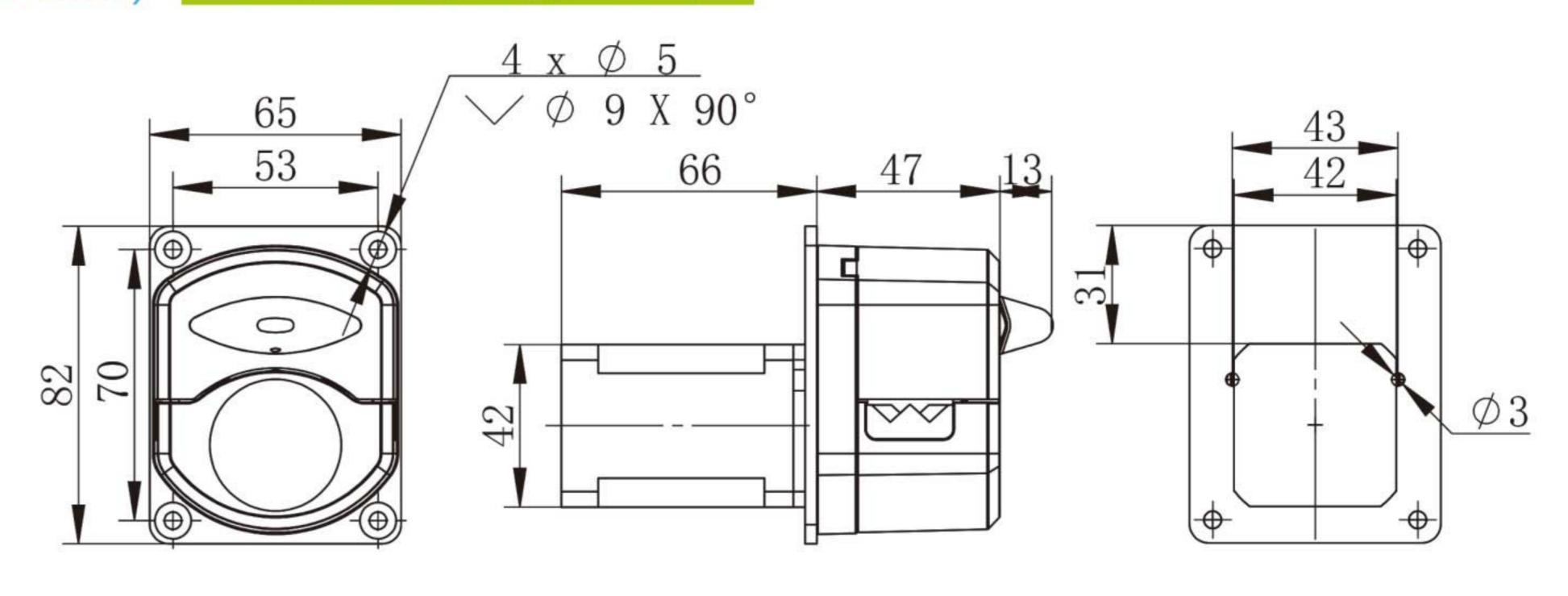
Pump Head	Channel	Tubing	ID×Wall thickness(mm)	mL/r	Speed(rpm)	Flow Rate(mL/min)	Weight(kg)
		13#	0.8×1.6	0.033		0.0033~10.03	
	0	14#	1.6×1.6	0.187		0.0187~56.09	
HandyPump01	Single channel	19#	2.4×1.6	0.371	0.1~300	0.0371~111.17	0.224
		16#	3.1×1.6	0.636		0.0636~190.76	
		25#	4.8×1.6	1.219		0.1219~365.69	
		13#	$0.8 \times 1.6$	0.033		0.0033~10.03	
HandyPump02	Dual	14#	1.6×1.6	0.187	0.4.200	0.0187~56.09	0.224
rianayi ampoz	channel	19#	$2.4 \times 1.6$	0.371	0.1~300	0.0371~111.17	
		16#	3.1×1.6	0.636		0.0636~190.76	

# **OEM Product**

# Easy Load Pump Head Series HandyPump01 HandyPump02

# OEM-HYB001(42-60 stepper motor)





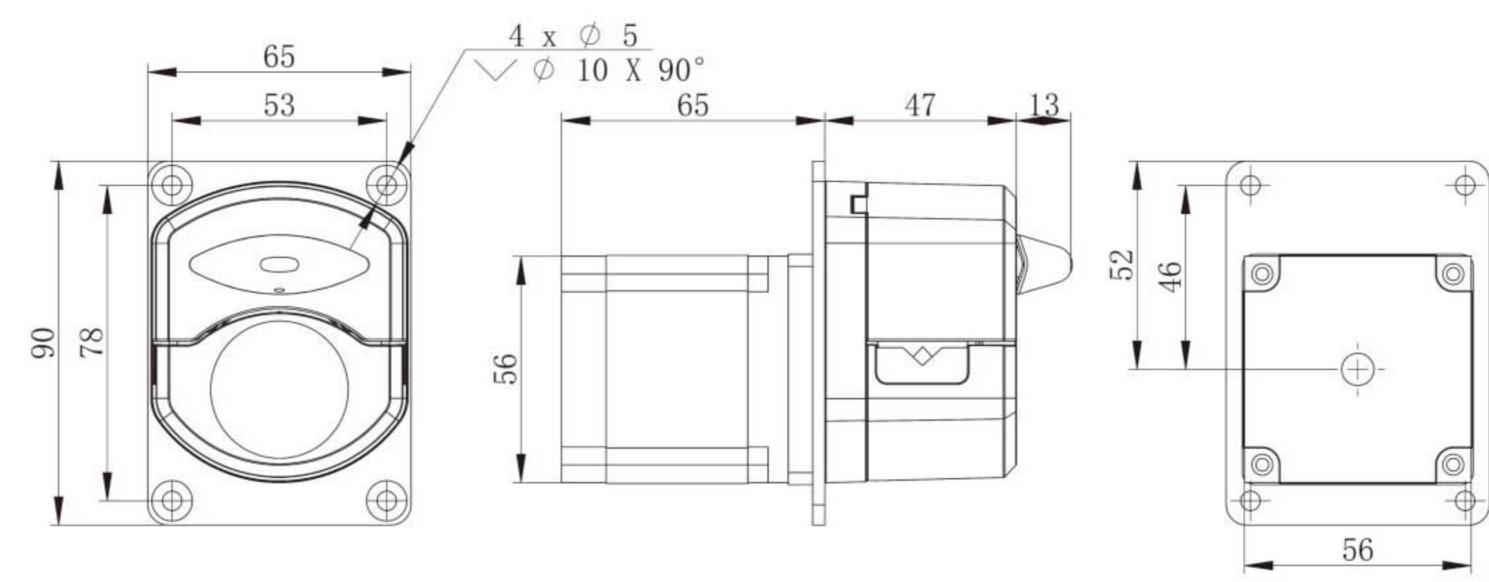
	OEM-HYB001 Technical Specifications										
Speed range 0.1-300rpm Motor step angle 1.8°											
Flow rate range	0.0033-365.69mL/min	Motor phase voltage	3.6V								
Motor type	42 stepper motor	Motor phase current	1.7A								
Motor phase number	2	Working environment	0-40°C, 80%RH								



# OEM-HYB101(57stepper motor)

# HandyPump01

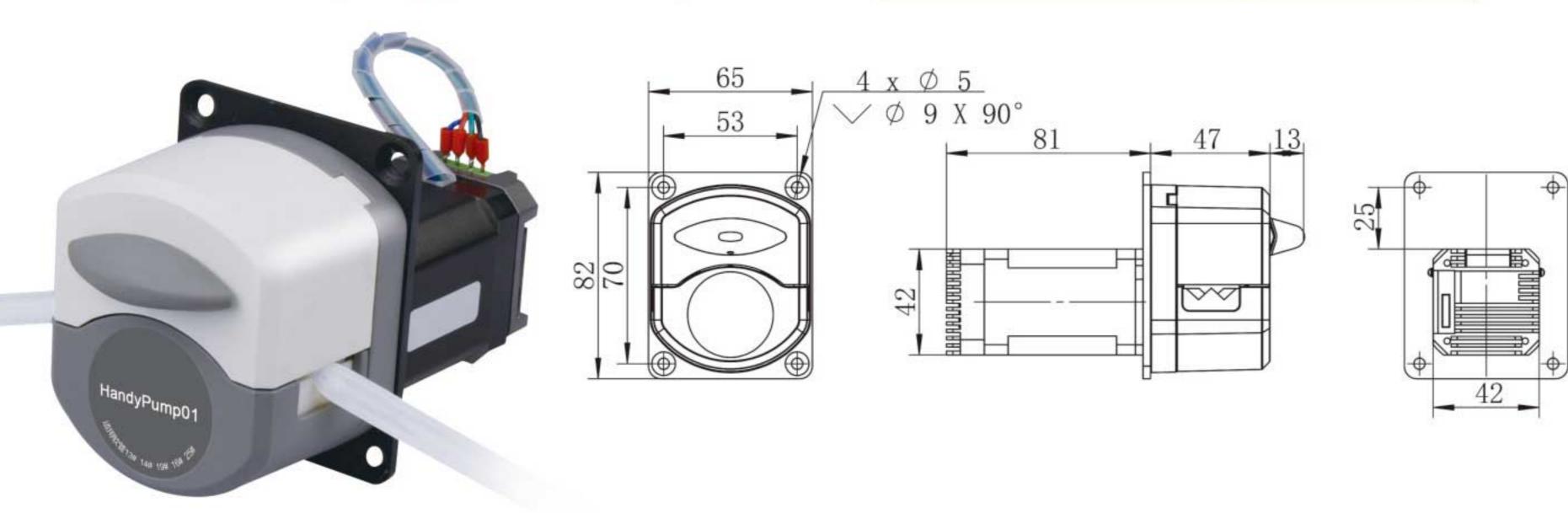
# Dimension Drawing(Unit: mm)



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

# OEM-HYB006(stepper motor)

# Dimension Drawing(Unit: mm)

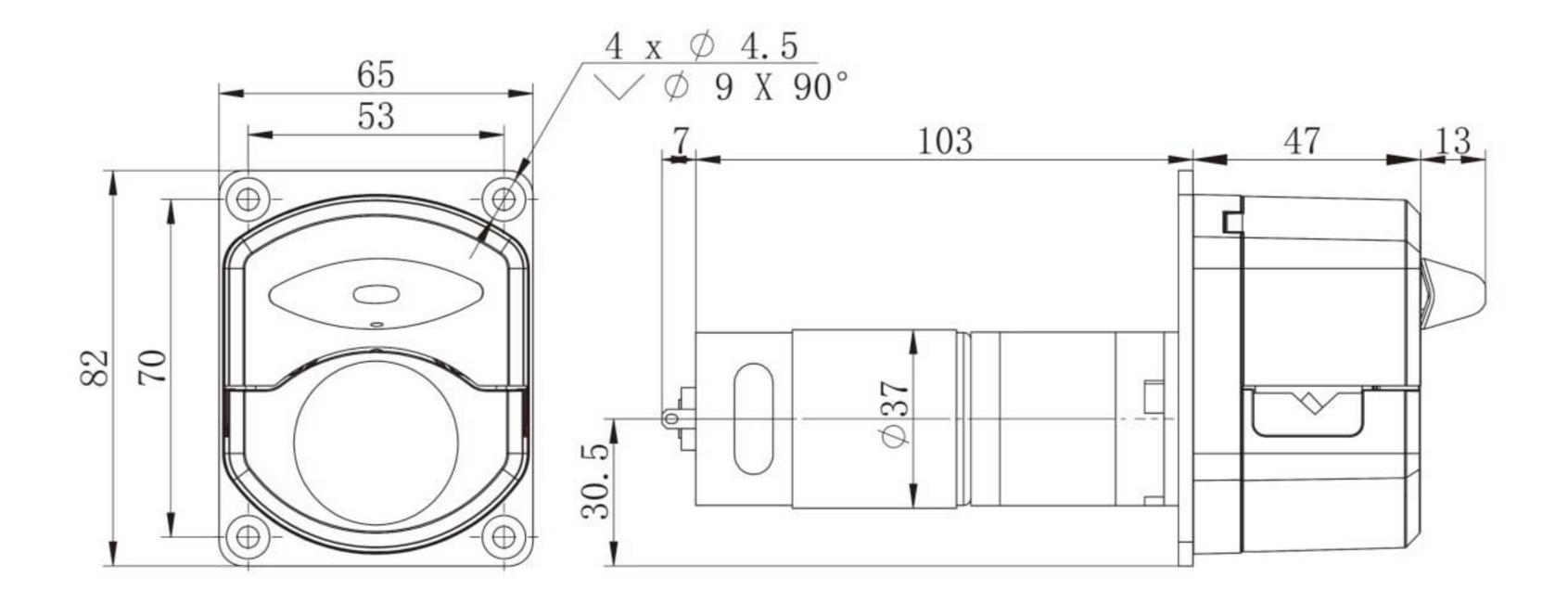


	Model No.	OEM-HYB003/004/005
	Speed range	0.1-300 rpm
	Flow rate range	0.0033-365.69mL/min
	Outer control	Passive switch signal control start/stop and direction
		OEM-HYB003: External potentiometer speed control 4-20mA
	Speed control	OEM-HYB004: External potentiometer speed control 0-5V
		OEM-HYB005: External potentiometer speed control 0-10V
	Motor type	42 stepper motor
	Power supply	DC 24V, ≥48W
	Working environment	0-40°C, 80%RH

OEM-HYBO	006/007 Technical Specifications	OEM-HYB009 T	echnical Specifications	OEM-HYB010 Technical Specifications		
Speed range	0.1-300 rpm	Speed range	0.1-300 rpm	Speed range	0.1-300 rpm	
Flow rate range	0.0033-365.69mL/min	Flow rate range	0.0024-190mL/min	Flow rate range	0.0024-190mL/min	
Speed control	External input pulse frequency speed control	Speed control	Preset speed or serial port control	Speed control	Adjust speed by internal potentiometer	
Subdivision settings	1/16(recommend), 1, 1/2, 1/4, 1/8, 1/32, 1/64, 1/128	Subdivision settings	1/16	Subdivision settings	1/16	
Motor type	42 stepper motor	Motor type	42 stepper motor	Motor type	42 stepper motor	
Power supply	DC 24V, ≥48W	Power supply	DC 24V, ≥48W	Power supply	DC 24V, ≥48W	
Working environmen	nt 0-40℃, 80%RH	Working environment	0-40°C, 80%RH	Working environment	0-40°C, 80%RH	

# OEM-HYXZ Series (DC planetary gear motor)



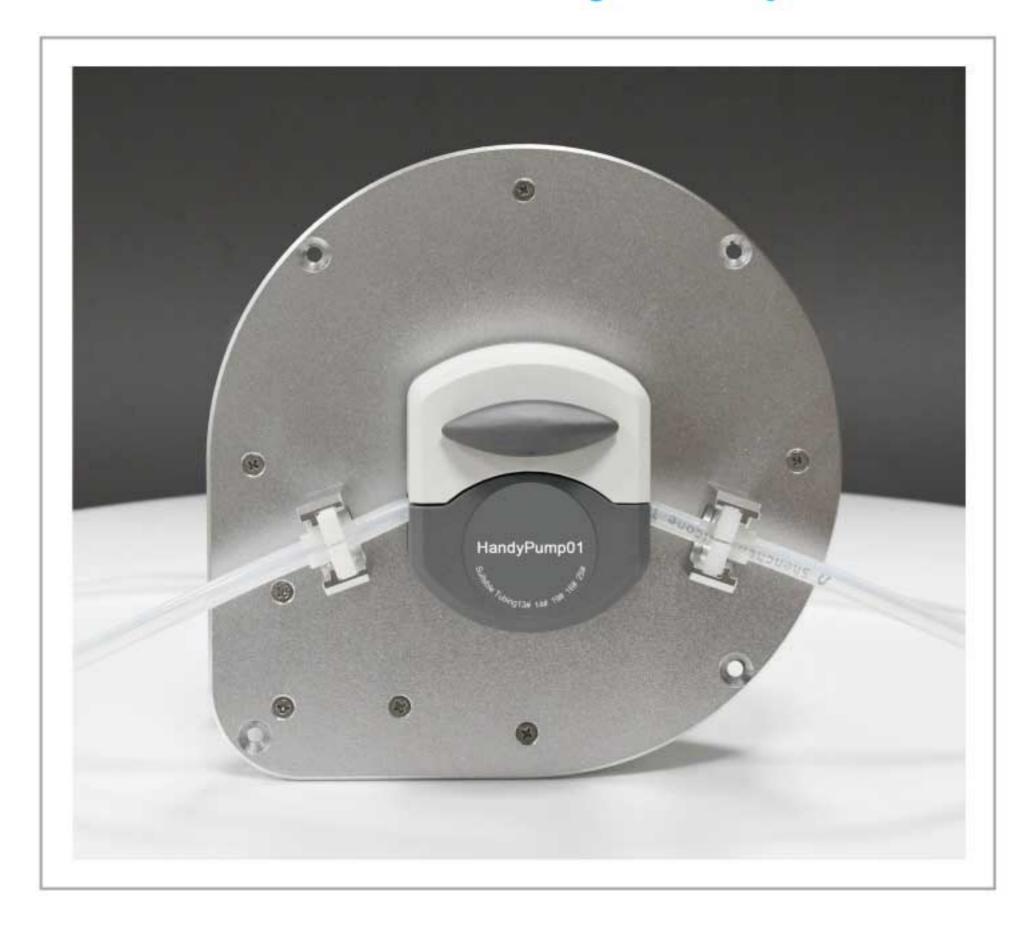


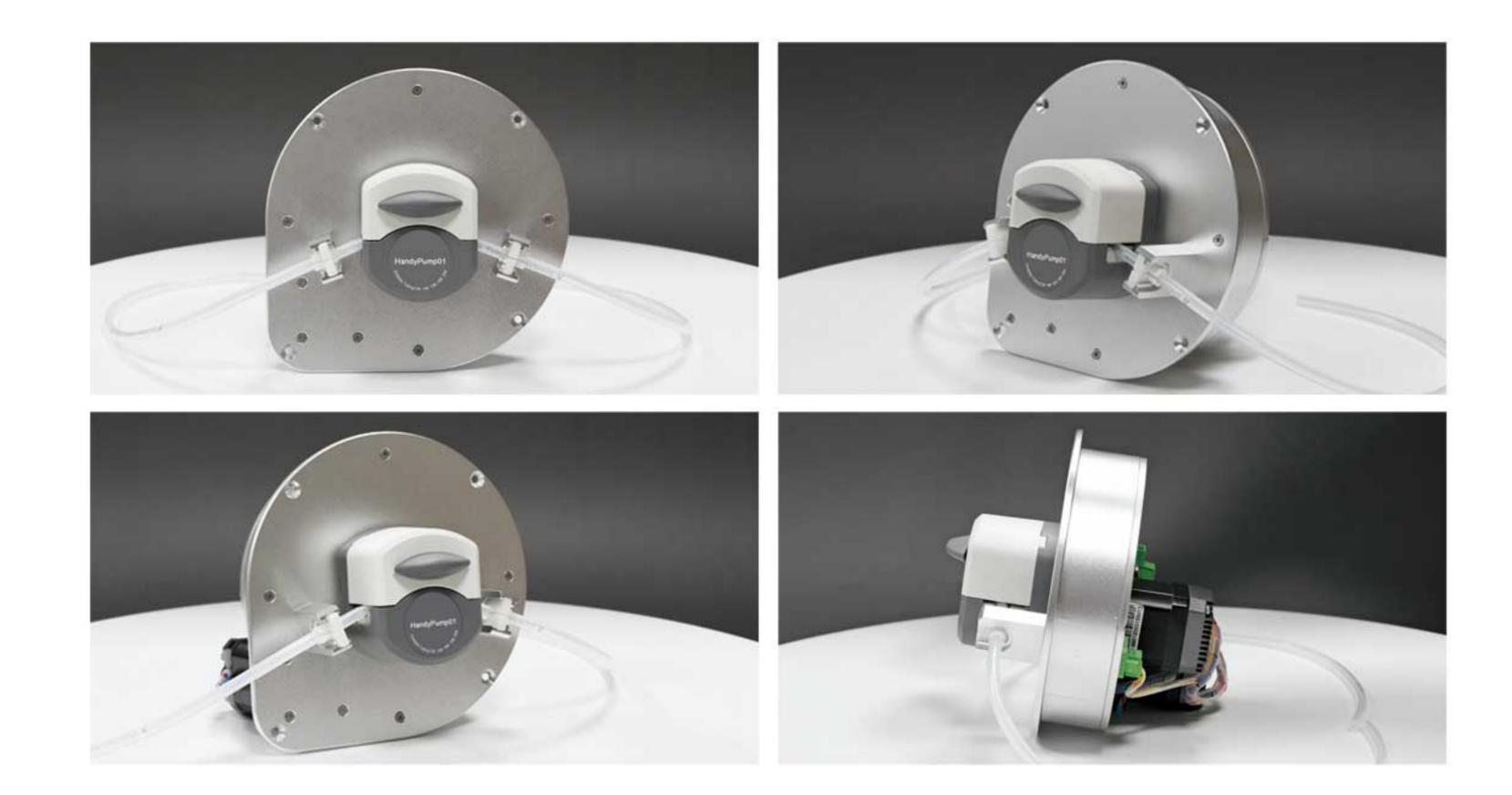
OEM-Z series Technical Specifications									
Model No. Motor type Power supply Power(W) Speed(rpm) Speed error Working enviro									
OEM-HYXZ001			30	100		0-40°C, 80%RH			
OEM-HYXZ002	37 DC planetary gear motor	DC24V/4A		200	≤±10%				
OEM-HYXZ003				300					
OEM-HYXZ101				100					
OEM-HYXZ102	37 DC planetary gear motor	DC12V/5A		200					
OEM-HYXZ103				300					



# Easy Load Pump Head

# **AUD-I-HandyPump**



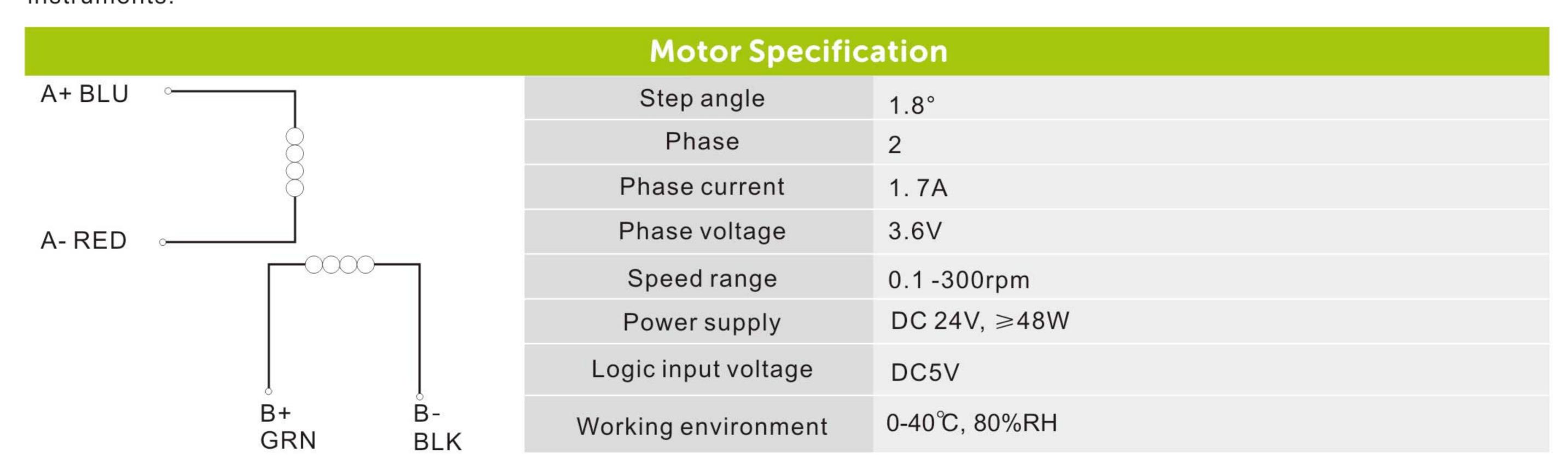


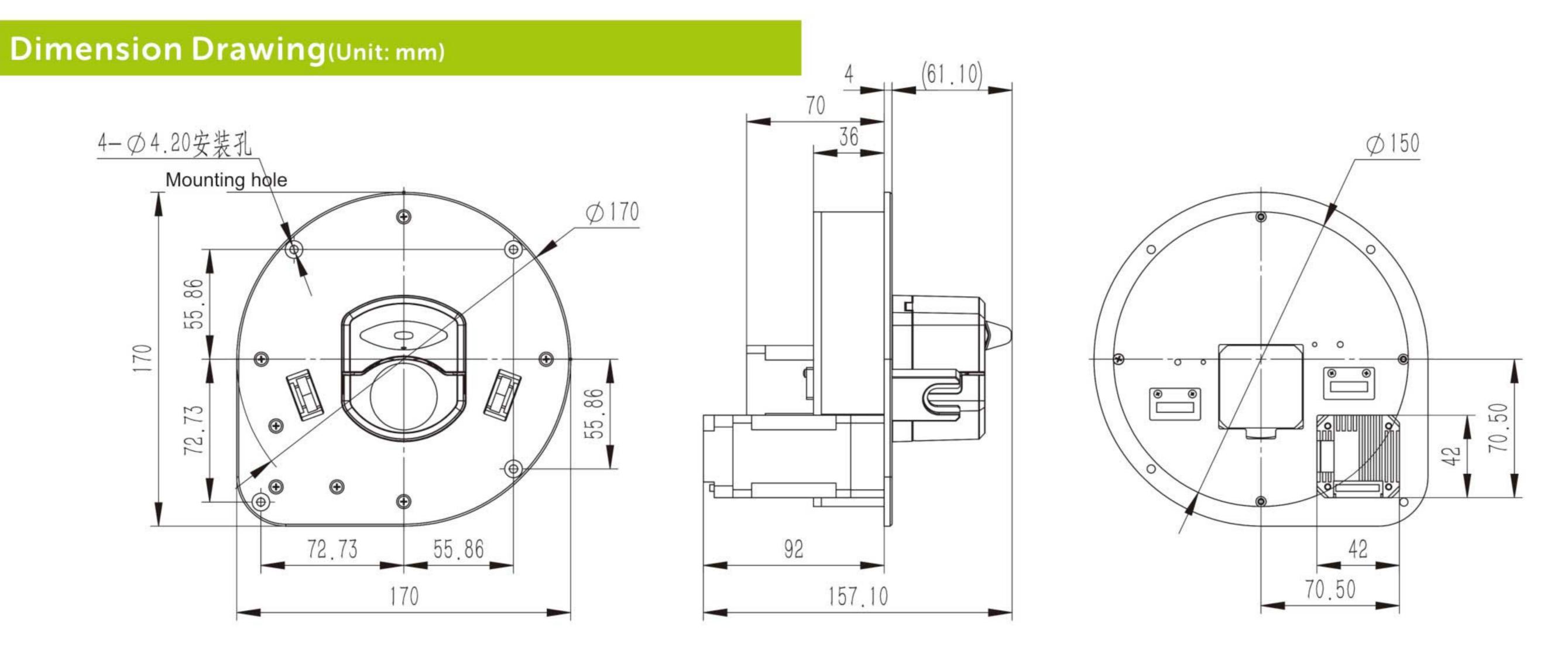
## **Product Introduction**

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

# **Product Features**

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







# Easy Load Pump Head







### Model Number | YZ1515x,YZ2515x

## **Typical Application**

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



3 rollers 6 rollers

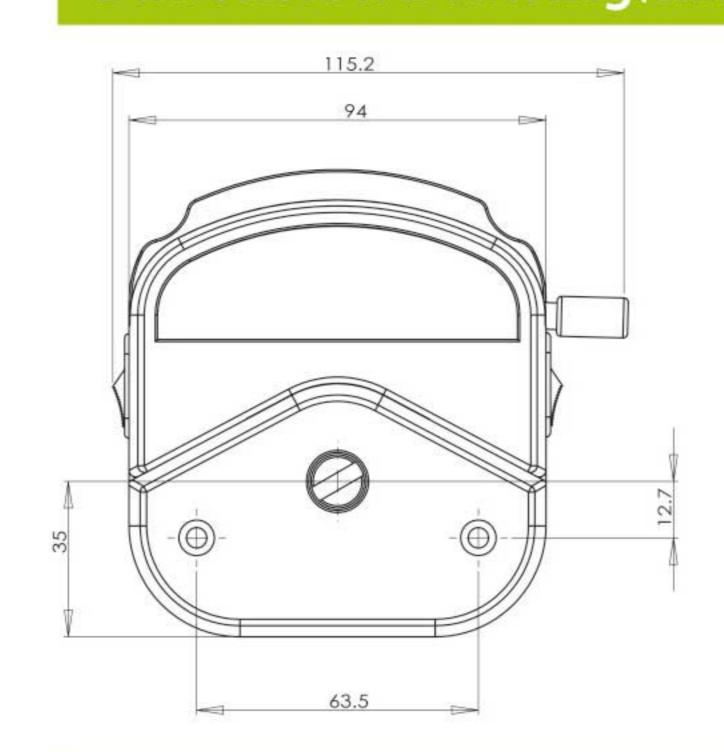
Experimental conditions:standard atmospheric pressure, room temperature at 20°C,the liquid is pure water, no pressure, no suction and lift.

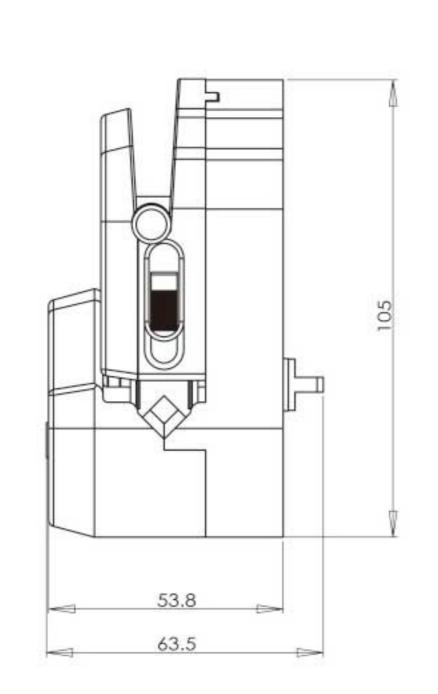
### Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data is for reference only. Material/Weight(kg) Tubing Max.Pressure(Mpa) Flow Rate(mL/min) **ID×Wall** Tubing Pump Head mL/r (0.1-600 rpm)thickness(mm) Intermittent Continuous **PSF** PPS 13# 0.007~42 $0.8 \times 1.6$ 0.07 14# 0.27 $1.6 \times 1.6$ 0.027~162 0.27 0.40 0.46 0.17 0.55 19# (3 rollers) (3 rollers) $2.4 \times 1.6$ 0.055~330 0.82 YZ1515x 16<sup>#</sup> 0.082~492 $3.1 \times 1.6$ 1.7 0.14 25# 0.24 0.17~1020 $4.8 \times 1.6$ 0.44 0.50 (6 rollers) (6 rollers) 2.9 0.10 $6.4 \times 1.6$ 0.29~1740 0.14 17# 3.8 0.07 $7.9 \times 1.6$ 0.38~2280 0.10 18# 1.7 15<sup>#</sup> $4.8 \times 2.4$ 0.17~1020 0.46 0.40 0.27 YZ2515x 0.17 24# 2.9 (3 rollers) (3 rollers) $6.4 \times 2.4$ 0.29~1740

### **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.

# Dimension Drawing(Unit: mm)





### Mounting several pump heads can increase the flow rates.



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



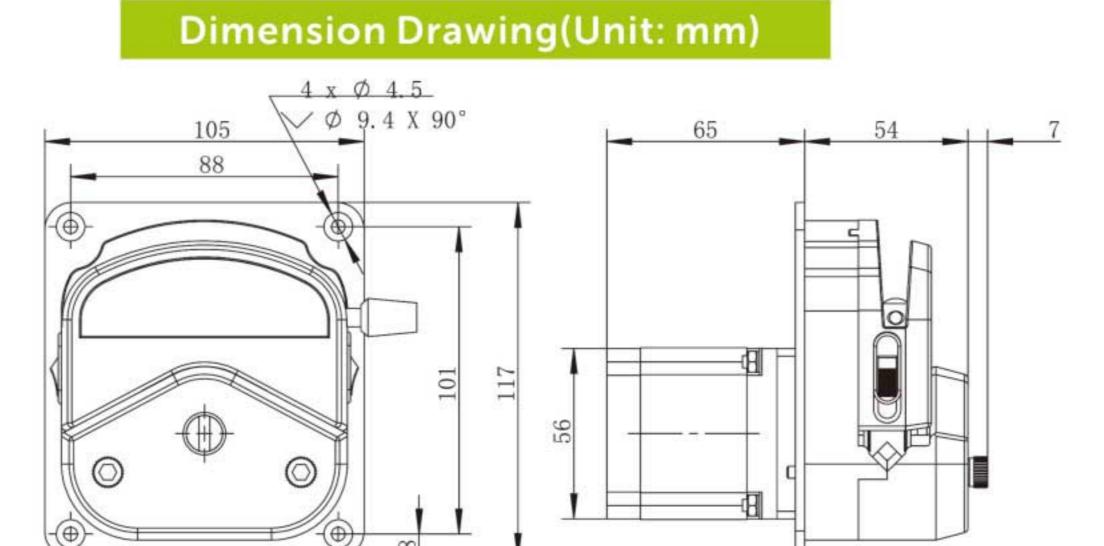


# OEM Product

# Easy Load Pump Head YZ1515x YZ2515x

# OEM-B130/YZ

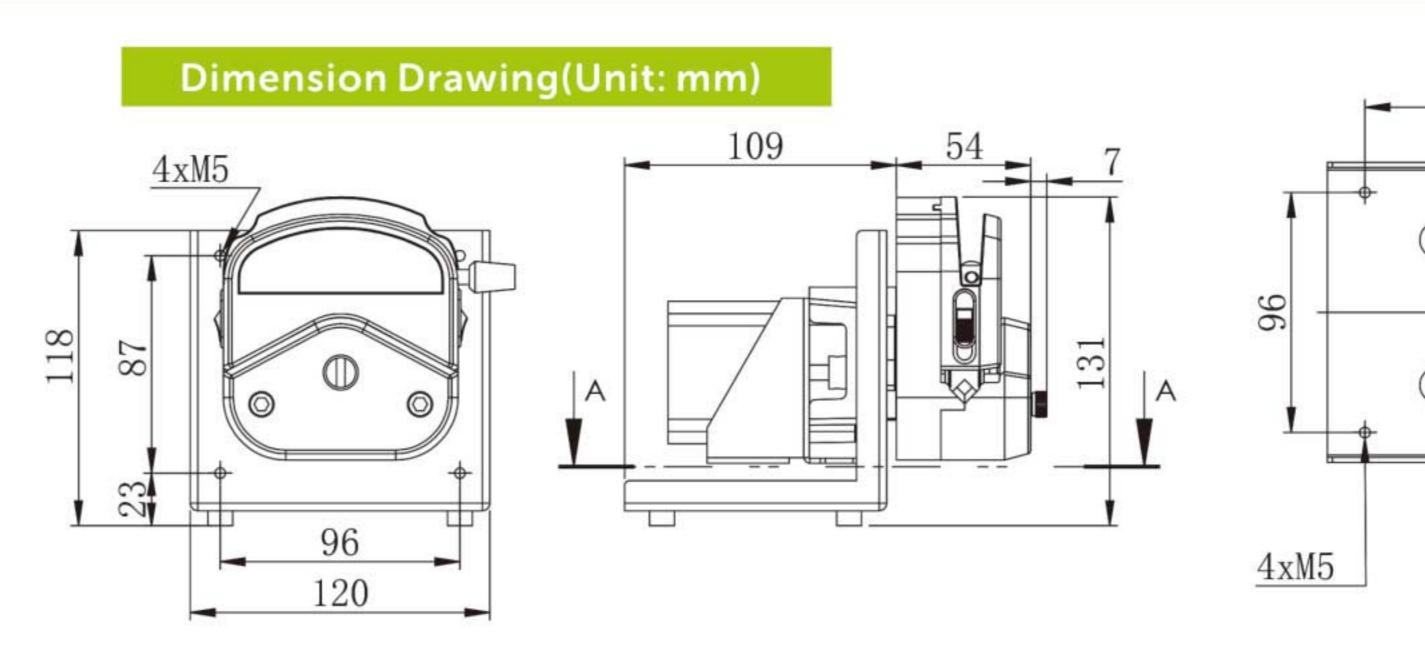




OEM-B130 Technical Specifications						
Speed range	0.1-350 rpm	Motor step angle	1.8°			
Flow rate range	0.007-1330mL/min	Motor phase voltage	3.3V			
Motor type	57stepper motor	Motor phase current	3.0A			
Motor phase number	2	Working environment	0-40°C, 80%RH			

# OEM-B19/YZ



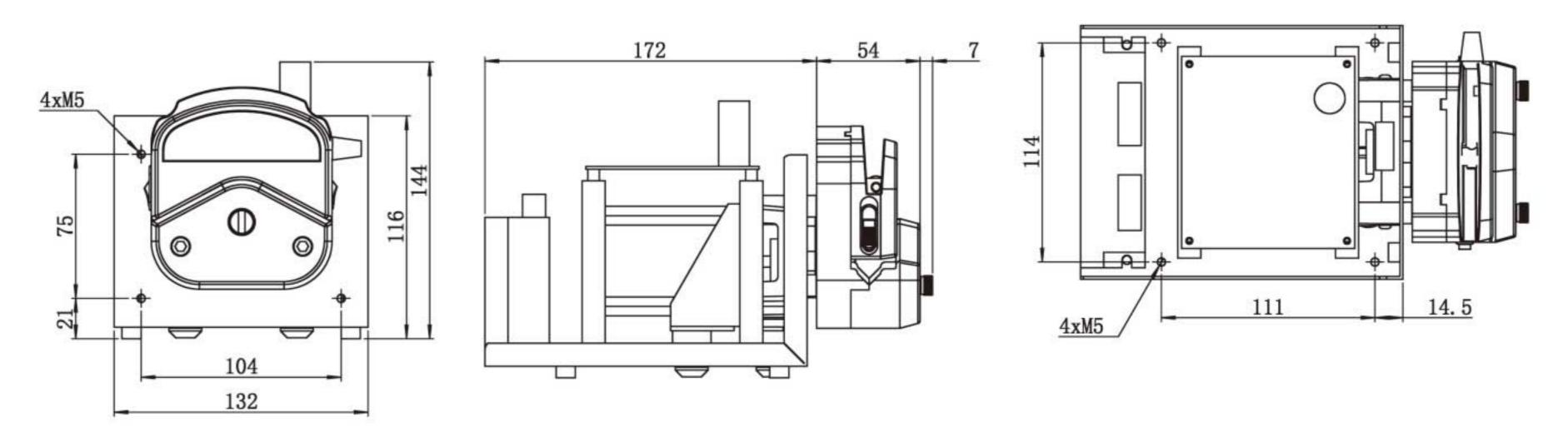


OEM-B19 Technical Specifications							
Speed range	0.1-350 rpm	Motor step angle	1.8°				
Flow rate range	0.007-1330mL/min	Motor phase voltage	3.3V				
Motor type	57stepper motor	Motor phase current	3.0A				
Motor phase number	2	Working environment	0-40°C, 80%RH				

# OEM-B242/B243/B244/YZ



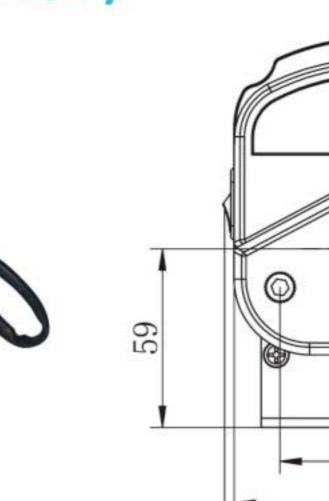




OEM-B242/B243/B244 Technical Specifications							
Motor type	Stepper motor		OEM-B242, Flow rate type				
Display	Industrial grade 4.3" LCD color display	Function type	OEM-B243, Dispensing type				
Control method	Touch screen and Mechanical keypad		OEM-B244, Multichannel filling type				
Speed range	≤600rpm	Marking anvironment	0.40°C 000/ DLI				
Max.flow rate	2280mL/min	Working environment	0-40°C, 80%RH				



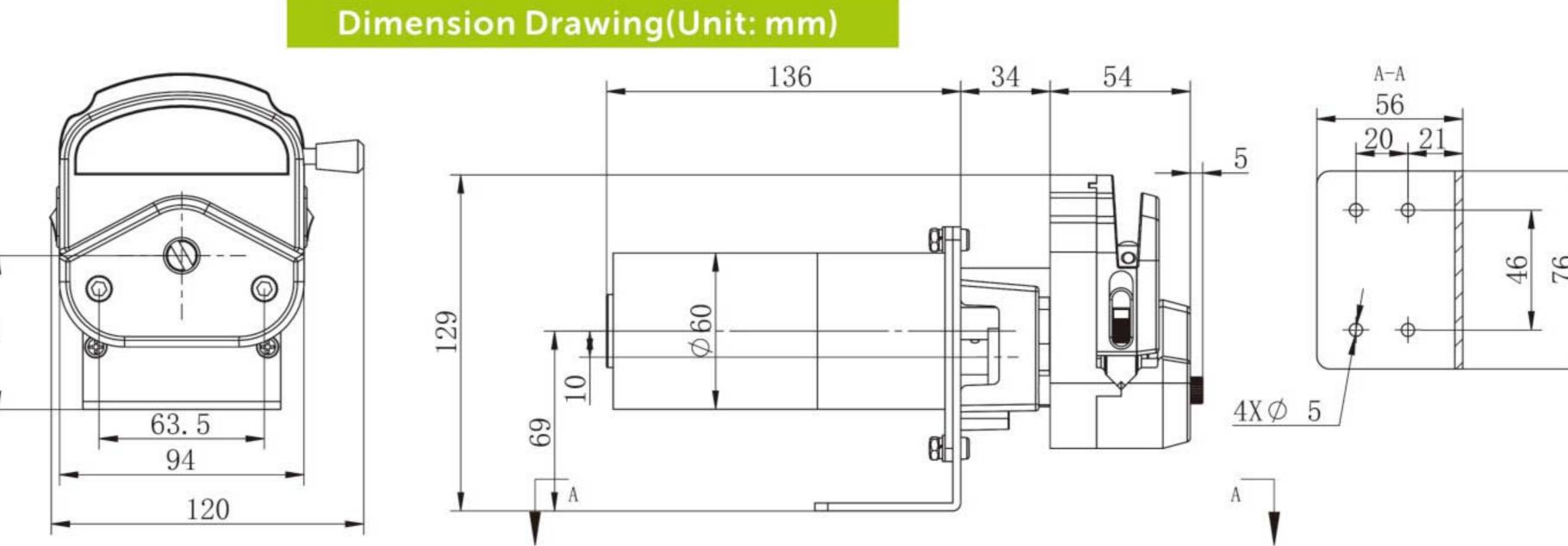
# OEM-Z109/YZ(DC motor)



120

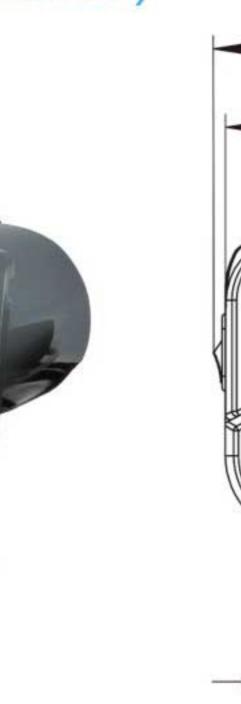
94

63. 5

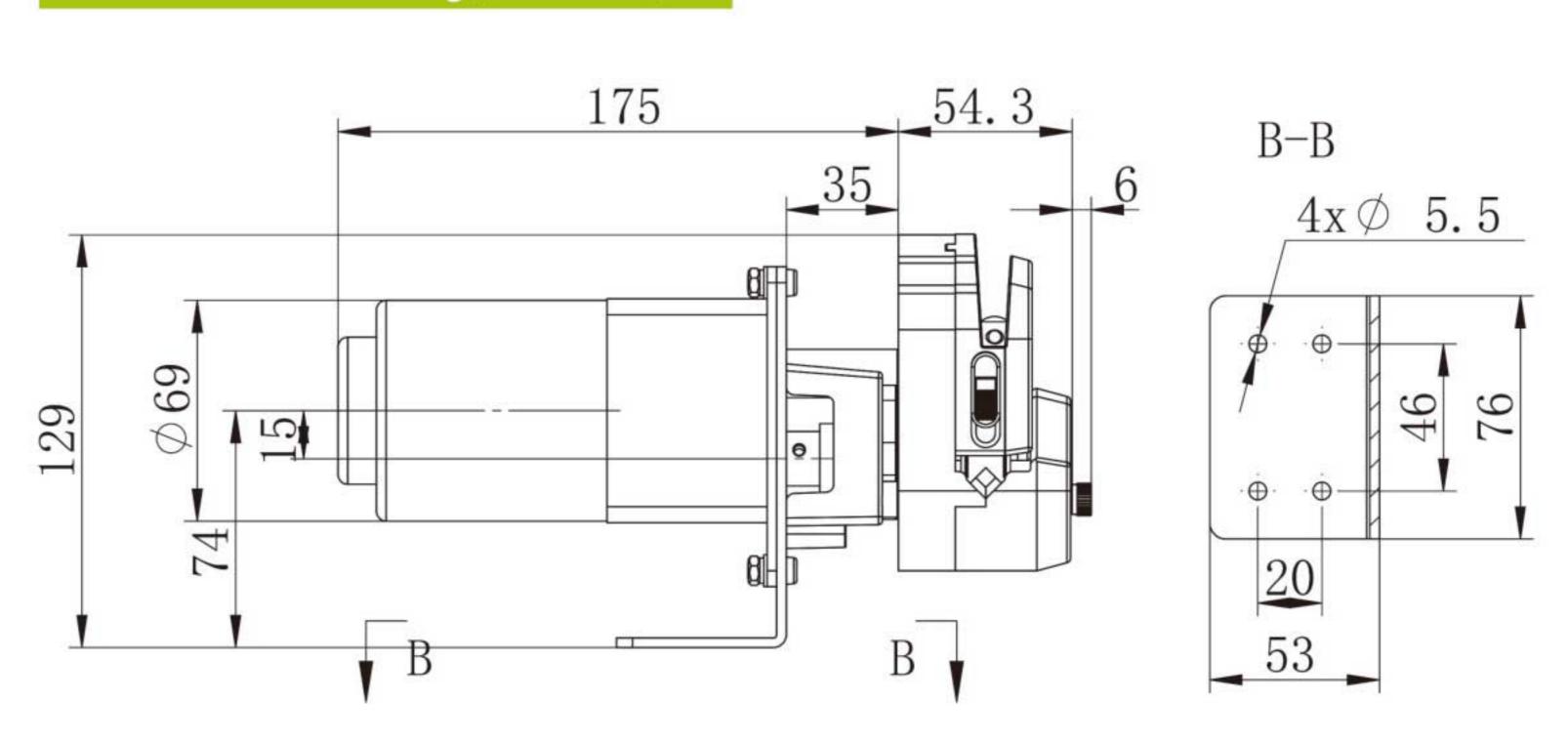


	OEM-Z109 Technical Specifications								
Model No.	Motor type	Power supply	Power(W)	Speed(rpm)	Speed error	Working environment			
OEM-Z109	DC geared motor	DC12V/2A	15	600	≤±10%	0-40°C, 80%RH			

# OEM-J013/YZ(AC motor)



# Dimension Drawing(Unit: mm)



	OEM-J013 Technical Specifications								
Model No.	odel No. Motor type Power supply Power(W) Speed(rpm) Speed error Working environmen								
OEM-J013	AC geared motor	AC220V(standard), AC110V(optional)	15	417	≤±10%	0-40°C, 80%RH			

# OEM-JT03/YZ(AC speed motor)



# Dimension Drawing(Unit: mm) $\begin{array}{c} 120 \\ 94 \\ \hline \\ 65 \\ \end{array}$

	OEM-JT03 Technical Specifications							
Model No.	el No. Motor type Power supply Power(W) Speed(rpm) Speed error Working environm							
OEM-JT03	AC speed motor	AC220V(standard), AC110V(optional)	15	30-300	≤±10%	0-40℃, 80%RH		





# Easy Load Pump Head

# YZ35-PPS, YZ35 (Aluminum Alloy)





# **Model Number**

YZ35-PPS, YZ35(Aluminum Alloy)



26#







### **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.

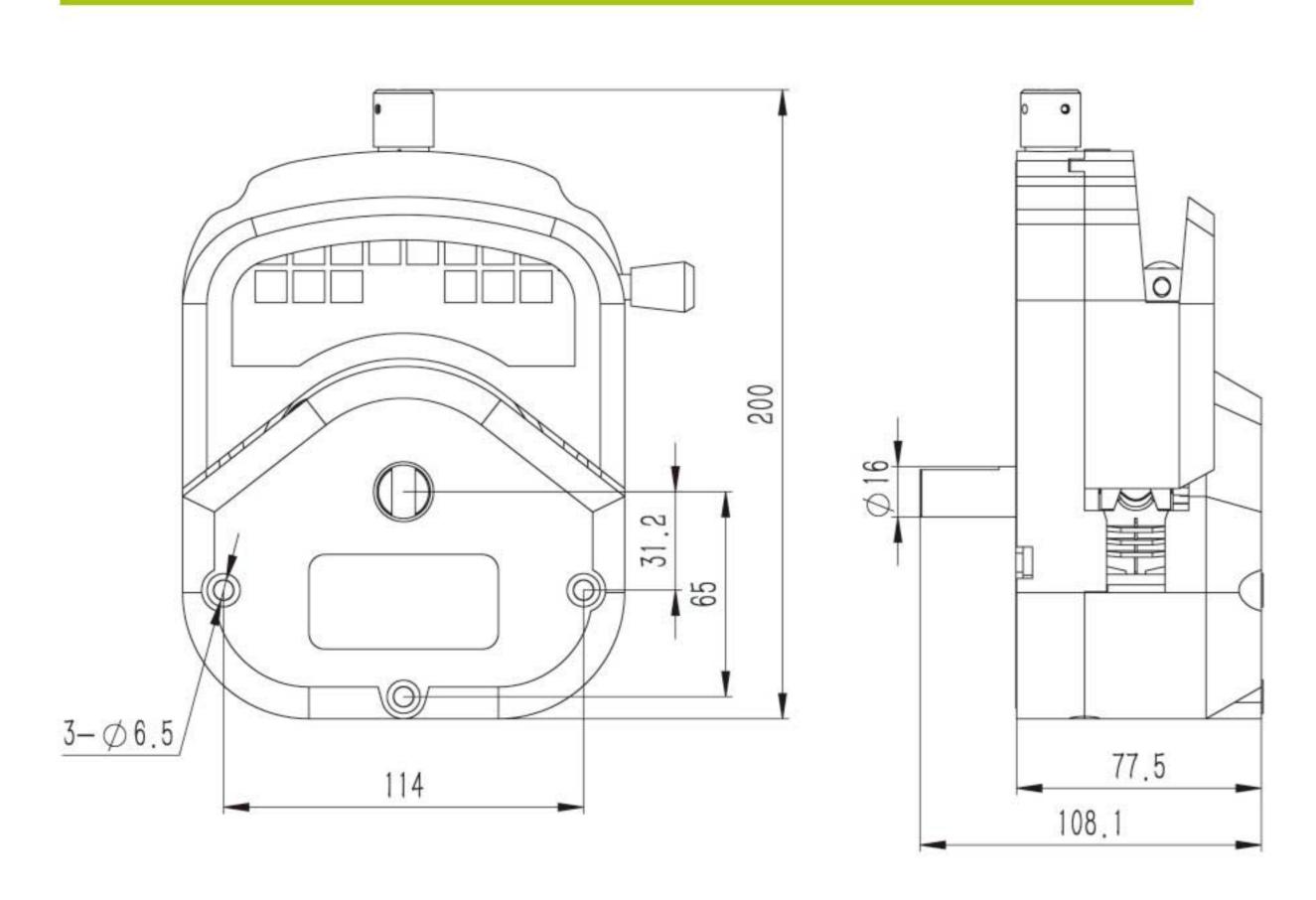


01/Fix the tubing; lower the tubing shaking duringworking; improve the stability and accuracy of flow rate.

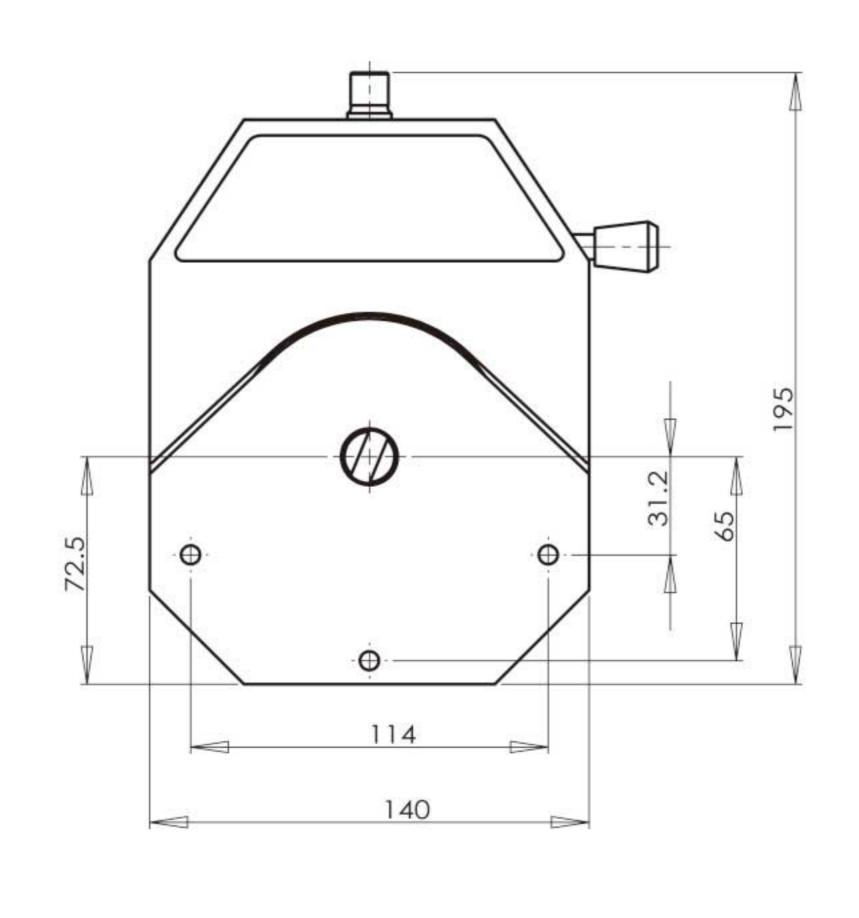
02/ Prevent the tubing wear, extend the tubing lifetime.

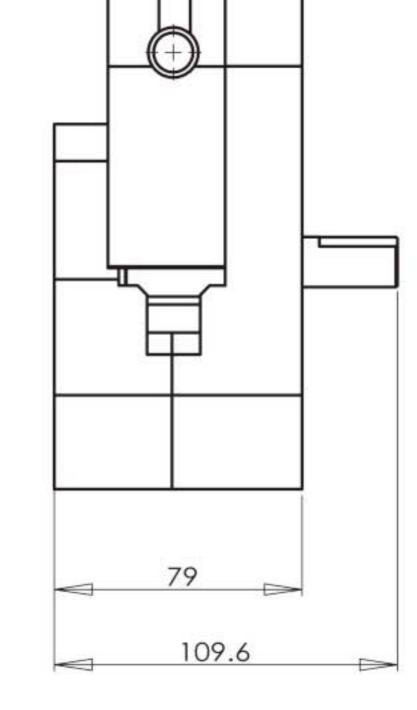


# Dimension Drawing(Unit: mm)



YZ35-PPS





YZ35-Aluminum Alloy

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

Technical Specifications										
		ID×Wall	Tubing Max.F	Tubing Max.Pressure(Mpa) Material/Weig						
Pump Head	Tubing	Tubing Thickness(mm)		Flow Rate(mL/min) (0–600rpm)	Intermittent	Continuous	Aluminum Alloy	PPS		
YZ35	26#	6.4×3.3	6.9	0.69~4200						
	73#	9.6×3.3	12.3	1.23~7400	0.27	0.2	4.36	1.50		
	82#	12.7×3.3	20	2~12000	0.14	0.1				



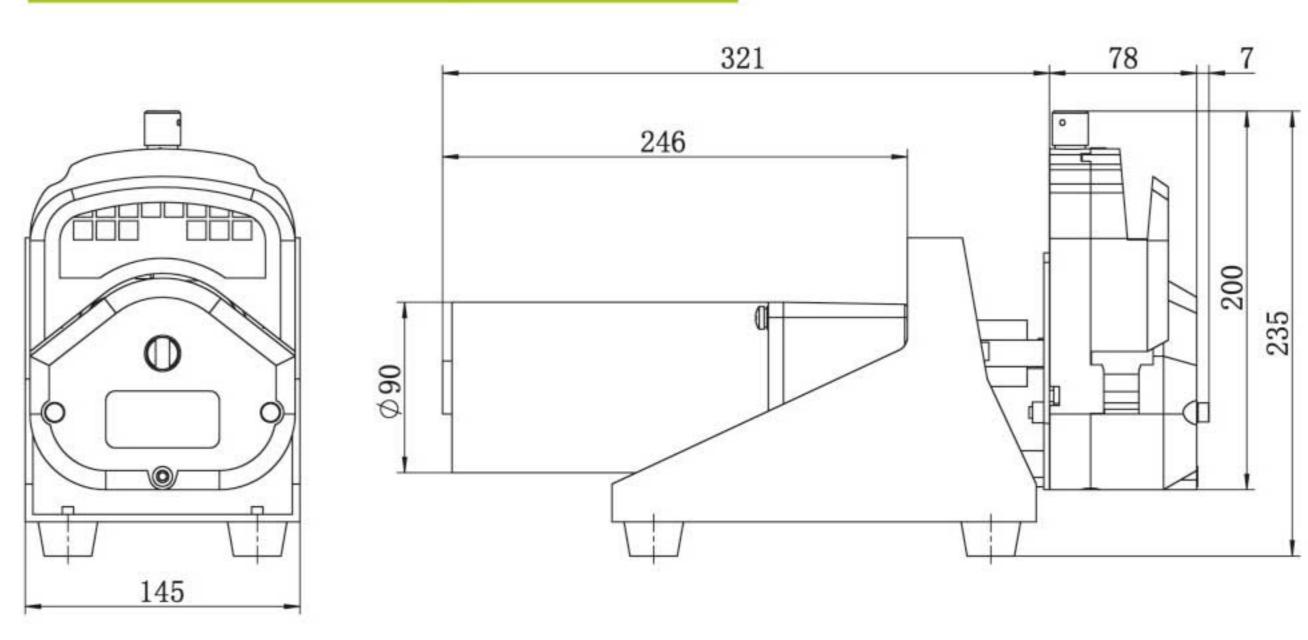
# **OEM Product**

# Easy Load Pump Head YZ35

# OEM-Z501/YZ35



# Dimension Drawing(Unit: mm)

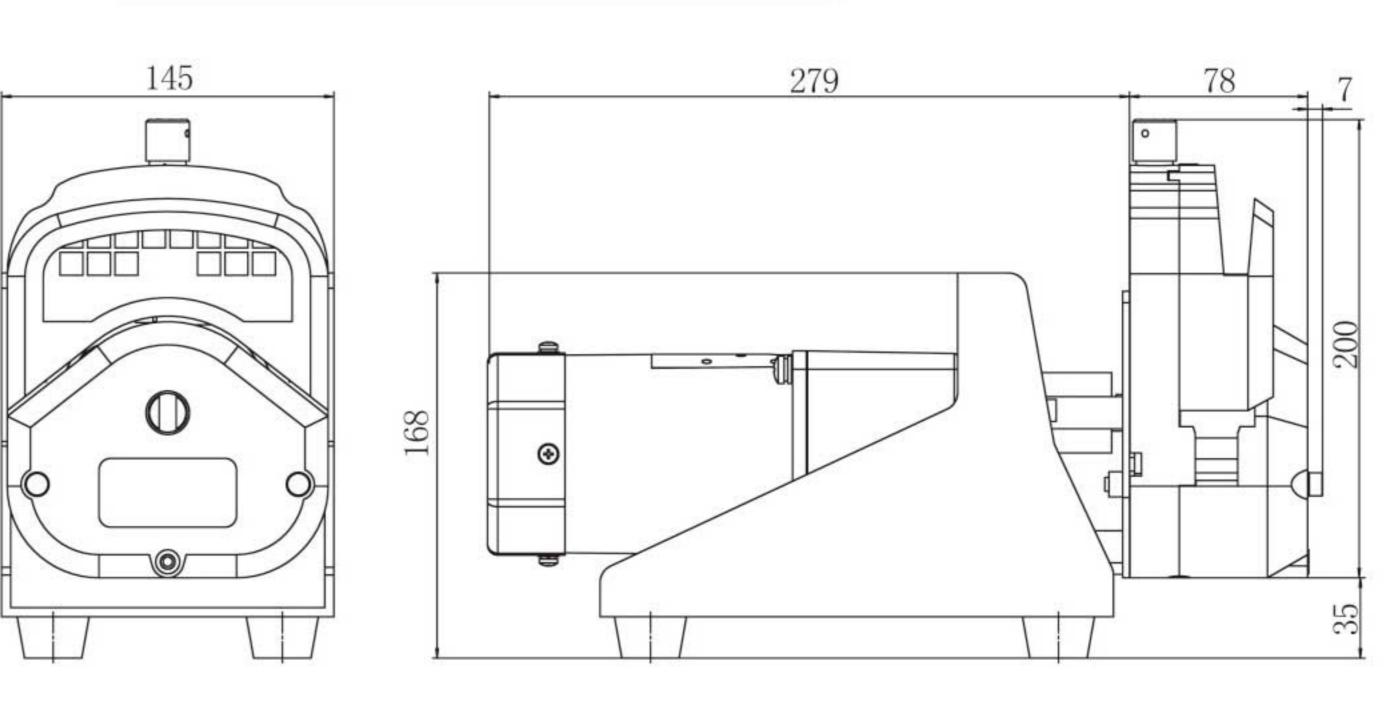


OEM-Z501 Technical Specifications								
Model No.	Motor type	Power supply	Power(W)	Speed(rpm)	Speed error	Working environment		
OEM-Z501	DC geared motor	DC24V/16A	250	600	≤±10%	0-40℃, 80%RH		

# OEM-J401/YZ35



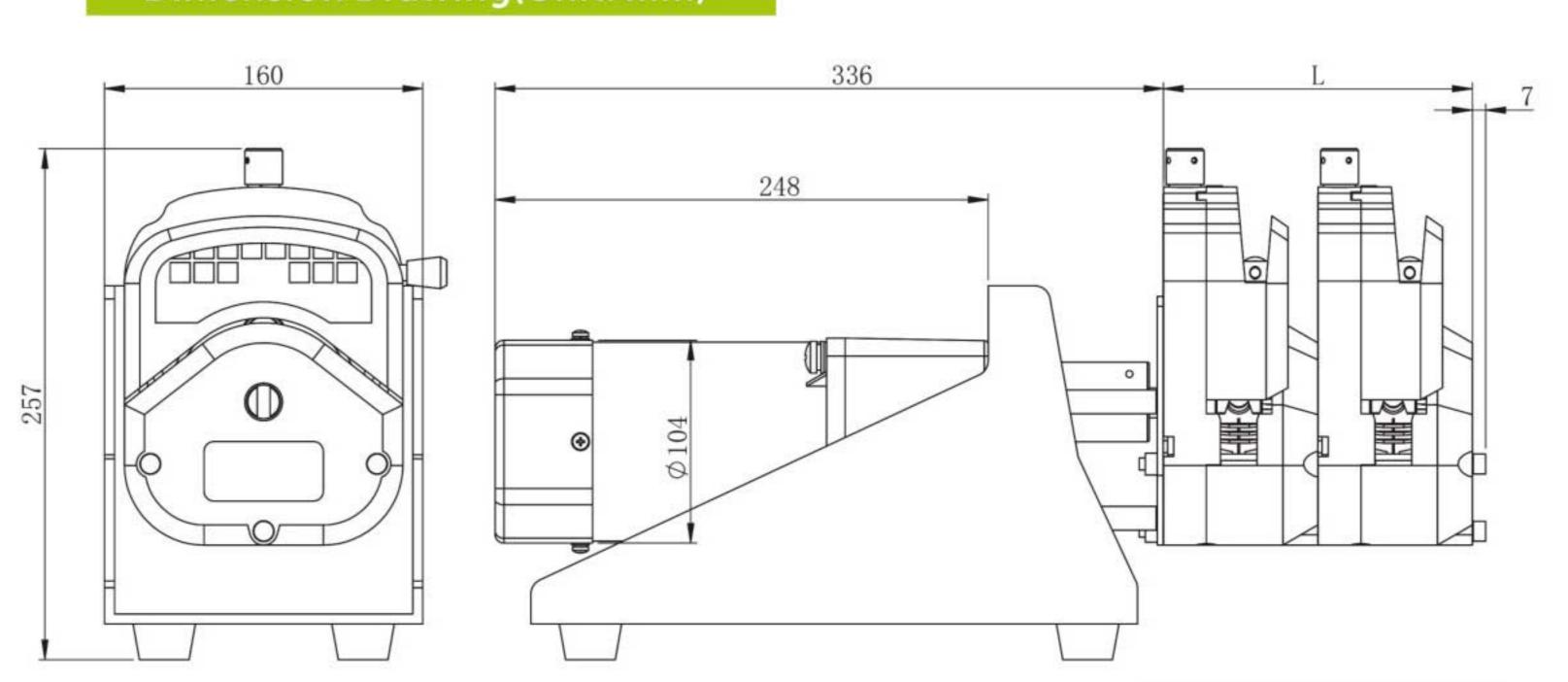
## Dimension Drawing(Unit: mm)



OEM-J401 Technical Specifications							
Model No.	del No. Motor type Power supply Power(W) Speed(rpm) Speed error Working environme						
OEM-J401	AC geared motor	AC220V(standard), AC110V(optional)	120	450	≤±10%	0-40℃, 80%RH	

# OEM-JT501/YZ35





OEM-JT501 Technical Specifications								
Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment			
OEM-JT501	AC speed motor	AC220V(standard), AC110V(optional)	200	45-450	≤±10%	0-40°C, 80%RH		





# Standard Pump Head

# SN25, SN15-14, SN15-16



(3 rollers)

# **Product Introduction**

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

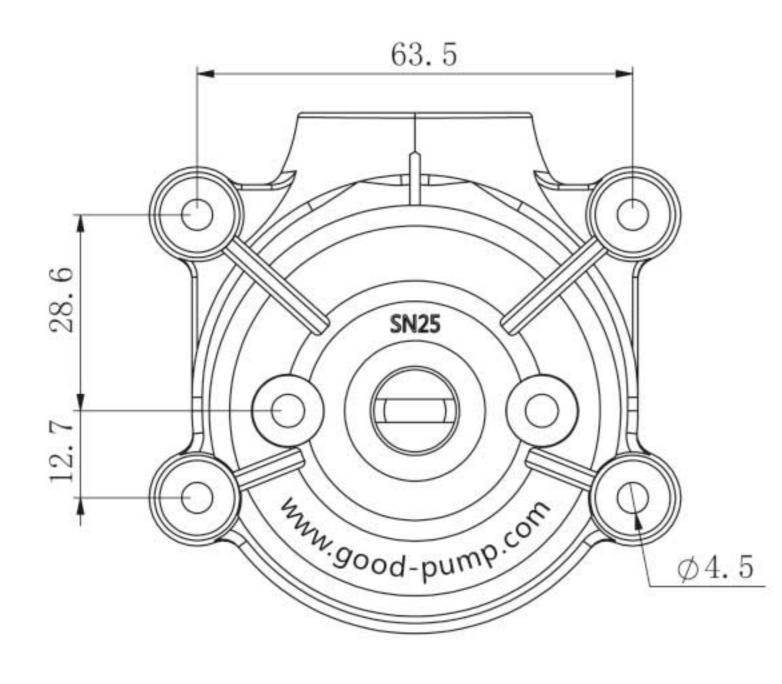
# **Model Number**

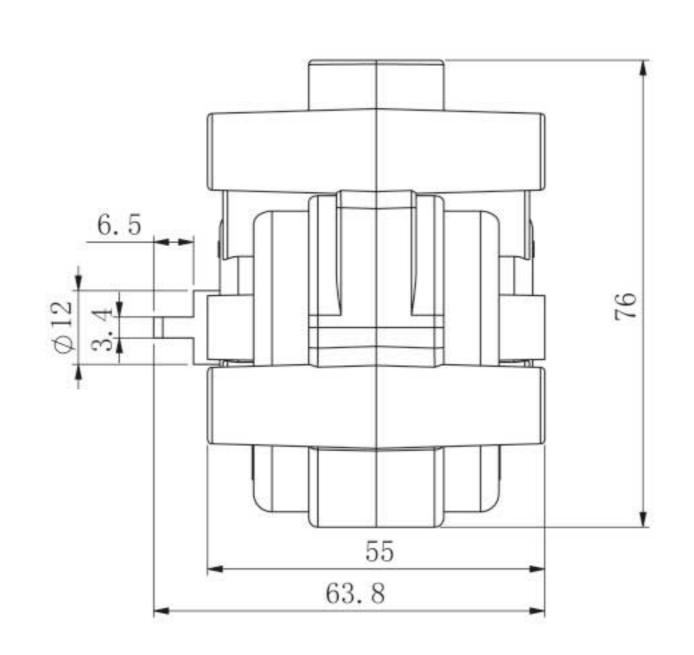
SN25, SN15-14, SN15-16

# **Typical Application**

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

# Dimension Drawing(Unit: mm)









SN15-14

SN15-16

# Tubing Installation Procedure

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



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



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



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

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

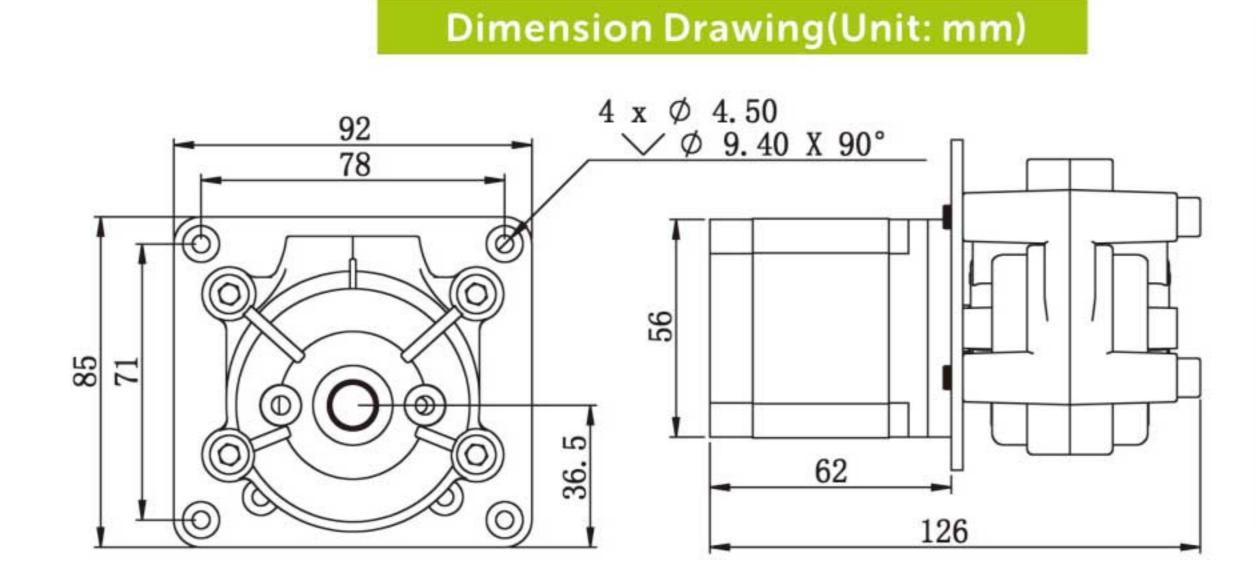
Technical Specifications									
MadalNia	Housing	Dallara Marana	Tubing		Flow Rate (mL/min)	Majabt (ka)			
Model No.	Material	Rollers Material	Tubing sizes	ID×Wall thickness	(0.1-600rpm)	Weight (kg)			
SN15-14		C 304 stainless steel	14#	$1.6 \times 1.6 (mm)$	0.024~144				
SN15-16	PC		16#	$3.1 \times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



# **OEM Product**

# **Standard Pump Head Series**

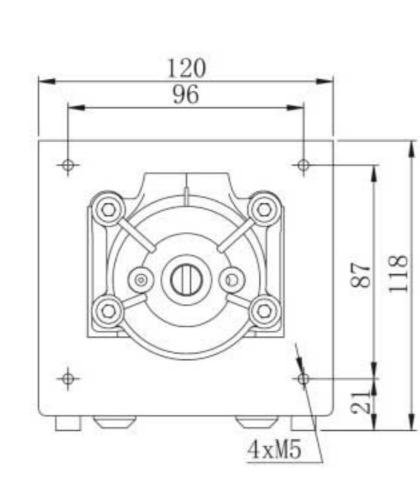
# OEM-B130/SN Series

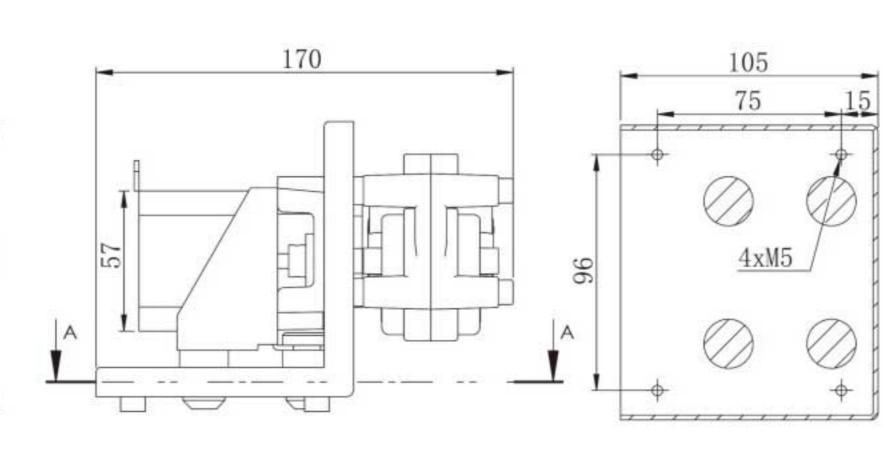


Model No.	OEM-B130
Speed range	0.1-350 rpm
Flow rate range	0.024-875mL/min
Motor type	57 stepper motor
Motor phase number	2
Motor step angle	1.8°
Motor phase voltage	3.3V
Motor phase current	3.0A
Working environment	0-40°C, 80%RH

# OEM-B19/SN Series





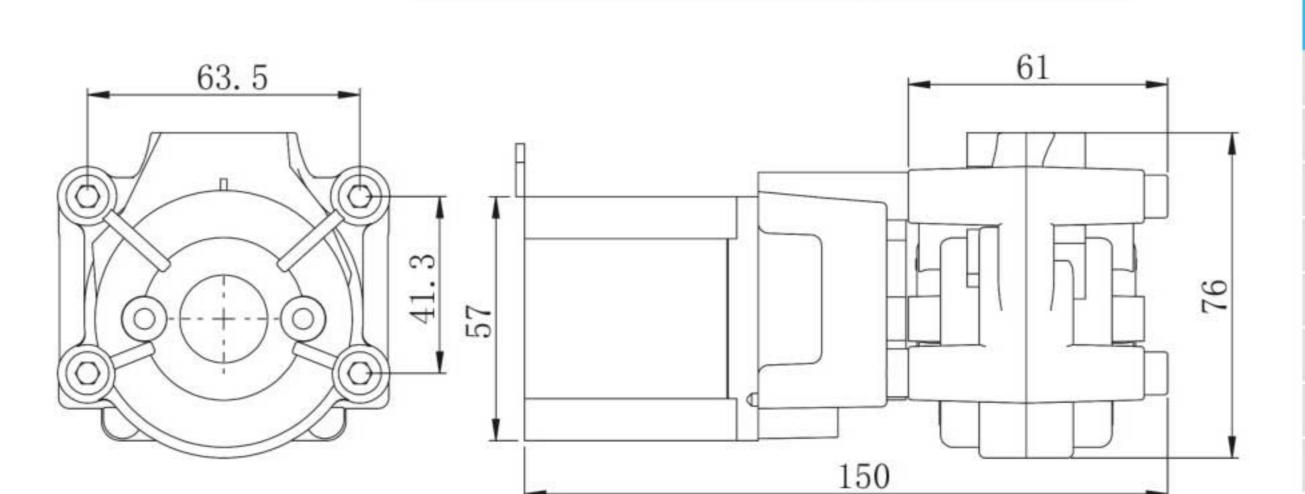


**Dimension Drawing(Unit: mm)** 

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

# OEM-B11/SN Series



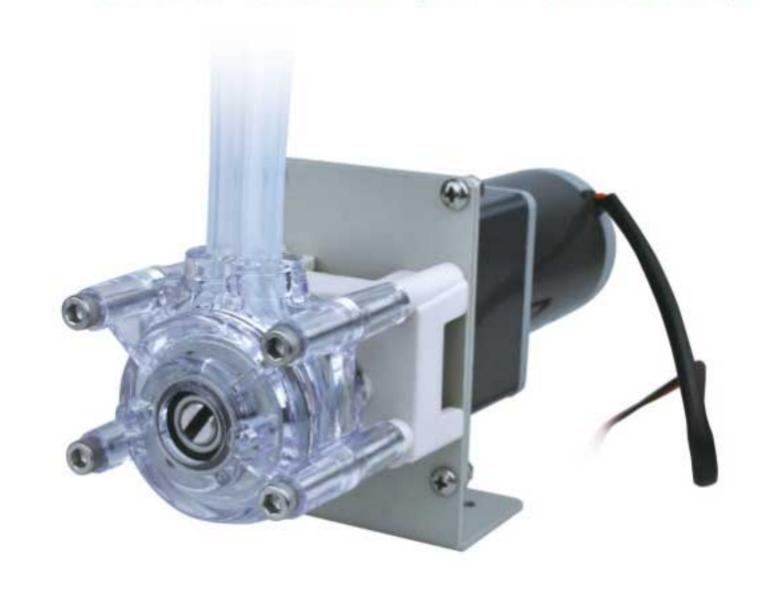


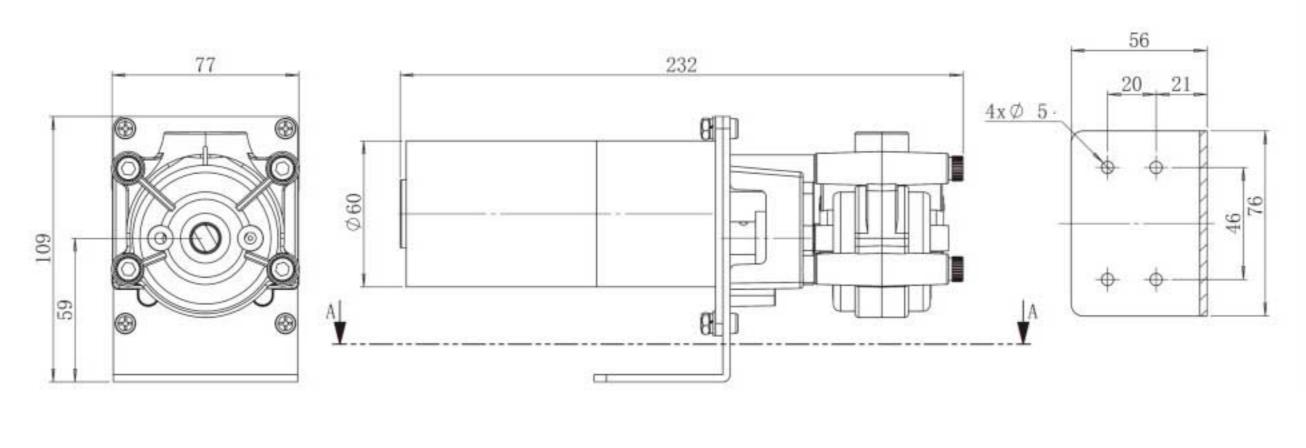
Model No.	OEM-B11
Speed range	0.1-350 rpm
Flow rate range	0.024-875mL/min
Motor type	57 stepper motor
Motor phase number	2
Motor step angle	1.8°
Motor phase voltage	3.3V
Motor phase current	3.0A
Working environment	0-40°C, 80%RH

# OEM-Z109 (DC motor)/SN Series



Dimension Drawing(Unit: mm)

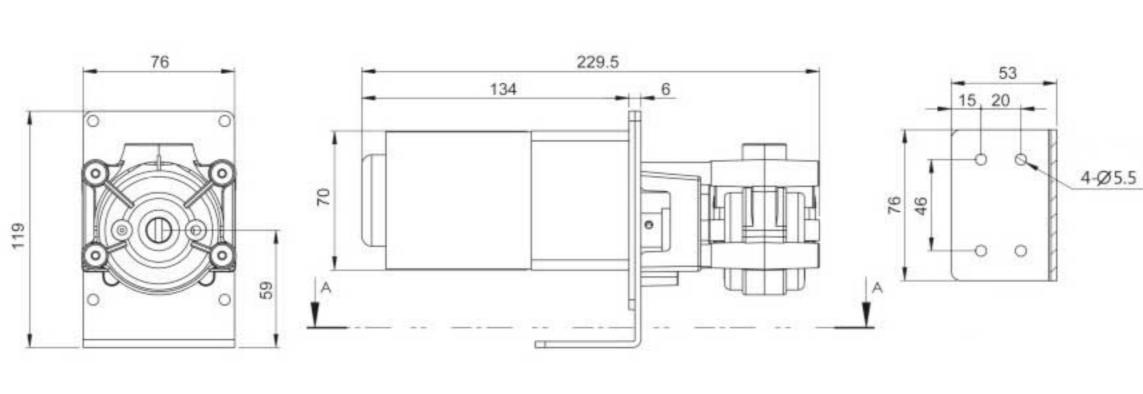




Model No.	OEM-Z109
Mix.flow rate	1500mL/min
Motor type	DC geared motor
Voltage	DC12V/2A
Power	15W
Speed	600rpm
Speed error	≤±10%
Working environment	0-40°C, 80%RH

# OEM-JT03 (AC motor)/SN Series





OEM-JT03			
7.2-750mL/min			
AC speed motor			
AC220V(standard)			
DC110V(optional)			
15W			
600rpm			
≤±10%			
0-40℃, 80%RH			



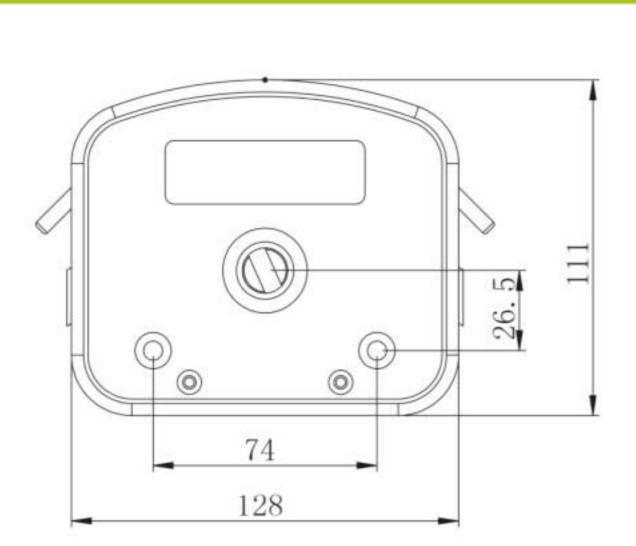


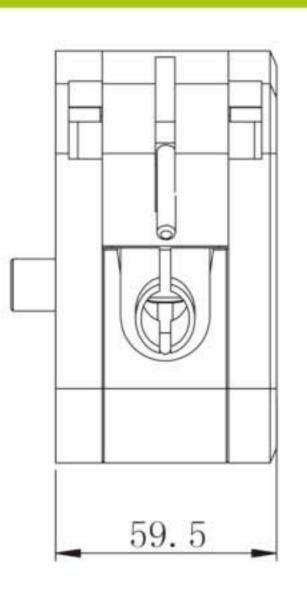
# Fast Load Pump Head

# DZ25-3L, DZ25-6L

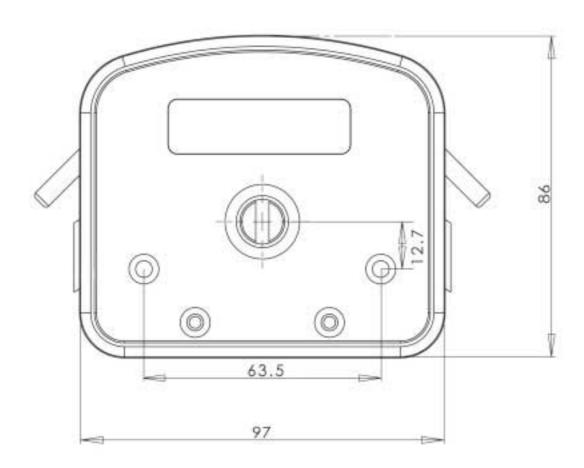


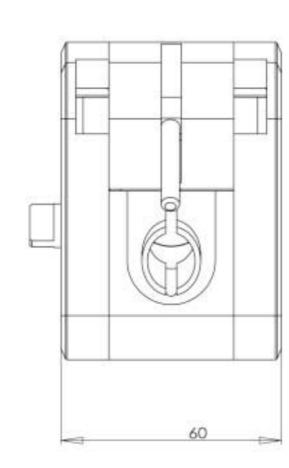
# Dimension Drawing(Unit: mm)





DZ25-6L Dimension





DZ25-3L Dimension

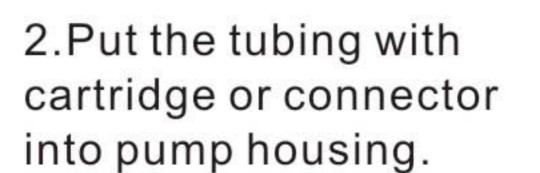
### **Product Introduction**

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

### **Model Number**

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

# Tubing Installation Procedure



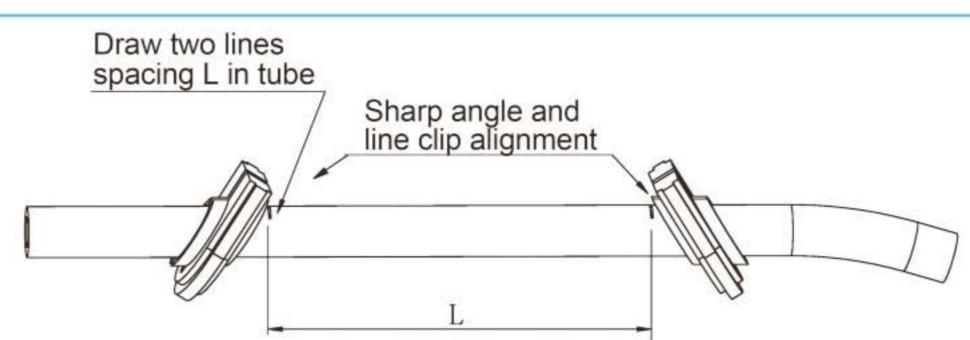


1.Lift both side levers, take off the upper block.



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





**Tubing Clamp** 

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

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

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

Technical Specifications							
		Tubing Clamp		Tubing	Flow Rate (mL/min)		
Model No.	Housing Material	Material	Tubing Sizes	ID×Wall Thickness	(0.1–600rpm)	Weight (kg)	
		PP	15#	$4.8 \times 2.4 (mm)$	0.3~1800		
			24#	$6.4 \times 2.4 (mm)$	0.55~3300	1.86/0.86	
DZ25-6L	Aluminum alloy/PPS		35#	$7.9 \times 2.4 (mm)$	0.8~4800		
			36#	$9.6 \times 2.4 (mm)$	1~6000		
			15#	$4.8 \times 2.4 (mm)$	0.211~1264		
D 705 01	PPS	PP	24#	$6.4 \times 2.4 (mm)$	0.385~2310	0.5	
DZ25-3L			35#	$7.9 \times 2.4 (mm)$	0.508~3050	0.5	
			36#	$9.6 \times 2.4 (mm)$	0.6~3600		





4xM5

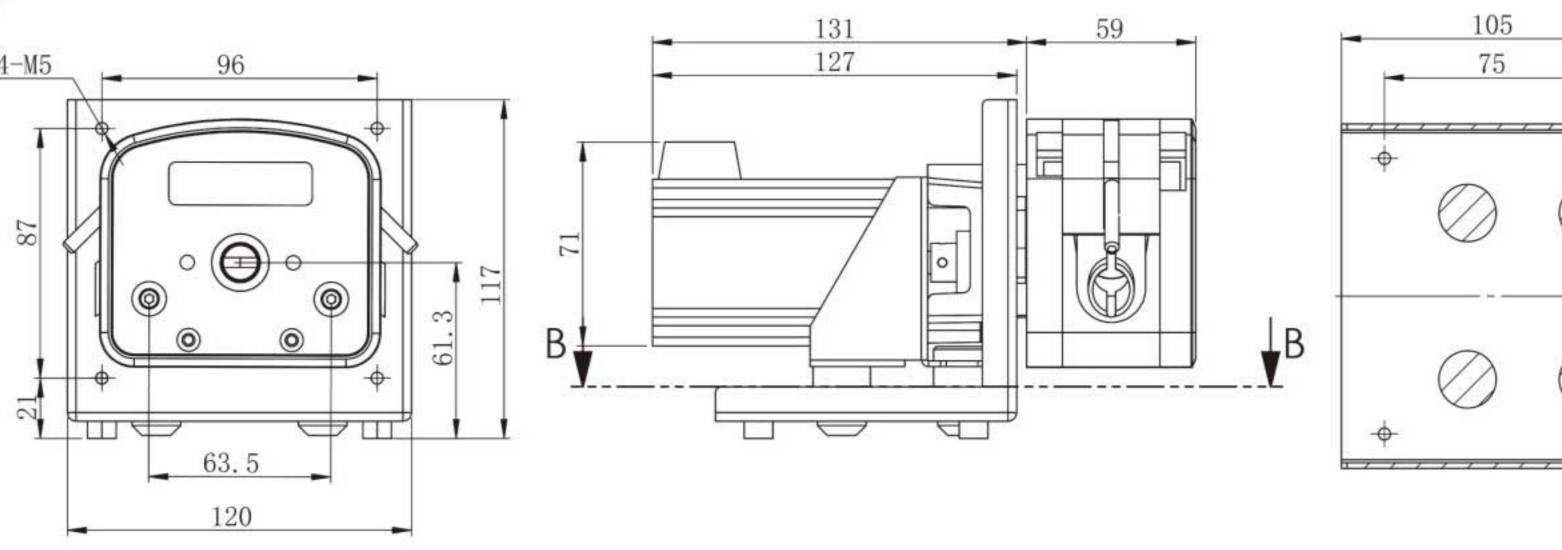
# OEM Product

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

# OEM-B501/DZ25-3L(servo motor)

# Date: 0225-31. servero. Ma. 20.

# Dimension Drawing(Unit: mm)

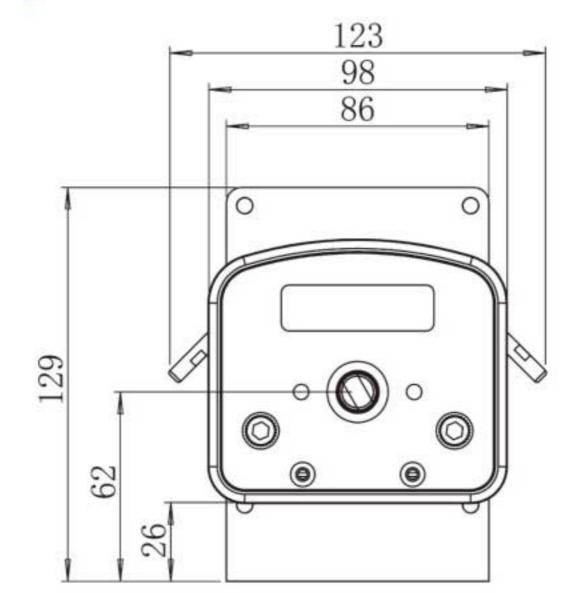


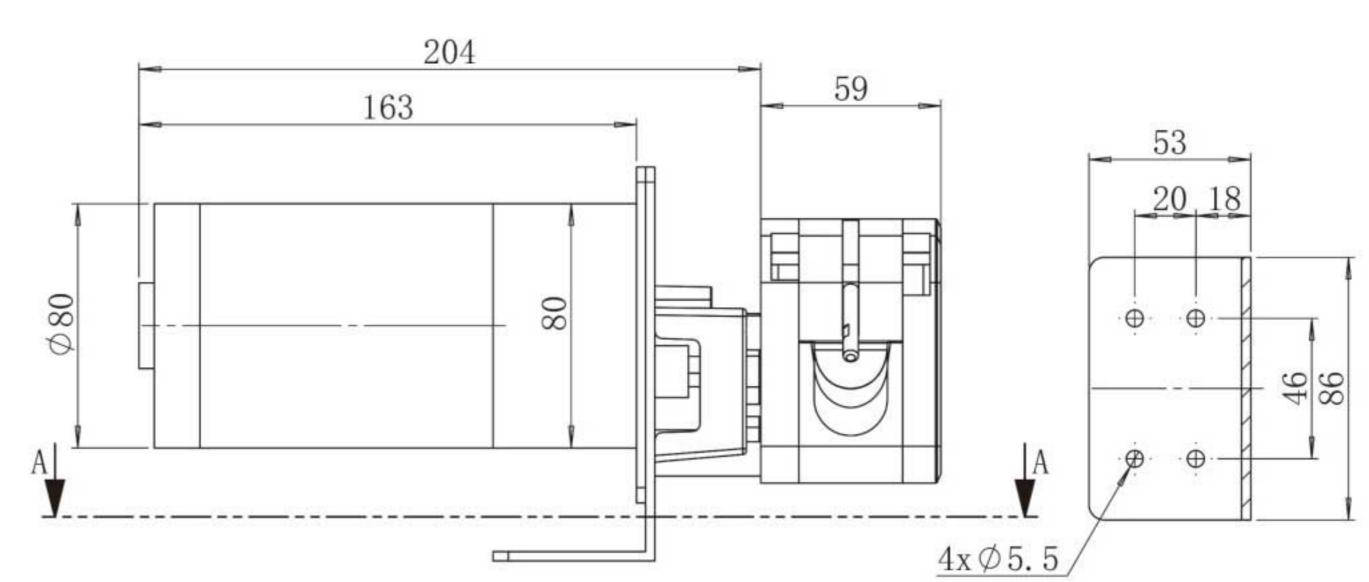
OEM-B19 Technical Specifications						
Speed range	0.1-600 rpm	External control start and stop	Switch signal (default 5V)			
Speed control	Digital knob(Optional)	External control speed	0-5V, 4-20mA(standard), 0-10V(optional)			
Display	OLED(Optional)	Communication interface	RS485(Modbus protocol, RTU mode)			
Control mothod	Toggle switch control start and stop, direction (optional)	Motor type	Servo motor			
Control method		Voltage	DC24V/1A(mainboard) DC36V/3A(driver)			

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

### Dimension Drawing(Unit: mm)



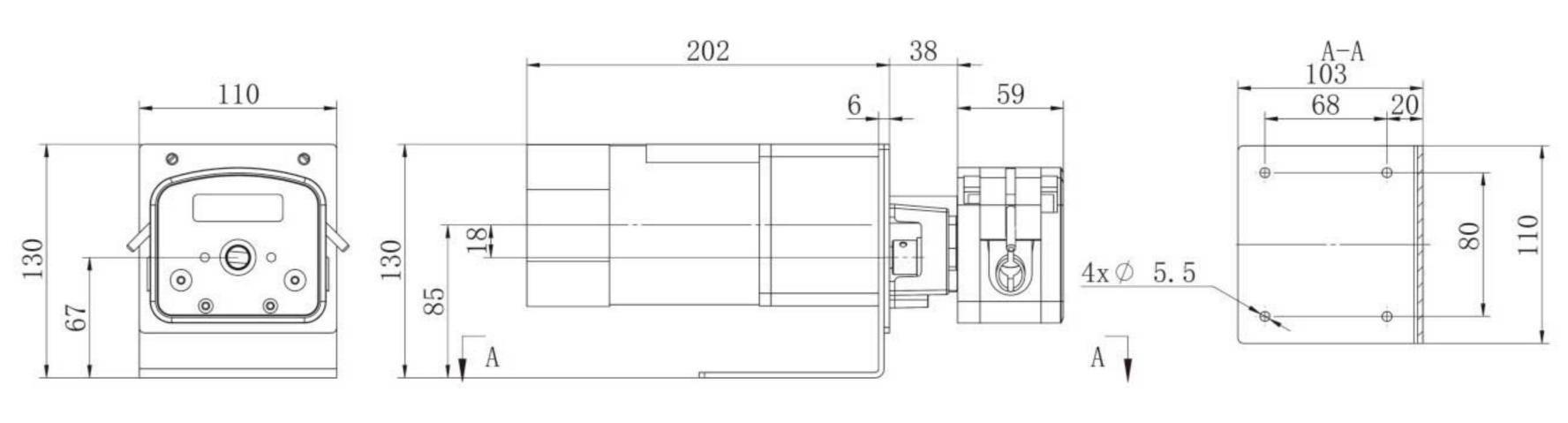




OEM-Z402 Technical Specifications							
Model No. Motor type Power supply Power(W) Speed(rpm) Speed error Working environment							
OEM-Z402	DC geared motor	DC24V/2.5A	40	600	≤±10%	0-40°C, 80%RH	

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





OEM-JT12 Technical Specifications							
Model No.	Motor type	Power supply	Power(W)	Speed(rpm)	Speed error	Working environment	
OEM-JT12	AC speed motor	AC220V(standard), AC110V(optional)	60	43-430	≤±10%	0-40℃, 80%RH	



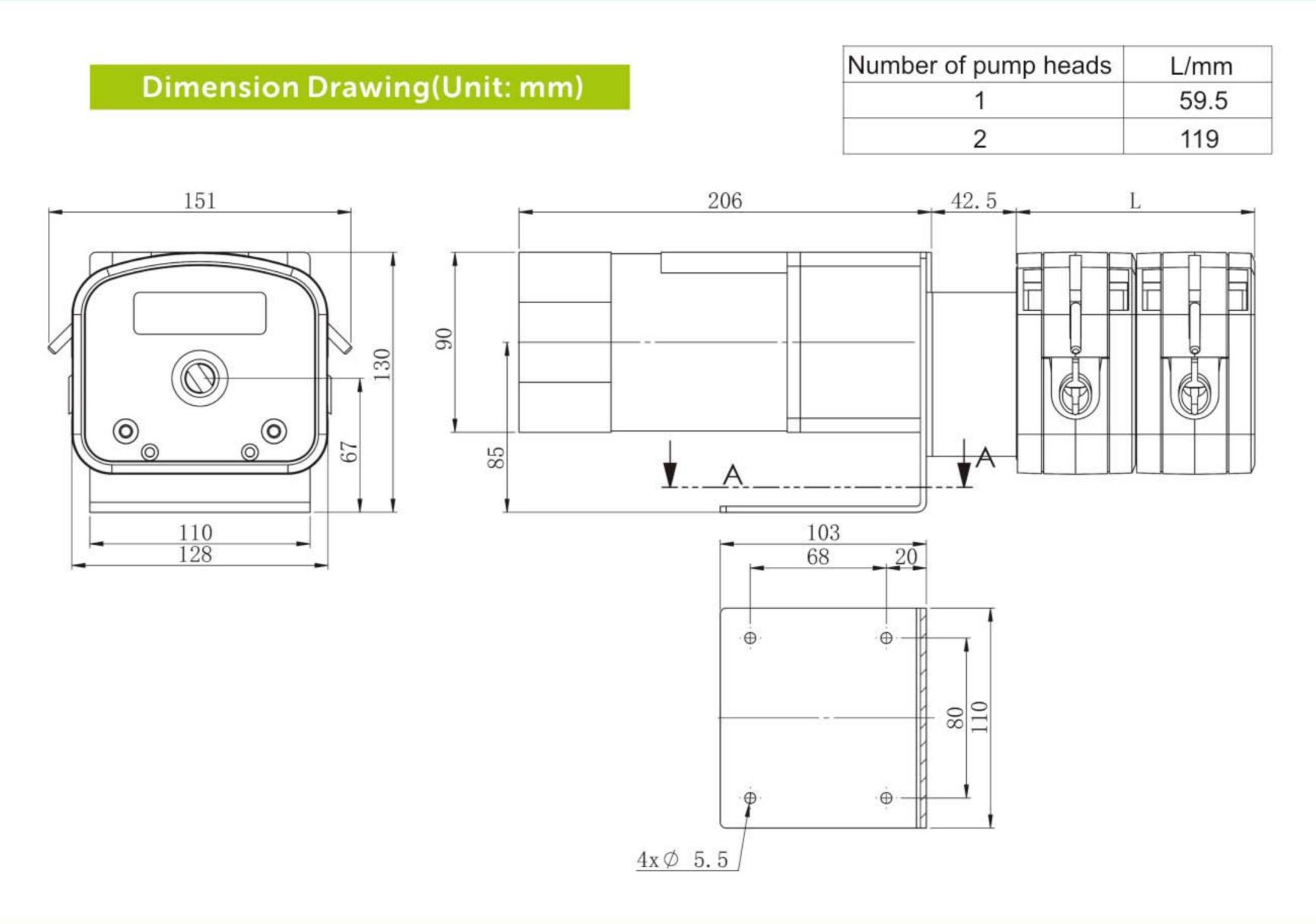


# OEM Product

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

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

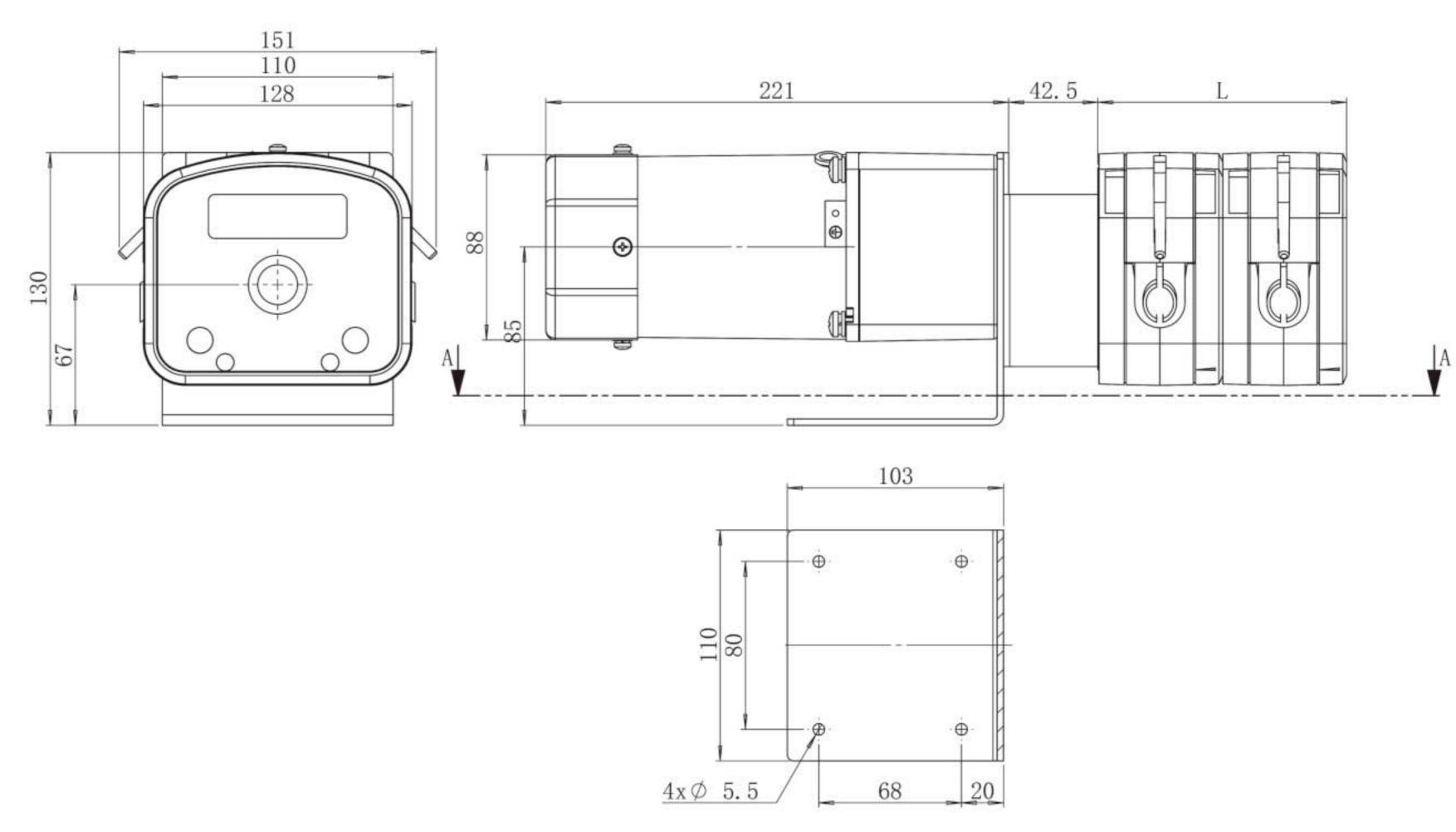




OEM-J402 Technical Specifications							
Model No.	odel No. Motor type Power supply Power(W) Speed(rpm) Speed error Working envi						
OEM-J402	AC motor	AC220V(standard), AC110V(optional)	120	450	≤±10%	0-40℃, 80%RH	

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





OEM-JT407 Technical Specifications							
Model No. Motor type Power supply Power(W) Speed(rpm) Speed error						Working environment	
OEM-JT407	AC motor	AC220V(standard), AC110V(optional)	120	45-450	≤±10%	0-40°C, 80%RH	



### Low Pulsation Pump Head

#### DY15, DY25



#### **Product Introduction**

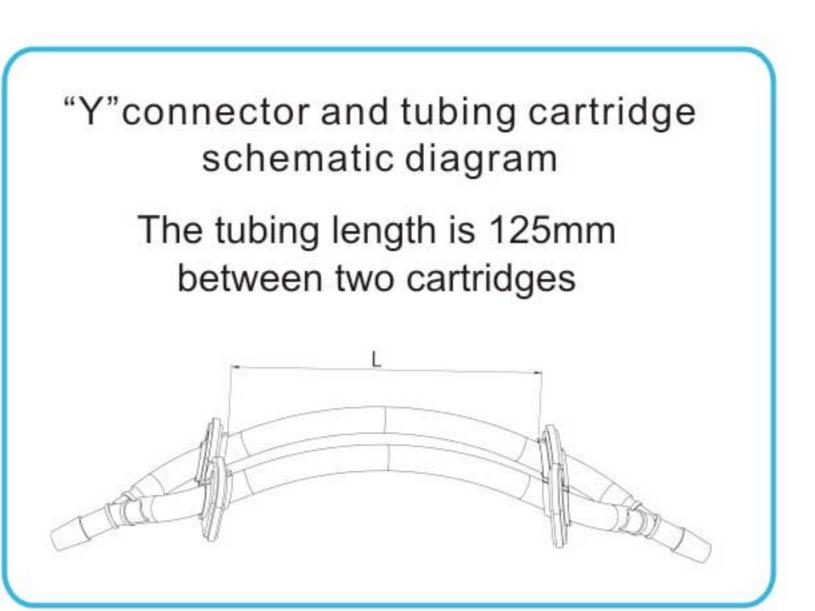
The 'low pulsation' pump head is specialized for high precision filling. Through the phase difference between the two sets of rollers, make the pulse crest and trough complementary, reducing the fluid pulsation effectively, reach high precision liquid transferring.

#### **Model Number**

DY15, DY25

#### **Typical Application**

High precision dosing micro liquid.



#### **Tubing Installation Procedure**

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

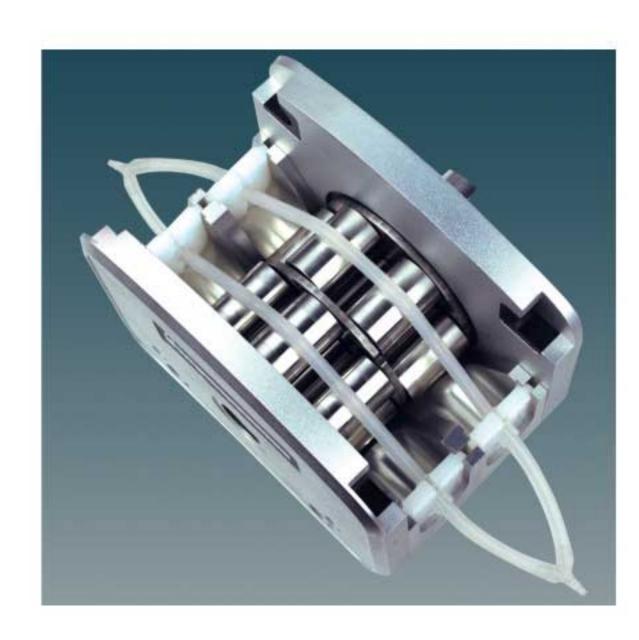


2.Put the tubing with tubing clamp into pump housing.

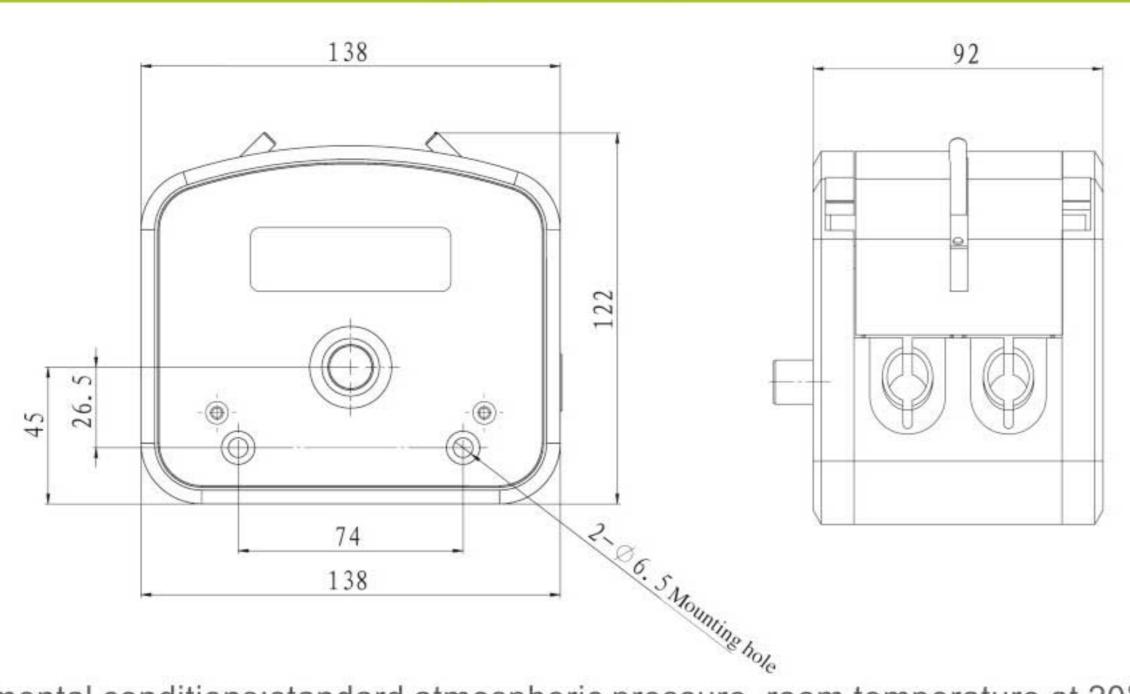


3.Install the upper block, put down the levers to lock the block.

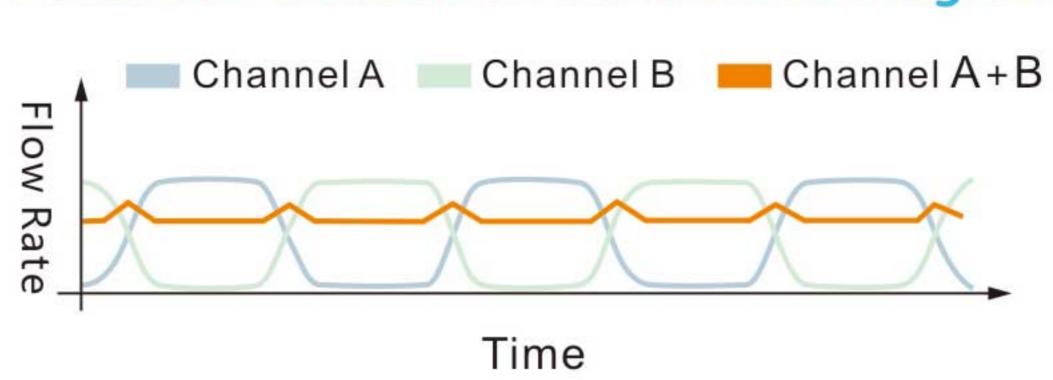




#### Dimension Drawing(Unit: mm)



#### **Pulsation Reduction Schematic Diagram**



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

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

### Technical Specifications

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





## OEM Product

#### DC Motor OEM

OEM-Z Series							
Model No.	Pump head	Motor type	Power supply	Power(W)	Speed(rpm)	Speed error	Working environment
OEM-Z109	V74545	Ф60 DC motor	DC12V/2A	15	600		
OEM-Z205	YZ1515x,	Ф70DC motor	DC12V/3.5A	25	300		
OEM-Z208	YZ2515x, MC Series	Ф70 DC motor	DC12V/3.5A	25	600		
OEM-Z216	SN Series	Ф70 DC motor	DC12V/2A	25	450		
OEM-Z218	014 001103	Ф70 DC motor	DC12V/2A	25	600		
OEM-Z402	DZ25-3L	Ф80 DC motor	DC12V/2.5A	40	600	± 10%	0-40°C, 80%RH
OEM-Z501	YZ35	Ф90 DC motor	DC12V/16A	250	600		
OEM-Z502		Ф90 DC motor		250	600		
OEM-Z503		Ф90 DC motor		250	240		
OEM-Z506	DZ25-6L	Ф90 DC motor	DC12V/16A	250	350		
OEM-Z504		Ф90 DC motor		120	600		
OEM-Z505		Ф90 DC motor		120	460		

#### **AC Motor OEM**

AC MOCOL C	OEM-J Series						
Model No.	Pump head	Motor type	Power supply	Power(W)	Speed(rpm)	Speed error	Working environment
OEM-J013	V74545	Ф70 AC motor		15	417		
OEM-J022	YZ1515x,	Ф90 AC motor		60	430		
OEM-J024	YZ2515x, MC Series	3 phase AC motor	AC220V(standard),	400	430		
OEM-J026	SN Series	3 phase AC motor	AC110V(optional)	400	430	± 10%	0-40°C, 80%RH
OEM-J027	011 001100	3 phase AC motor		400	70		
OEM-J402	DZ25-6L	Ф90 AC motor		120	450		
OEM-J401	YZ35	Ф90 AC motor		120	450		

OEM-JT Series							
Model No.	Pump head	Motor type	Power supply	Power(W)	Speed(rpm)	Speed error	Working environment
OEM-JT03	V71515v	Ф70 AC motor		15	30-300		
OEM-JT08	YZ1515x,	Ф90 AC motor		25	43-430		
OEM-JT12	YZ2515x, MC Series	Ф90 AC motor	AC220V(standard),	60	43-430		
OEM-JT402	SN Series	Ф90 AC motor	AC110V(optional)	60	45-450	± 10%	0-40°C, 80%RH
OEM-JT406	014 001103	Ф90 AC motor		120	45-450		
OEM-JT407	DZ25-6L	Ф90 AC motor		120	45-450		
OEM-JT501	YZ35	Ф104 AC motor		200	45-450		
OEM-JT502		Ф104 AC motor		200	45-450		

Tubing & Flow Rate					
Pump Head	Tubing	Flow Rate ( mL/min )			
YZ1515x	13", 14", 19", 16", 25", 17", 18"	<2280			
YZ2515x	15 <sup>#</sup> , 24 <sup>#</sup>	<1740			
MC	ID: 0.13-3.17mm Wall thickness: 0.8-1mm	<65			
SN Series	14 <sup>#</sup> , 16 <sup>#</sup> , 24 <sup>#</sup>	<1500			
DZ25-3L	15 <sup>#</sup> , 24 <sup>#</sup> , 35 <sup>#</sup> , 36 <sup>#</sup>	<3600			
DZ25-6L	15 <sup>#</sup> , 24 <sup>#</sup> , 35 <sup>#</sup> , 36 <sup>#</sup>	<6000			
YZ35	26 <sup>#</sup> , 73 <sup>#</sup> , 82 <sup>#</sup>	<12000			



### OEM Product

#### Integrated Drive Module (42 stepper motor)

Technical Specifications					
Suitable motor	35 stepper motor, 42-40 and 42-60 stepper motor	Output motor current	0.5-1.6A		
		Power supply	DC24V, ≥48W		
Speed range	0.1-300rpm	Working environment	0-40°C, 80%RH		

Product	Model No.	Functions	Wiring Diagram
	M42/0-5V	Start/stop control: Passive switch signal control start/stop Speed control: External input analog signal 0-5V	Power indicator  Black B-  Green B+
	M42/0-10V	Start/stop control: Passive switch signal control start/stop Speed control: External input analog signal 0-10V	Red A- Blue A+
M42/0-5V,0-10V,4-20mA	M42/4-20mA	Start/stop control: Passive switch signal control start/stop Speed control: External input analog signal 4-20mA	Running indicator
M42/USB	M42USB	Speed control: Preset speed or adjust the speed through USBcommunication port. Subdivision setting: 1/16 Built-in EEPROM can save the setting speed.	Power indicator    Motor interface   Green B+   Red A-   Blue A+   Blue A+   Communication port
M42/P	M42P	Speed control: External input pulse frequency Subdivision setting: 1/16(recommend), 1, 1/2, 1/4, 1/8, 1/32 Logic input voltage: 3.3V-5V or 12V-24V	Power indicator  A+  A-  B+  B-  O  O  O  O  O  O  O  O  O  O  O  O  O



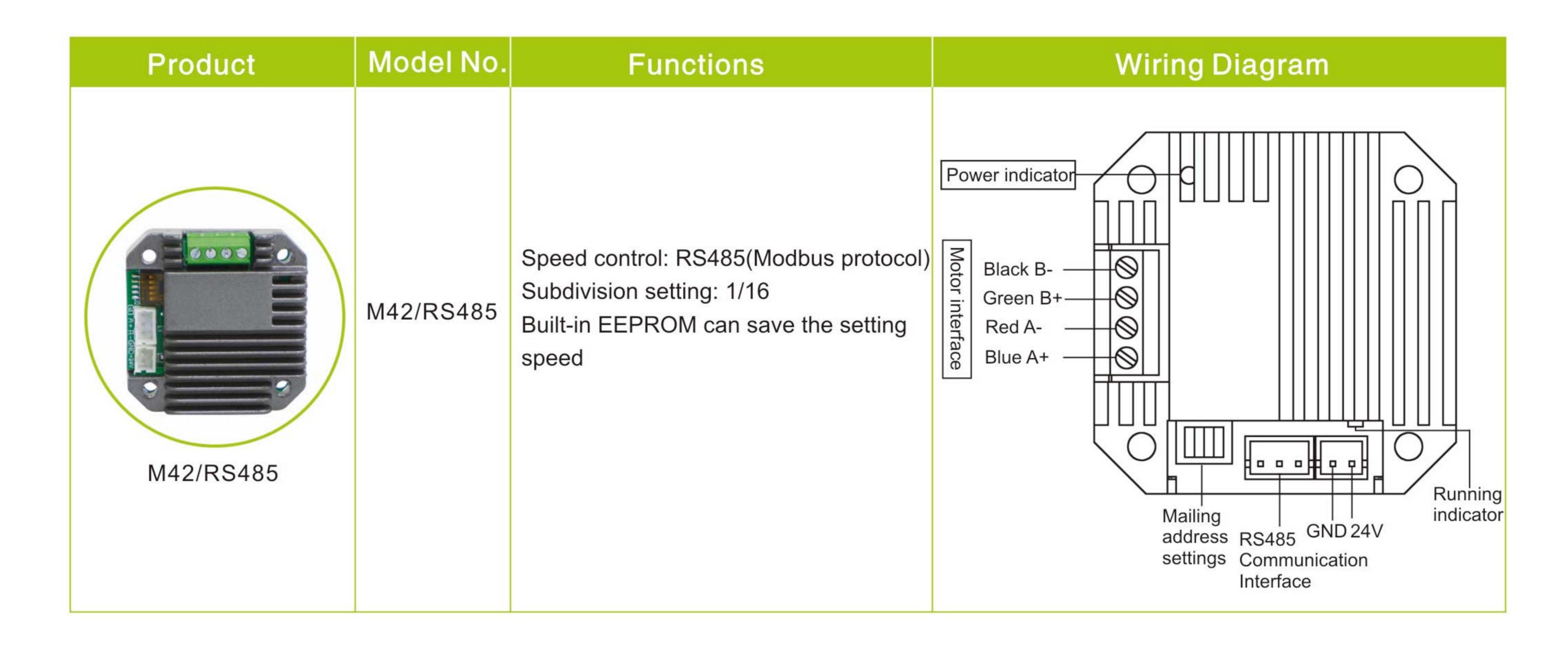


## OEM Product

Product	Model No.	Functions	Wiring Diagram
M42/RP M42RP-A	M42RP	Speed control: Built-in potentiometer control speed Subdivision setting: 1/16	Power indicator  Black B- Green B+ Red A- Blue A+  Running indicator  Build-in potentiometer Direction  GND 24V
	M42RP-A	Speed control: External potentiometer control speed Subdivision setting: 1/16	Power indicator  Black B- Green B+ Red A- Blue A+ Blue A+  Direction External potentiometer
M42/RS232	M42/RS232	Speed control: RS232(Modbus protocol) Subdivision setting: 1/16 Built-in EEPROM can save the setting speed	Power indicator  Black B- Green B+ Red A- Blue A+ Blue



### **OEM Product**



#### Integrated Drive Module(57 stepper motor)

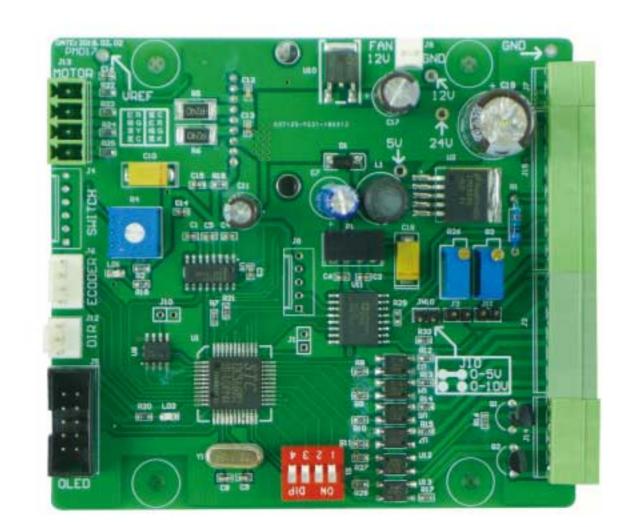
Technical Specifications				
Suitable motor	57 stannar matar	Output motor current	2-4.5A	
Sultable motor	57 stepper motor	Power supply	DC24V, ≥150W	
Speed range	0.1-600rpm	Working environment	0-40°C, 80%RH	

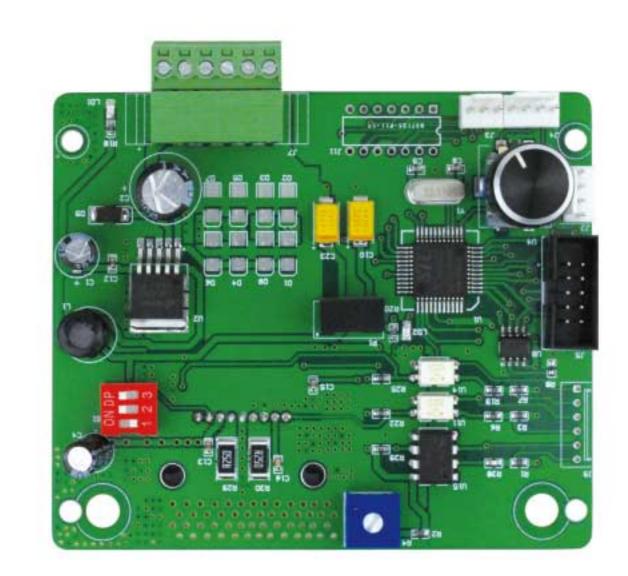
Product	Model No.	Functions	Wiring Diagram
M57P	M57P	Speed control: External input pulse frequency speed control Subdivision setting: 1/16 (recommend), 1, 1/2, 1/4, 1/8, 1/32, 1/64, 1/128 connection: 12V~24V (M57P) Common anode connection: 3.3V~5V or 12V~24V (M57PY)	Power indicator  Motor interface  V+  GND  COM  DIR  STP  EN



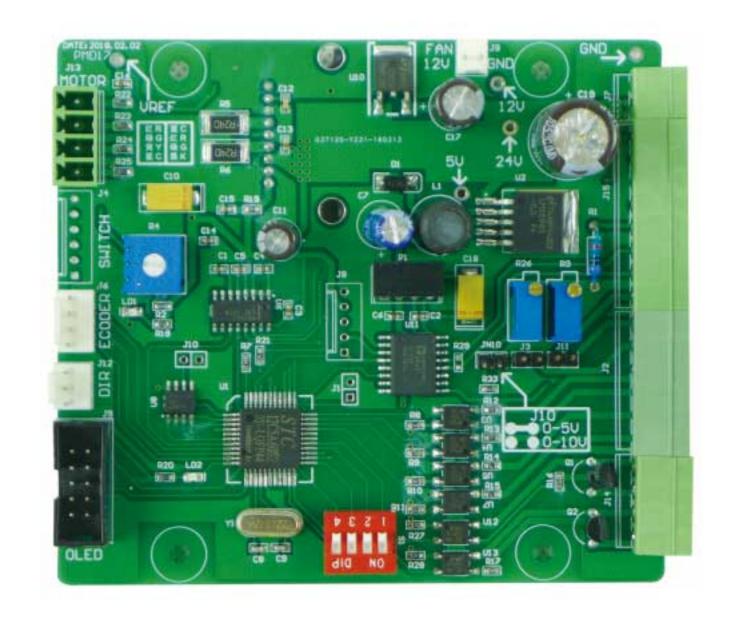


## Control Board For OEM Product





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





PMD17 Main	board technical specification	PM29 Mainboard technical specification		
Speed range	0.1-350 rpm(optional)	Speed range	0.1-600rpm(optional)	
Flow rate range	0.000067-1330mL/min	Speed resolution	0.1rpm	
Speed resolution	0.1rpm	Display(optional)	OLED screen(optional)	
Display	0.96" OLED screen(optional)	Control mode	Membrane keypad/Toggle switch	
Speed control	Preset speed or membrane keypad speed control (optional)	Speed control(optional)	Preset speed or membrane keypad speed control (optional)	
Control mode	Digital knob and toggle switch	External control speed	0-5V, 4-20mA(standard), 0-10V (optional)	
External control	Start/stop;Active switch signal: 5V (standard)	Communication interface	RS485 support Modbus protocol (RTU mode)	
Communication interface	RS485 support Modbus protocol (RTU mode)	External control	Start/stop,change direction signal ;Active switch signal: 5V (standard)	
External control speed	0-5V, 4-20mA(standard), 0-10V (optional)	Motor type	57 stepper motor	
Motor type	57 stepper motor	Voltage	DC24V, ≥48W	
Input voltage	DC 24V	Working environment	0.40°C 000/ DLI	
Power	<60W	vvoiking environment	0-40°C, 80%RH	



### Peristaltic Pump Accessories

#### A Filling Nozzle

Name	Material	Picture
Closing filling nozzle	SS316	
Reducer closing filling nozzle	SS316	
Flat filling nozzle	SS304/316	
Flat filling nozzle PTEF	PTFE	

#### B One Way Checkvalve



Avoid liquid drop off after filling and transferring.

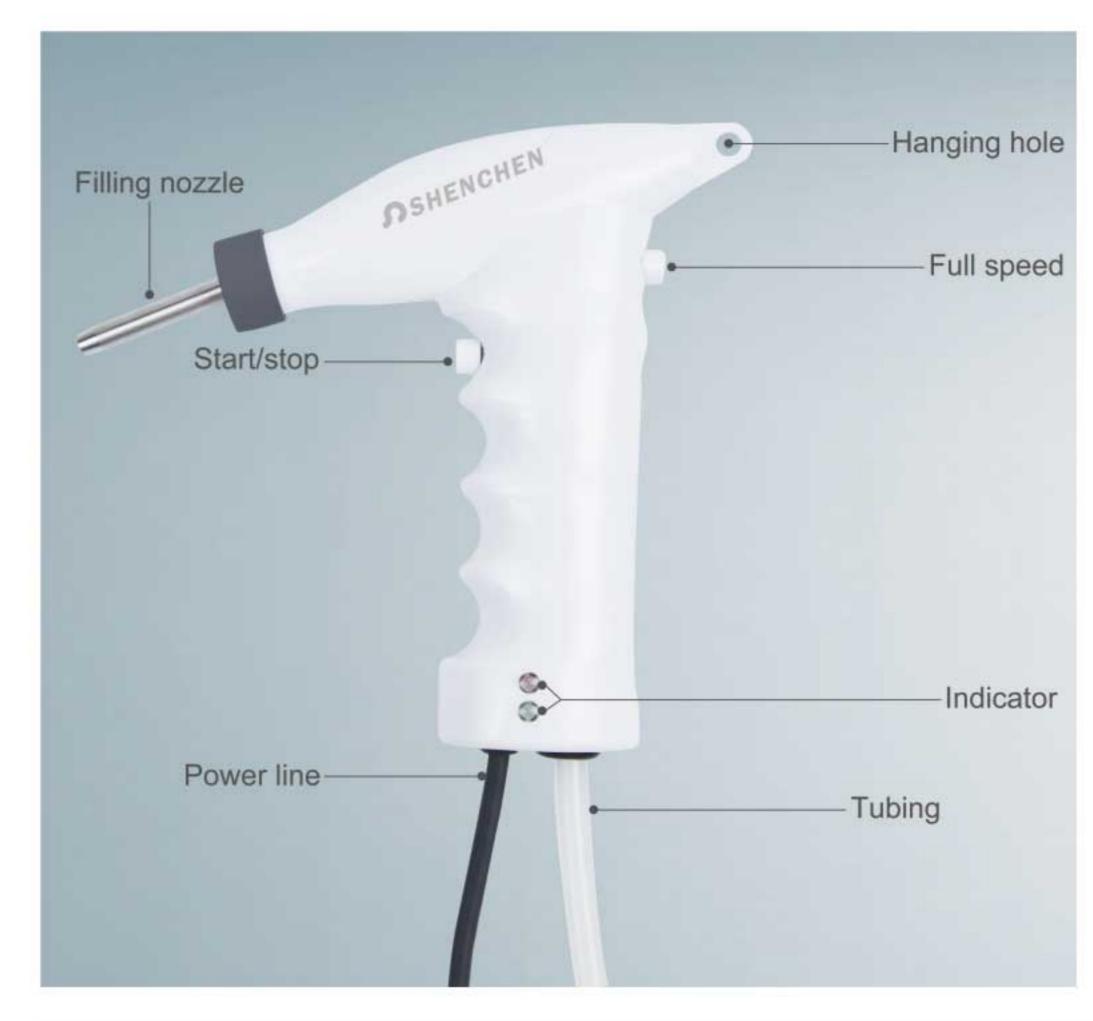
#### C Filling Countersunk



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

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

#### D Handling Dispenser



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

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

#### Foot Pedal Switch



Control the pump start/stop with foot pedal switch.





#### F Tube Connector



Straight tube connector



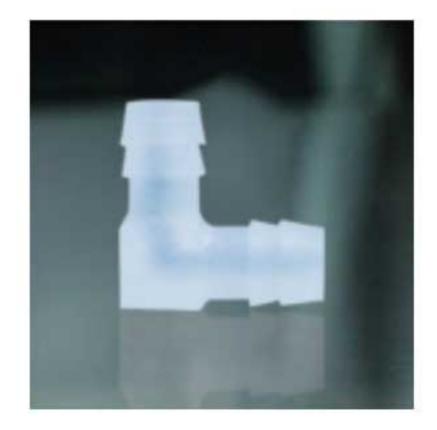
"Y" tube connector



Tee tube connector



Reducer tube connector



"L" tube connector



Flexible/Hard tube connector

#### G PH Controller

# 工业在线PH/ORP检测仪 2018-01-01 92:01 8.71 PH H: 9.00 L: 6.00

### Benchtop Tubing Cutter



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

#### J Support Stand

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

#### Function:

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



#### H 5V Sensor



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



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



## Peristaltic Pump Tubing

#### Silicone Tubing

- | Platinum-Cured Silicone Tubing
- Slightly clarity, smooth surface, low protein binding levels, fewer potential leachable.
- Ideal for pharmaceutical and biotechnology use, suitable temperature range −51~238 ℃.

	Micro Flow Rate Tubing										
Tubing	Size	0.13×0.86	0.5×0.86	0.86×0.86	1.52×0.86	2.06×0.86	2.79×0.86	1×1	2×1	3×1	2.4×0.8
Tubing sections (1:1)	3	•	•	•	0	0	0	0	0	0	0
Wall thick	50 (200 BB) BB (200 BB)	0.86				1.0			0.8		
Inside dia (mm		0.13	0.5	0.86	1.52	2.06	2.79	1.0	2.0	3.0	2.4
Maximum Conti-						0.1					
(Mpa)	Interm- ittent					0.1					

	Basic Flow Rate Tubing											
Tubing S	Size	13#	14#	19#	16#	25#	17#	18#	15#	24#	35*	36#
Tubing section (1:1)	S	•	0	0	0	0	0					
Wall	mm					1.6			2.4			
thickness	inch					1/16			3/32			
Inside	mm	0.8	1.6	2.4	3.1	4.8	6.4	7.9	4.8	6.4	7.9	9.6
diameter	inch	1/32	1/16	3/32	1/8	3/16	1/4	5/16	3/16	1/4	5/16	3/8
Maximum	Conti- nuous		0.17				0.1	0.07	0.17 0.14		4	
(Mpa)	Interm- ittent		0.	27		0.24	0.14	0.1	0	.27	0.2	4

	Industrial Tubing									
Tubing	Size	26# 73#		26 <sup>#</sup> 73 <sup>#</sup> 82 <sup>#</sup> 86 <sup>#</sup> 90 <sup>#</sup>				90#	88*	92#
Tubing section (1:1)	S									
Wall	mm		3.3		6.3			8		
thickness	inch		1/8		1/4		3/16			
Inside	mm	6.4	9.6	12.7	9.5	19	12.7	25.4		
diameter	inch	1/4	3/8	1/2	3/8	3/14	1/2	1		
Maximum	nuous 0.2		0.25							
(Mpa)	Interm- ittent		0.27		0.3					





## Peristaltic Pump Tubing

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

	A Tygon3350	B Tygon E-3603	C Norprene Chemical	PharMed	■ Norprene A-60-F
	Completor A TYCON* 2500 Committee in				
Formulation	Tygon3350	Tygon R-3603	Norprene Chemical	PharMed	Norprene A-60-F
Application	Pharmaceutical, cosmetic, medical and auto- analysis application.	General laboratory, food & beverage, biopharm-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 pharmaceutical uses. Also good for light-sensitive samples.	Ideal for the food, dairy and beverage.
Advantages	Ultra-smooth; minimizes bacterial growth. Good for mild to medium concentration bases, salts and alcohols; odorless, tasteless, and nontoxic. Transparent.	Inexpensive tubing for general lab application. Nonaging,nonoxidizing. Clear for easy flow monitoring. Handles virtually all inorganic chemicals. Low gas permeability. Smooth bore; good for viscous fluids. High dielectric constant.	Norprene thermoplastic elastomer outer jacket with chemically inert Tygon® 2075 inner bore for excellent chemical resistance. Plasticizer-free to guard against extractables. Long flex life. Opaque beige.	Great for tissue and cell work-nontoxic and nonhemolytic; long service life minimizes risk of fluidexposure; reduces tubing costs and pump downtime.  Opaque to UV and visible light to protect light-sensitive fluids.  Heat sealable, bondable, and formable.  Extremely low gas permeability.	Heat, ozone, and UV light resistant. Nonaging; nonoxidizing; superior acid and alkali resistance. Opaque beige.
Application Suitability		ACIDS GOOD ALKALIES GOOD ORGANIC NO SOLVENTS NO PRESSURE GOOD VACUUM GOOD VISCOUS EXCELLENT FLUIDS GOOD		ACIDS GOOD ALKALIES GOOD ORGANIC NO SOLVENTS NO PRESSURE GOOD VACUUM EXCELLENT VISCOUS GOOD FLUIDS GOOD 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. Opaque, beige.	
Temp. range	−75 to 450° F (−60~232° C)	−58 to 165° F (−50~74° C)	−76 to 165° F (−60~74° C)	-60 to 270° F (-59~135° C)	-60 to 275° F (-51~135° C)
Meets	FDA 21 CFR 177.2600 USP Class VI EP 3.1.9. Exceeds 3A standards Manufactured according to GMP.	FDA 21 CFR 175.300	None.	None.	FDA 21 CFR 177.2600 NSF listed (Standard 51) Manufactured according to GMP.
Cleaning/ Sterilization	Ethylene oxide gamma irradiation, or autoclave for 30 min, 15psi (1 bar).	Unaffected by commercial sanitizers (with recommended procedures) Sterilize with ethylene oxide (ETO) or autoclave. To autoclave: Coil loosely in nonlinting cloth or paper, autoclave at 121°C (250°F). 1KG/cm³ (15psi) for 30 minutes (tubing will appear milky); air dry at max 66°C (150°F) for 2 to 2 ½ hours until clear.	Sterilize with ethylene- oxide(ETO), autoclave or gamma irradiation up to 2.5Mrad. Repeated autoclaving will not affect overall life.	Autoclave, ethylene oxide, or gamma irradiation.	Autoclave.



## Peristaltic Pump Tubing

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





### Baoding Shenchen Precision Pump Co.,Ltd

Add: No.103, Building 2, Zhidian Industrial Park, Fuxing East Road 999, Baoding, China.

Tel: 0086-312-5958380 Fax: 0086-312-6780636

Email: info@good-pump.com Website: www.good-pump.com