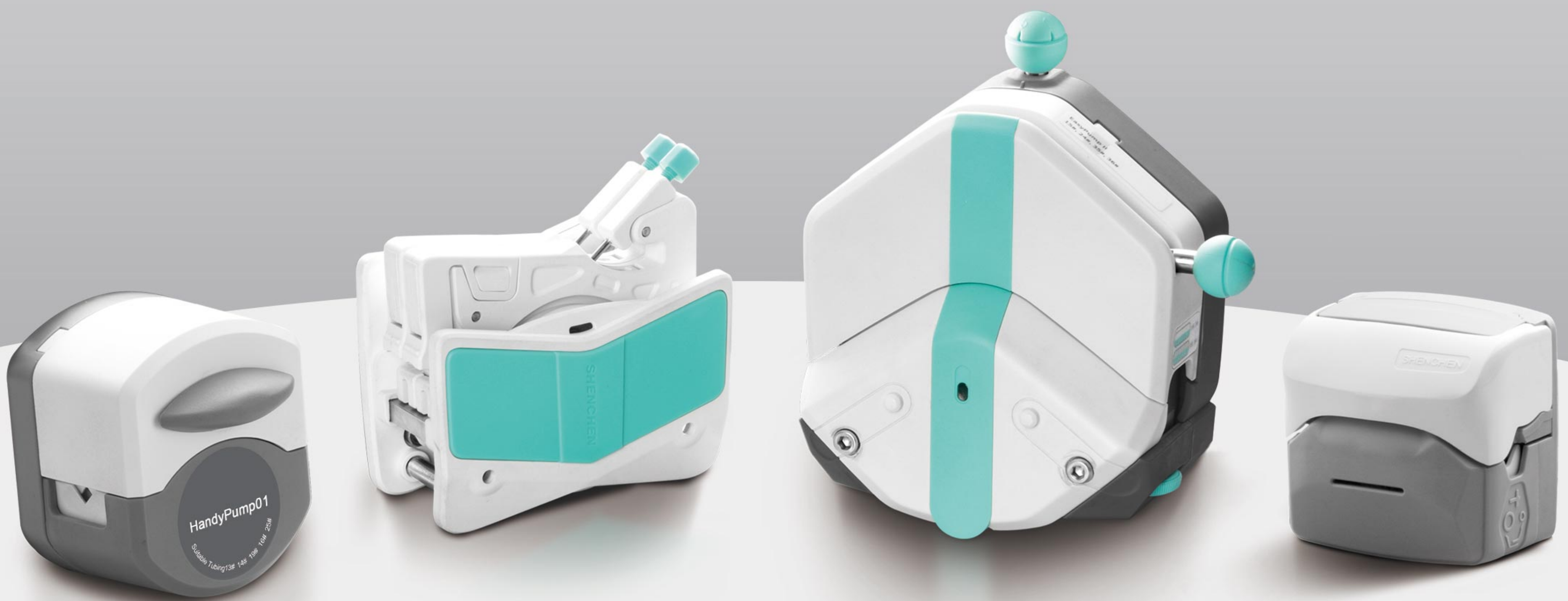




SHENCHEN

Pump Head & OEM



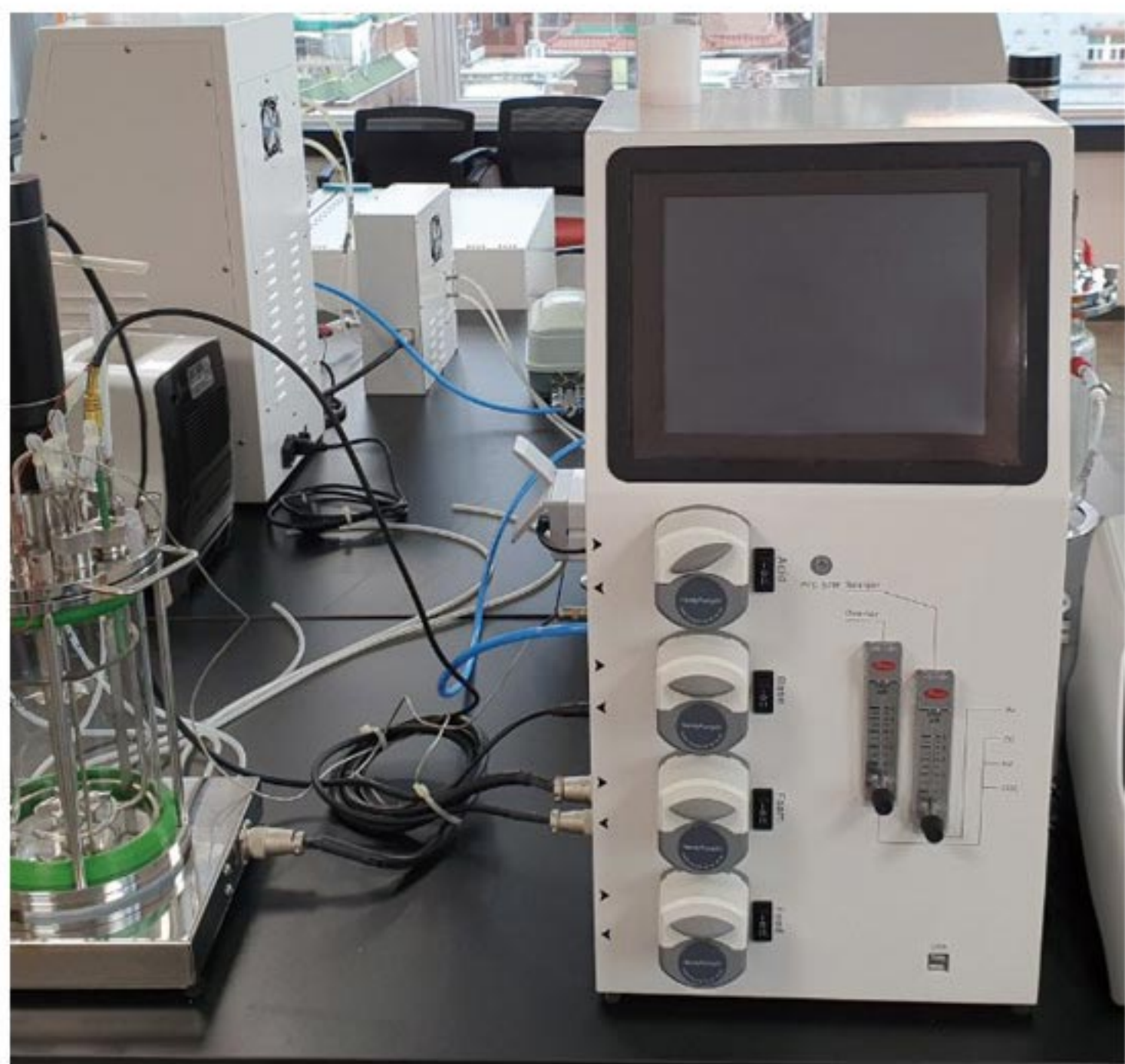
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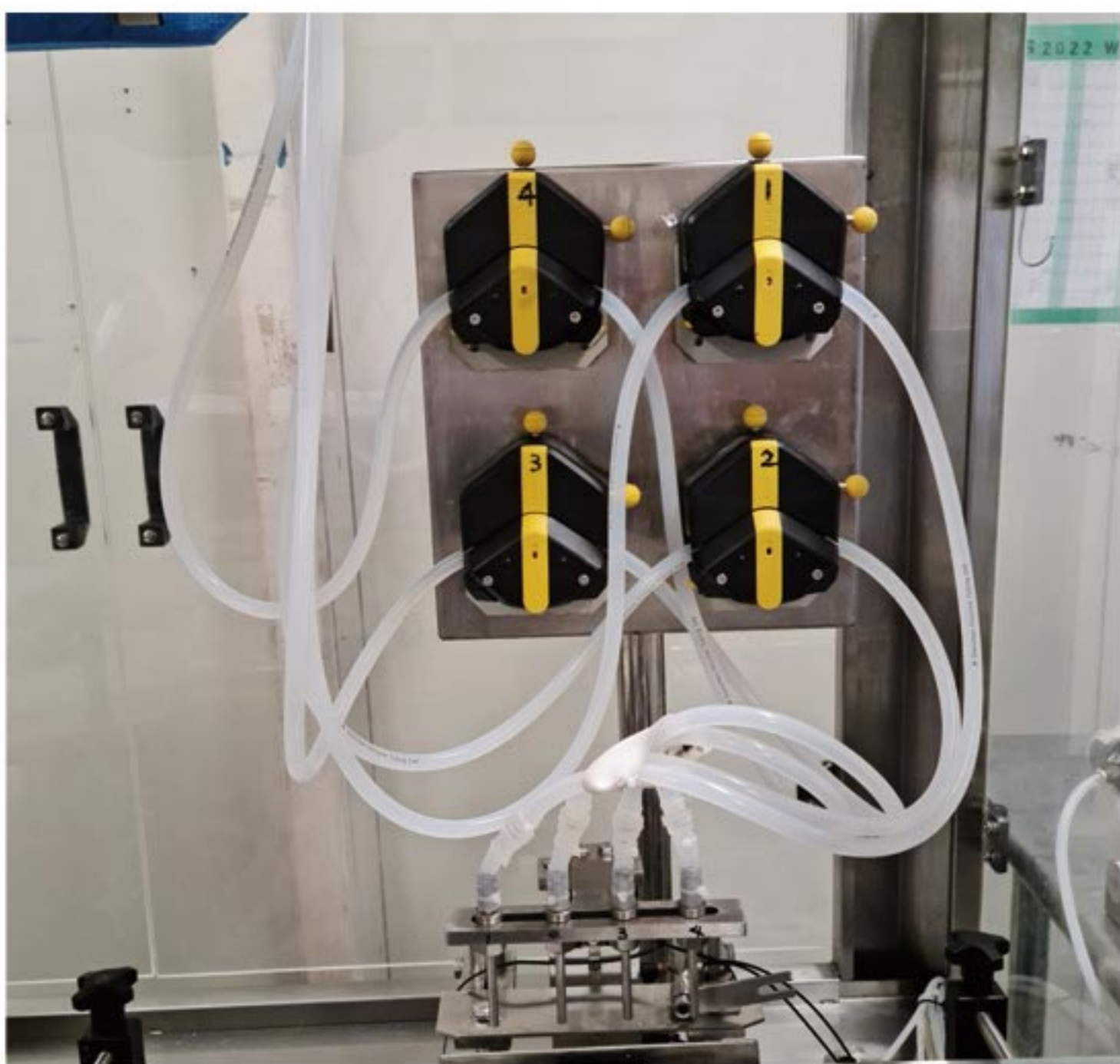
Innofluid Co.,Ltd

2023

APPLICATION



Fermentation tank supporting



Filling system support



Ocean detection analyzer



Cosmetic filling



Analysis instrument supporting



Environmental equipment support



Analysis instrument supporting



Reagents dispensing

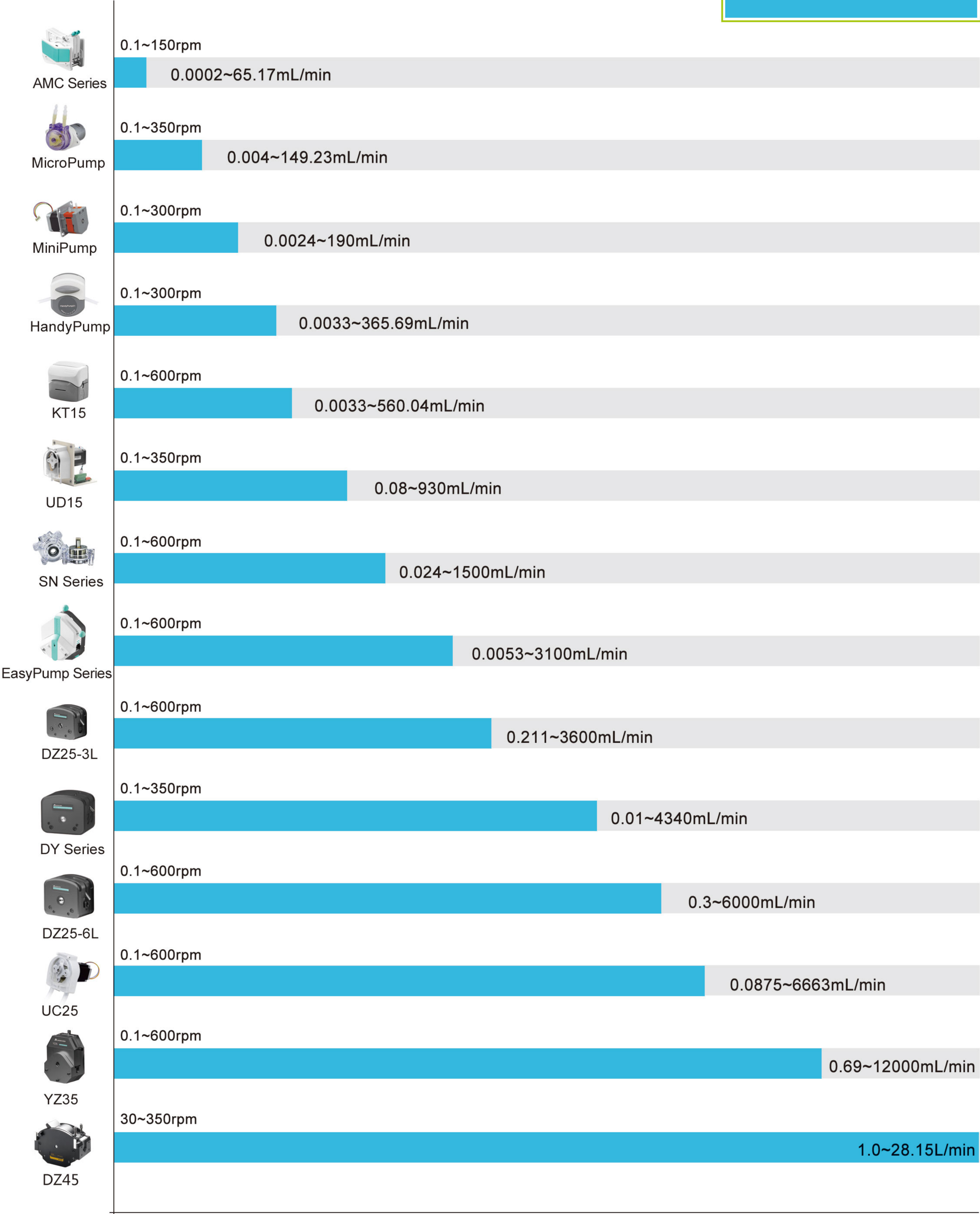
OEM Product

Quality casts Magnificence!

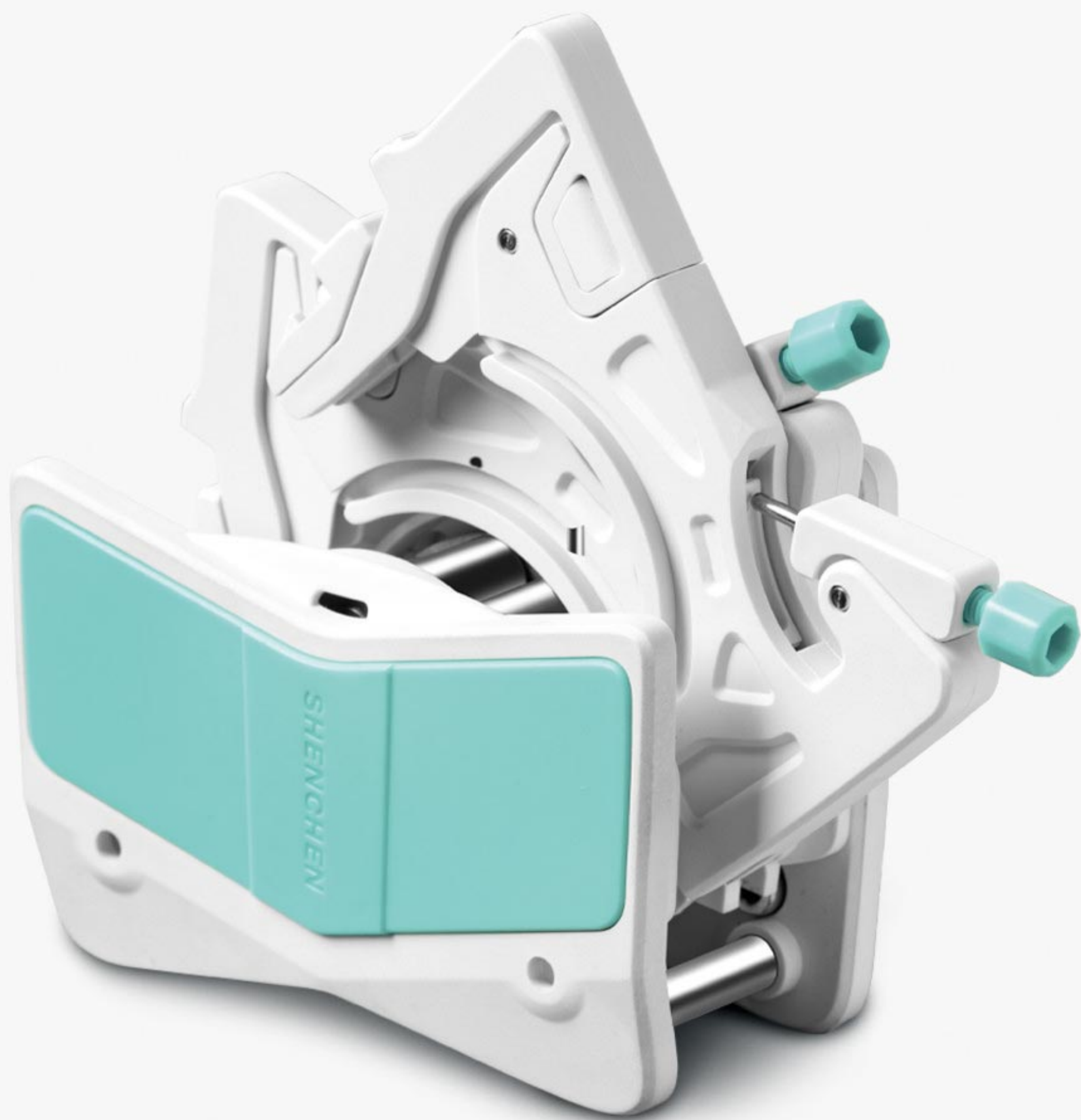
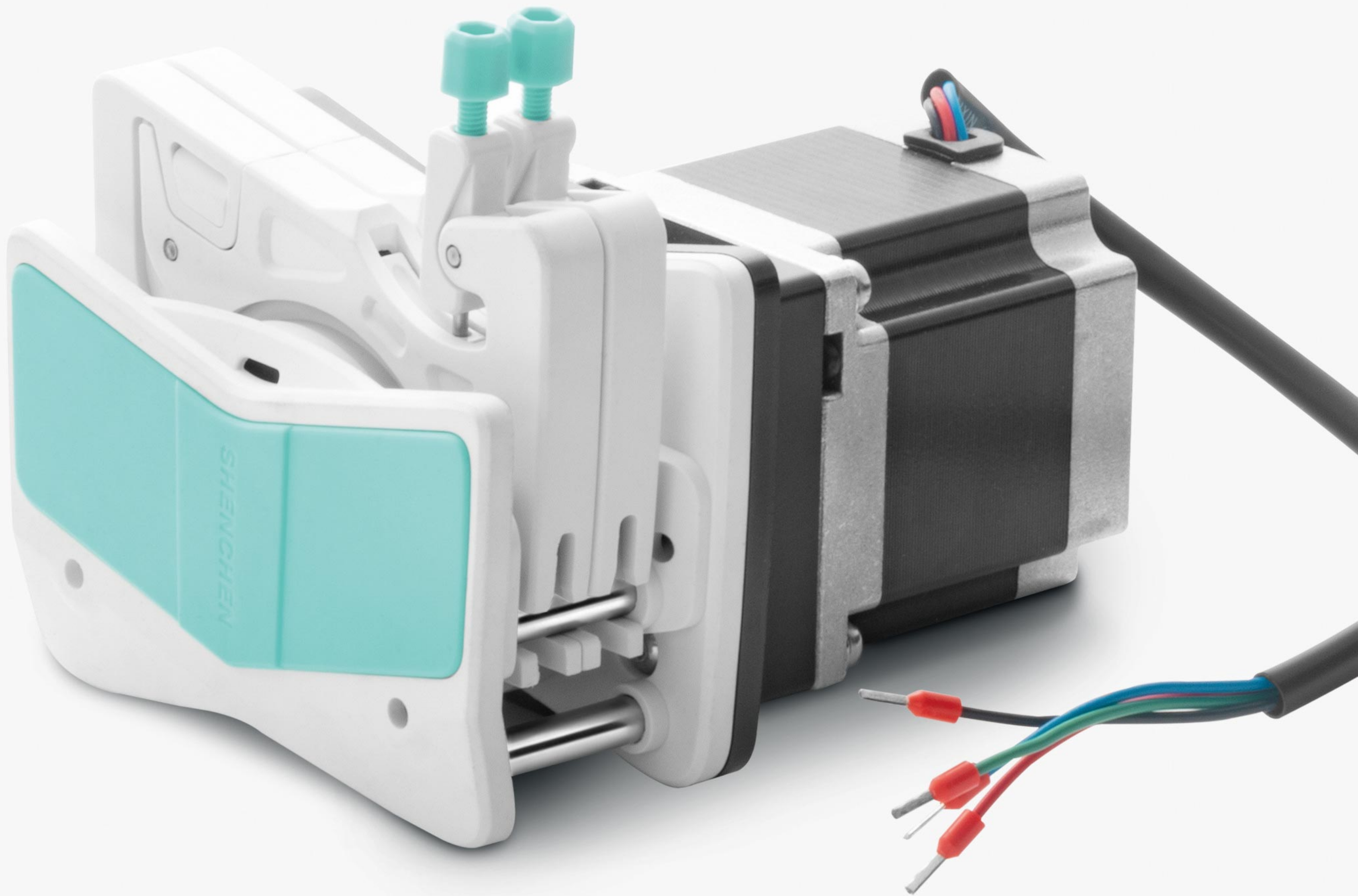


SHENCHEN

Pump Head
Flow Rate



New Generation Multichannel Type Pump Head AMC Series



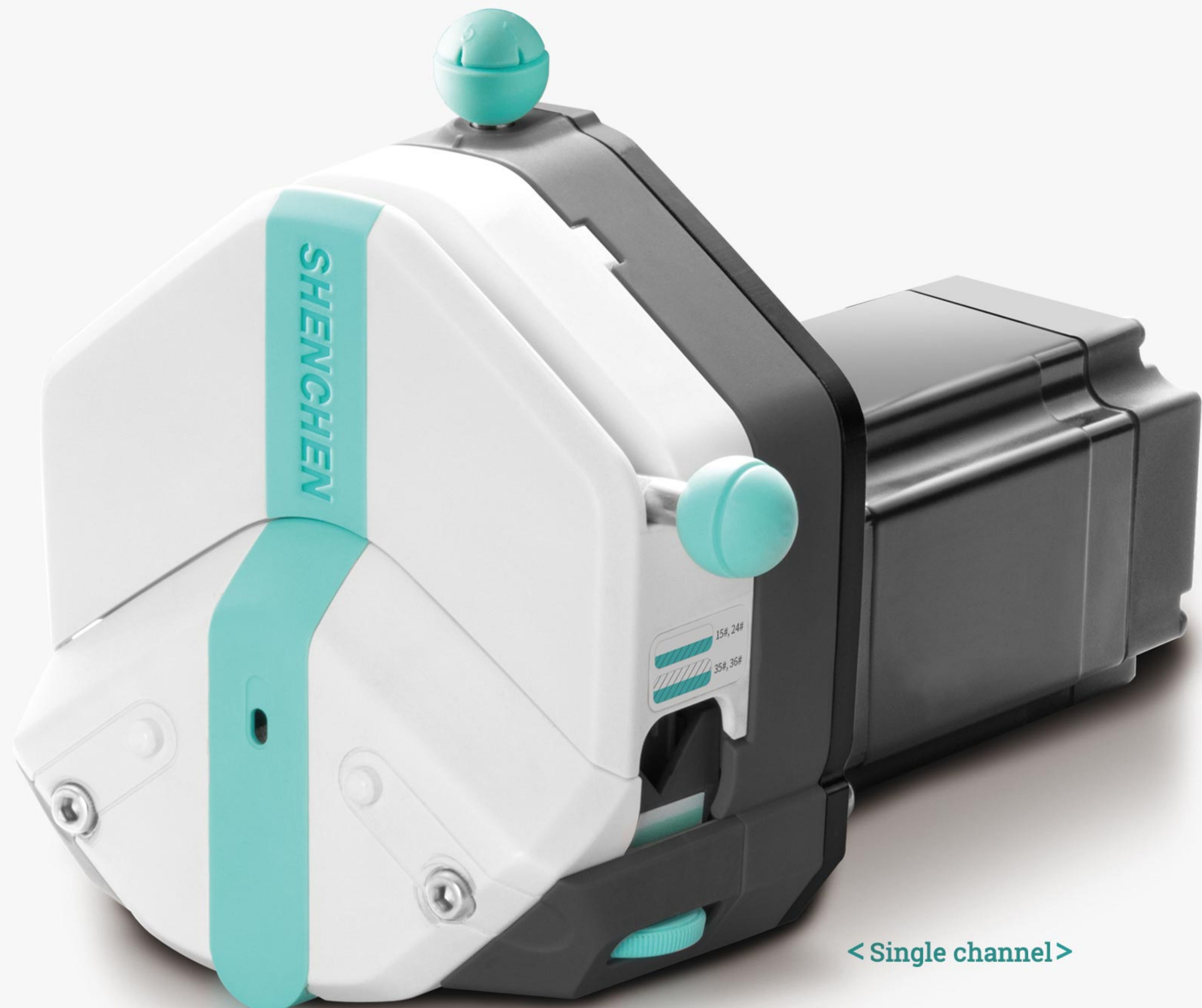
- The elastic positioning mechanism enables users remove and install .
- The elastic pressure tube design effectively extends the life of the tube.
- Stepless adjustment of the tube pressure gap, effectively improving the flow rate accuracy between channels.
- Exquisite appearance, compact structure, ideal for supporting instruments.



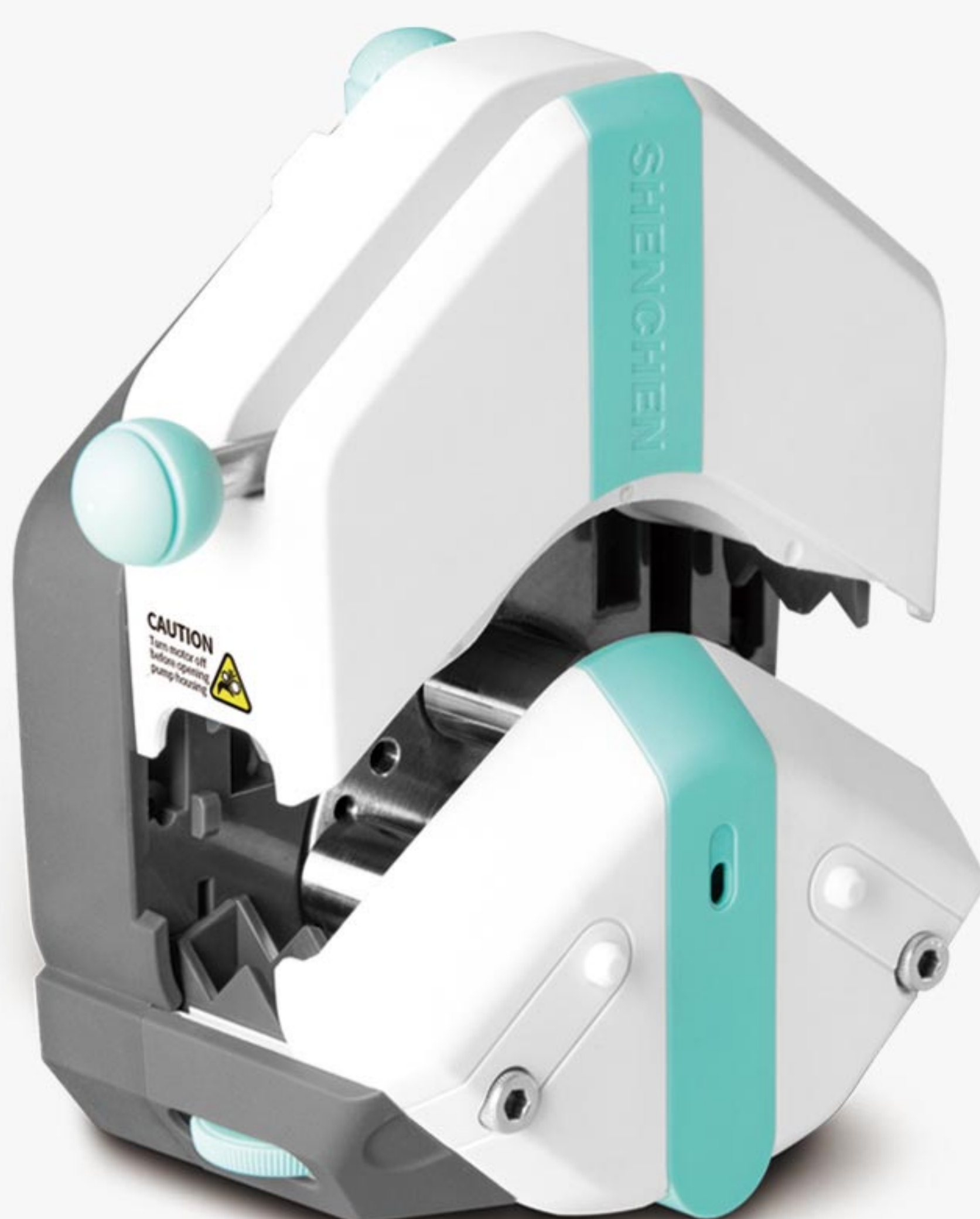
New Generation

Quick Load Type Pump Head

EasyPump Series



< Single channel >



< Dual channel >

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





DIRECTORY

- 1 APPLICATION
- 2 FLOW RATE
- 3 NEW PRODUCT
- 4 PRODUCTS



◆	Compact Pump Head.....	01
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Compact Pump Head

MicroPump



(3 rollers)

Product Features

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

Model No.

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

Industry Application

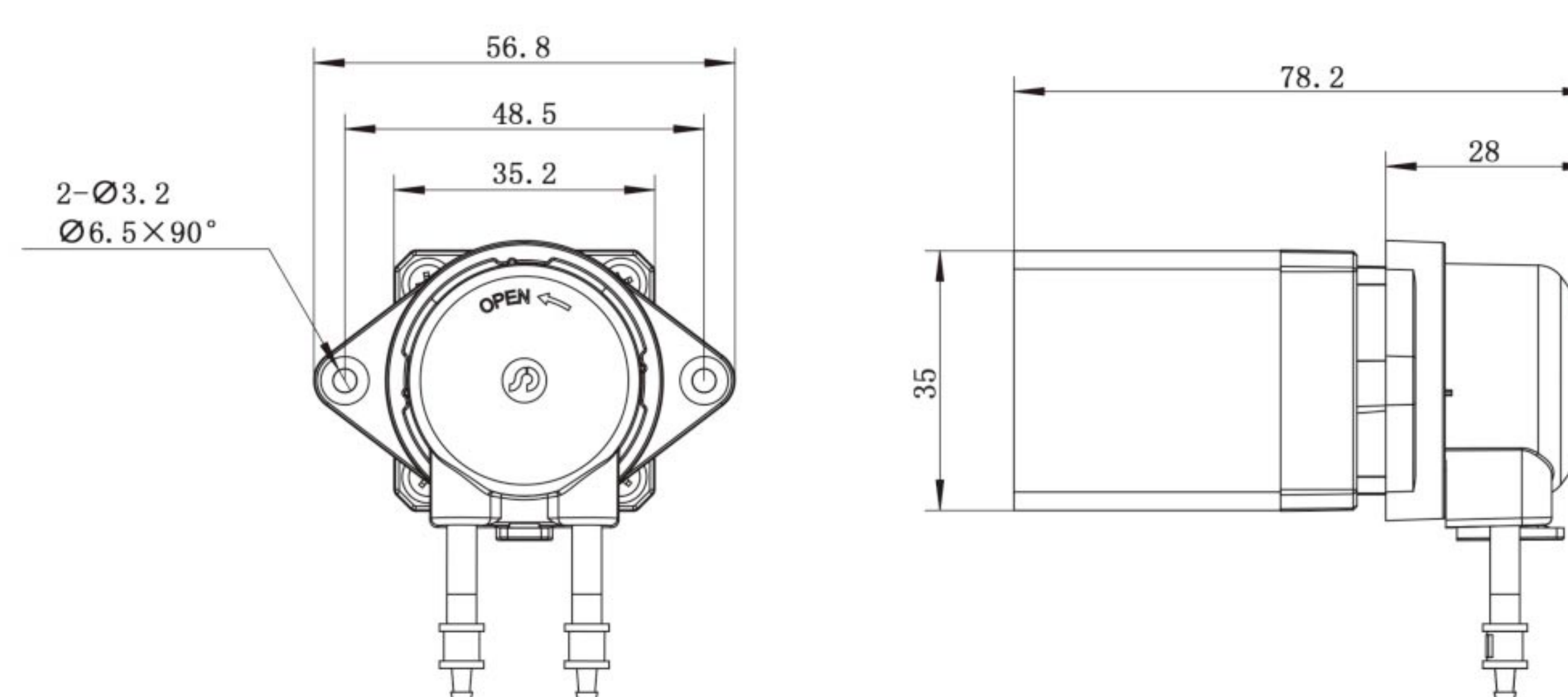
- | Biochemical analyzer, support medical equipment
- | Plant protection drone

Pump Head Installation Procedure



35 Stepper motor

Dimension Drawing(Unit: mm)

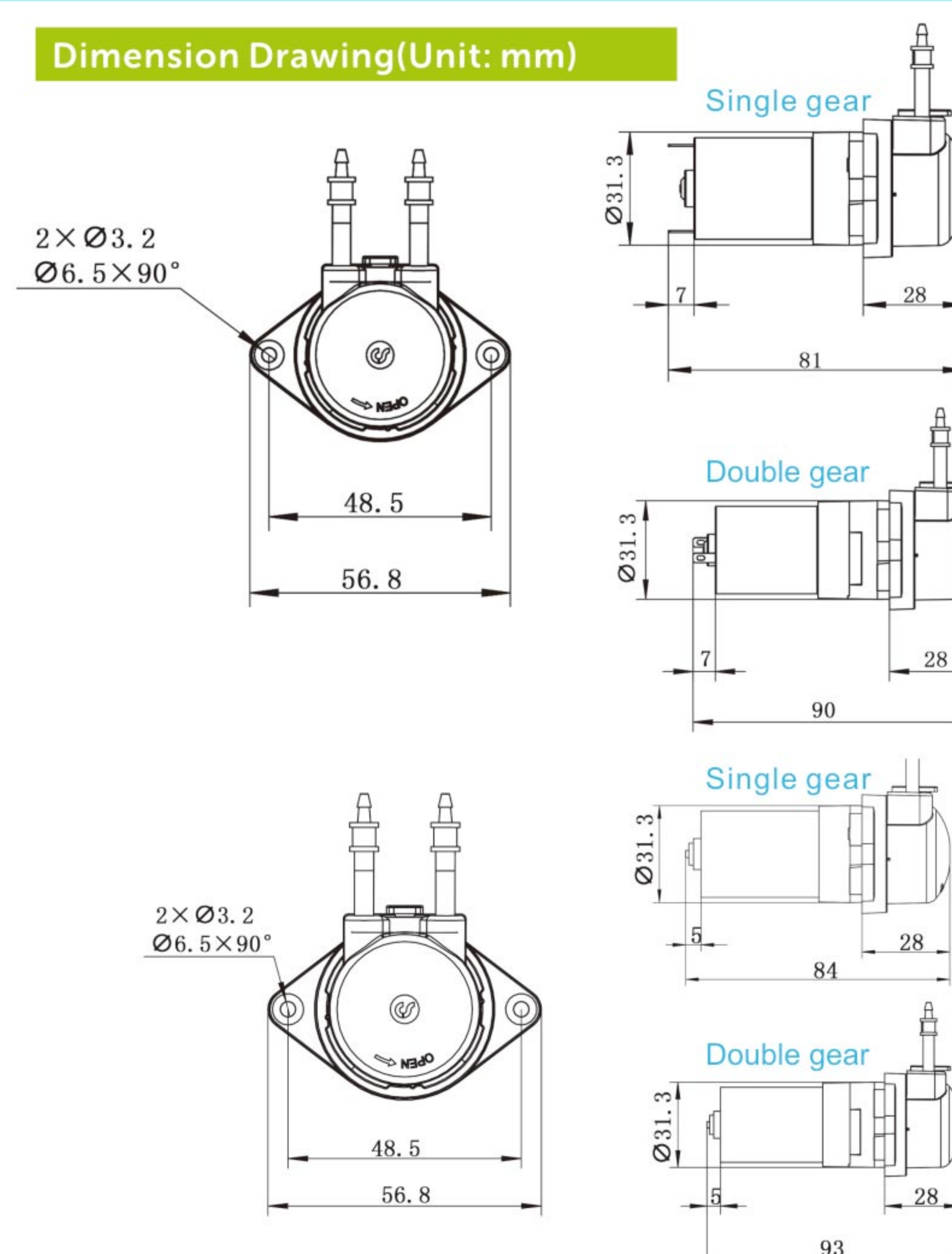


DC motor

DC Brush

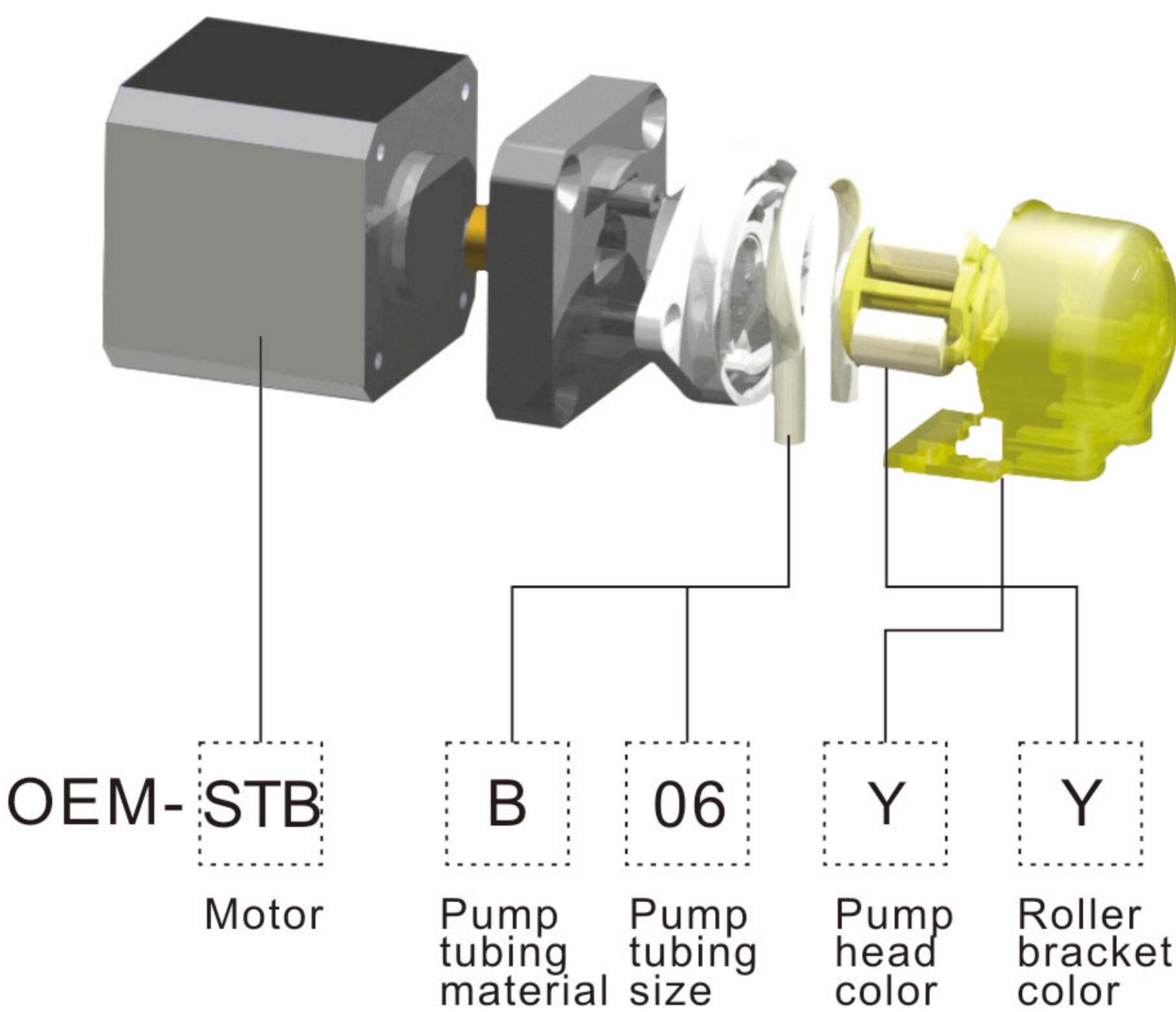
DC Brushness

Dimension Drawing(Unit: mm)

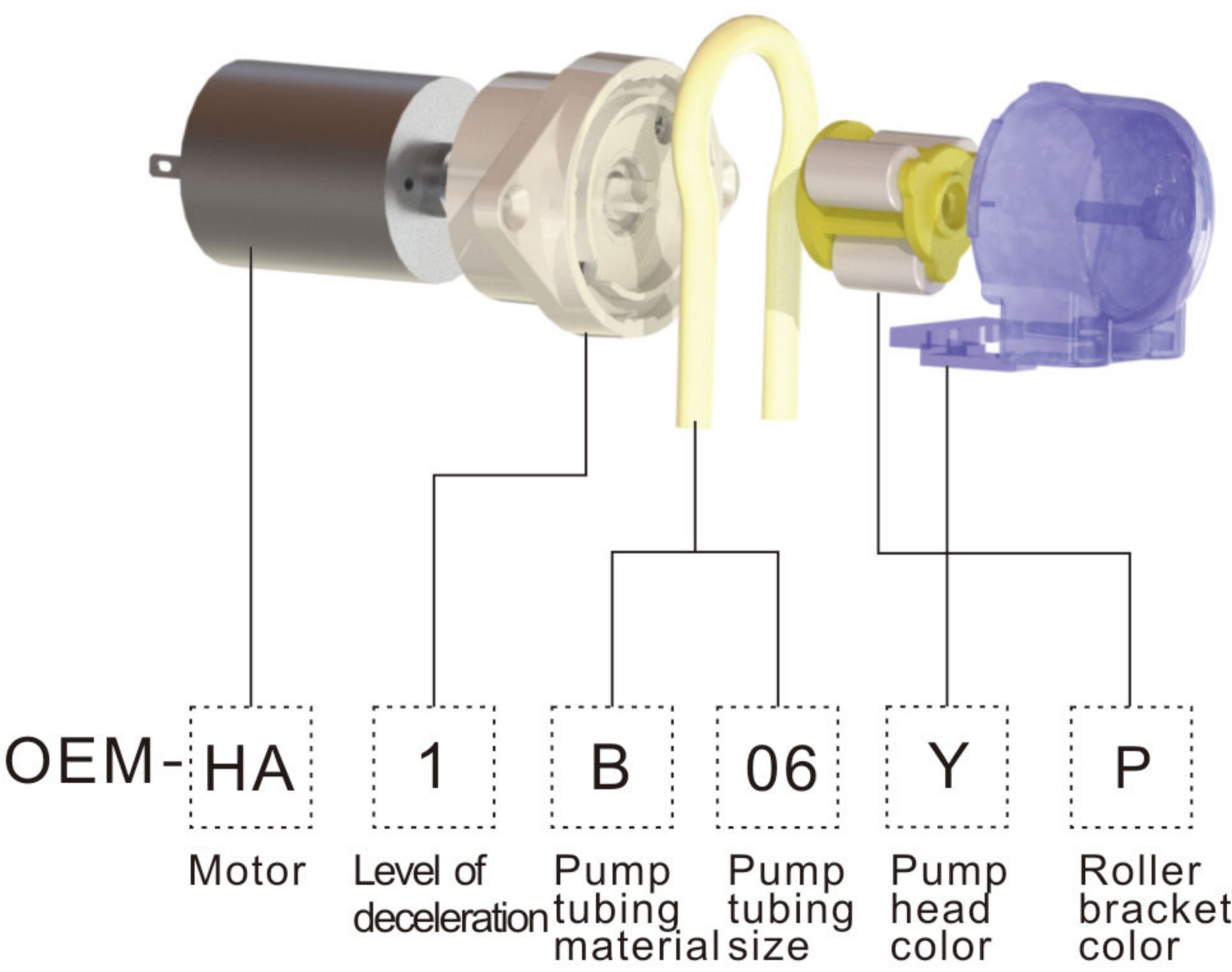


Compact Pump Head

Stepper motor breakdown drawing



DC motor breakdown drawing



Color Selection



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

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

Flow model selection							
Tubing No.			B03	B04	B06	B10	B22
Tubing ID. (wall thickness 1mm)			0.51*0.86	1.0*1.1	2.0*1.0	3.0*1.0	4.0*1.0
Tubing material			PharMed BPT	PharMed BPT	PharMed BPT	PharMed BPT	PharMed BPT
Flow rate (mL/min)	24V Brush/Brushless HA/HD	Single gear	4.55	14.88	50.05	110.27	149.23
		Double gear	0.35	1.28	4.29	9.45	12.79
	12V Brush/Brushless HB/HE	Single gear	4.55	14.88	50.05	110.27	149.23
		Double gear	0.35	1.28	4.29	9.45	12.79
	6V Brush/Brushless HC/HF	Single gear	4.55	14.88	50.05	110.27	149.23
		Double gear	0.35	1.28	4.29	9.45	12.79
	35Stepper motor(350rpm)STB		4.55	14.88	50.05	110.27	——
	42Stepper motor(350rpm)STA		4.55	14.88	50.05	110.27	149.23



Compact Pump Head

KT15



(4 rollers)

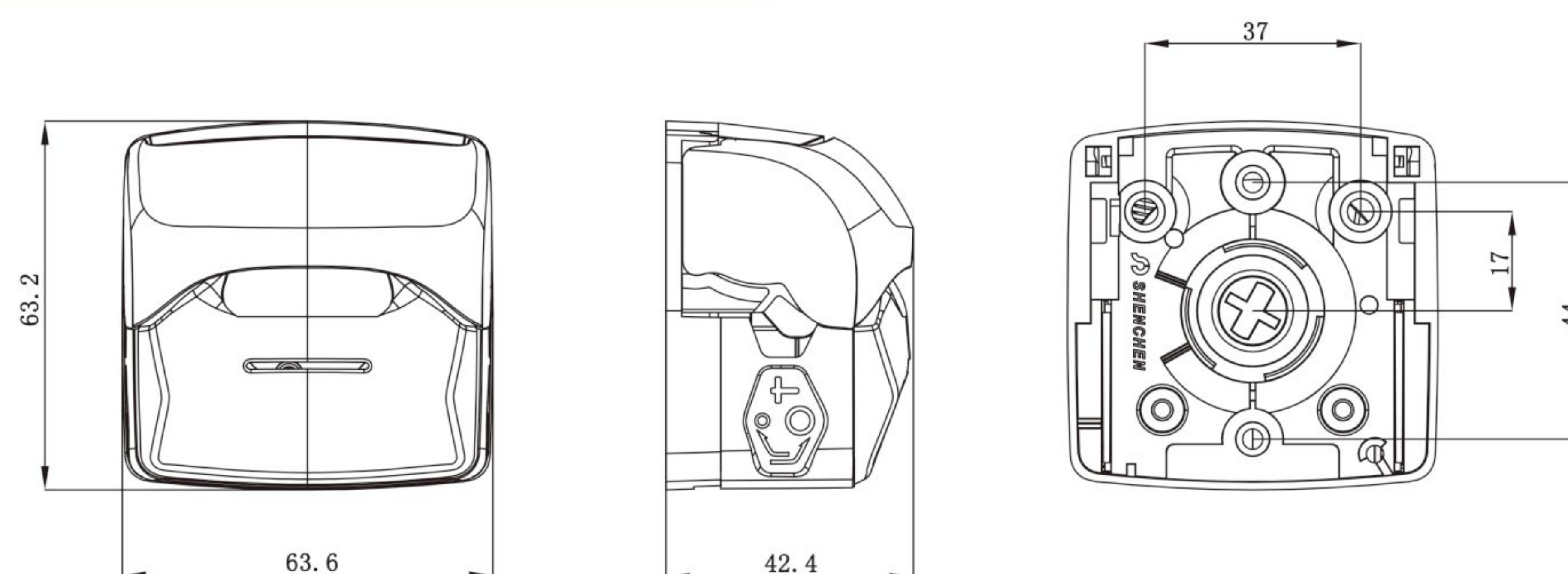
Product Introduction

Exquisite appearance, small size. The upper pressing block is opened by a turning method, and the operation is simple. The elastic upper block can reduce tubing wear. Quickly replace tubing with self-adaptive tube clamp. Suitable for 5 different sizes of tubes to meet different flow rate requirements.

Typical Application

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

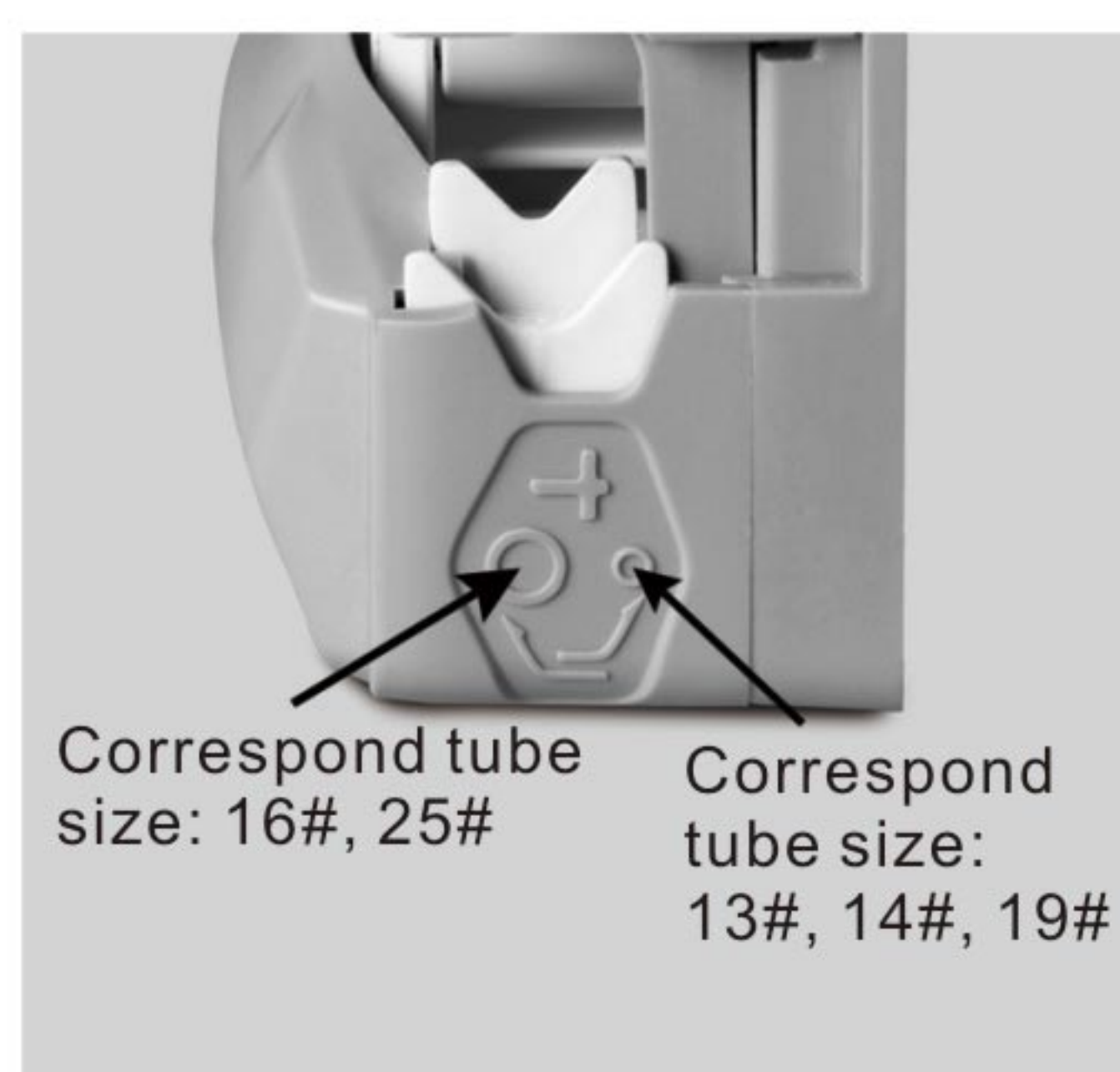
Dimension Drawing(Unit: mm)



Tubing Installation Procedure



1. Lift the flip top of the pump head to open the pump head.



2. Adjust the tube holder to the position corresponding to the installed size.



3. Put the tubing into the pump head.



4. Close the flip top of the pump head downward to complete the installation.

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

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

Technical Specifications

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



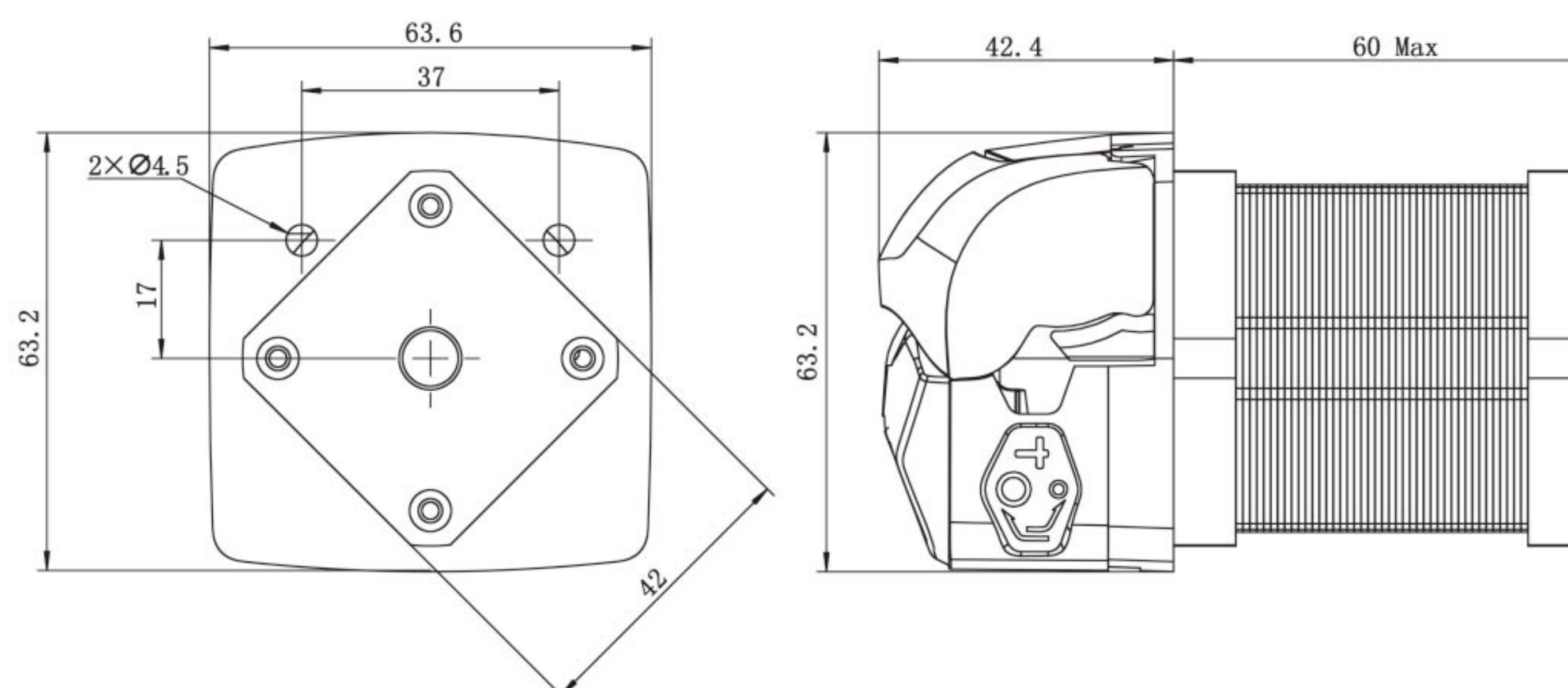
OEM Product

Compact Pump Head KT15

OEM-KTB001 (42 stepper motor)



Dimension Drawing(Unit: mm)



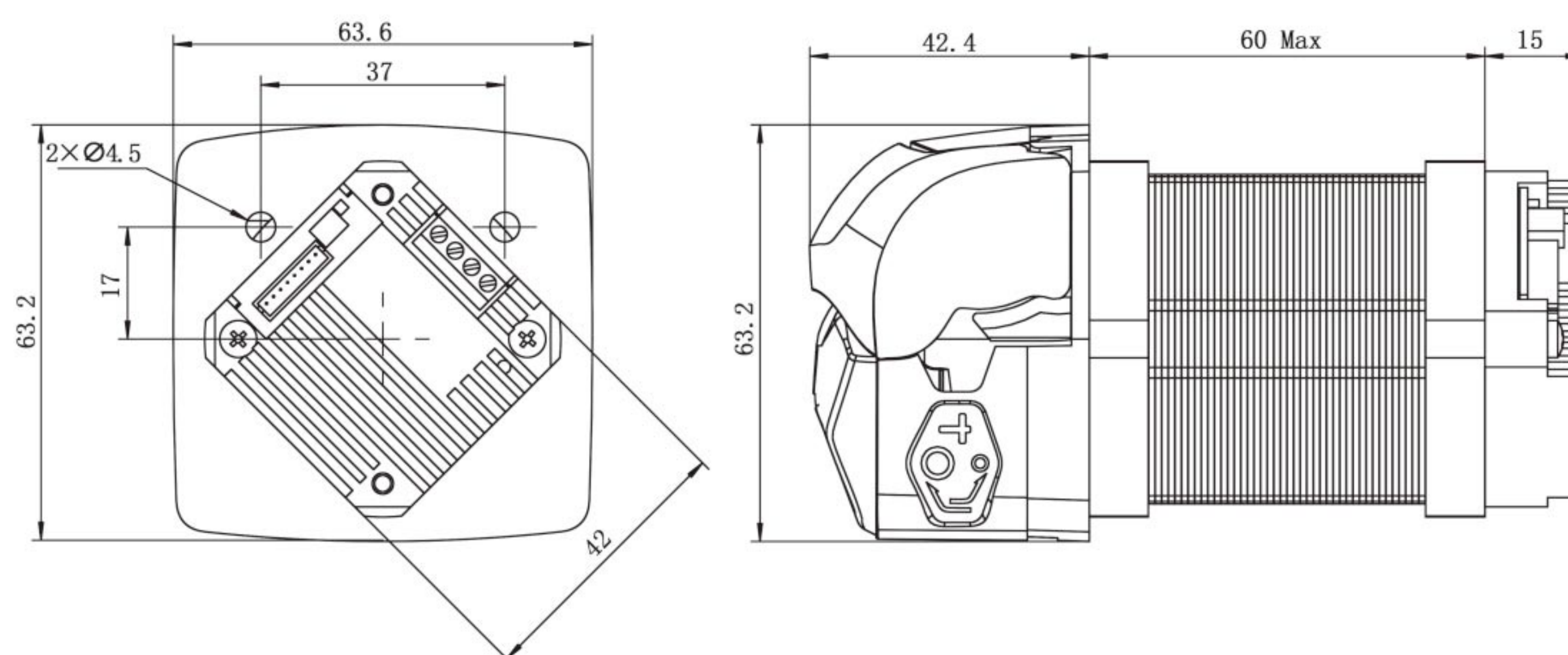
OEM-KTB001 Technical Specifications

Speed range	0.1-400rpm	Motor step angle	1.8°
Flow rate range	0.0033-373.2mL/min	Motor phase voltage	3.6V
Motor type	42 stepper motor	Motor phase current	1.7A
Motor phase number	2	Working environment	0-40℃, 80%RH

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



Dimension Drawing(Unit: mm)



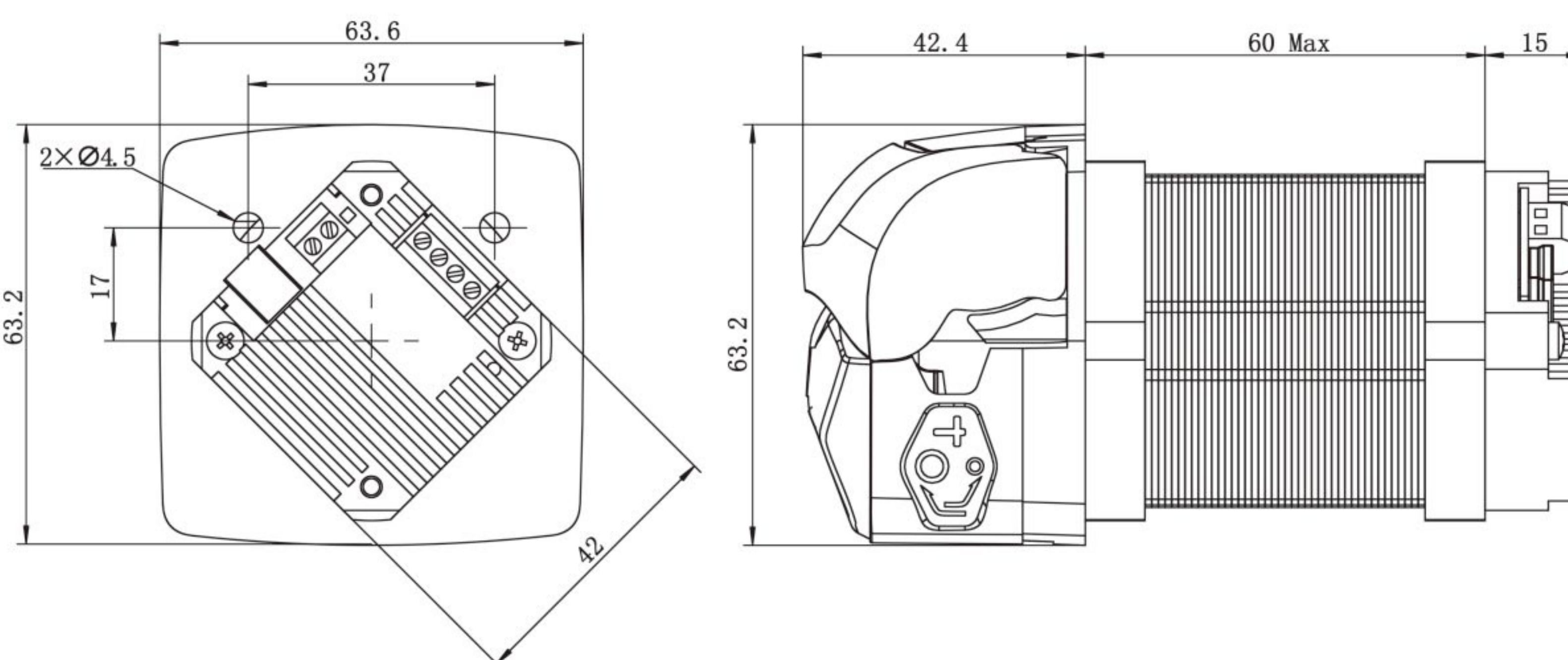
OEM-KTB002/003/004 Technical Specifications

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

OEM-KTB005



Dimension Drawing(Unit: mm)



OEM-KTB005 Technical Specifications

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

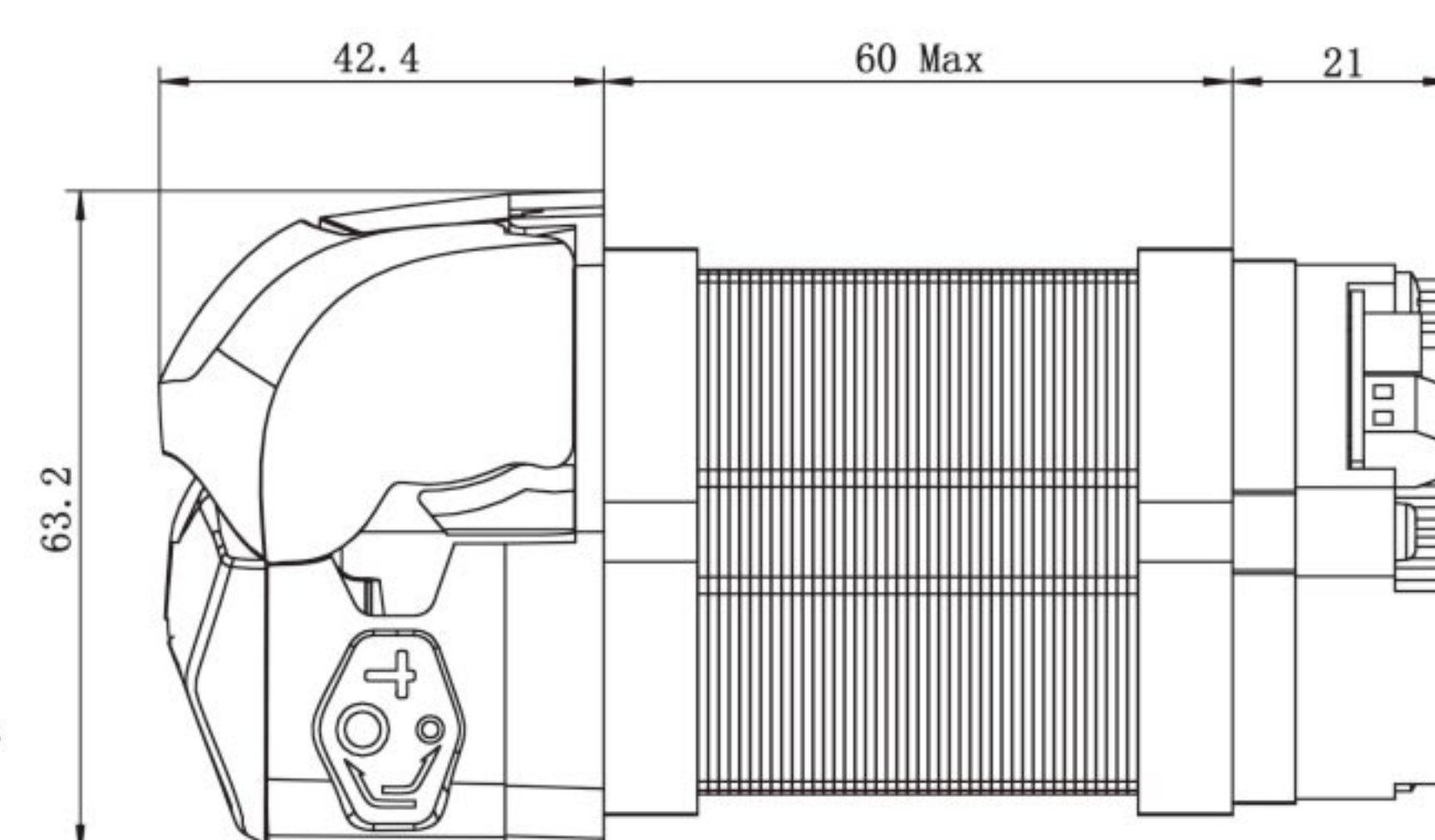
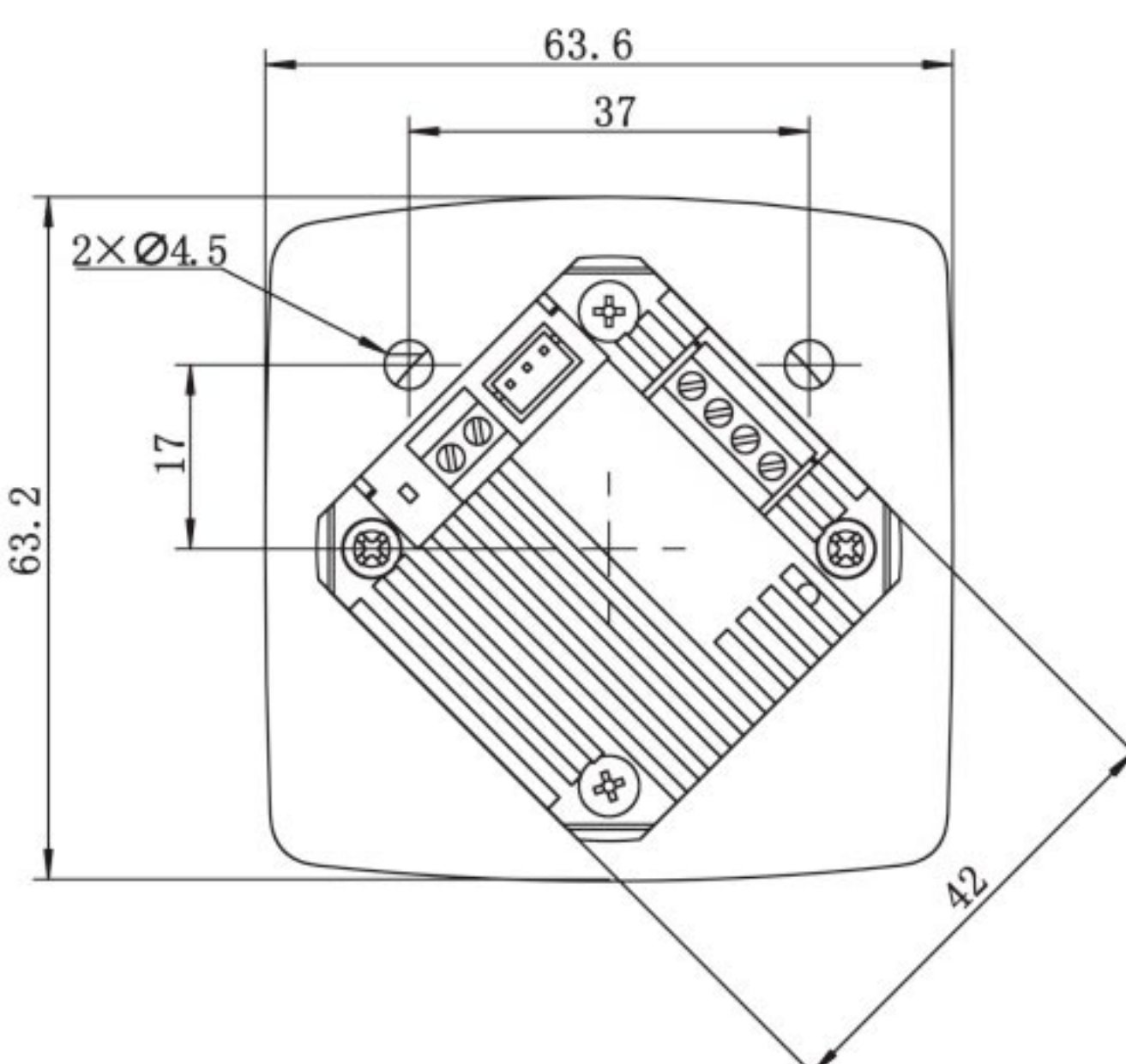
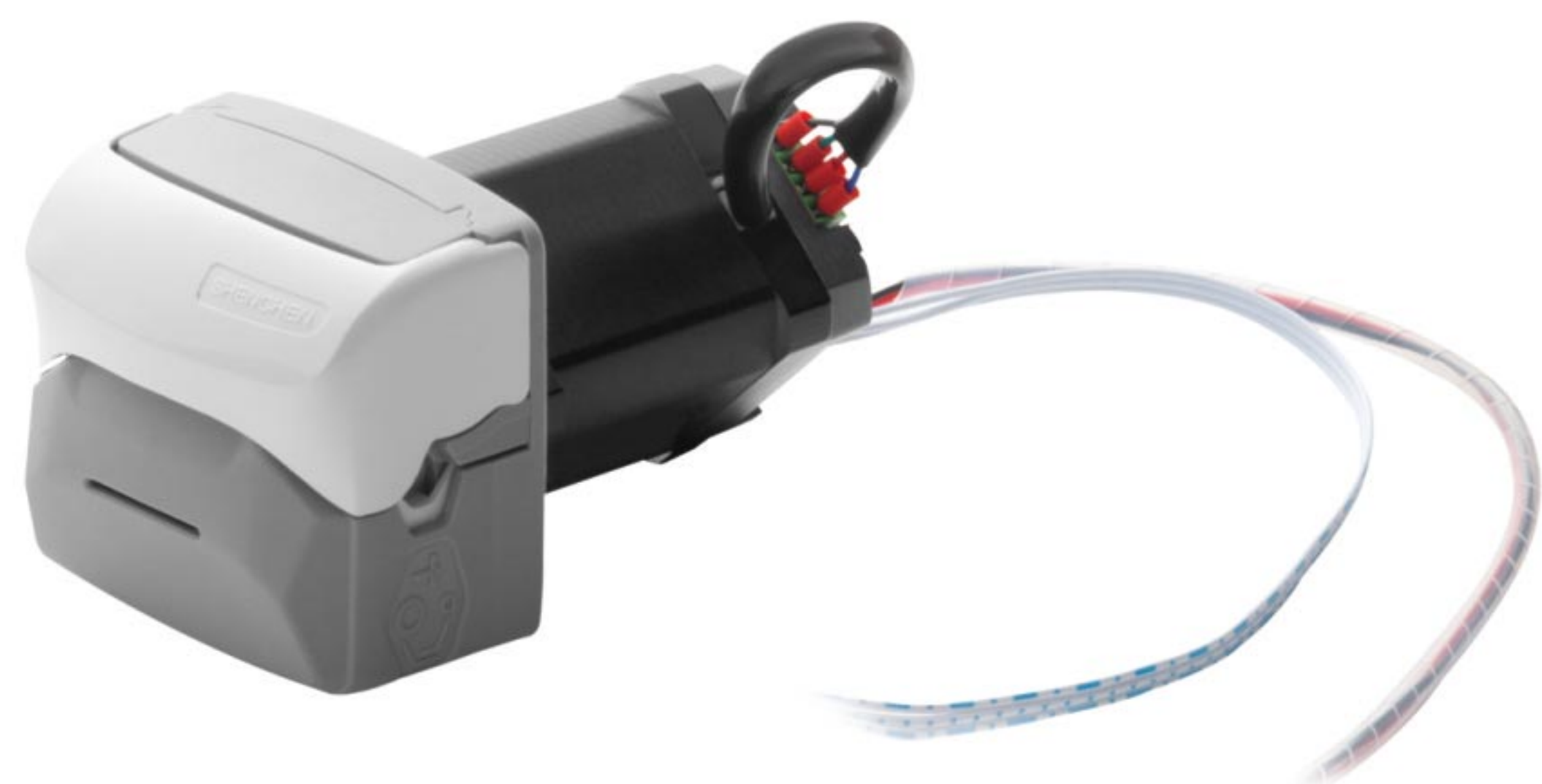


OEM Product

Compact Pump Head KT15

OEM-KTB009/KTB010

Dimension Drawing(Unit: mm)

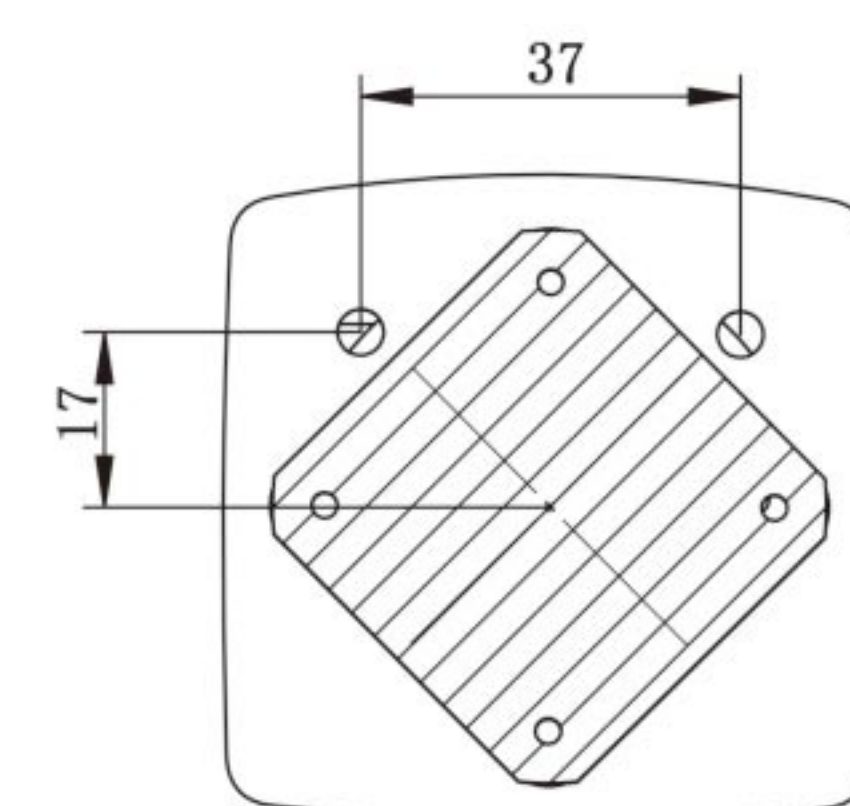
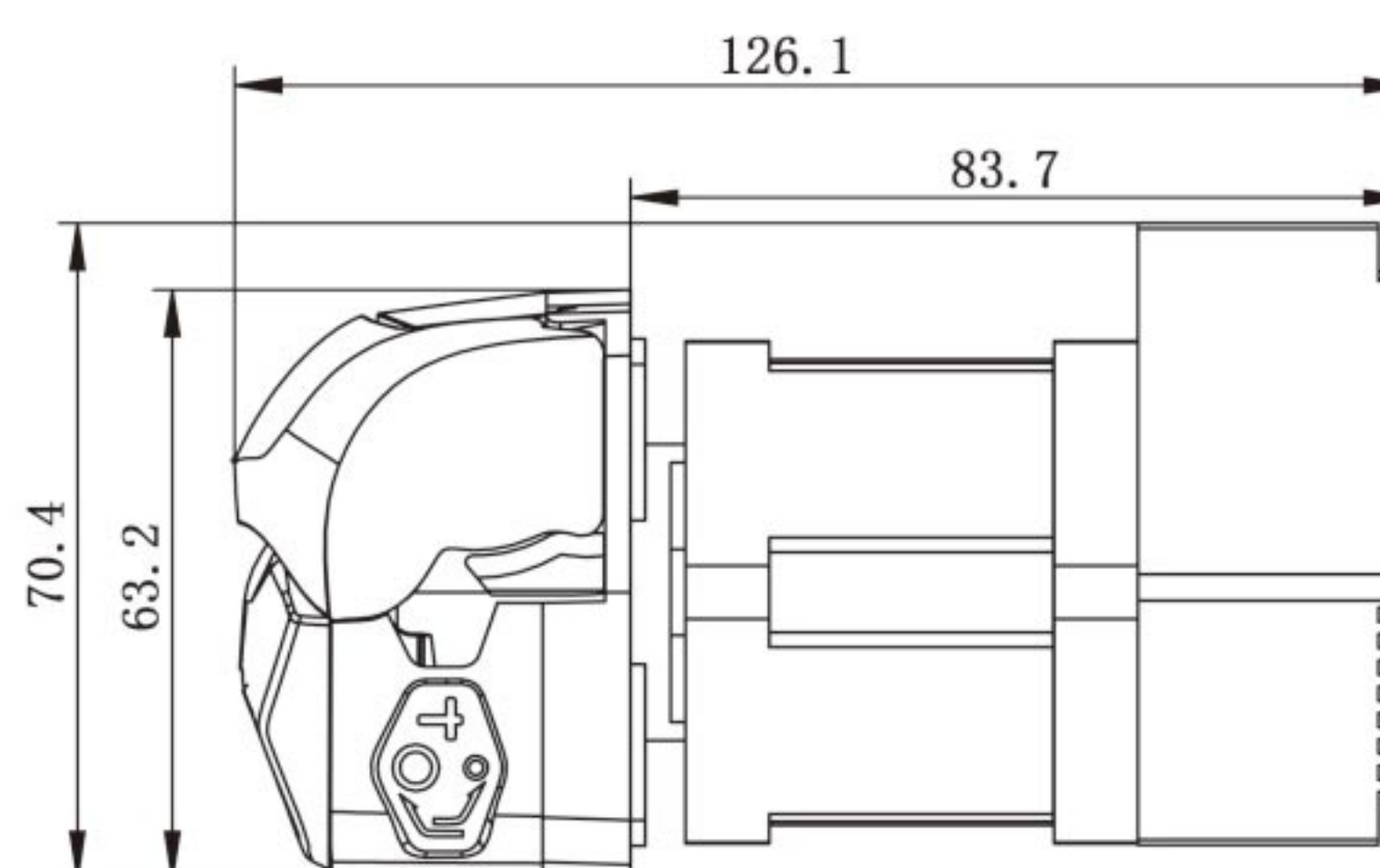
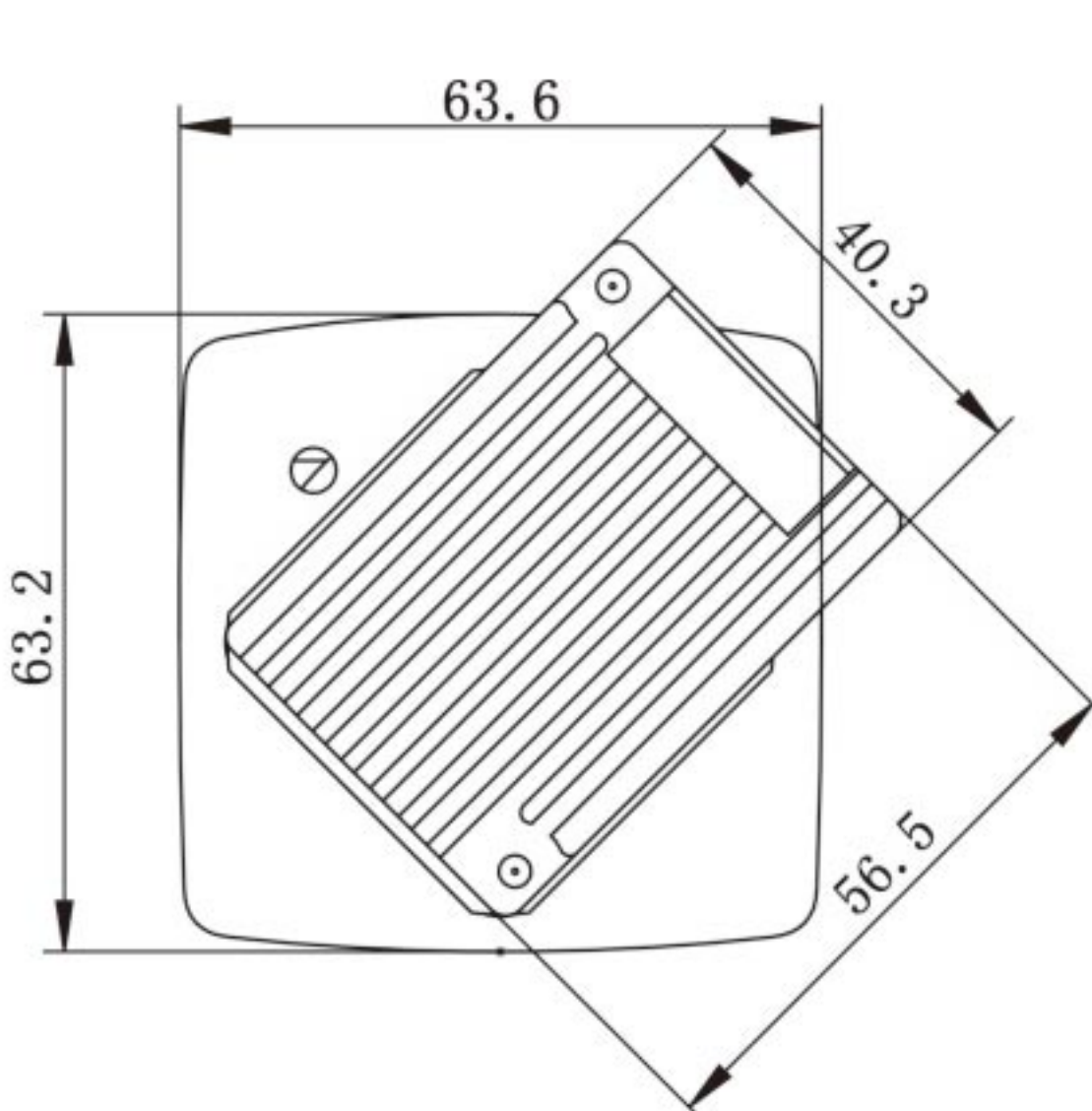


OEM-KTB009/KTB010 Technical Specifications

Speed range	0.1-400rpm	Motor type	42 stepper motor
Flow rate range	0.0033-373.2mL/min	Power supply	DC24V, ≥36W
Control mode	KTB009: RS232(Modbus protocol) KTB010: RS485(Modbus protocol)	Working environment	0-40℃, 80%RH

OEM-KTB012

Dimension Drawing(Unit: mm)

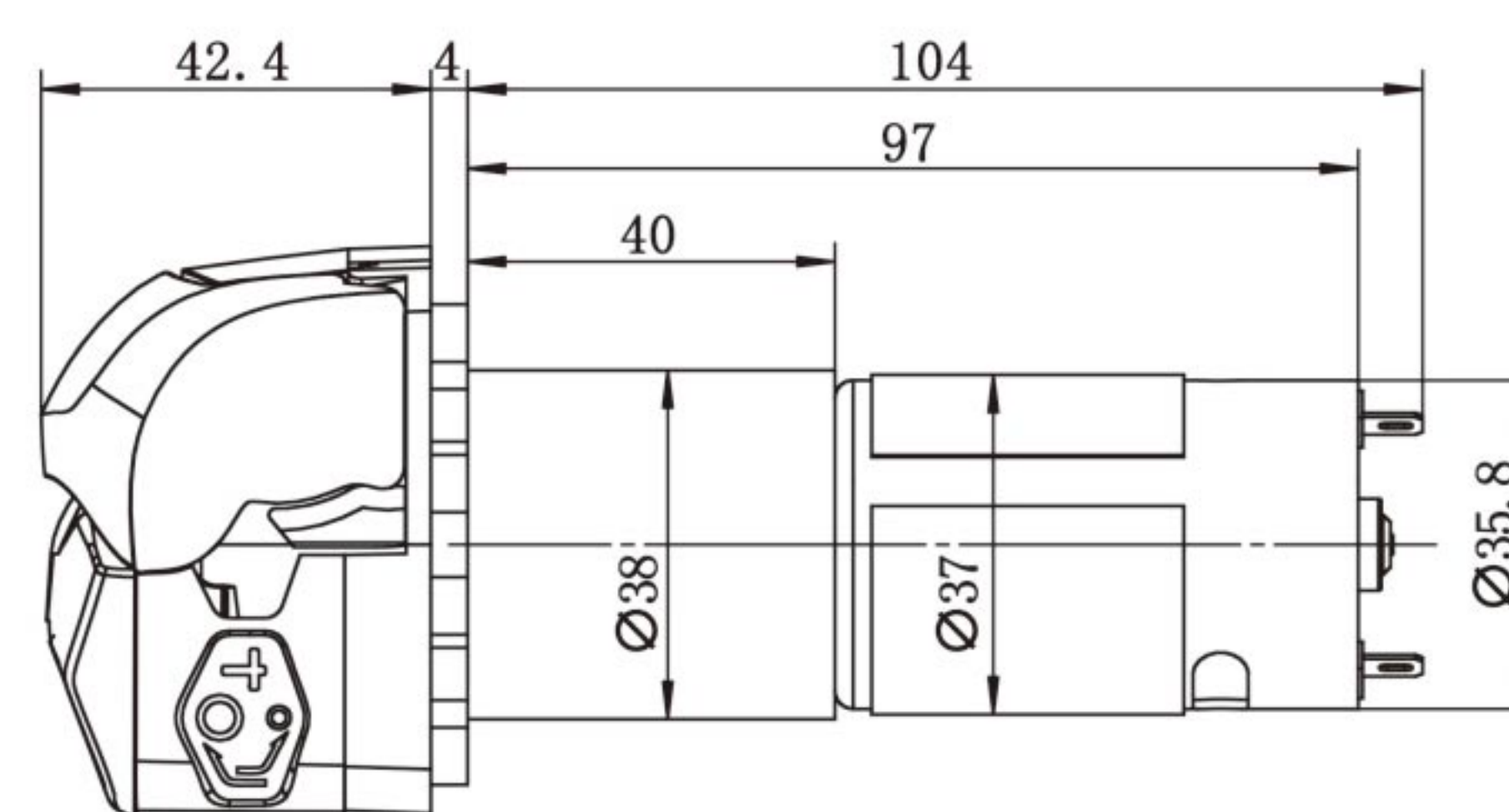
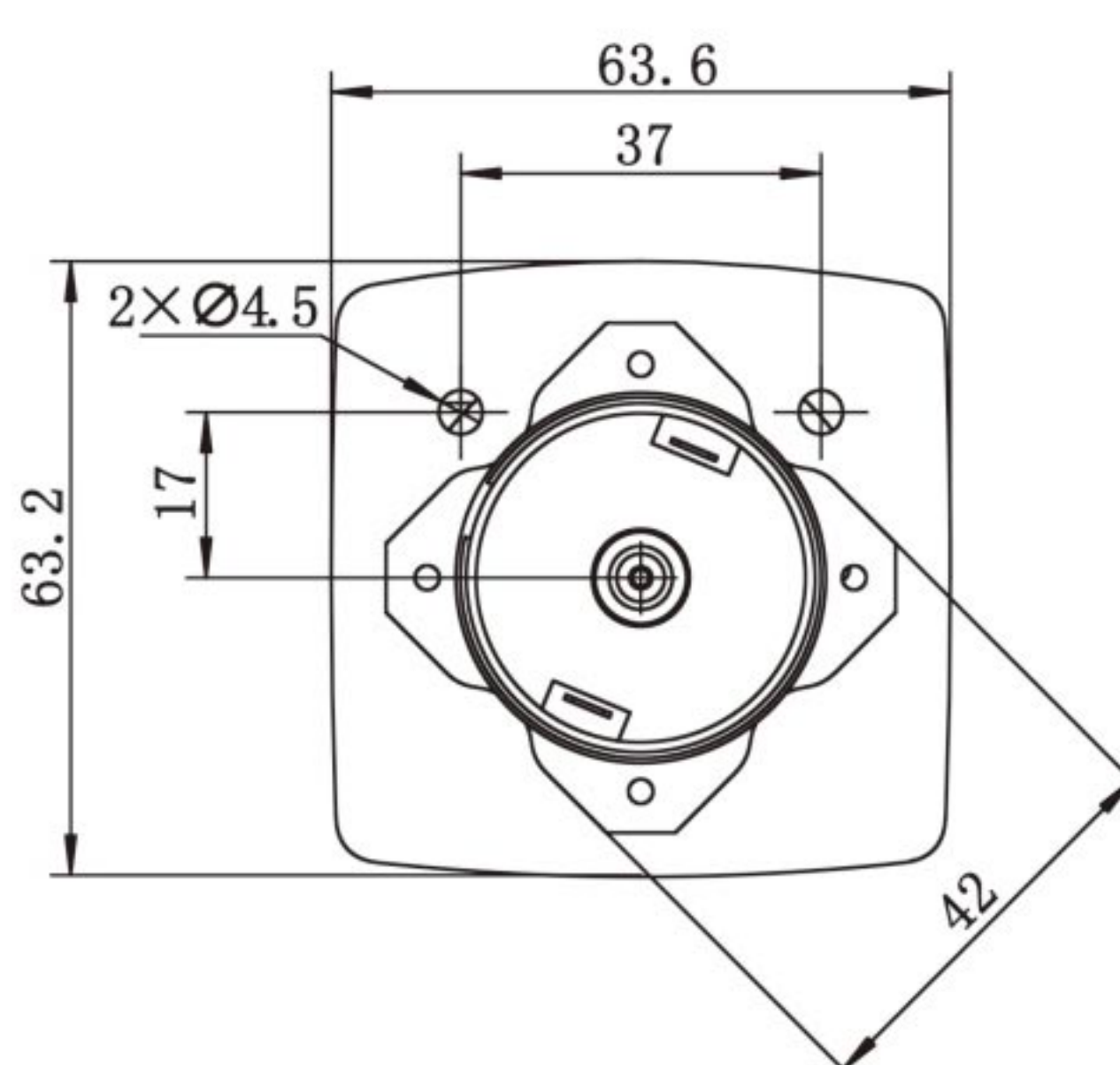


OEM-KTB012 Technical Specifications

Speed range	0.1-600rpm	Motor type	Integrated closed-loop stepper motor
Flow rate range	0.0033-560.04mL/min	Power supply	DC24V, ≥36W
Speed control	Pulse signal control speed, RS485	Logic input voltage	DC5V
Subdivisions	1/16(Default), can be set through RS485	Working environment	0-40℃, 80%RH

OEM-KTXZ001(DC motor)

Dimension Drawing(Unit: mm)



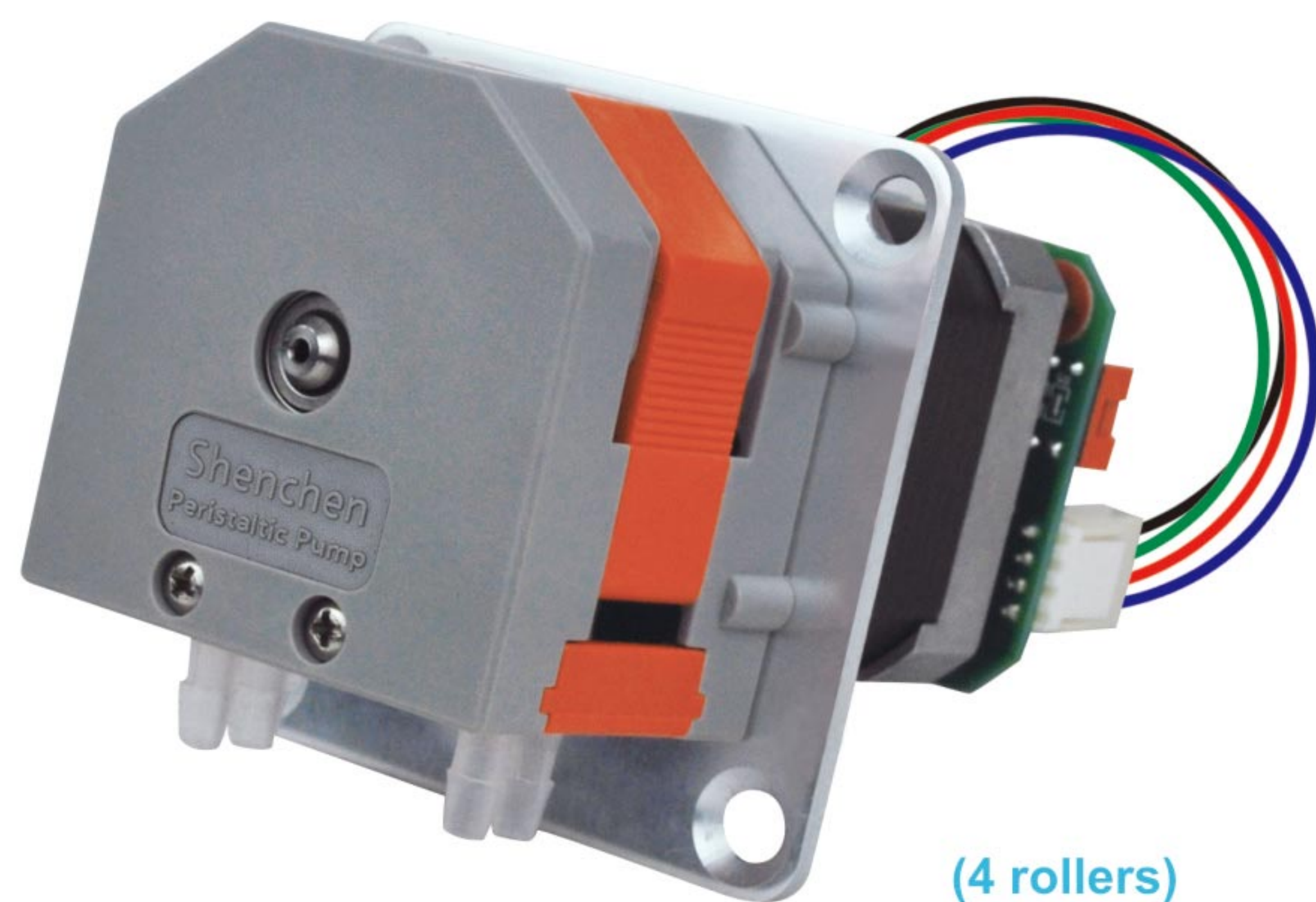
OEM-KTXZ001 Technical Specifications

Speed range	350rpm	Power supply	DC24V
Speed error	≤±10%	Working environment	0-40℃, 80%RH
Motor type	DC geared motor		

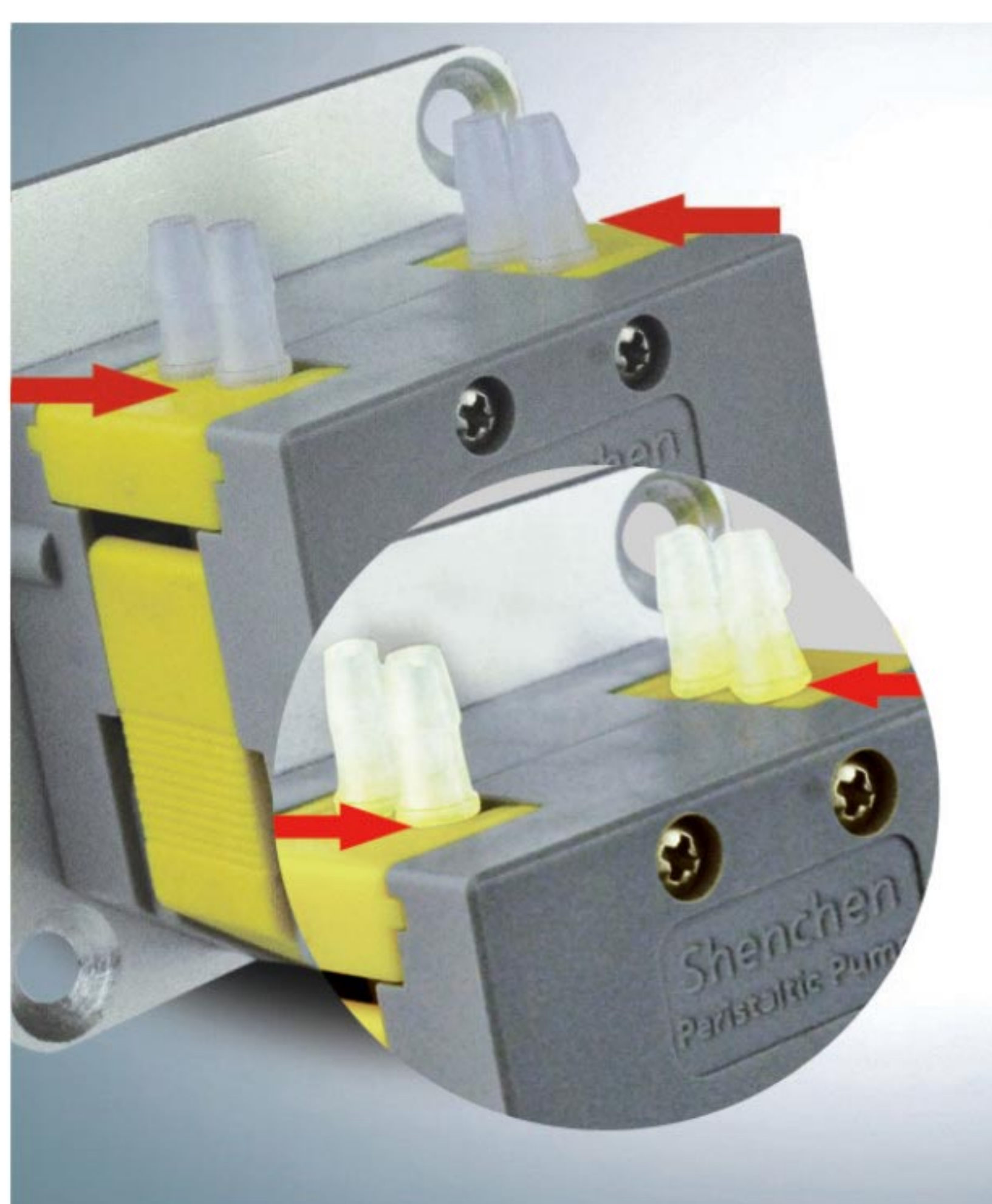


Compact Pump Head

MiniPump Series



(4 rollers)



Connection type installation hose

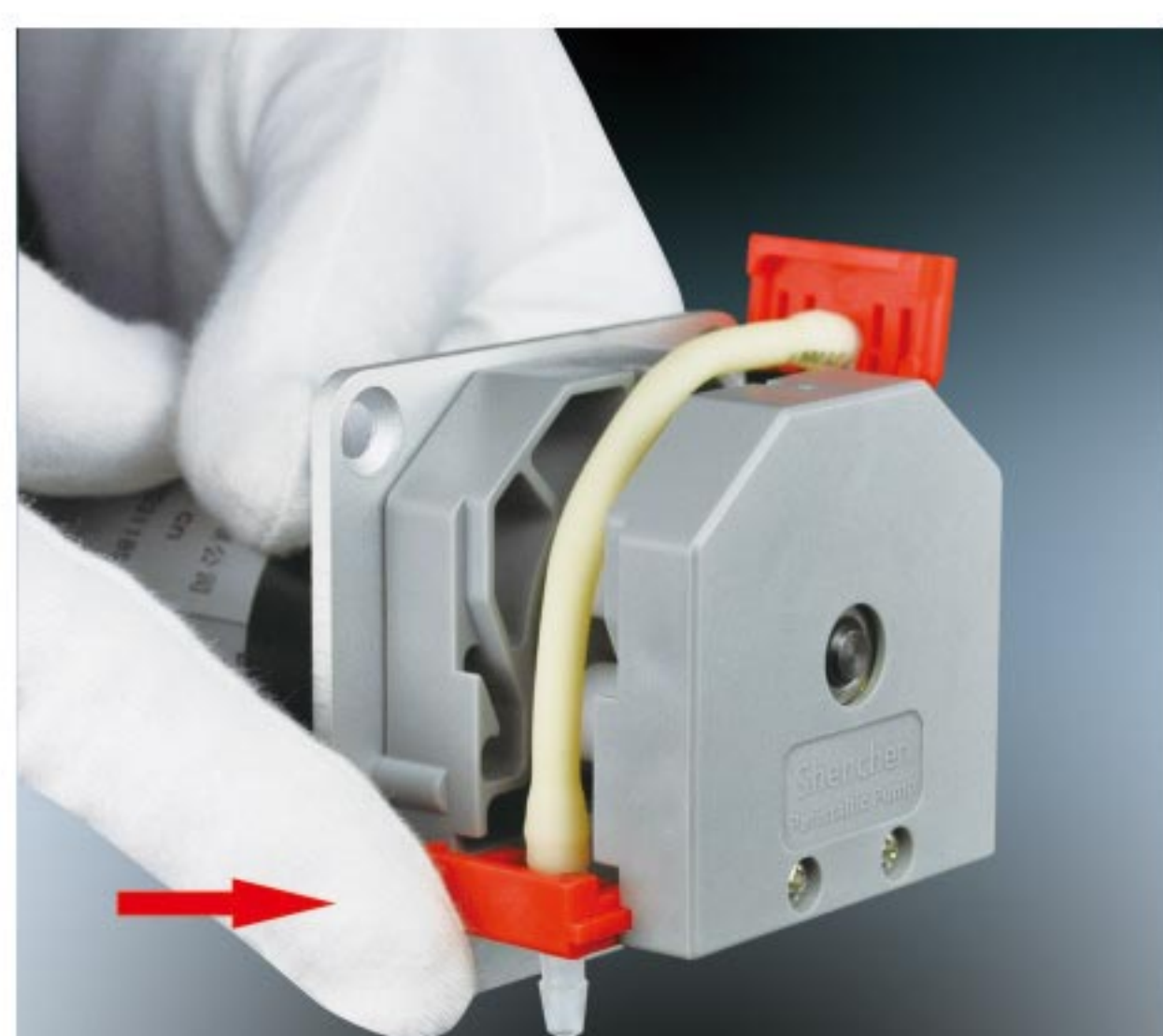
Standard fast plug ,
convenient for
external connection
with different
materials of the
tube, **flexible
application , cost
saving.**

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.



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

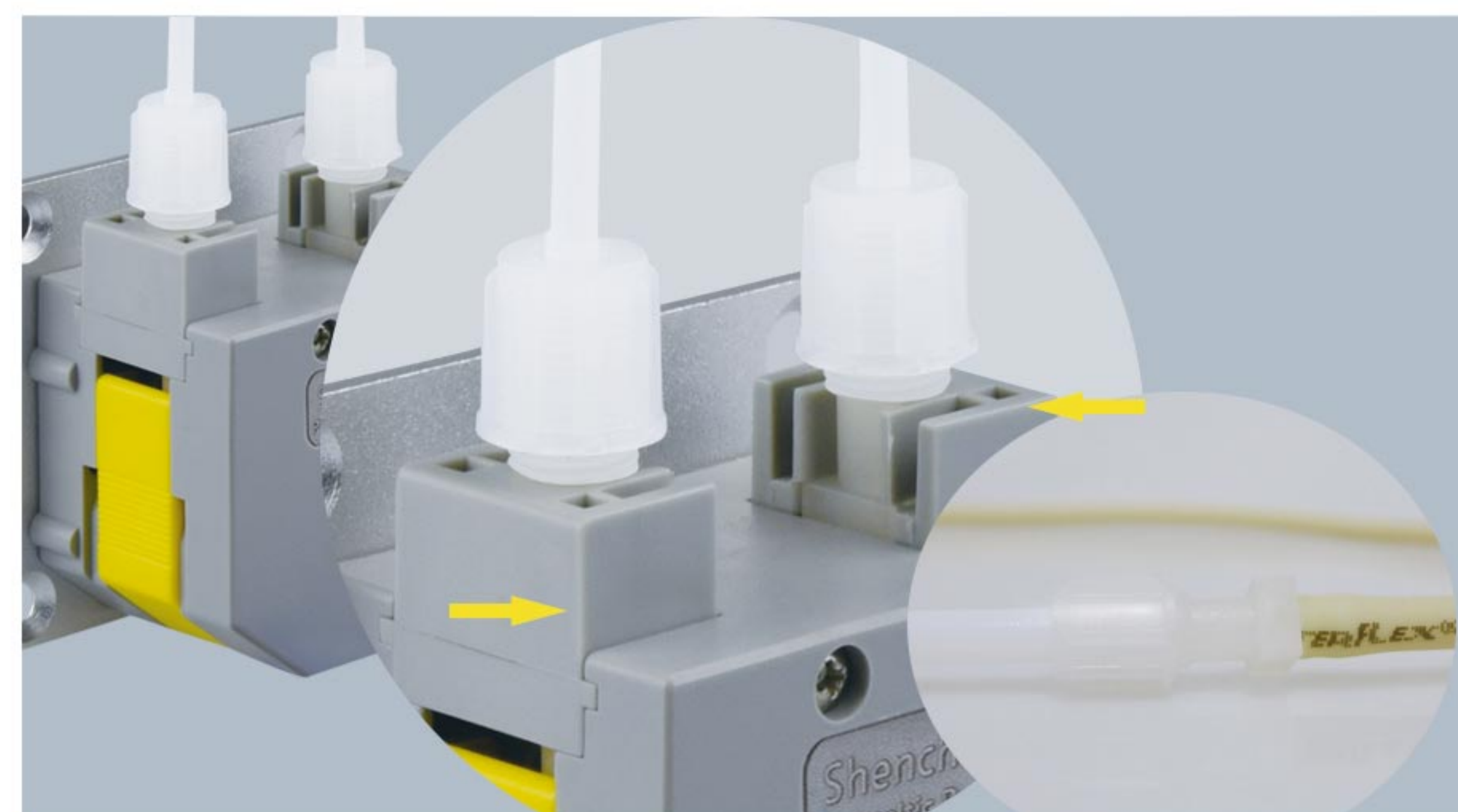


D. Press the compression block into the pump head, and ensure it fixed.



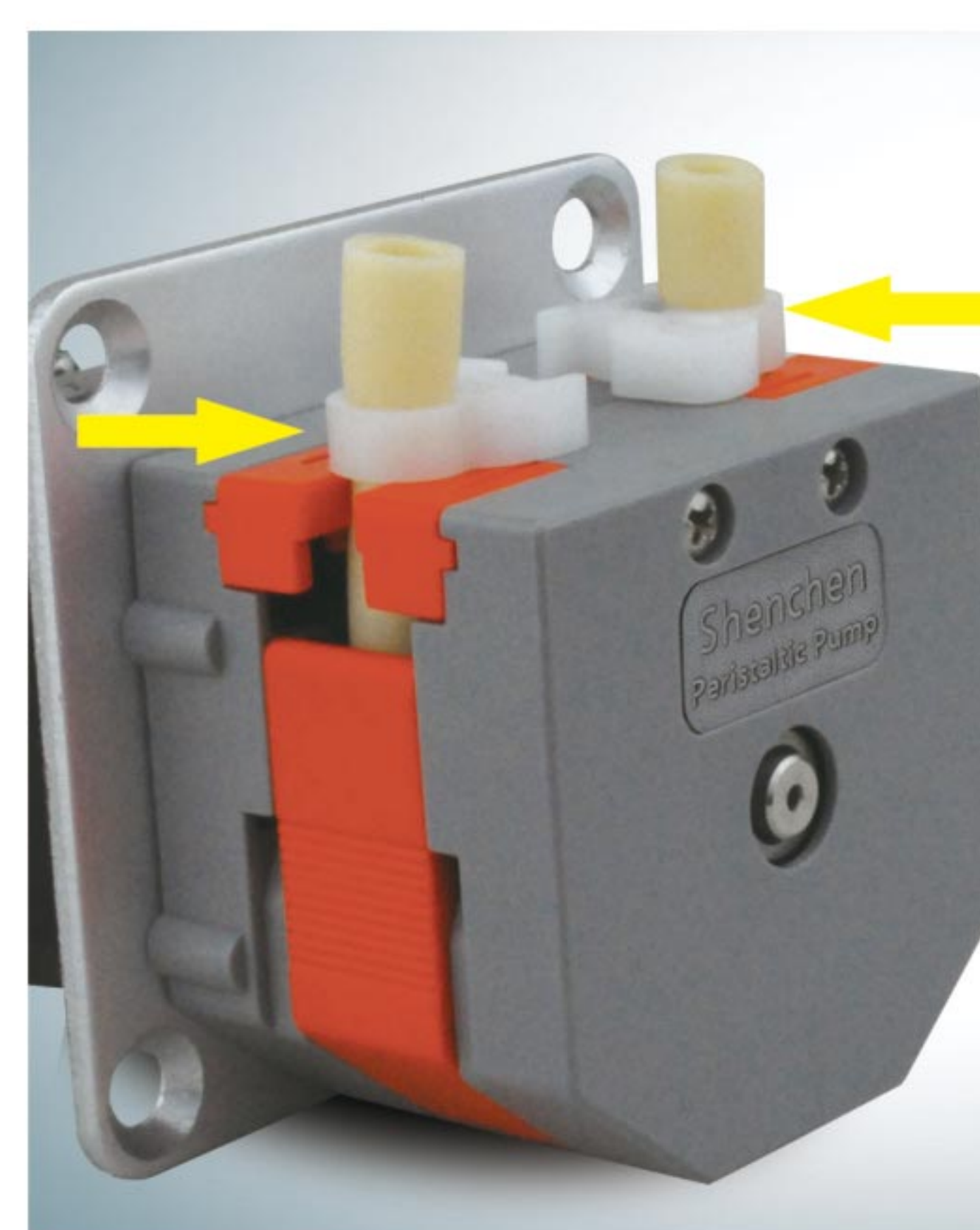
Product Introduction

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



Soft tube
connect to
hard tube

Supporting conversion connector (soft
tube transfer hard tube), connect directly
with a variety of hard tubes.

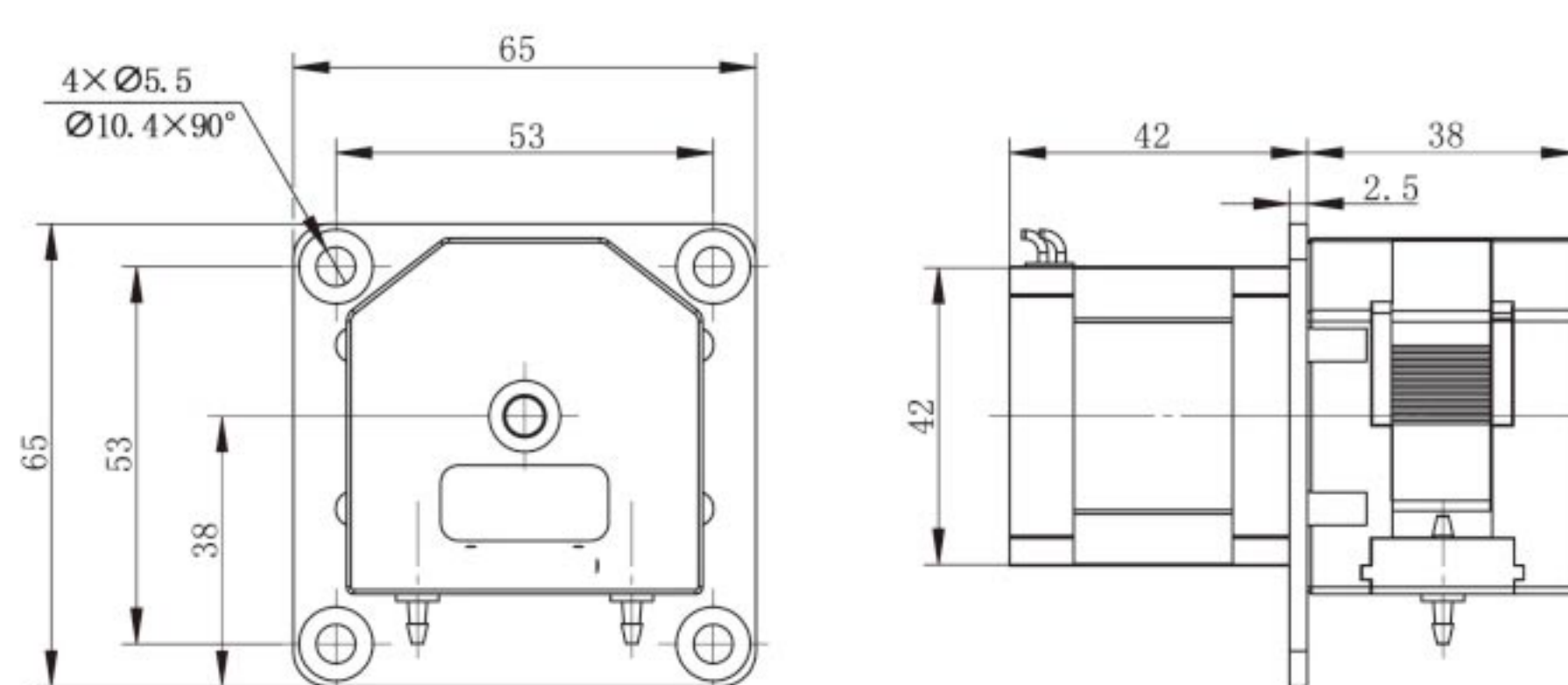


Install hose without connector

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

Typical Application

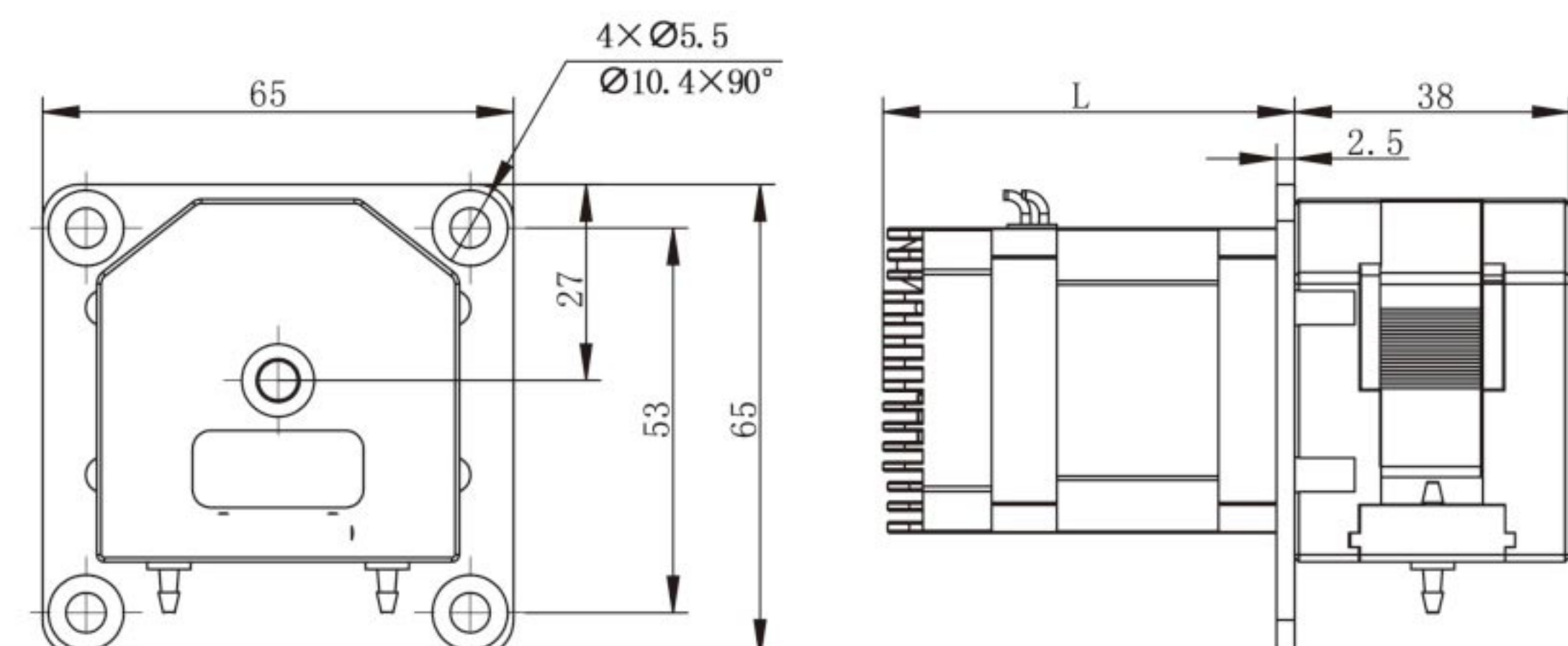
- | Discharge condensate water in the flue gases survey meter.
- | Support biochemistry analytical instruments.

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-B022, OEM-B067(with drive module)**Dimension Drawing(Unit: mm)**

Model No.	L
OEM-B02	57
OEM-B022	57
OEM-B067	83.5

**OEM-B02 Technical Specifications**

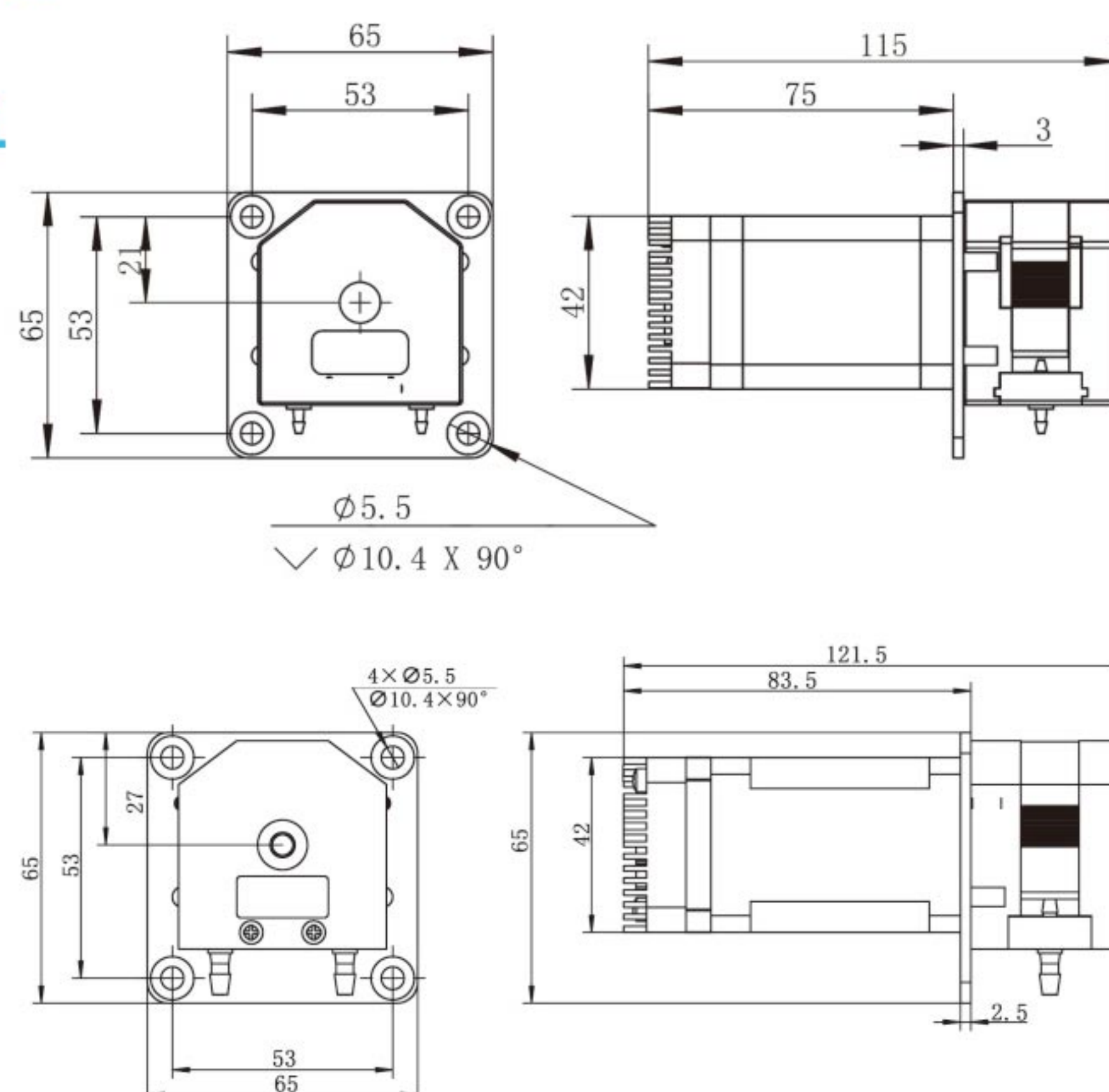
Speed range	0.1-300 rpm
Flow rate range	0.0024-190mL/min
Speed control	Preset speed or serial port control
Motor type	42 stepper motor
Power supply	DC 24V, ≥24W
Working environment	0-40°C, 80%RH

OEM-B022 Technical Specifications

Speed range	0.1-300 rpm
Flow rate range	0.0024-190mL/min
Speed control	Adjust speed by internal potentiometer
Motor type	42 stepper motor
Power supply	DC 24V, ≥24W
Working environment	0-40°C, 80%RH

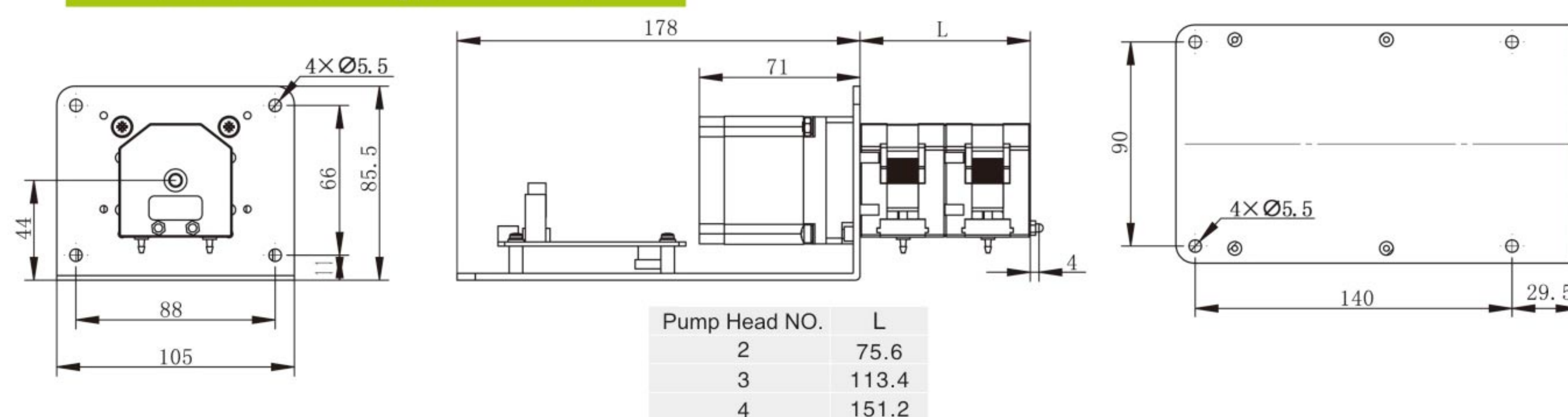
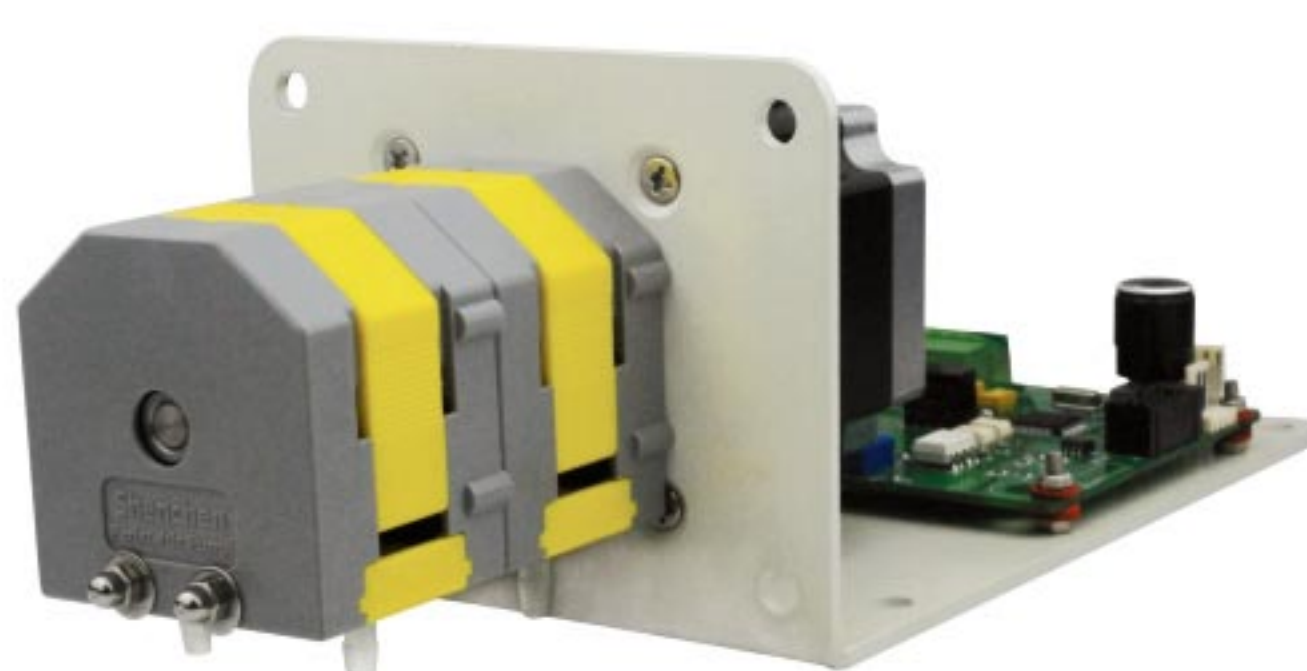
OEM-B067 Technical Specifications

Speed range	0.1-300 rpm
Flow rate range	0.0024-190mL/min
Speed control	External input pulse frequency speed control
Subdivision settings	1/16(recommend), 1, 1/2, 1/4, 1/8, 1/32, 1/64, 1/128
Motor type	42 stepper motor
Power supply	DC 24V, ≥36W
Working environment	0-40°C, 80%RH

**OEM-B047 OEM-B048
OEM-B049
OEM-B060 OEM-B061****Dimension Drawing(Unit: mm)**

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

Model No.	OEM-B060/OEM-B061
Speed range	0.1-300 rpm
Flow rate range	0.0024-190mL/min
Outer control	OEM-B060: RS232 interface (Modbus) OEM-B061: RS485 interface (Modbus)
Motor type	42 stepper motor
Power supply	DC 24V, ≥36W
Working environment	0-40°C, 80%RH

OEM-B136, OEM-B137**Dimension Drawing(Unit: mm)**

Pump Head NO.	L
2	75.6
3	113.4
4	151.2

OEM-B136 Technical Specifications

Speed range	0.1-300 rpm
Flow rate range	0.0024-190mL/min
Speed control	Preset speed and manual control
Control mode	External passive signal level (normally closed or open) mode; control the start/stop of direction
Display(optional)	0.96" OLED screen
Motor type	57 stepper motor
Power supply	DC 24V, ≥50W
Working environment	0-40°C, 80%RH

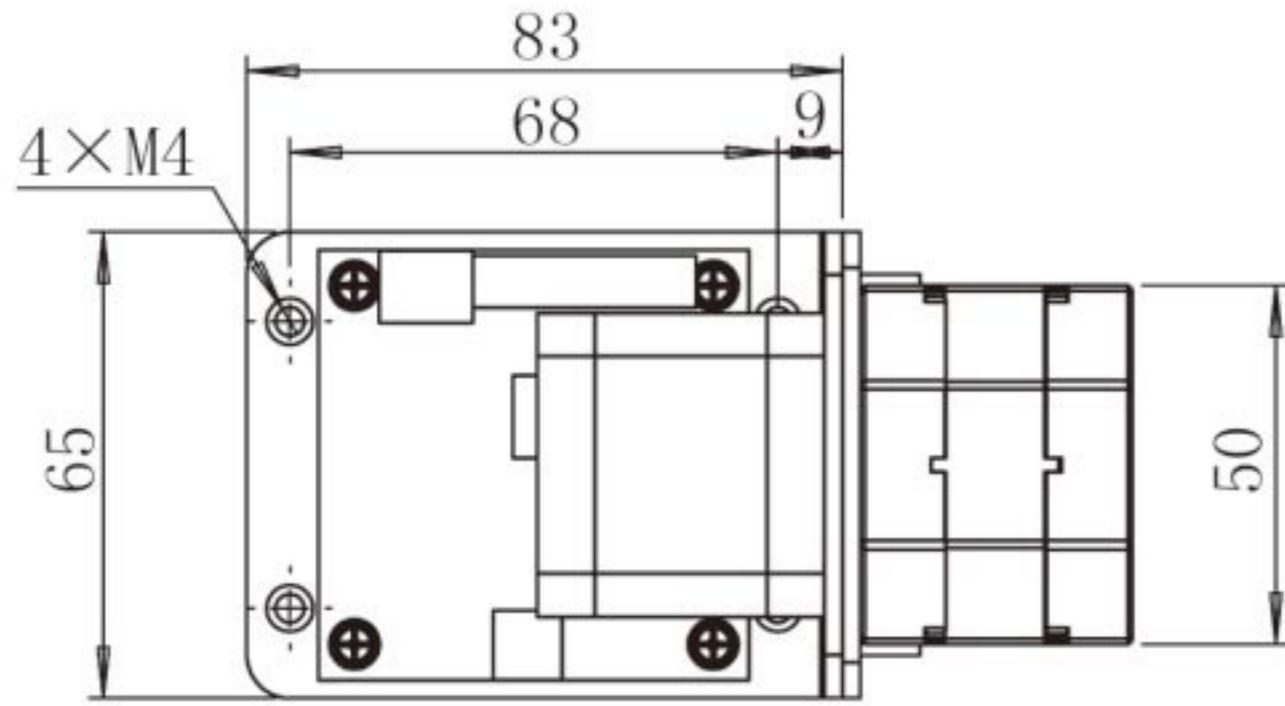
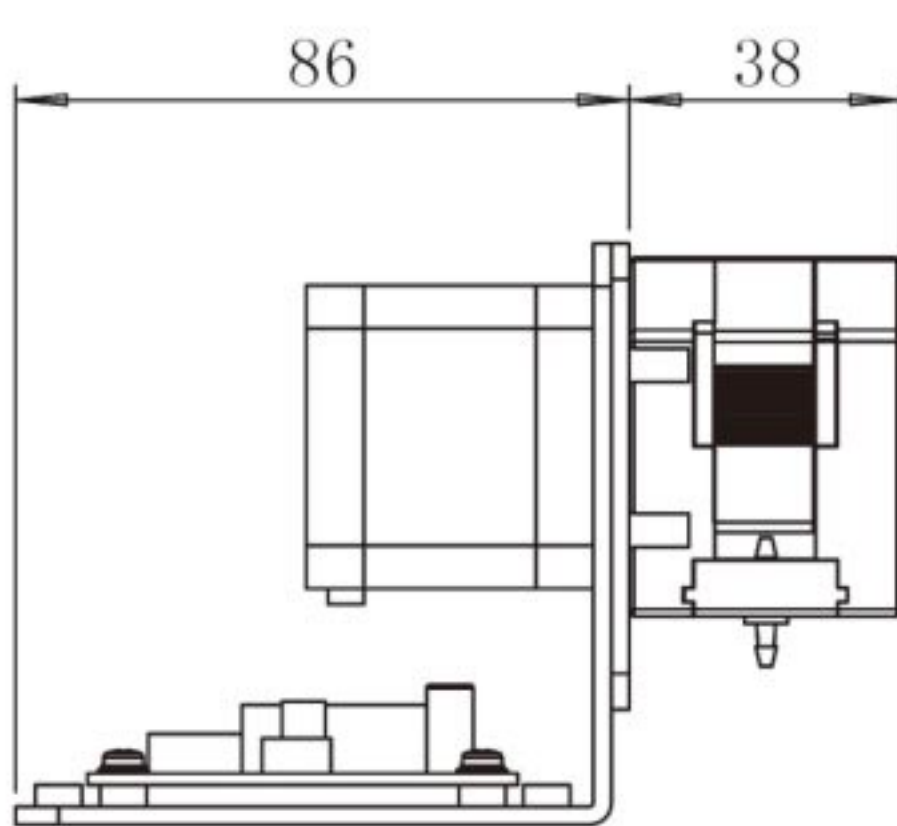
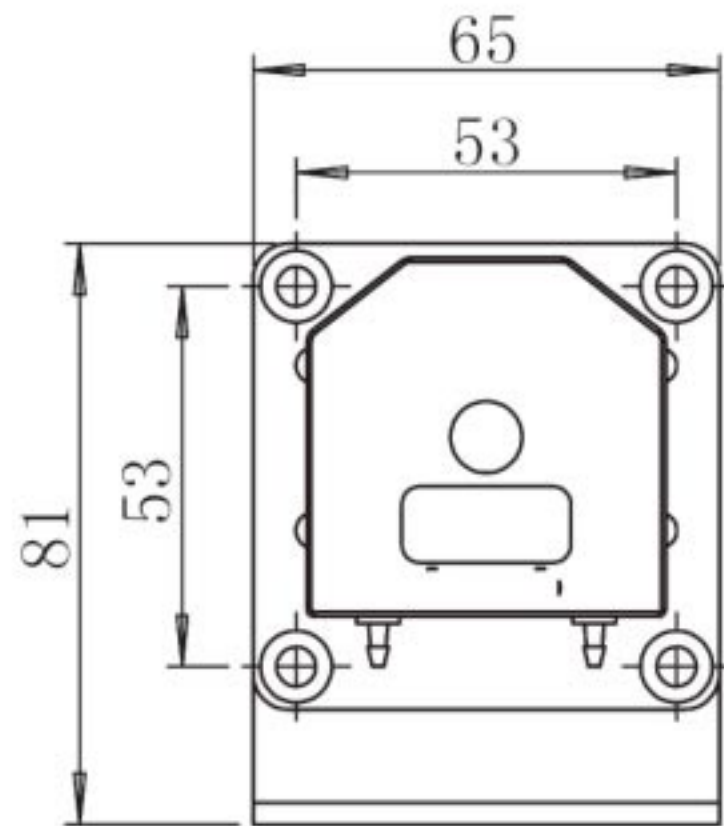
OEM-B137 Technical Specifications

Speed range	0.1-300 rpm
Flow rate range	0.0024-190mL/min
Speed control	Pulse frequency speed control
Logic input voltage	5V, 12V, 24V(default 5V)
Multiple segments	1/16(recommend), 1, 1/2, 1/4, 1/8, 1/32, 1/64, 1/128
Motor type	57 stepper motor
Power supply	DC 24V, ≥50W
Working environment	0-40°C, 80%RH



OEM-B013

Dimension Drawing(Unit: mm)

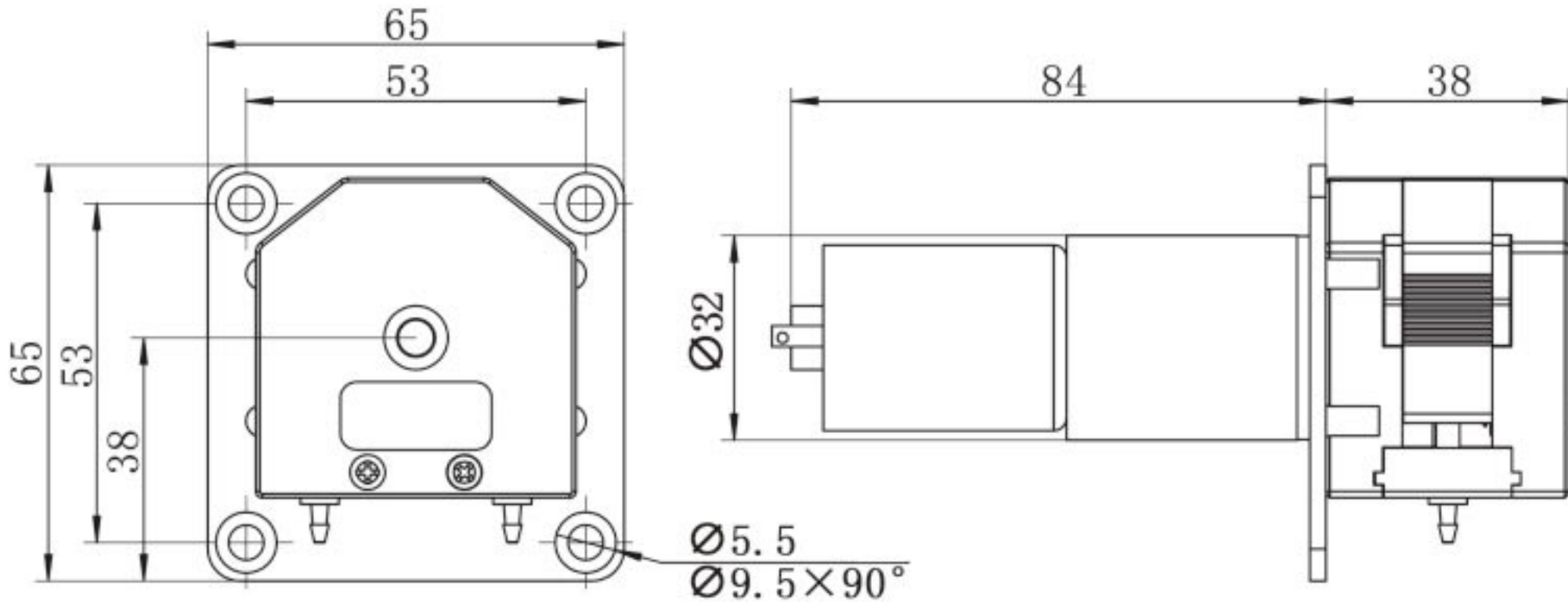


OEM-B013 Technical Specifications

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

OEM-MZ Series

Dimension Drawing(Unit: mm)

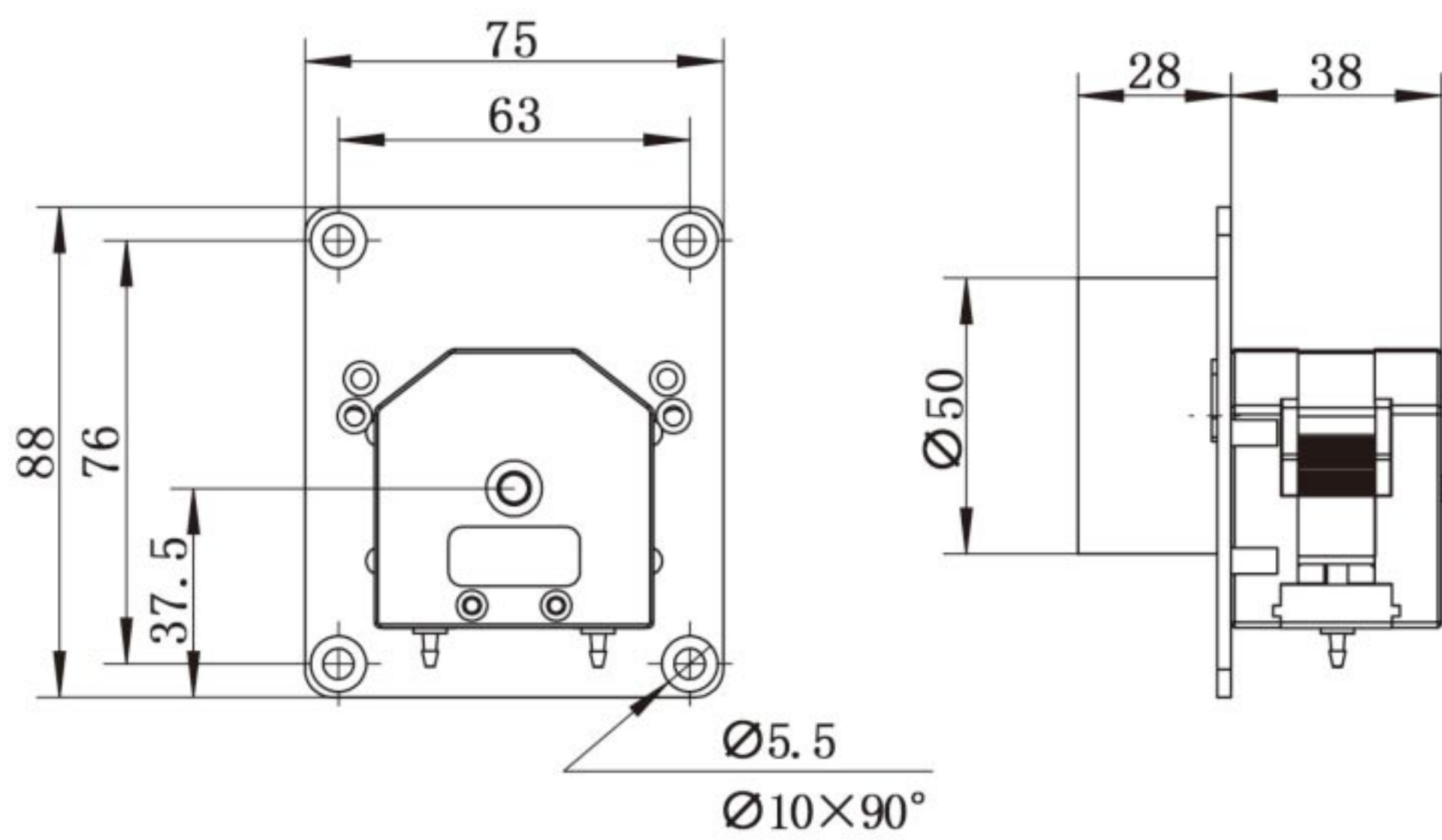


Note: OEM-MZ306 outline dimension drawing

Model No.	Motor Type	Power Supply	Motor Speed (rpm±10%)	Flow Rate (mL/min)
OEM-MZ001	Φ37 DC motor	DC12V	170	≤107.67
OEM-MZ004			300	≤190.00
OEM-MZ104		DC24V	20	≤12.67
OEM-MZ107			100	≤61.98
OEM-MZ108			160	≤101.33
OEM-MZ111			300	≤190.00
OEM-MZ304	Φ32 DC planetary gear motor	DC24V	50	≤31.14
OEM-MZ306			100	≤61.98

OEM-MJ Series

Dimension Drawing(Unit: mm)



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

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

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

Technical Specifications

Pump Head	Tubing	ID×Wall (thickness (mm))	mL/r	Speed (rpm)	Flow Rate (mL/min)
MiniPump01	13 [#]	0.8×1.6	0.024	0.1~300	0.0024-8.28
	14 [#]	1.6×1.6	0.112		0.0112-33.88
	19 [#]	2.4×1.6	0.252		0.0252-77.23
	16 [#]	3.1×1.6	0.394		0.0394-114.31
	25 [#]	4.8×1.6	0.652		0.0652-190.00
	1×1	1×1	0.05		0.005-15.01
	2×1	2×1	0.18		0.018-54.63
	2.5×1	2.5×1	0.256		0.0256-76.84
	3×1	3×1	0.356		0.0356-108.39
MiniPump02	1×1	1×1	0.05	0.1~300	0.005-15.01
	2×1	2×1	0.18		0.018-54.63
	2.5×1	2.5×1	0.256		0.0256-76.84
	3×1	3×1	0.356		0.0356-108.39



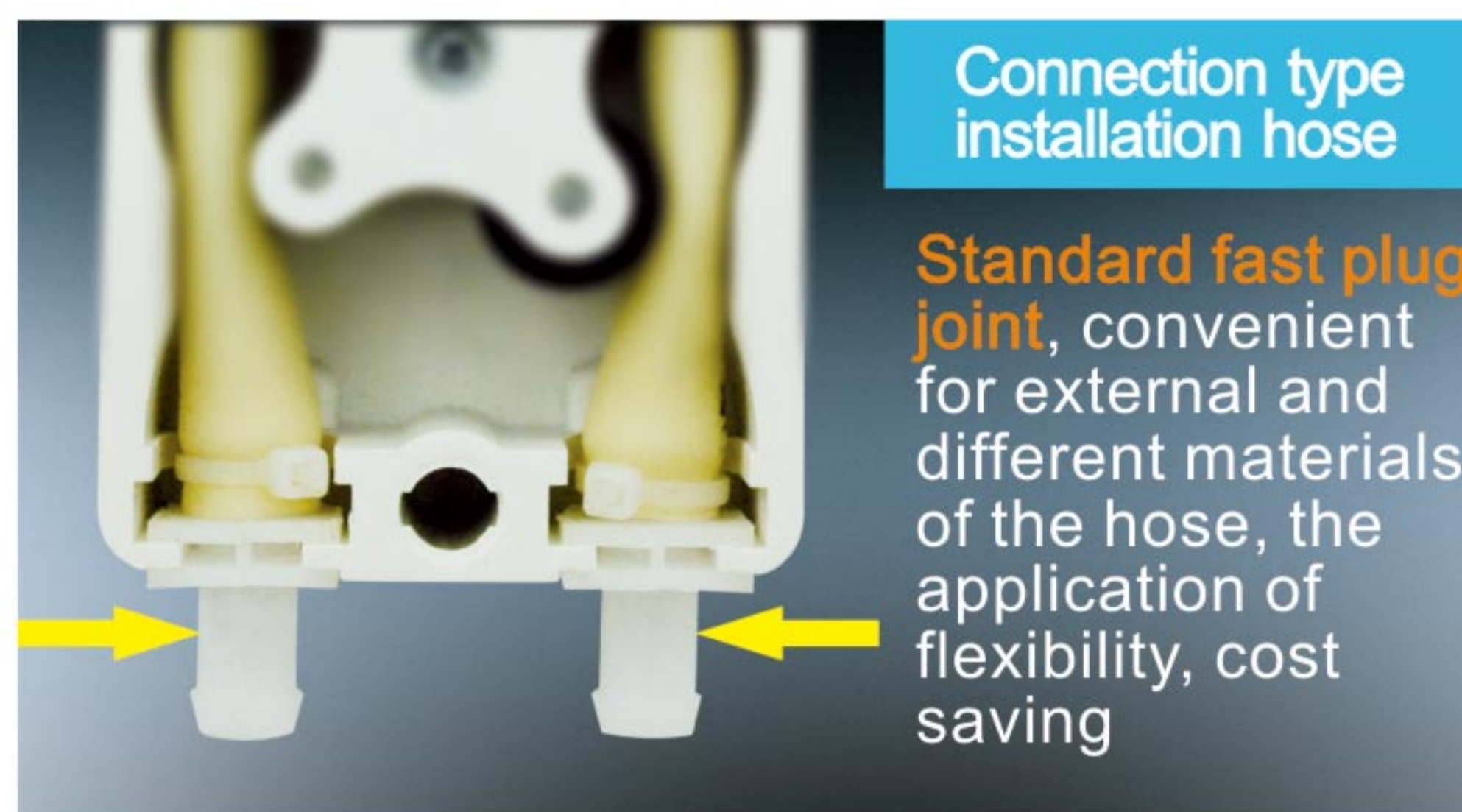
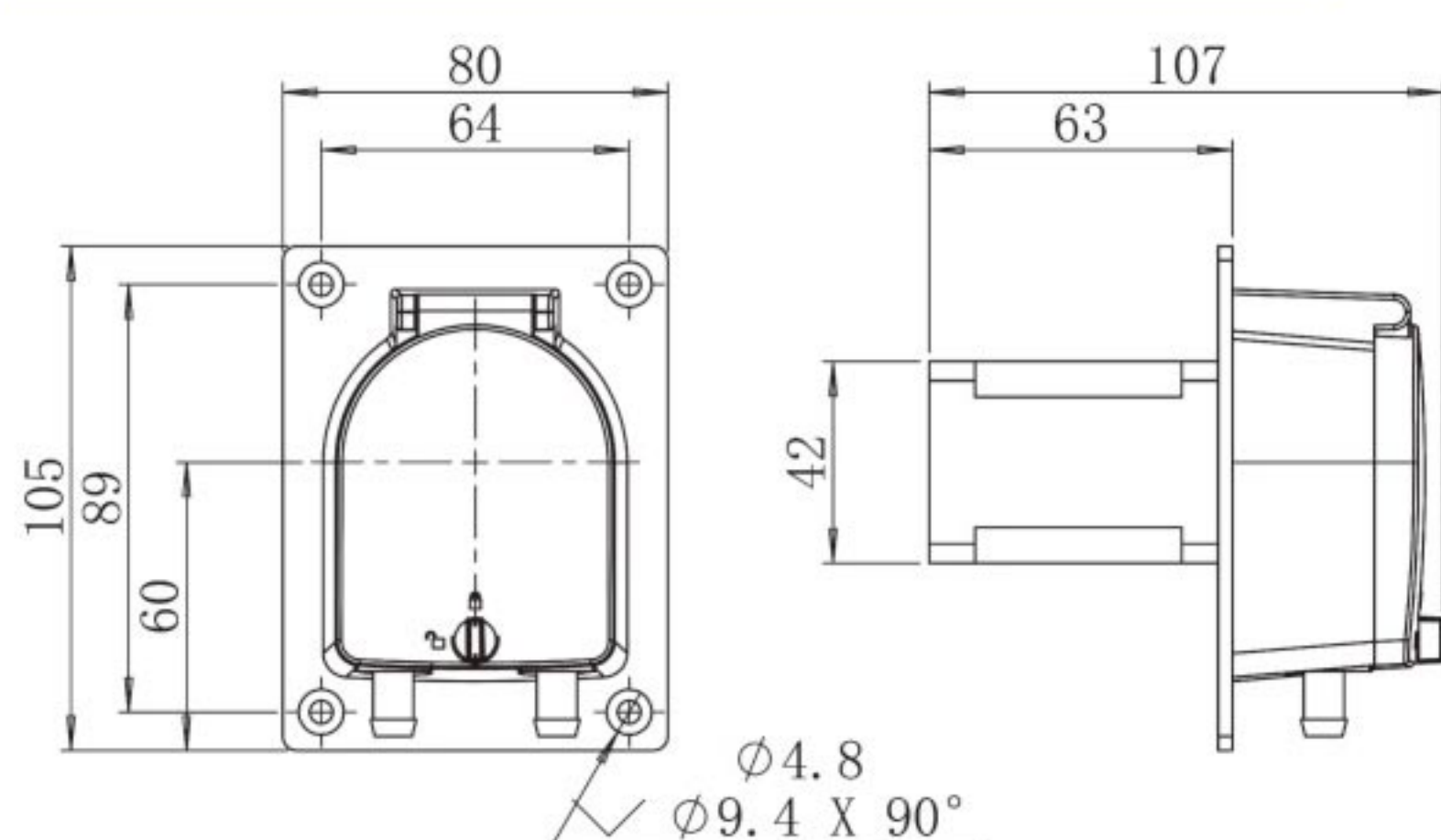
Compact Pump Head

UD15



(2 rollers)

Dimension Drawing(Unit: mm)



Connection type
installation hose

Standard fast plug joint, convenient for external and different materials of the hose, the application of flexibility, cost saving



Install hose without
connector

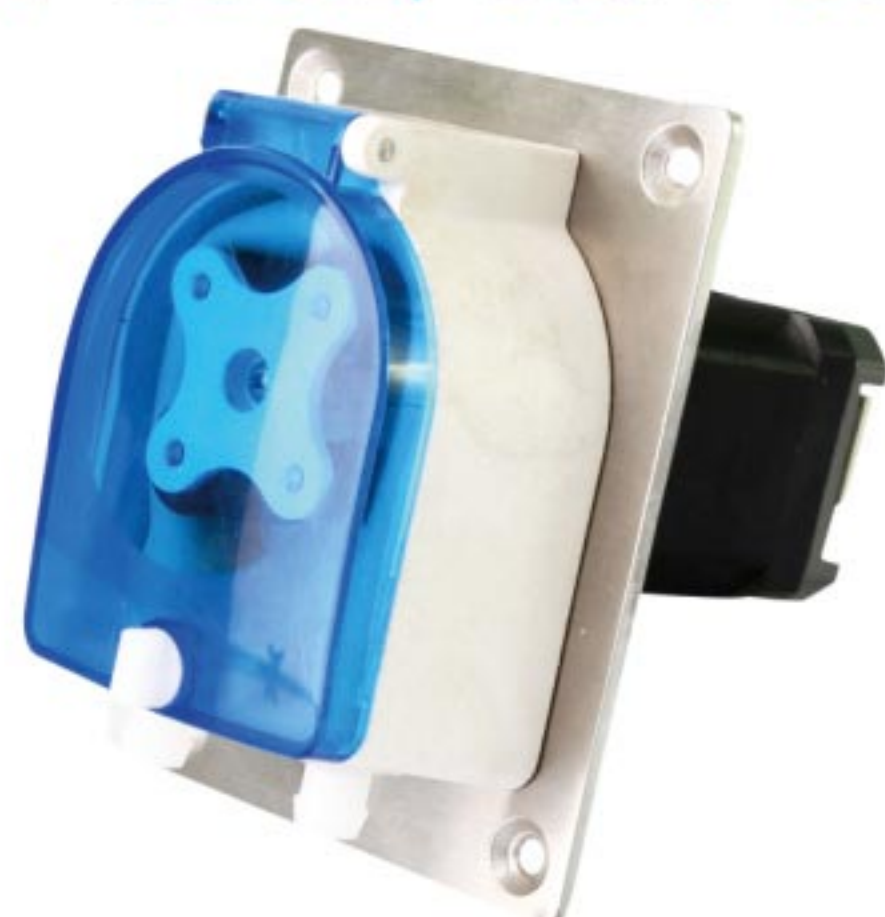
1. Adopt special hygienic grade tube, The whole tube is installed.
2. No connection simplifies design to **prevent leakage and pollution risk.**

Product Introduction

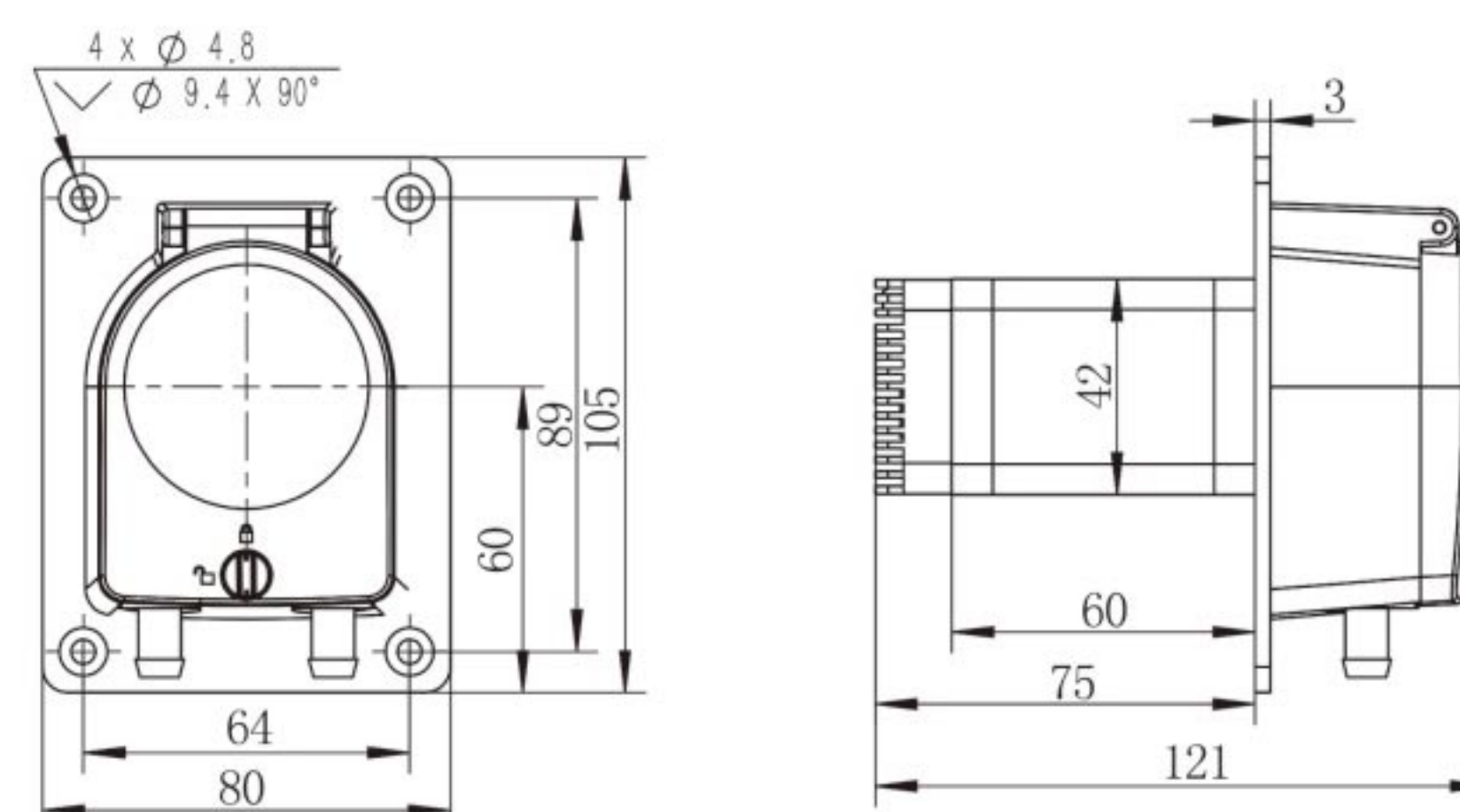
PES material, transparent protecting cover, easily to observe the working situation of pump head and tubing at any time. Various of colors are available. There is water-proof groove in the pump head mounting side. Can use stepper motor, DC motor, AC motor and so on to drive.

Model No.	OEM-UB01
Speed range	0.1-350 rpm
Flow rate range	0.08-930mL/min
Motor type	42 stepper motor
Motor phase number	2
Motor step angle	1.8°
Motor phase voltage	2.2V
Motor phase current	1.0A
Working environment	0-40°C, 80%RH

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

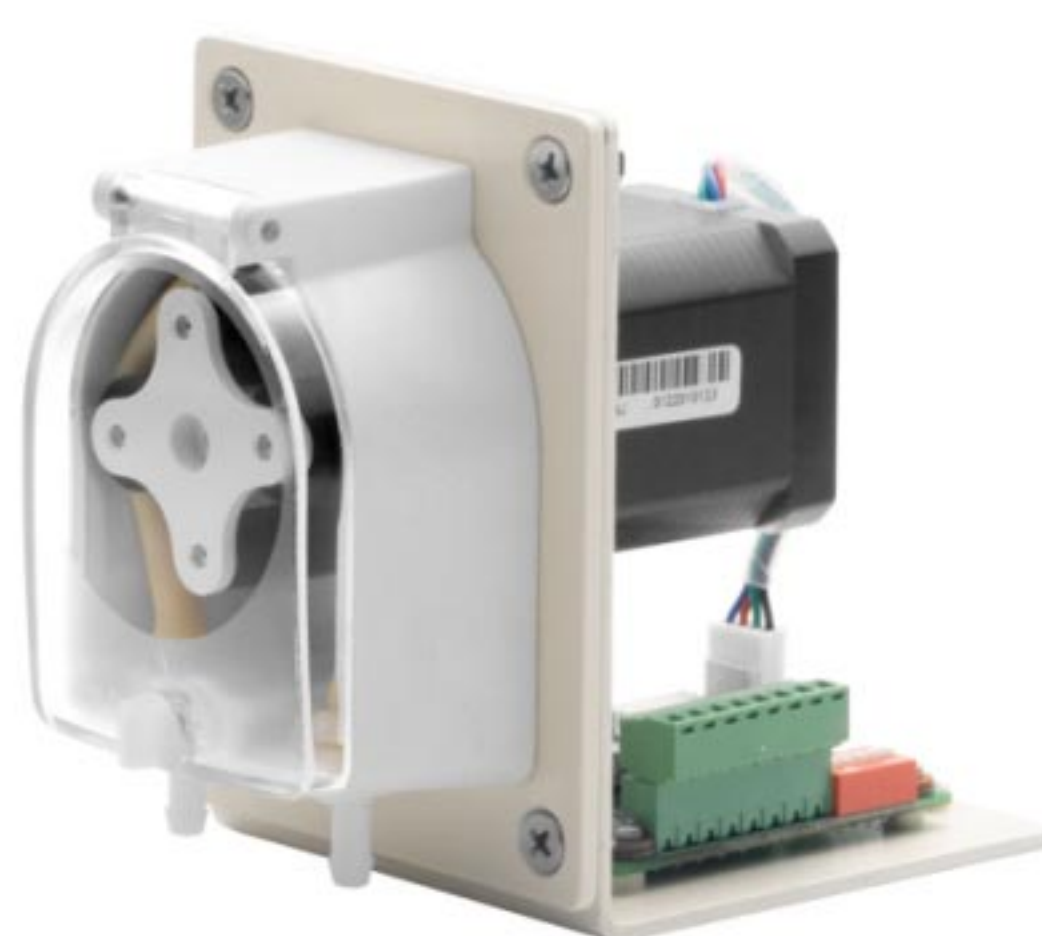


Dimension Drawing(Unit: mm)

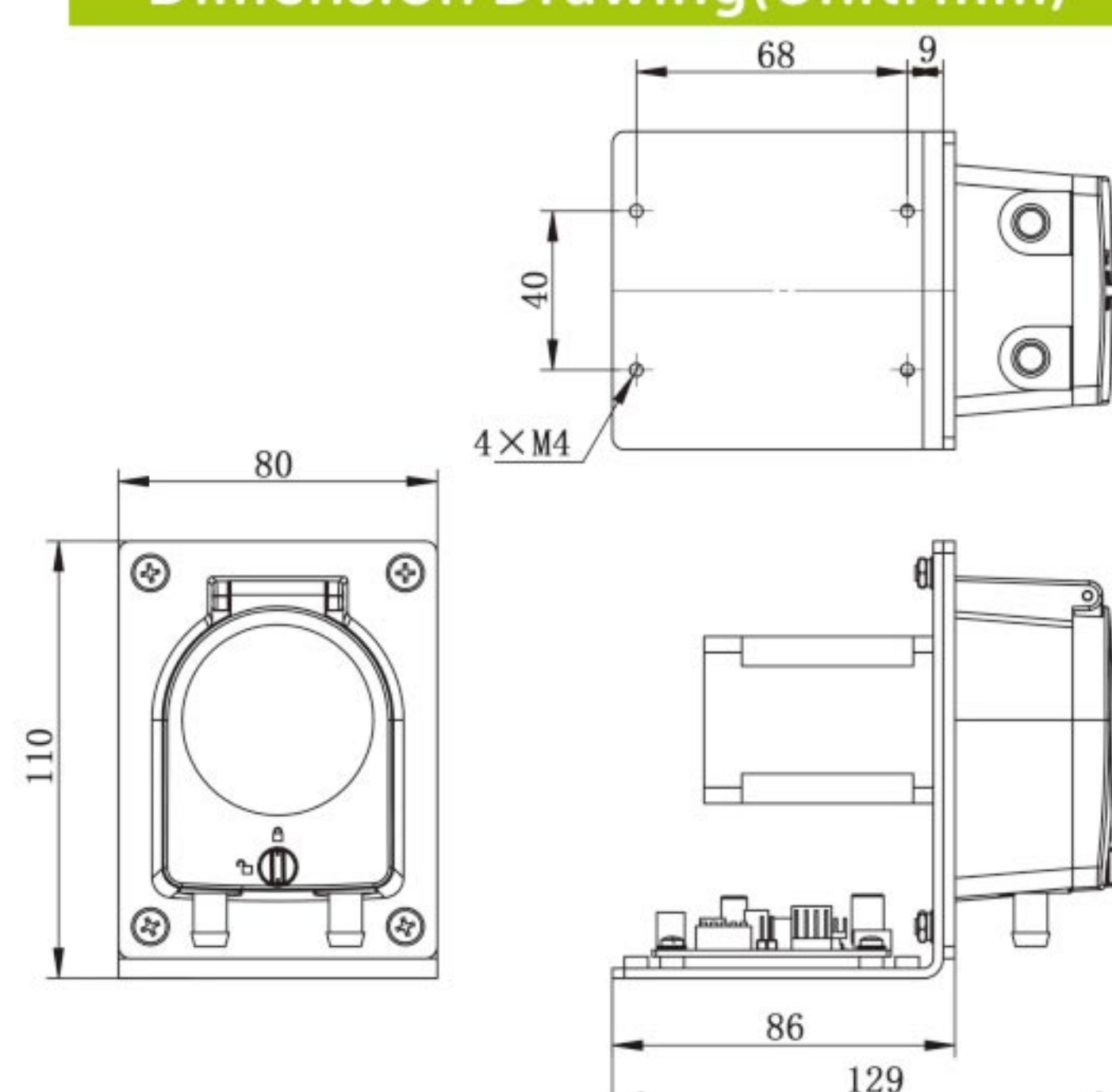


OEM-UB02 Technical Specifications		OEM-UB09/UB010 Technical Specifications		OEM-UB016 Technical Specifications	
Speed range	0.1-350 rpm	Speed range	0.1-350 rpm	Speed range	0.1-350 rpm
Flow rate range	0.08-930mL/min	Flow rate range	0.08-930mL/min	Flow rate range	0.08-930mL/min
Speed control	Preset speed or serial port control	Speed control	External input pulse frequency speed control	Speed control	Adjust speed by internal potentiometer
Motor type	42 stepper motor	Subdivision settings	1/16(recommend), 1, 1/2, 1/4, 1/8, 1/32, 1/64, 1/128	Motor type	42 stepper motor
Power supply	DC 24V, ≥36W	Motor type	42 stepper motor	Power supply	DC 24V, ≥36W
Working environment	0-40°C, 80%RH	Power supply	DC 24V, ≥36W	Working environment	0-40°C, 80%RH
		Working environment	0-40°C, 80%RH		

OEM-UB04



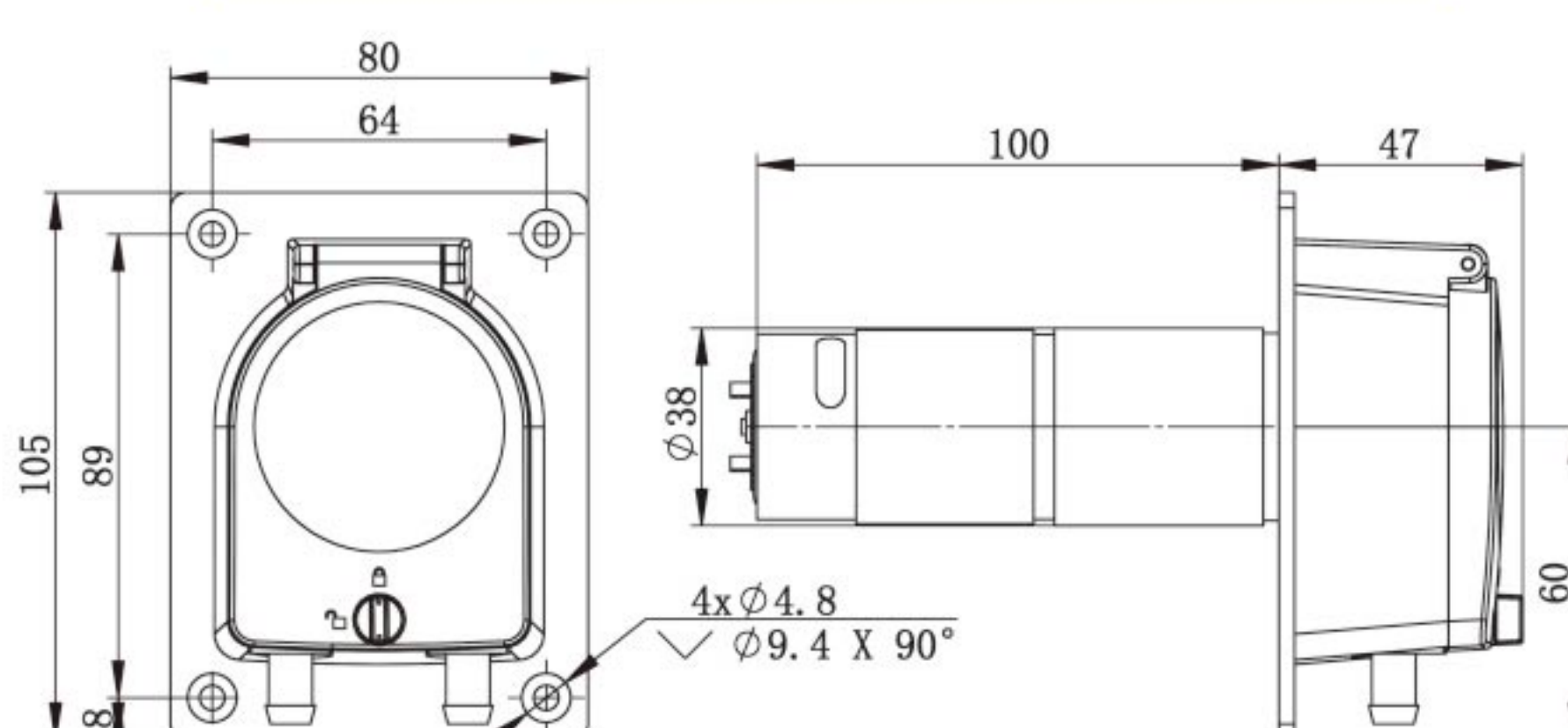
Dimension Drawing(Unit: mm)



Model No.	OEM-UB04
Speed range	0.1-350 rpm
Flow rate range	0.08-930mL/min
Motor type	42 stepper motor
Speed control	Communication control
Address setting	1-32
Power supply	DC 24V, ≥36W
Communication interface	RS232, RS485 interface modbus protocol, control start/stop, direction and speed
Working environment	0-40°C, 80%RH

OEM-UXZ Series

Dimension Drawing(Unit: mm)



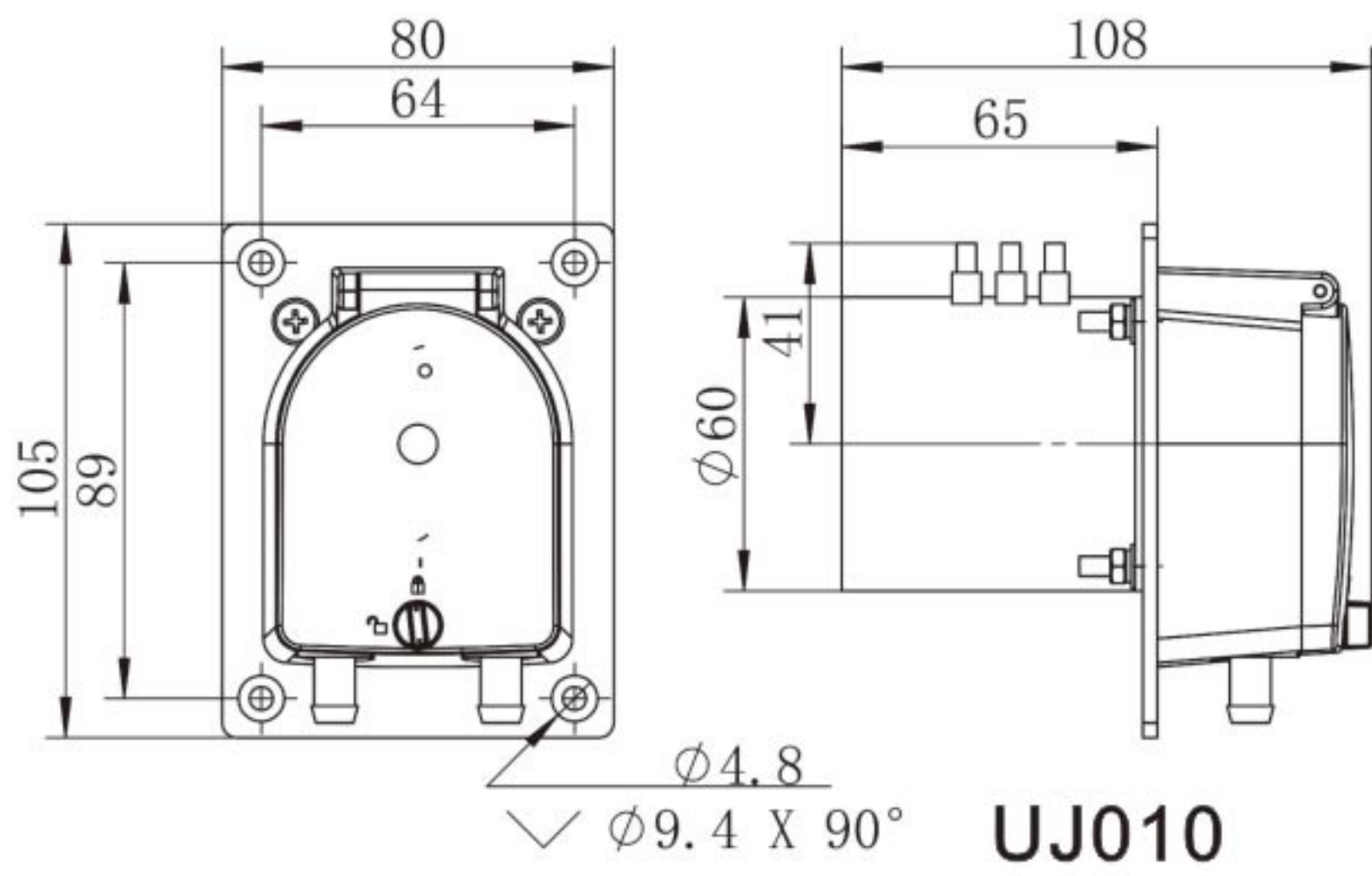
Model No.	Motor Type	Power Supply	Motor Speed (rpm±10%)	Flow Rate (mL/min)
OEM-UXZ03	Φ37 DC planetary gear motor	DC12V	150	≤398
OEM-UXZ06			350	≤930
OEM-UXZ13		DC24V	150	≤398
OEM-UXZ16			350	≤930



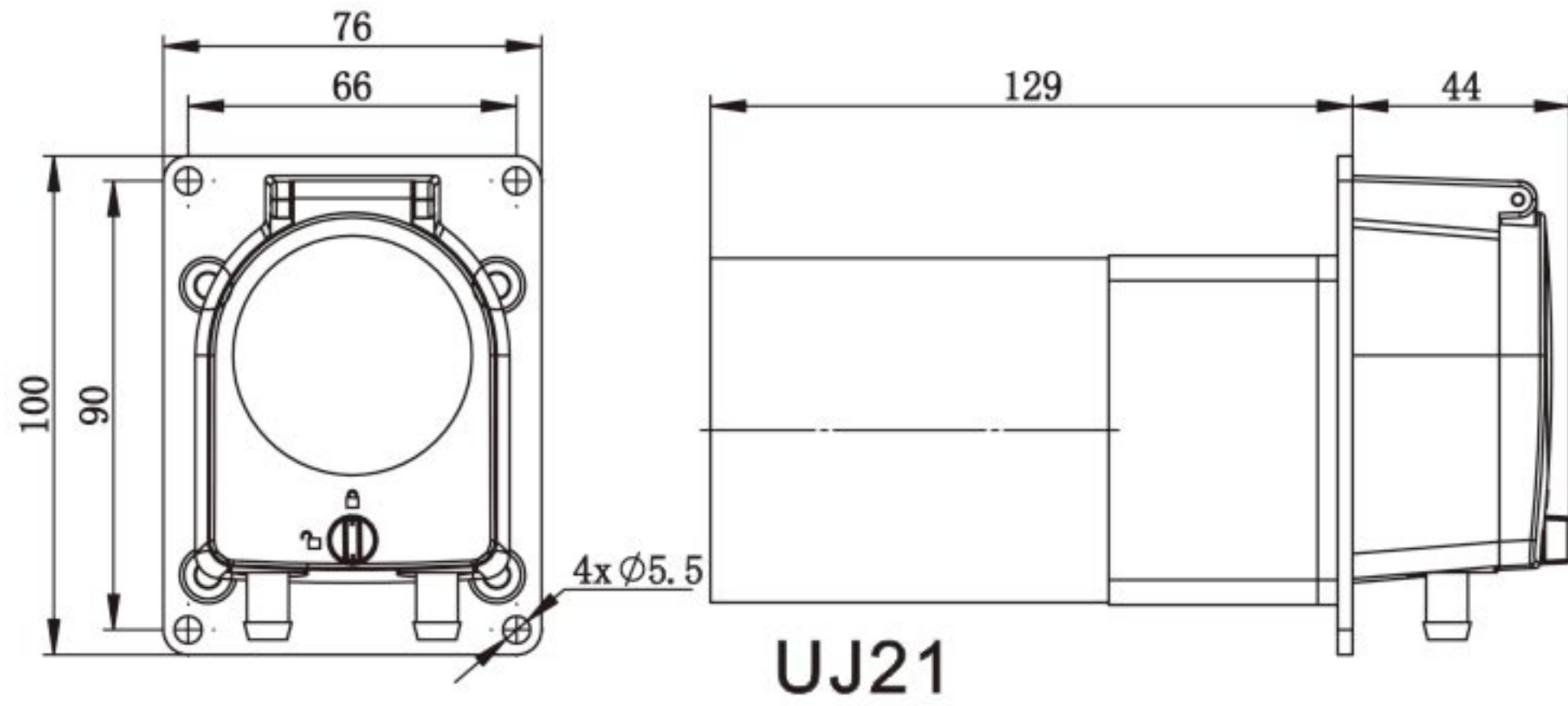
Compact Pump Head

OEM-UJ Series

Dimension Drawing(Unit: mm)



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.

Model No.	Housing Material		Tubing		Speed Range(rpm)	Flow Rate (mL/min)	Weight (kg)
	Body	Protective cover	Tubing Sizes	ID×Wall Thickness			
UD15 (2 rollers)	PSF	Transparent PC	16 [#]	3.1×1.6(mm)	0.1~350	0.08~280	0.12
			25 [#]	4.8×1.6(mm)		0.16~580	
			17 [#]	6.4×1.6(mm)		0.26~930	

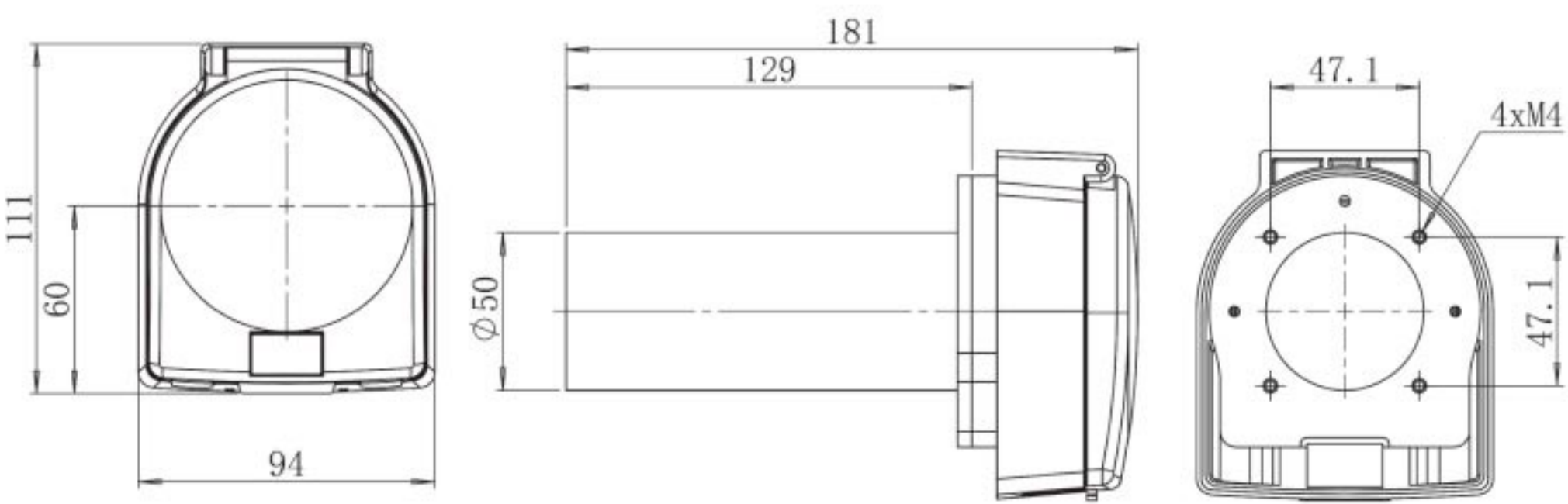
Compact Pump Head

Product Introduction

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

(2 rollers) OEM-UCXZ Series

Dimension Drawing(Unit: mm)

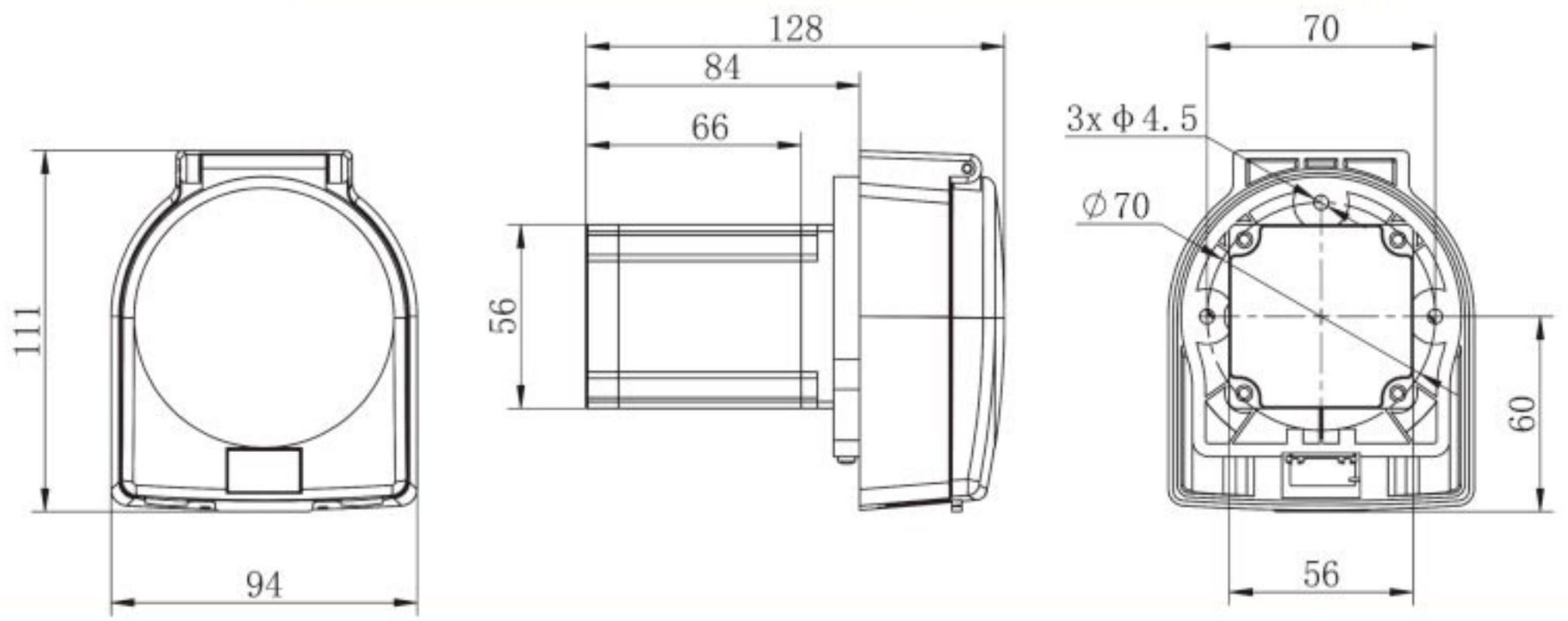


DC motor Technical Specifications

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

OEM-B236

Dimension Drawing(Unit: mm)

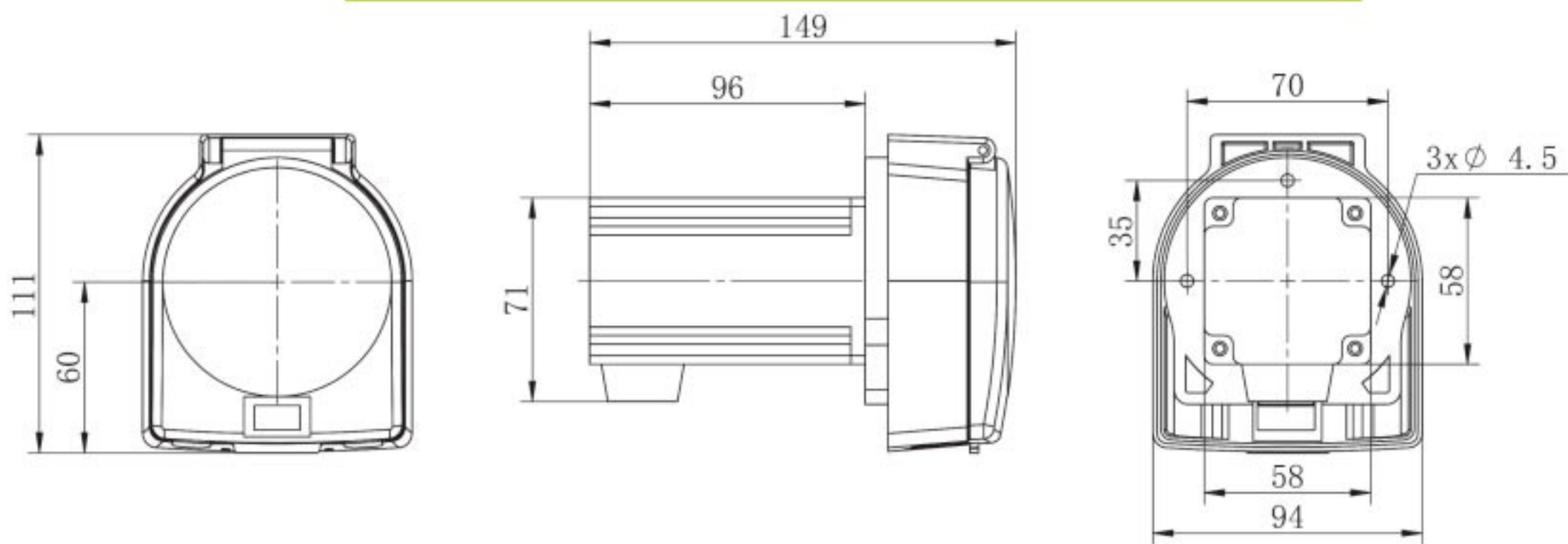


Step motor Technical Specifications

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

OEM-UCB001

Dimension Drawing(Unit: mm)



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.

Servo motor Technical Specifications

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

Technical Specifications

Model No.	Housing Material		Tubing		Speed Range(rpm)	Flow Rate(mL/min)	Weight (kg)
	Base	Protective cover	Tubing Sizes	ID×Wall(mm)			
UC25 (2 rollers)	PSF	PC	15 [#]	4.8×2.4	0.1-600	0.3423~2054	1.39
			24 [#]	6.4×2.4		0.5033~3020	
			35 [#]	7.9×2.4		0.8588~5153	
			36 [#]	9.6×2.4		1.1105~6663	



Multichannel Pump Head

AMC Series



(6 rollers,
10 rollers)



Product Introduction

- | The unique elastic positioning mechanism allows users to install and remove cartridge with one hand. Multichannel, small volume transferring.
- | Elastic pressure tube design to extend the service life of the tube.
- | Stepless adjustment of the tube pressure gap, effectively improving the accuracy between channels.
- | 304 stainless steel roller assembly, including 6 rollers and 10 rollers structure, which are designed with low noise and high speed, suitable for supporting various analytical instruments.

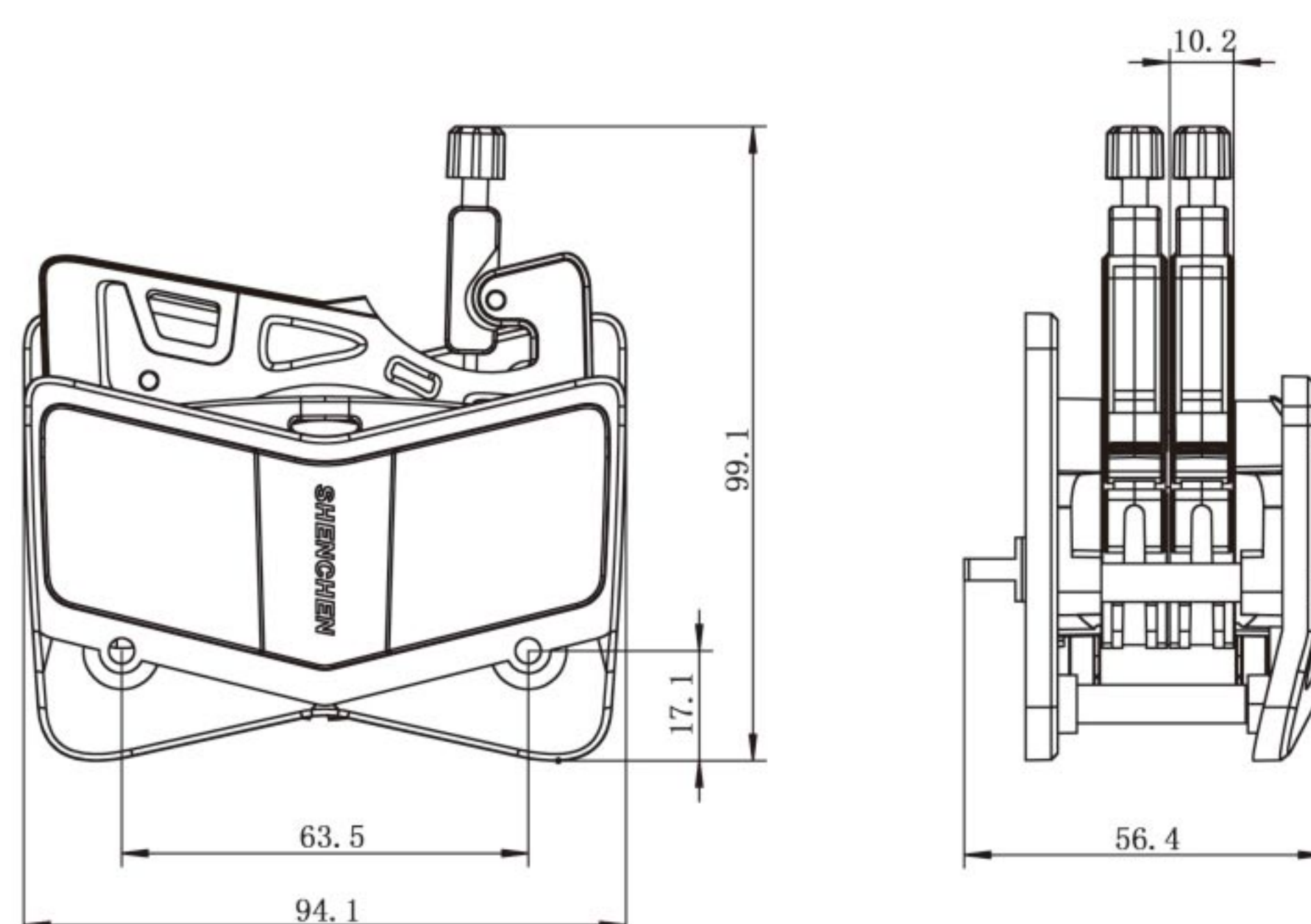
Product Features

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

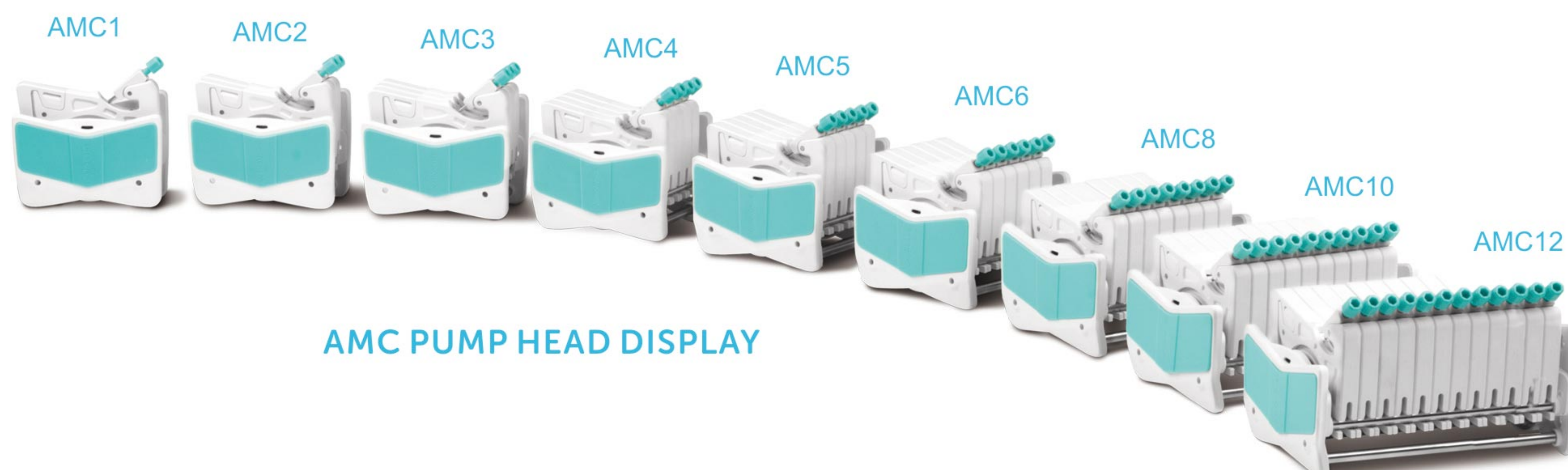
Typical Application

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

Dimension Drawing(Unit: mm)



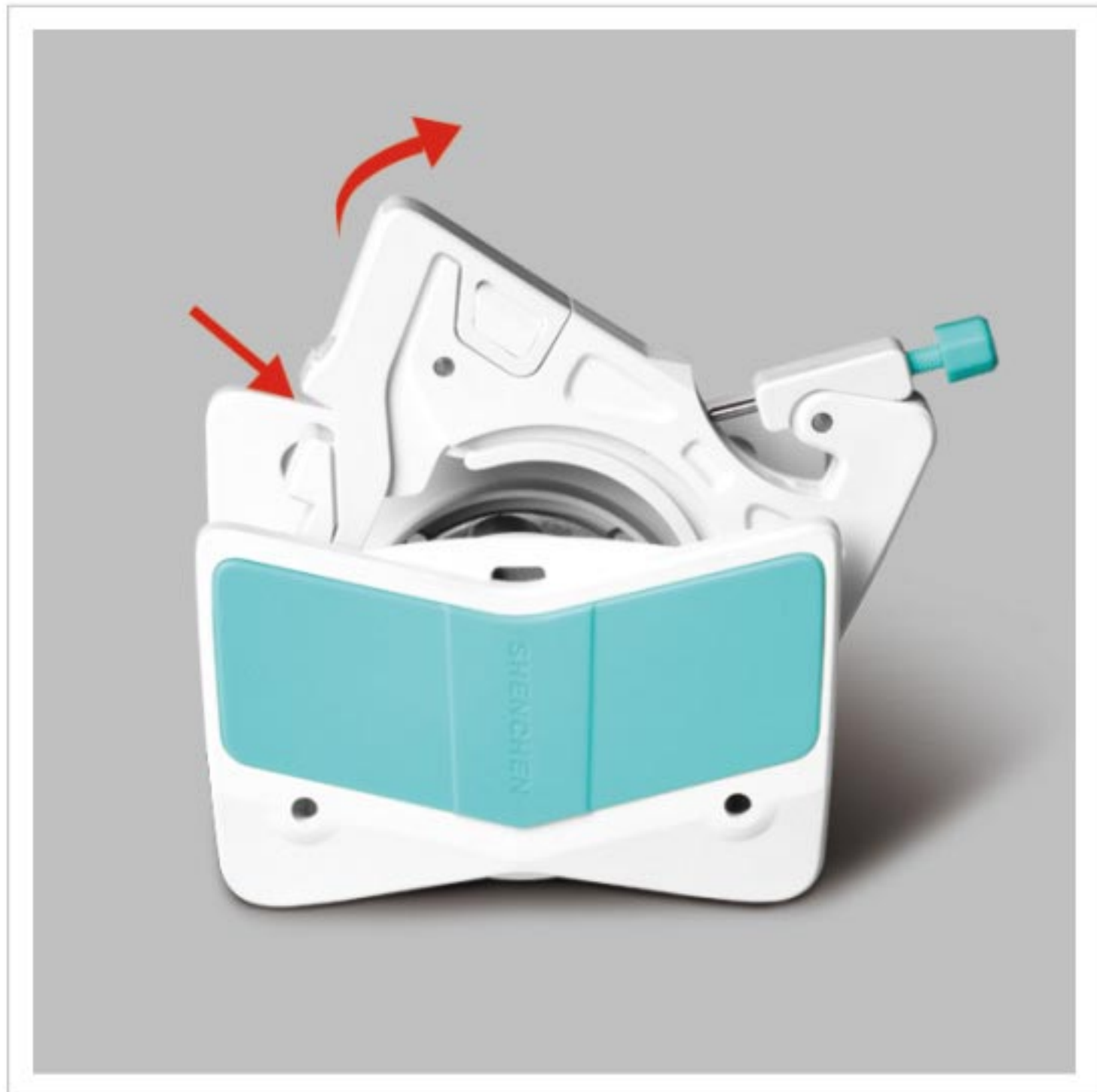
Note: Increasing or reducing one channel, the pump head size need to increase or reduce the thickness of one cartridge.



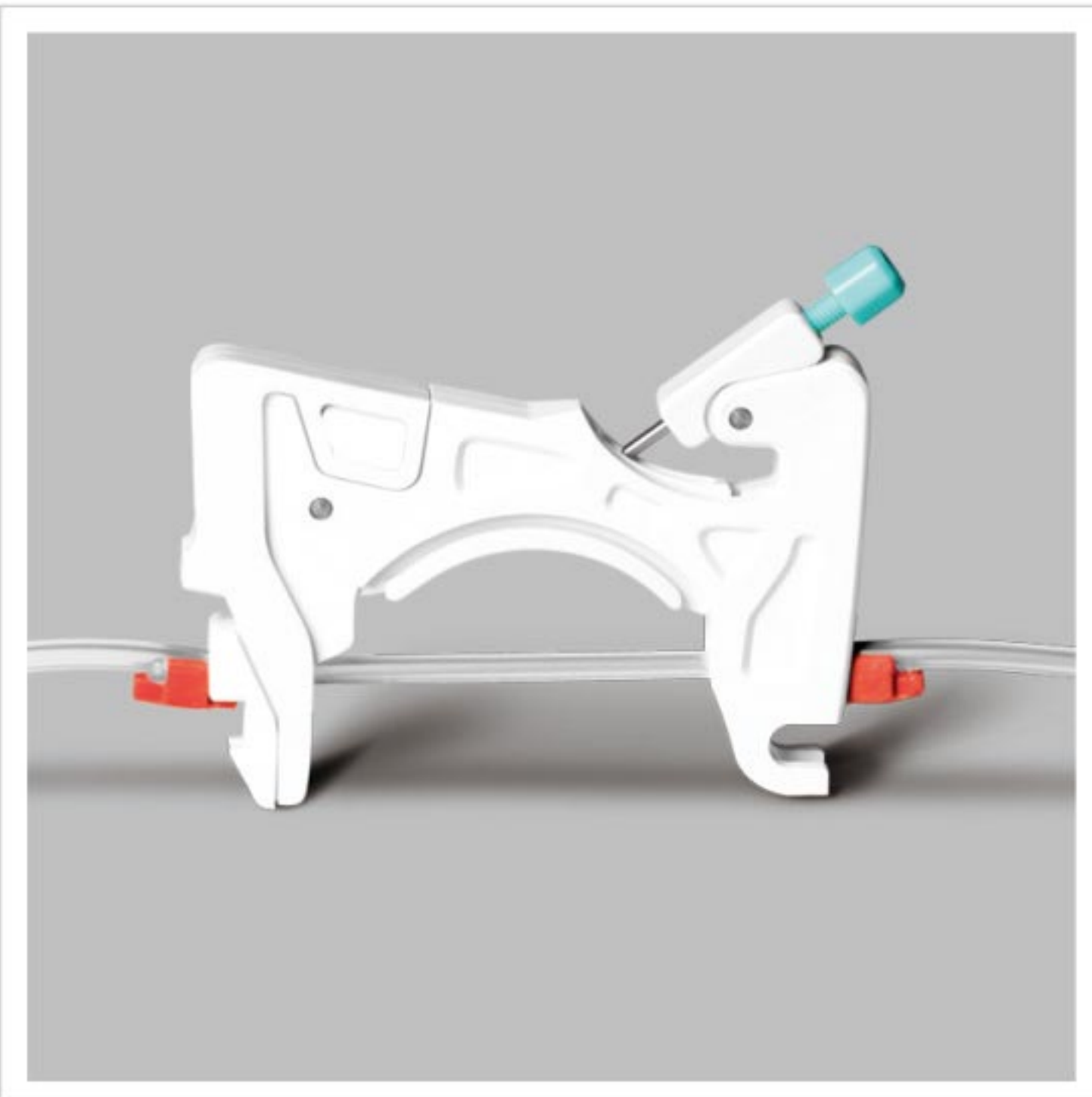
AMC PUMP HEAD DISPLAY



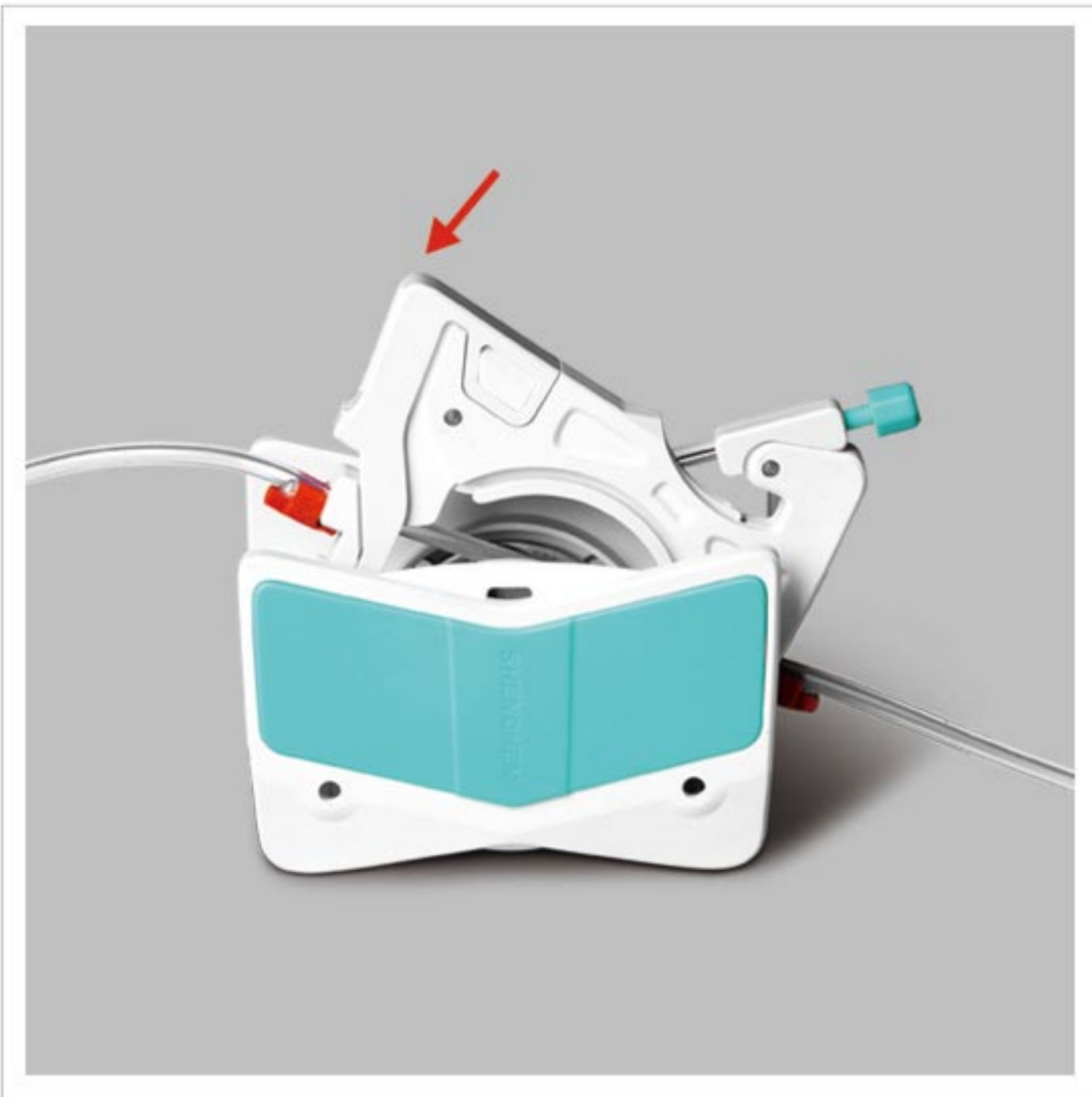
Tubing Installation Procedure



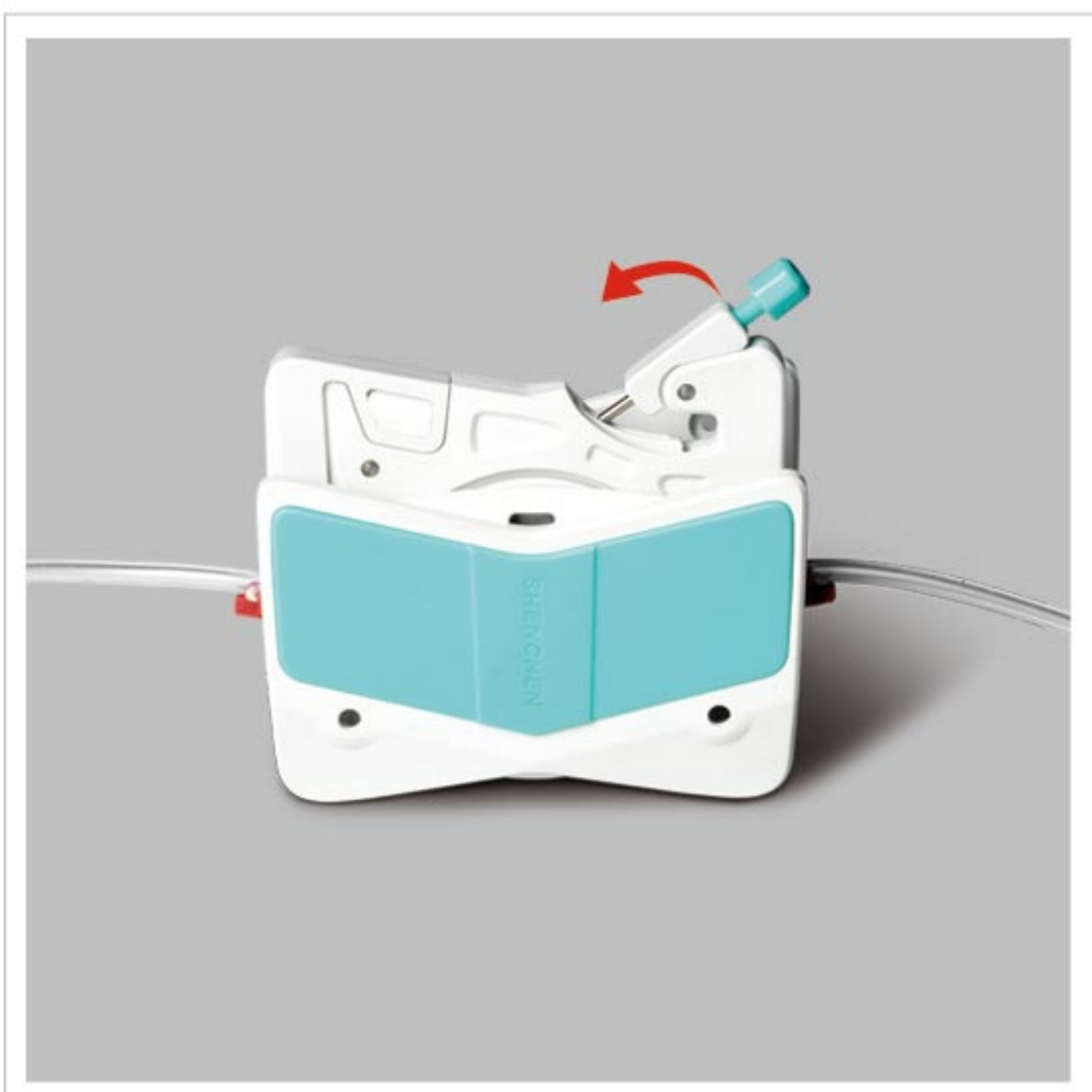
1.Easily press the elastic lock arm mechanism to open the cartridge.



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



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



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



5.Installation finished.

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

AMC Series Pump Head Technical Specifications										
Channel number	1	2	3	4	5	6	8	10	12	
Rollers material	304 stainless steel material									
Rollers number	10 rollers, 6 rollers									
Tubing	Speed	Flow rate of pump head with 10 rollers (mL/min)	Flow rate of pump head with 6 rollers (mL/min)	Tubing maximum pressure (Mpa)						
				Continuous	Intermittent					
1×1	0.1~150rpm	0.0050~7.55	0.0062~9.36	0.1	0.1					
2×1		0.0183~27.52	0.0220~33.06							
2.4×0.8		0.0254~38.13	0.0319~47.81							
3×1		0.0323~48.38	0.0434~65.17							
0.13×0.86		0.0002~0.29	0.0002~0.31							
0.19×0.86		0.0003~0.44	0.0003~0.46							
0.25×0.86		0.0005~0.76	0.0005~0.80							
0.51×0.86		0.0013~2.00	0.0014~2.05							
0.89×0.86		0.0030~4.47	0.0031~4.65							
1.14×0.86		0.0061~9.16	0.0065~9.74							
1.42×0.86		0.0125~18.75	0.0142~21.28							
2.06×0.86		0.0197~29.60	0.0234~35.17							
2.79×0.86		0.0286~42.86	0.0372~55.77							

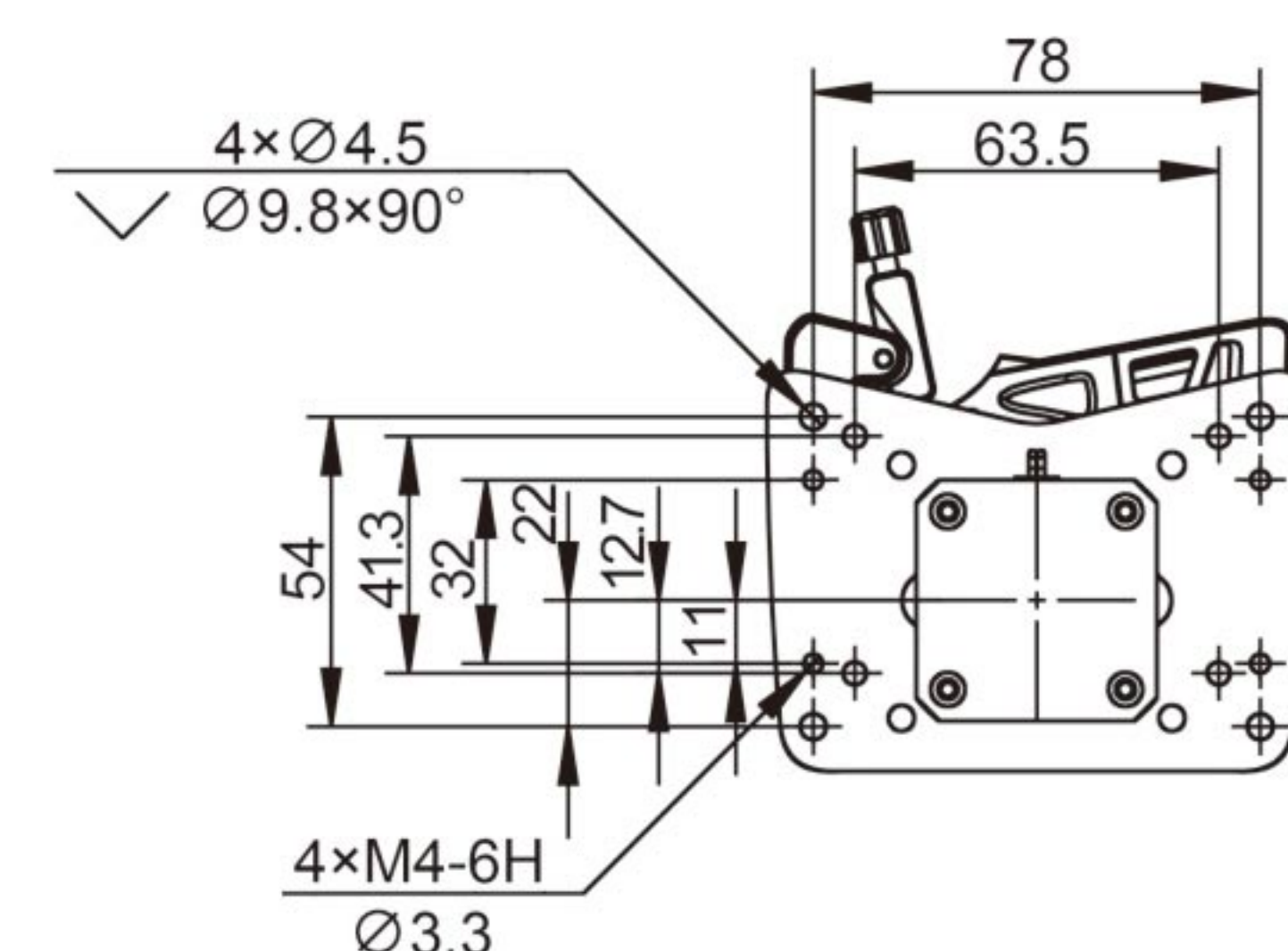
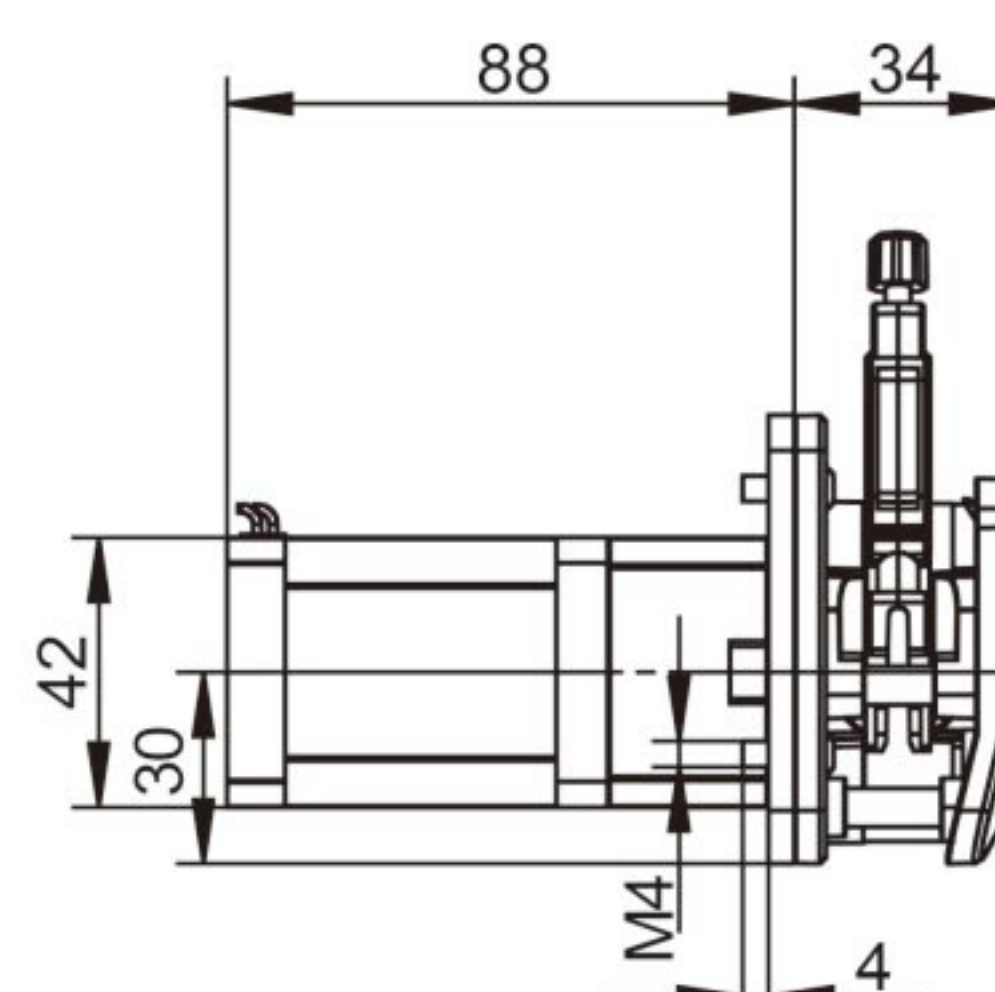
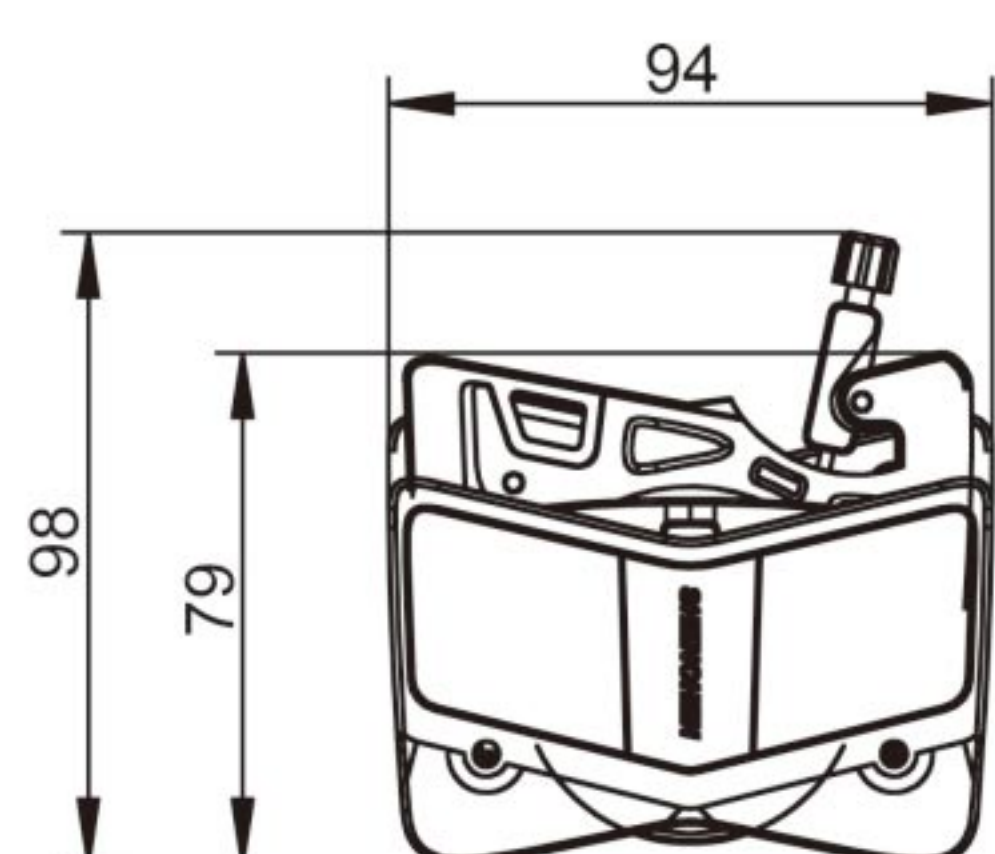


OEM Product

New Generation Multichannel Pump Head Series

OEM-AMCB001

Dimension Drawing(Unit: mm)

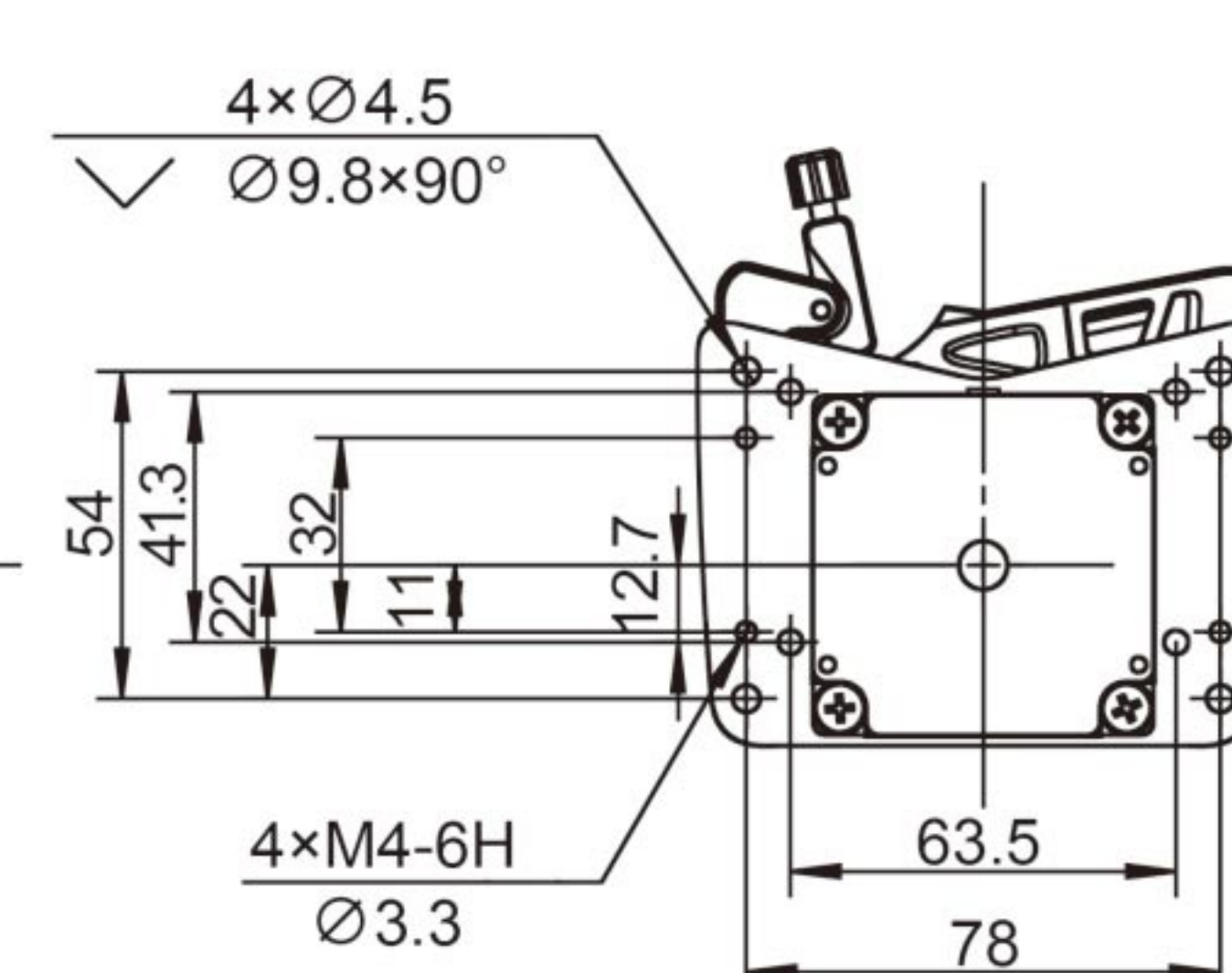
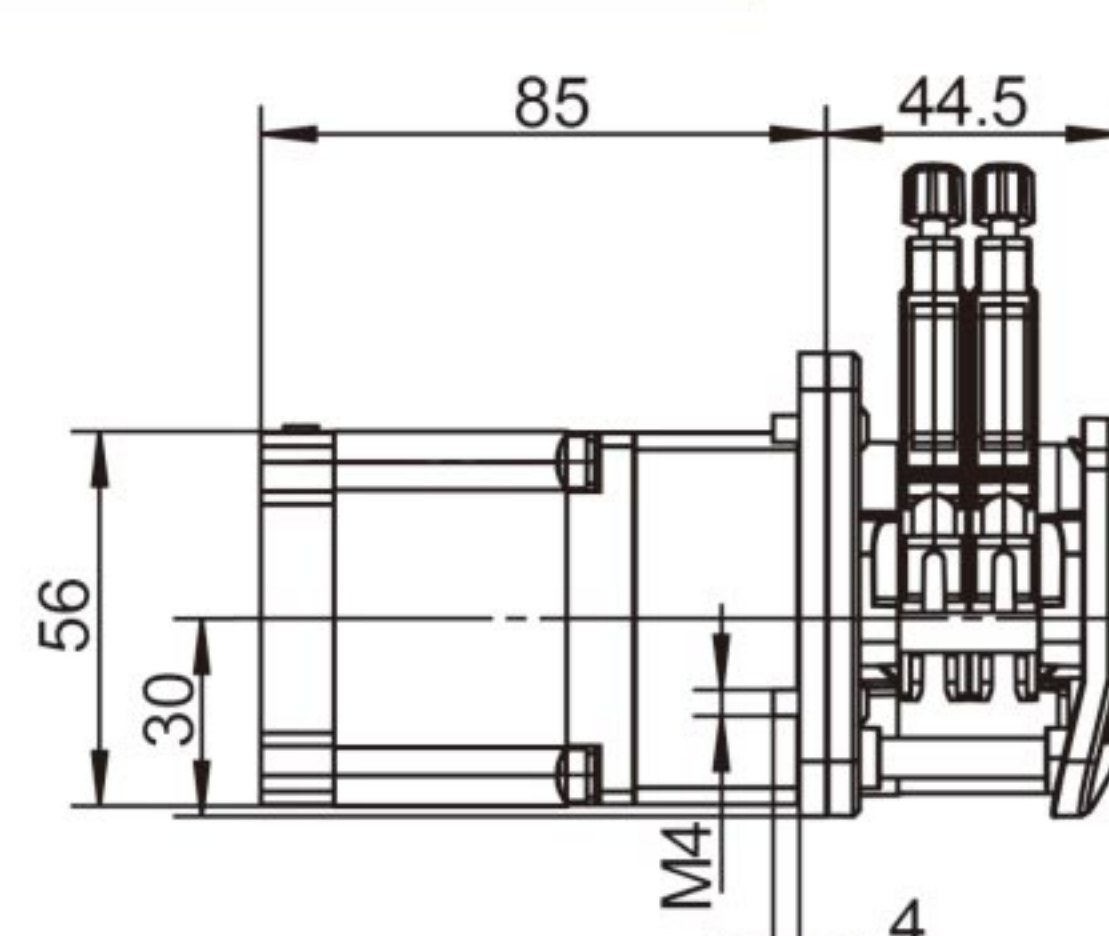
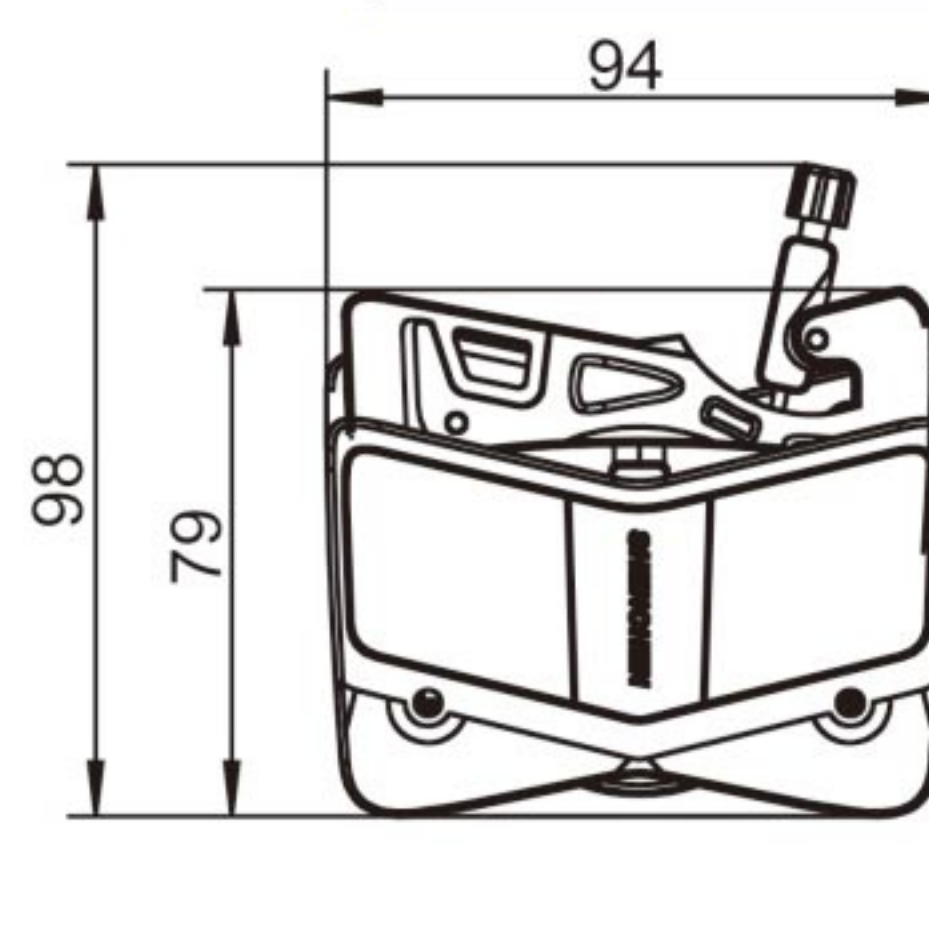
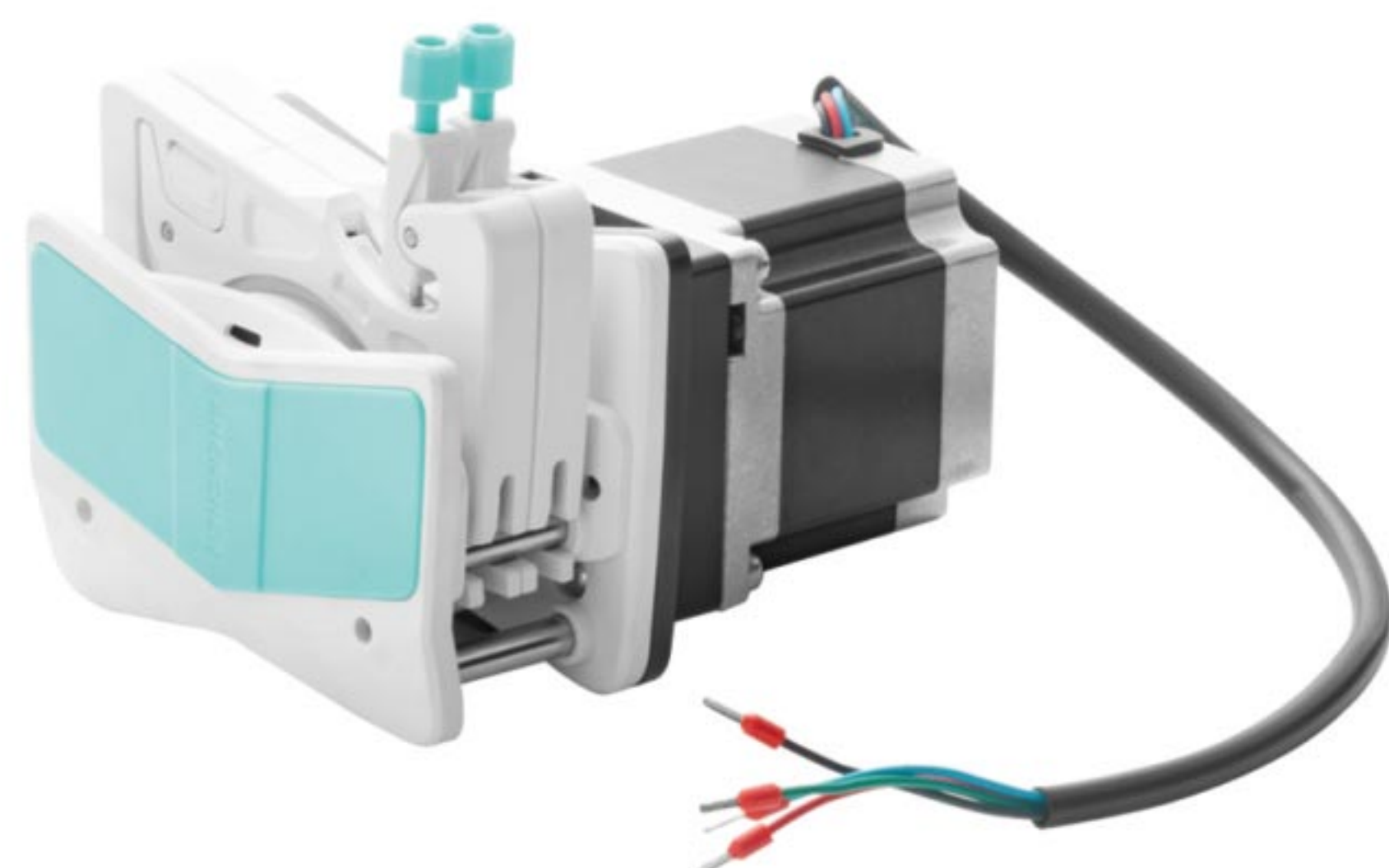


OEM-AMCB001 Technical Specifications

Speed range	0.1-150rpm	Motor step angle	1.8°
Flow rate range	0.0002-65.17mL/min	Motor phase voltage	3.6V
Motor type	42 stepper motor	Motor phase current	1.7A
Motor phase number	2	Working environment	0-40°C , <80%RH

OEM-AMCB101

Dimension Drawing(Unit: mm)



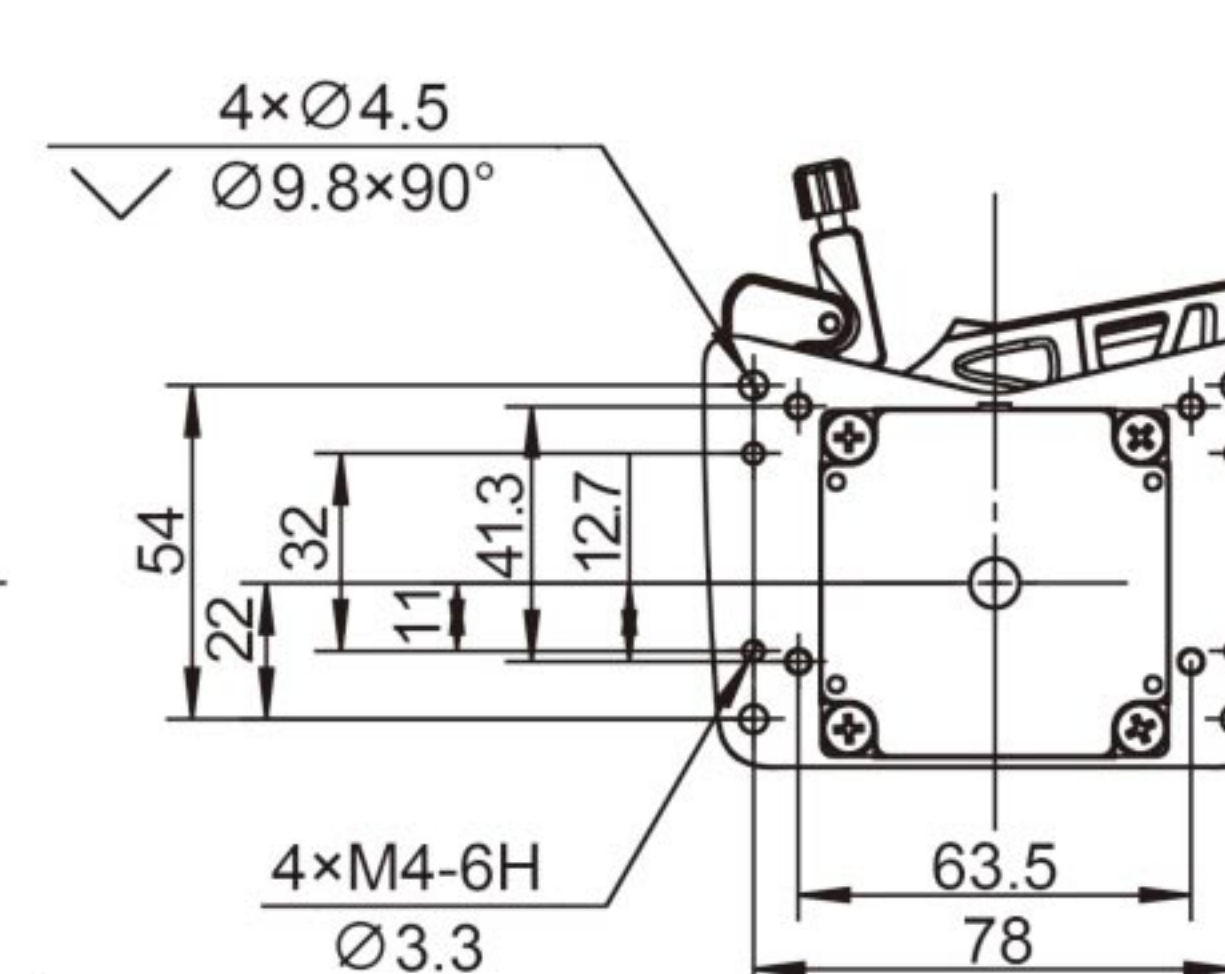
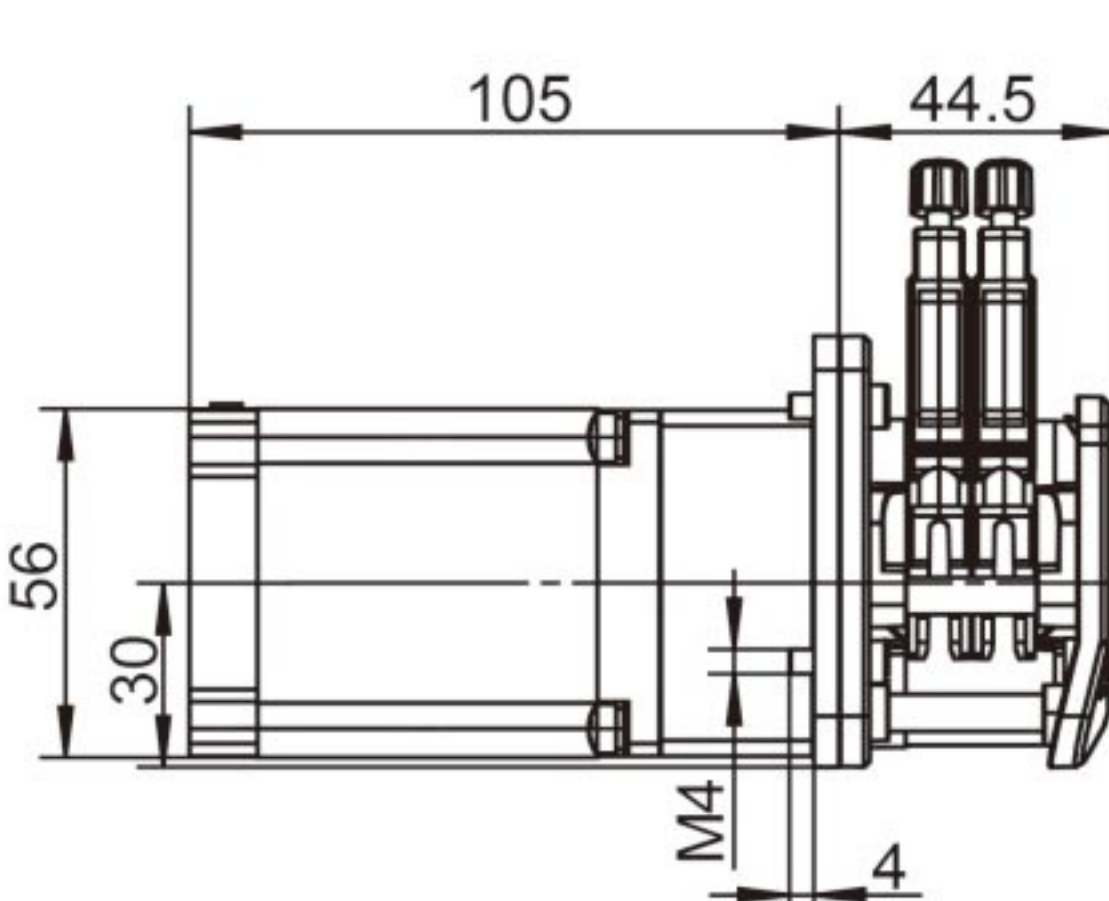
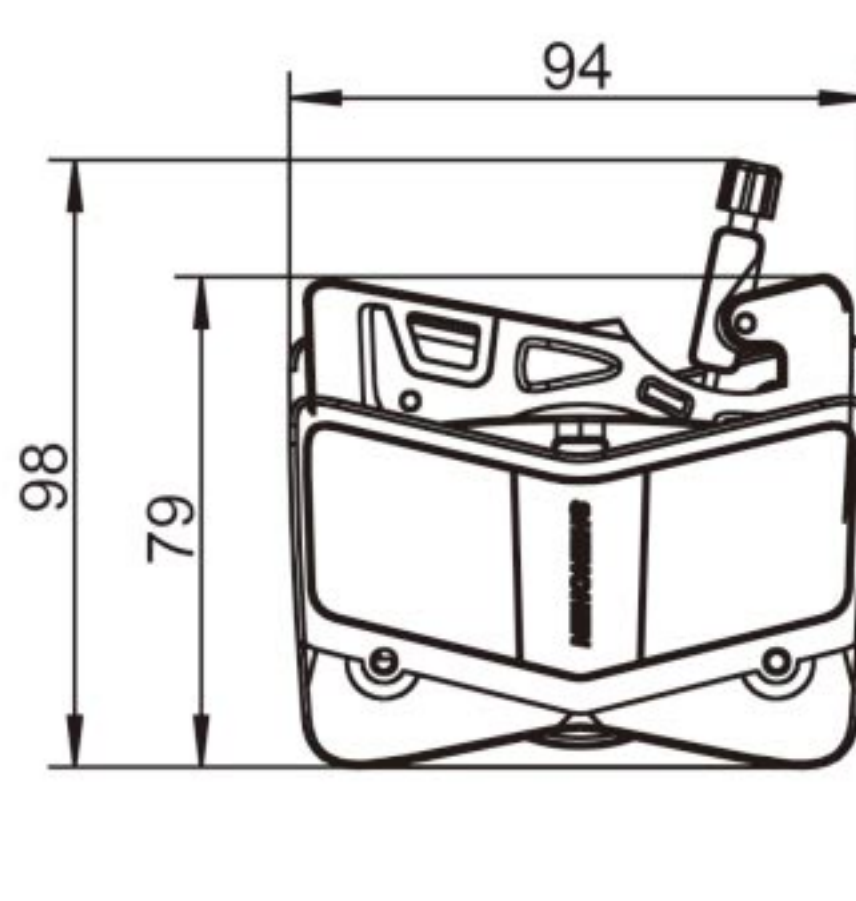
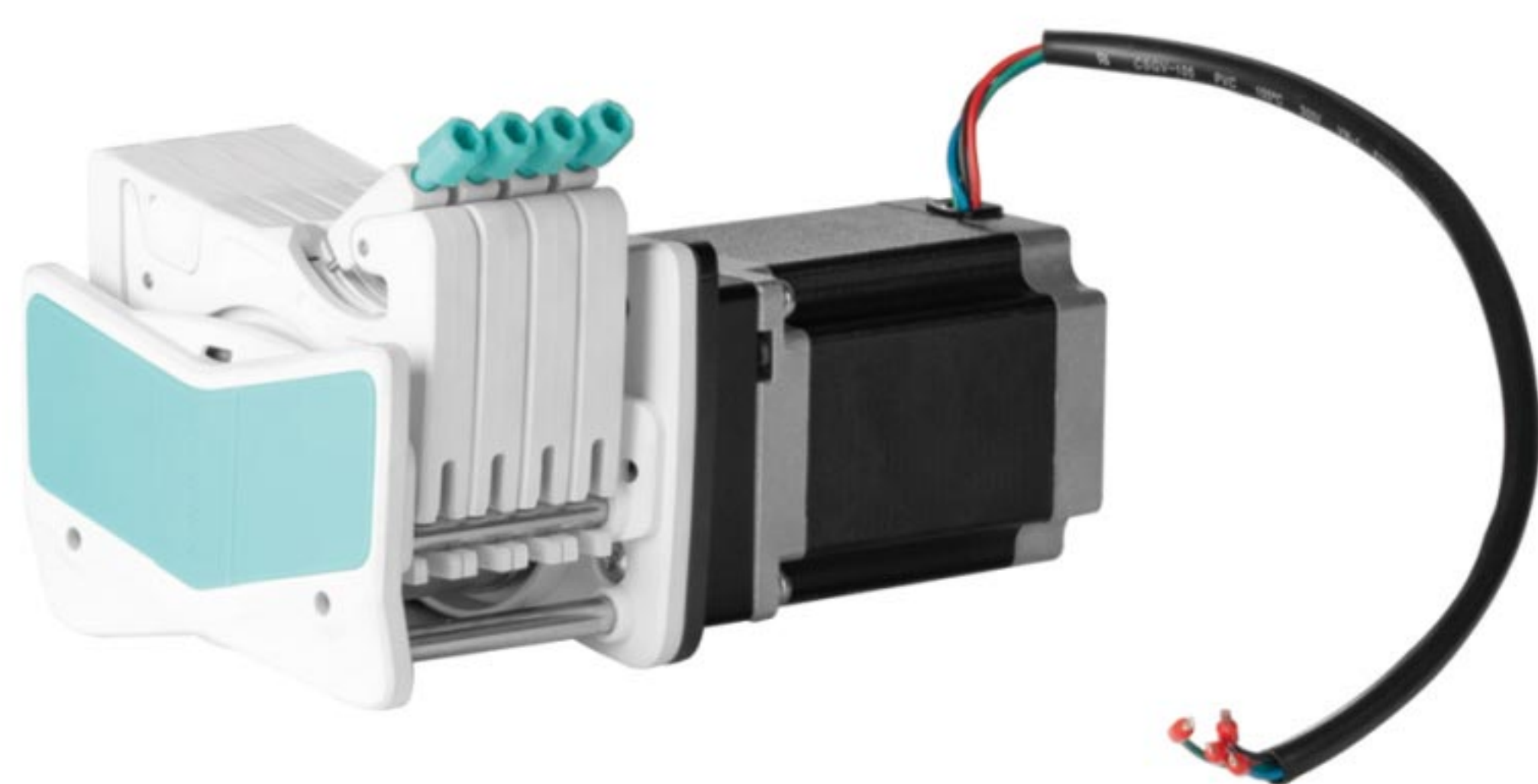
Note: Increasing or reducing one channel,the pump head size need to increase or reduce the thickness of one cartridge.

OEM-AMCB101 Technical Specifications

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

OEM-AMCB201

Dimension Drawing(Unit: mm)



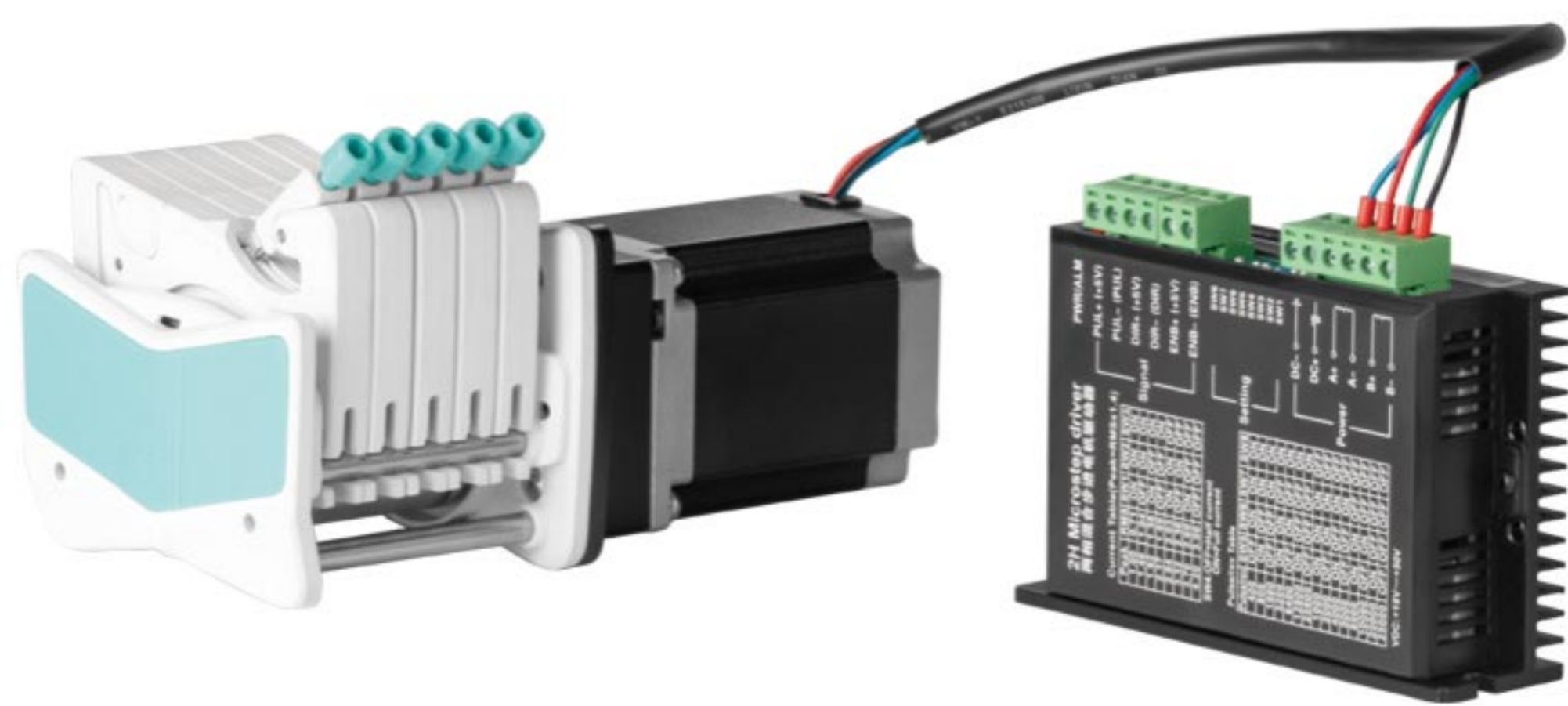
Note: Increasing or reducing one channel,the pump head size need to increase or reduce the thickness of one cartridge.

OEM-AMCB201 Technical Specifications

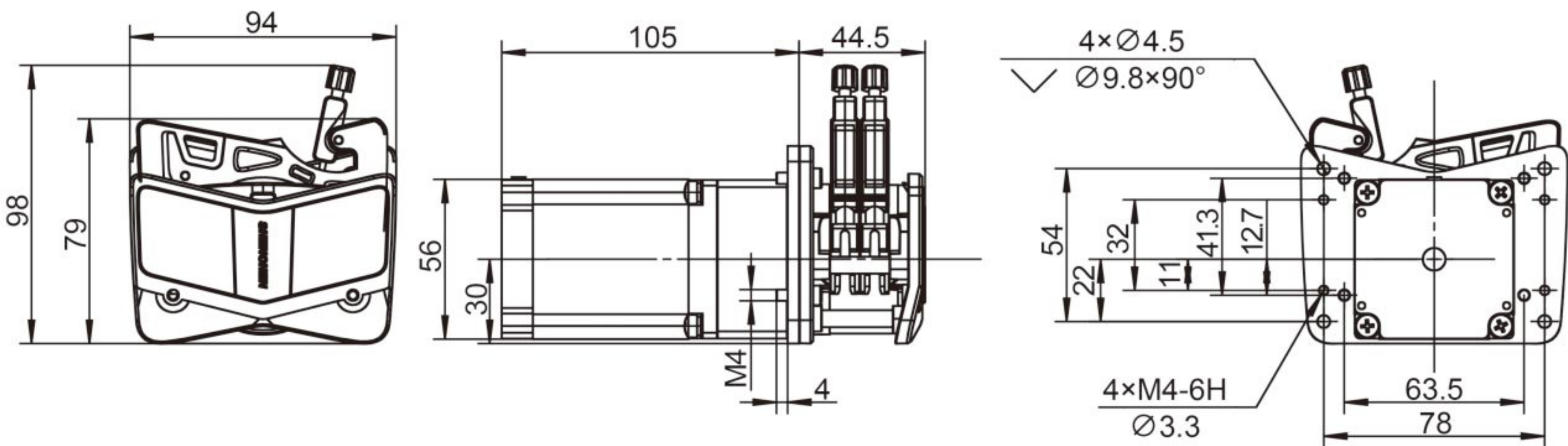
Speed range	0.1-150rpm	Motor step angle	1.8°
Flow rate range	0.0002-65.17mL/min	Motor phase voltage	3.4V
Motor type	57 stepper motor	Motor phase current	3.0A
Motor phase number	2	Working environment	0-40°C,<80%RH



OEM-AMCB202



Dimension Drawing(Unit: mm)



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

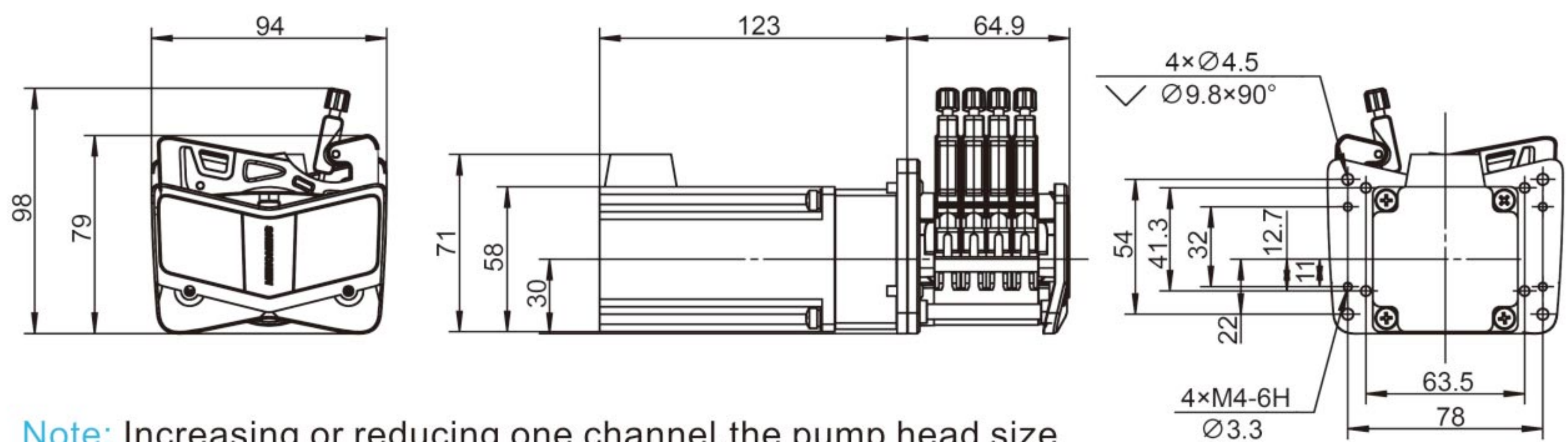
OEM-AMCB202 Technical Specifications

Speed range	0.1-150rpm	Current setting	3-speed DIP switch setting(default 2.84A)
Flow rate range	0.0002-65.17mL/min	Motor type	57 stepper motor
Speed control	External input pulse frequency speed control	Power supply	DC18 ~ 50V(recommend36V),≥80W
Multiple segments	4-speed DIP switch setting (default 16 subdivisions)	Logic input voltage	5V
		Working environment	0-40℃, 80%RH

OEM-AMCB302



Dimension Drawing(Unit: mm)



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

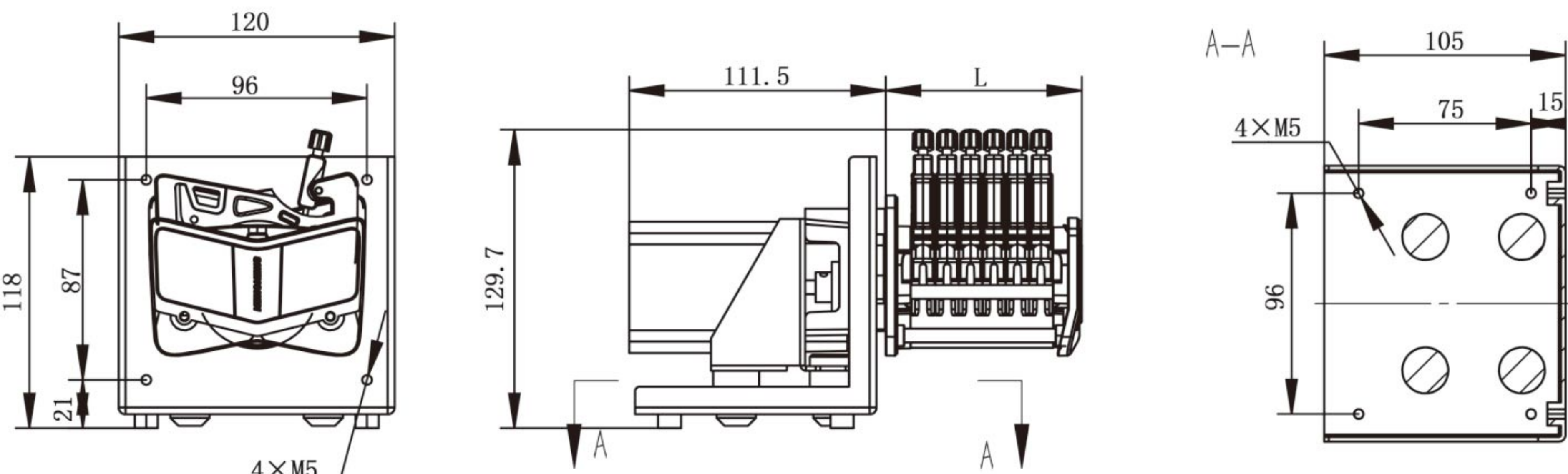
OEM-AMCB302 Technical Specifications

Speed range	0.1-150rpm	Current setting	Adaptive current
Flow rate range	0.0002-65.17mL/min	Motor type	57 Closed-loop stepper motor
Speed control	External input pulse frequency speed control	Power supply	DC24 ~ 48V(recommend36V),≥80W
Multiple segments	4-speed DIP switch setting (default 16 subdivisions)	Logic input voltage	5V
		Working environment	0-40℃, 80%RH

OEM-B29/AMC



Dimension Drawing(Unit: mm)



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

OEM-B29 Technical Specifications

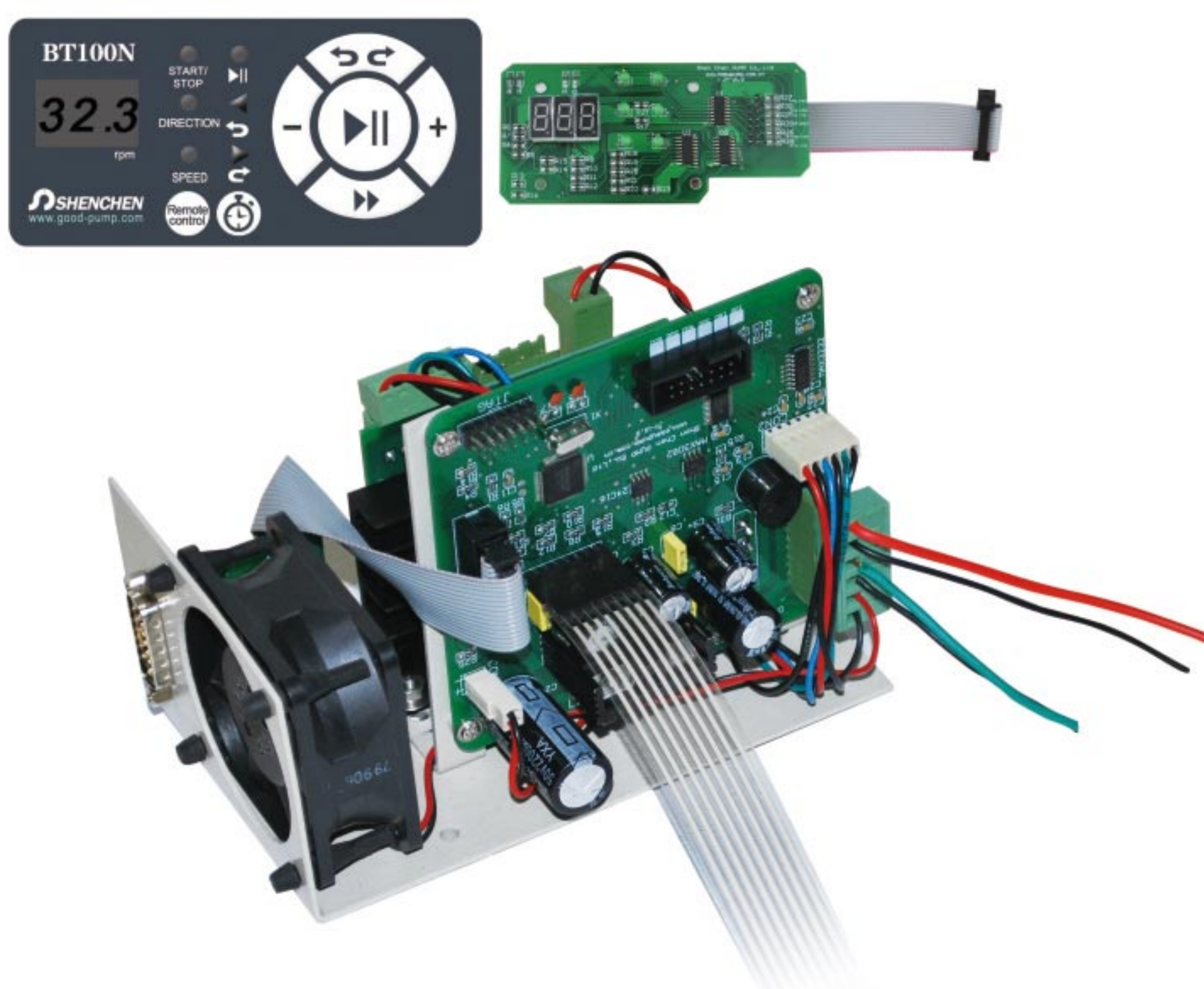
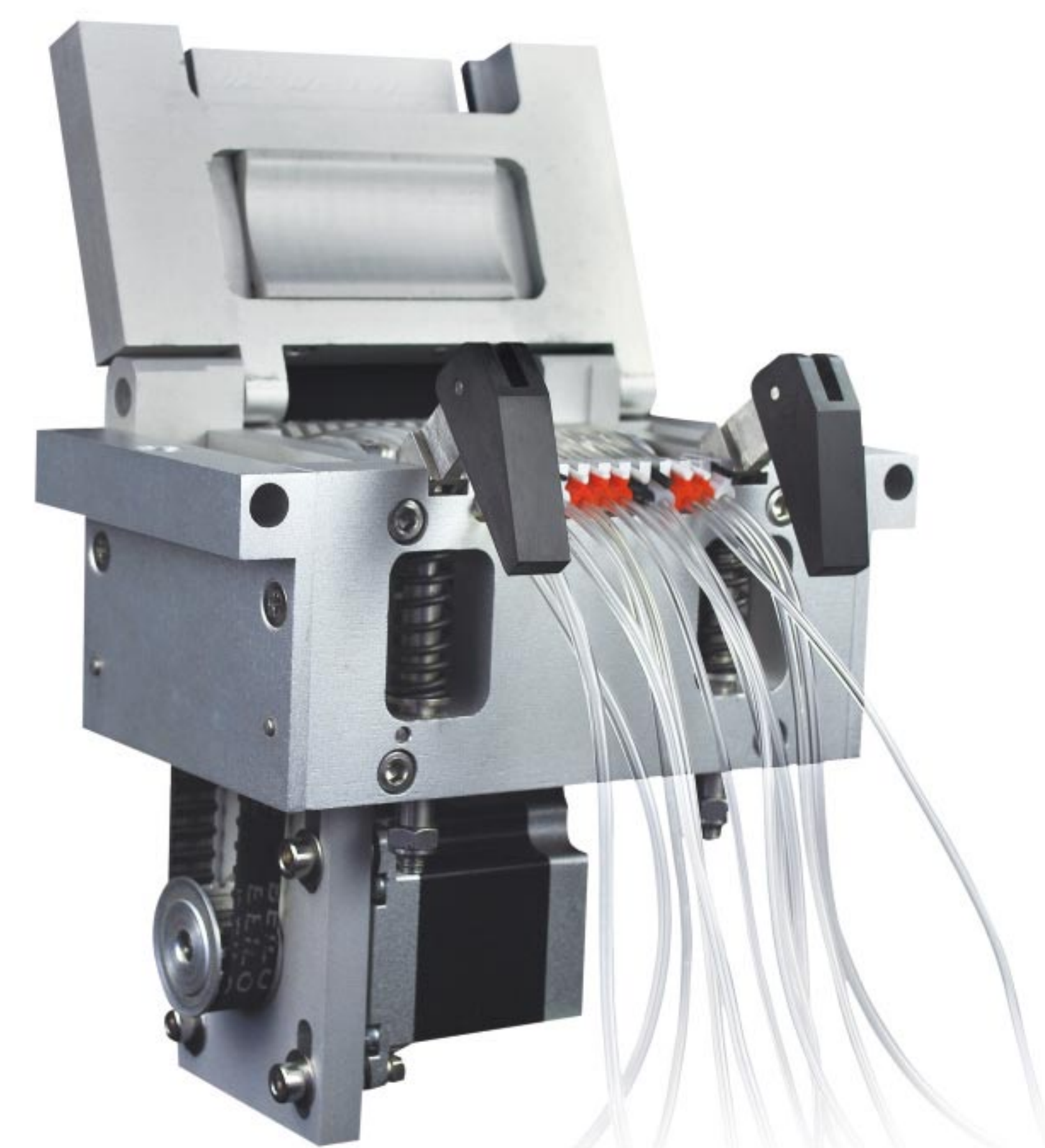
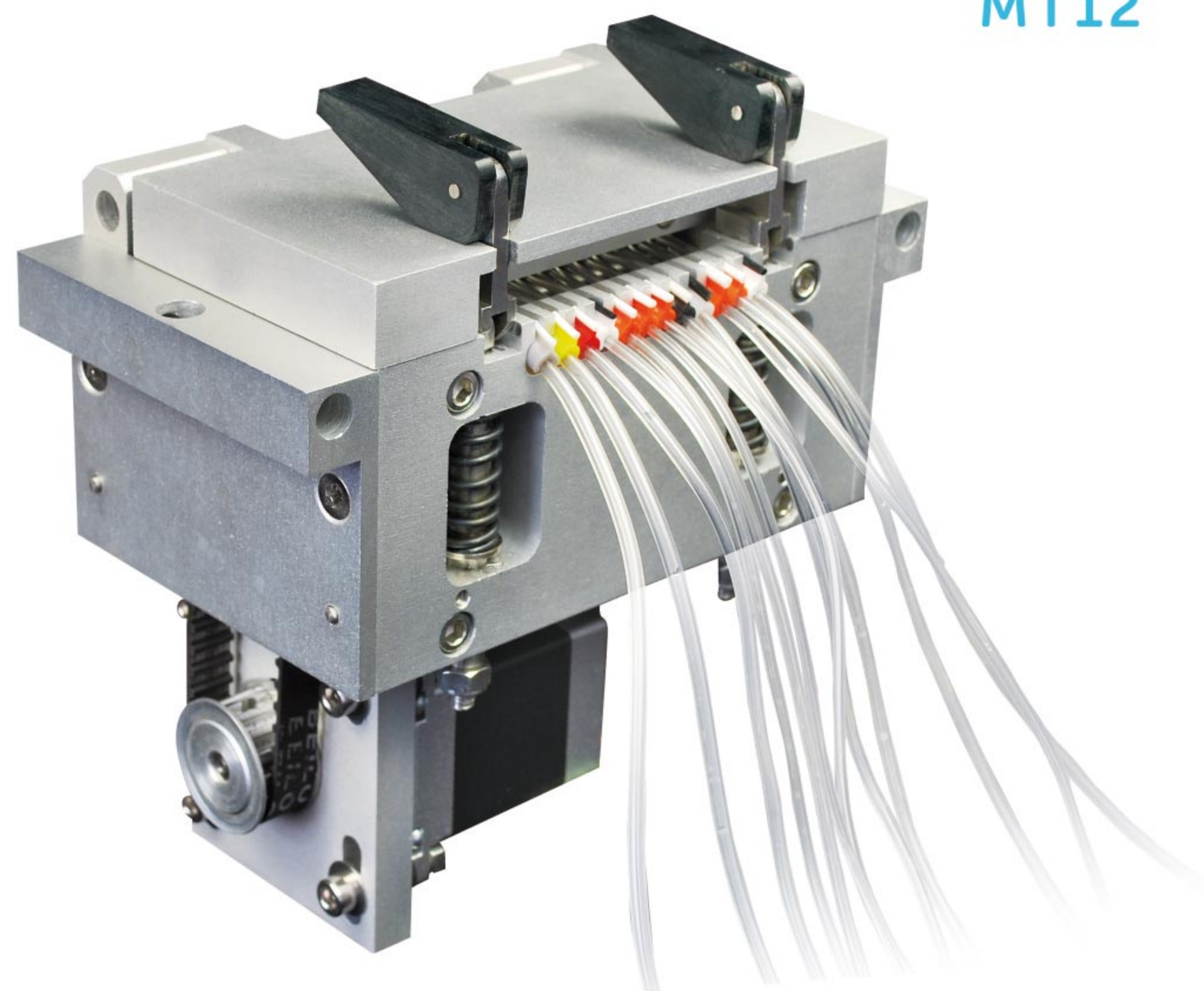
Speed range	0.1-150rpm	Motor step angle	1.8°
Flow rate range	0.0002-65.17mL/min	Motor phase voltage	1.5V
Motor type	57 stepper motor	Motor phase current	3.0A
Motor phase number	2	Working environment	0-40℃, 80%RH



Multichannel Pump Head

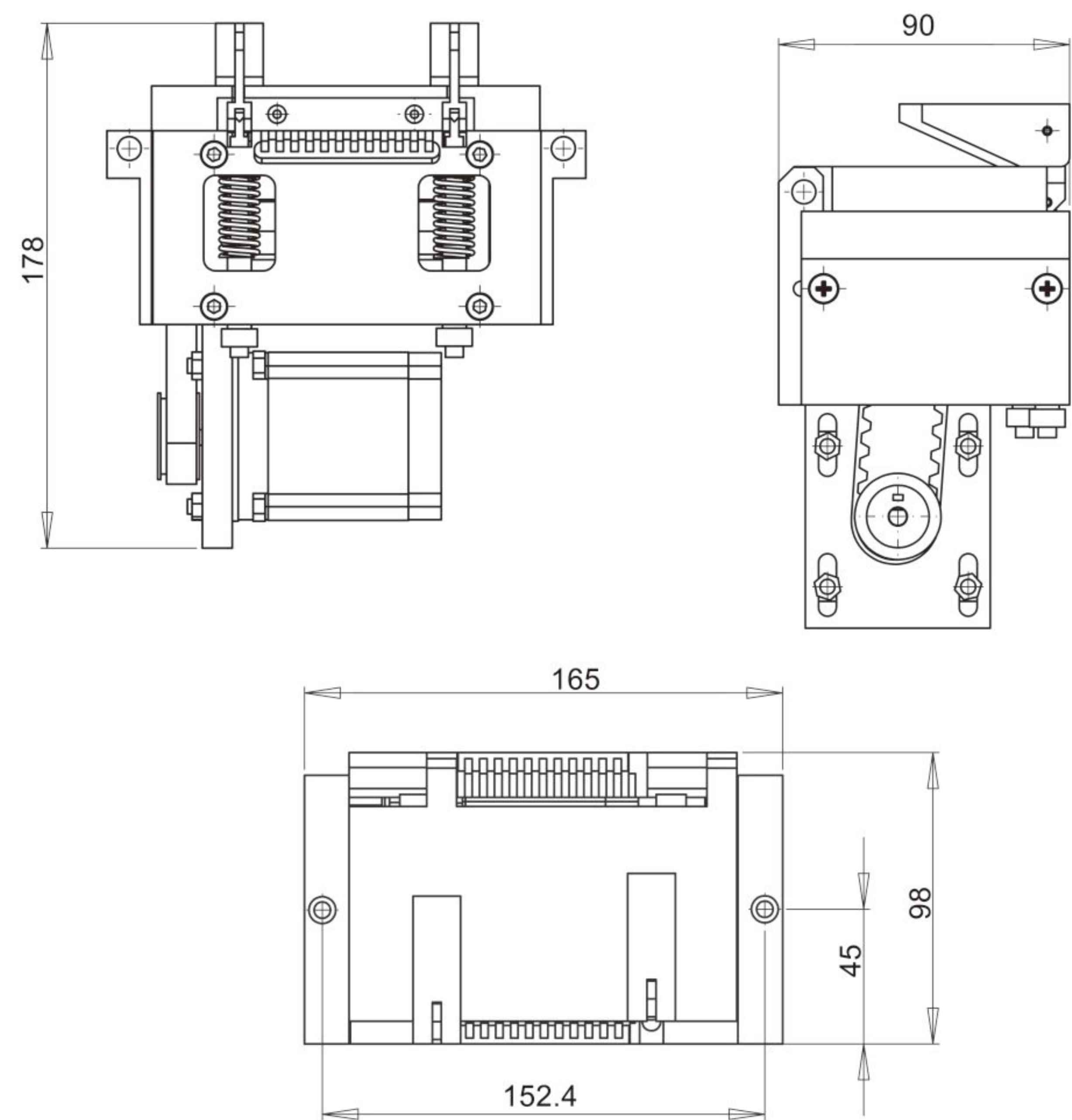
Appearance patent: 201630636794.0
Utility model patent: 201621426687.6

MT12



Embedded drive circuit

Dimension Drawing (Unit: mm)



Product Introduction

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

Model Number

- MT12

Typical Application

- Support chemistry analytical instruments

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



Quick Load Pump Head

EasyPump Series

(Pressure Adjustable)



(Fixed Pressure)



(4 rollers)



Product Introduction

- | The unique tube clamp linkage mechanism, with the opening process of the upper pressure block, the tube clamp automatically lifts, the user can easily install the tube. As the upper pressure block is closed, the tube clamp is automatically reset to fix the tube. At the same time, "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.

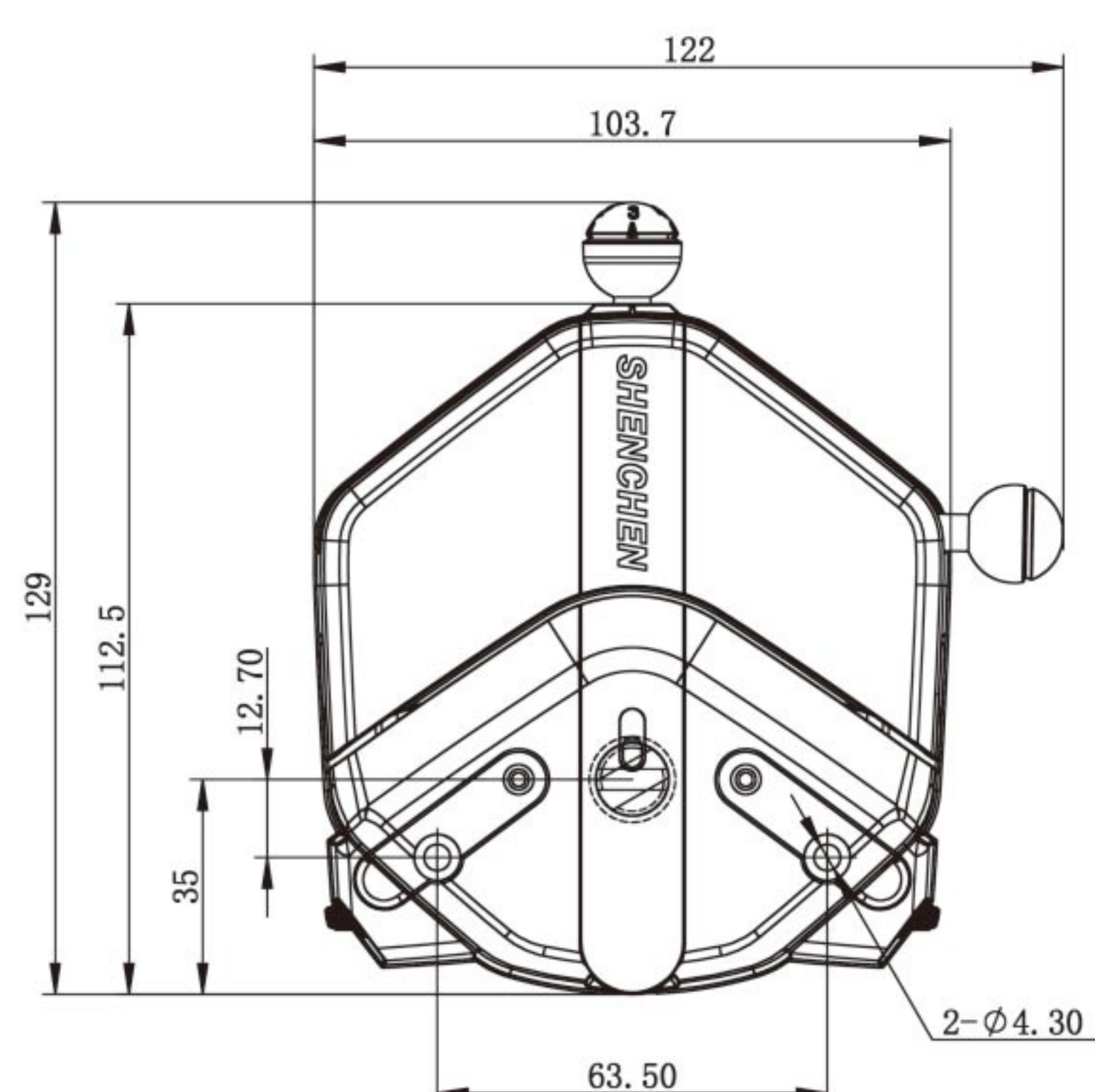
Product Features

- | 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.

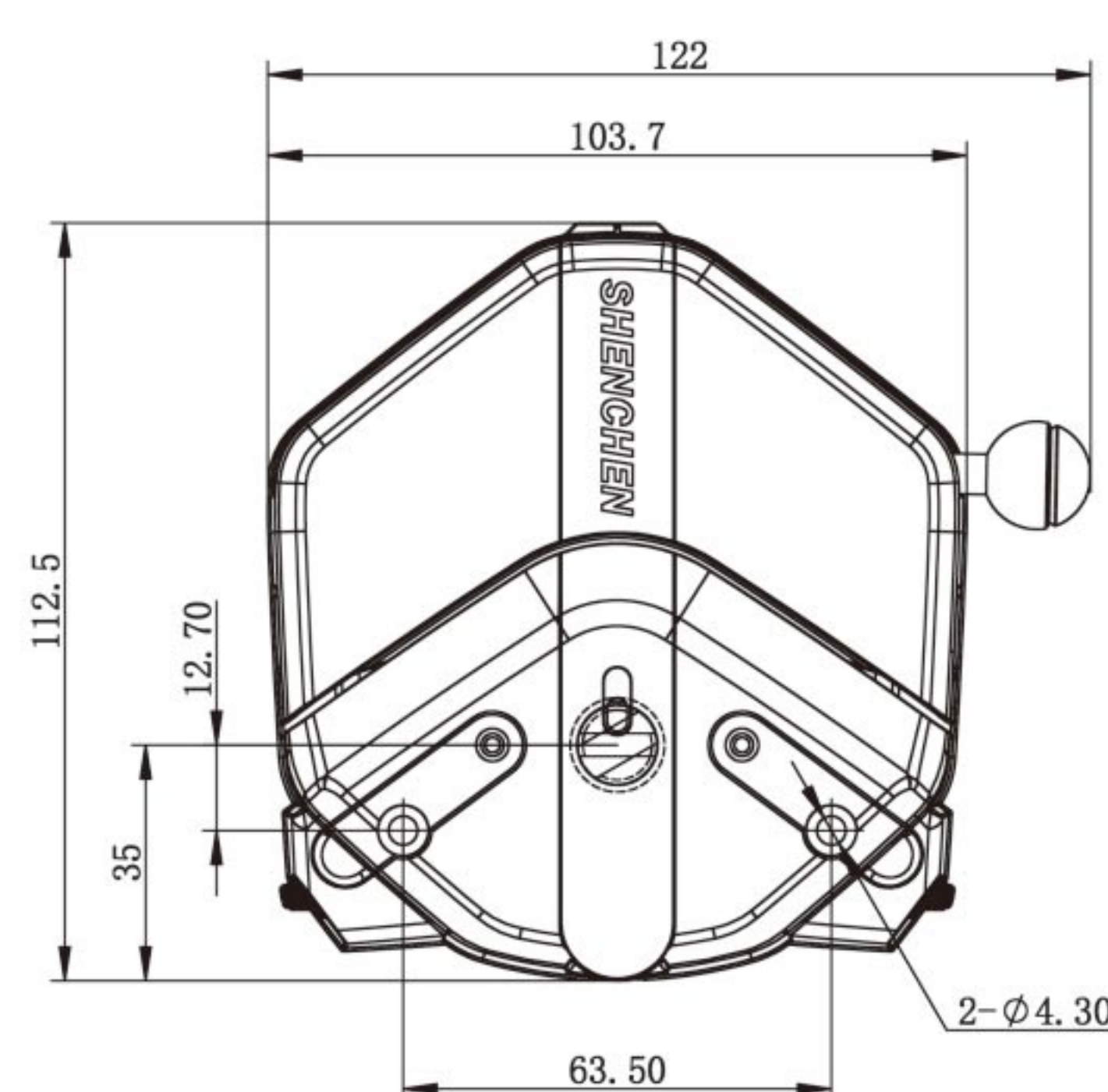
Typical Application

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

Dimension Drawing (Unit: mm)



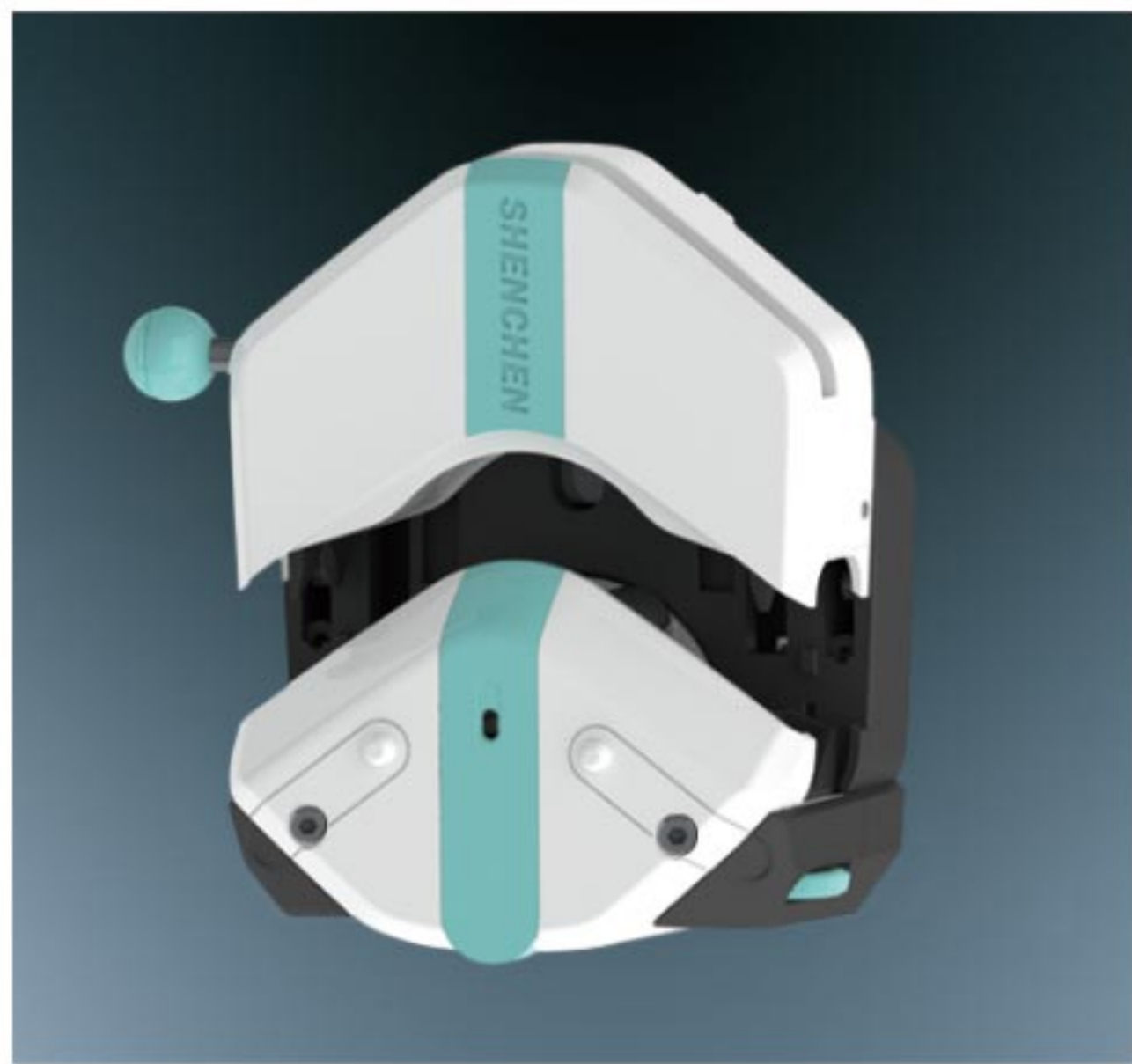
EasyPump Pressure Adjustable



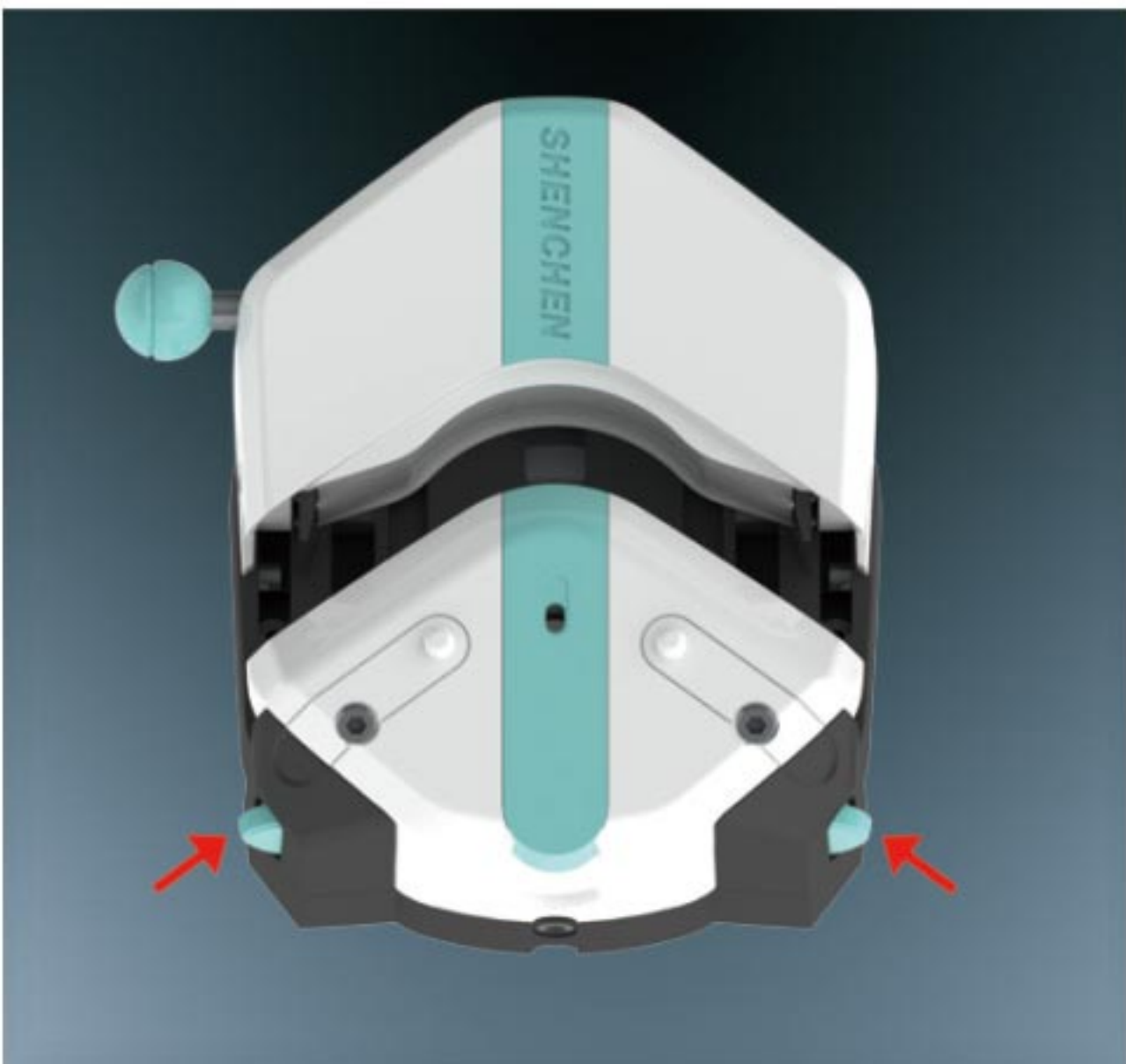
EasyPump Fixed Pressure



Tubing Installation Procedure



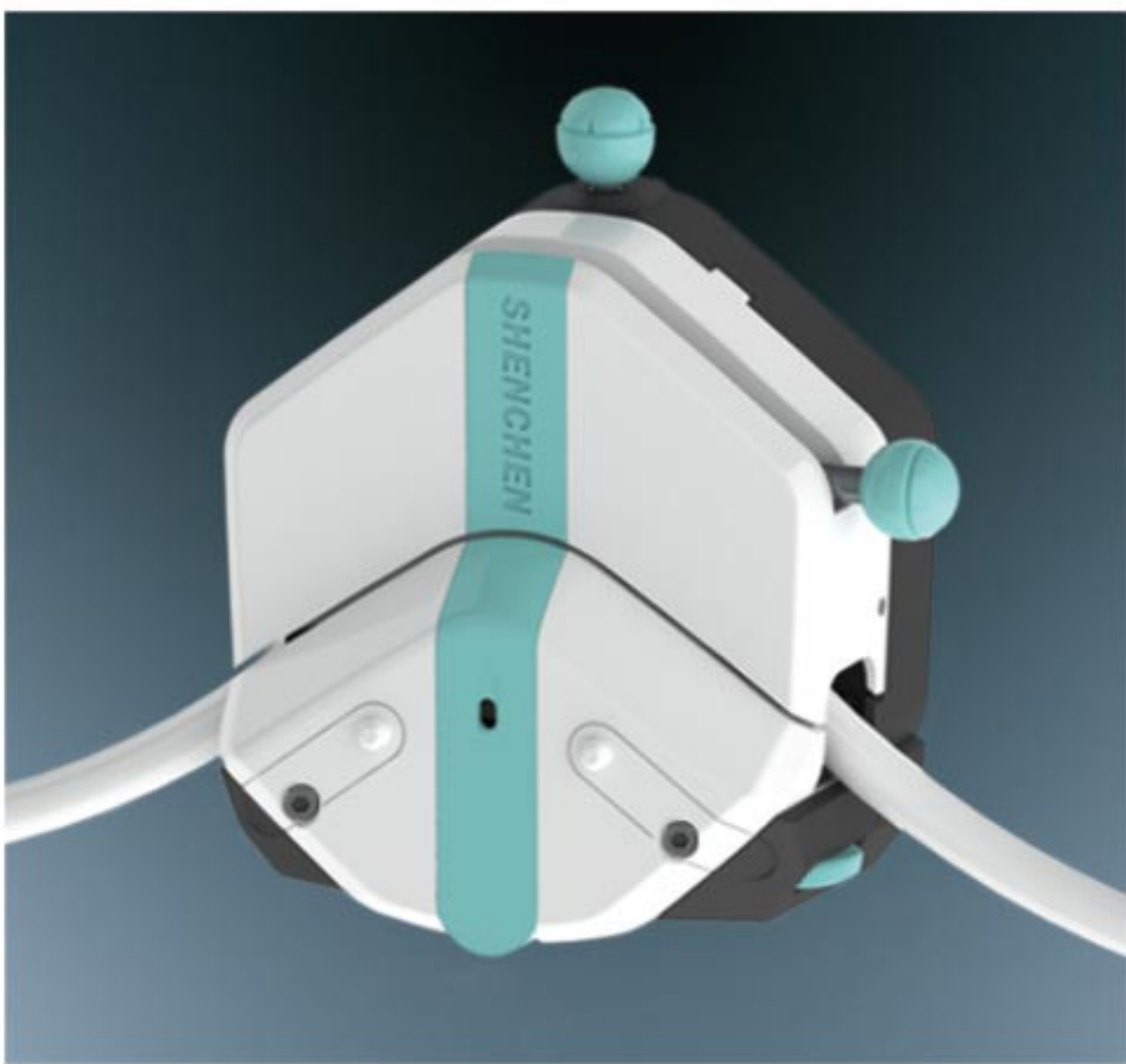
1. Turn the knob anticlockwise 180°, open the upper block.



2. Turn the rubbing wheel to adjust the lower tube clamp position, according to the tubing size.



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



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

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

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

Other Color Selection(EasyPump-PPS Series)



EasyPump-PPSG(Pressure Adjustable)



EasyPump-PPSG(Fixed Pressure)

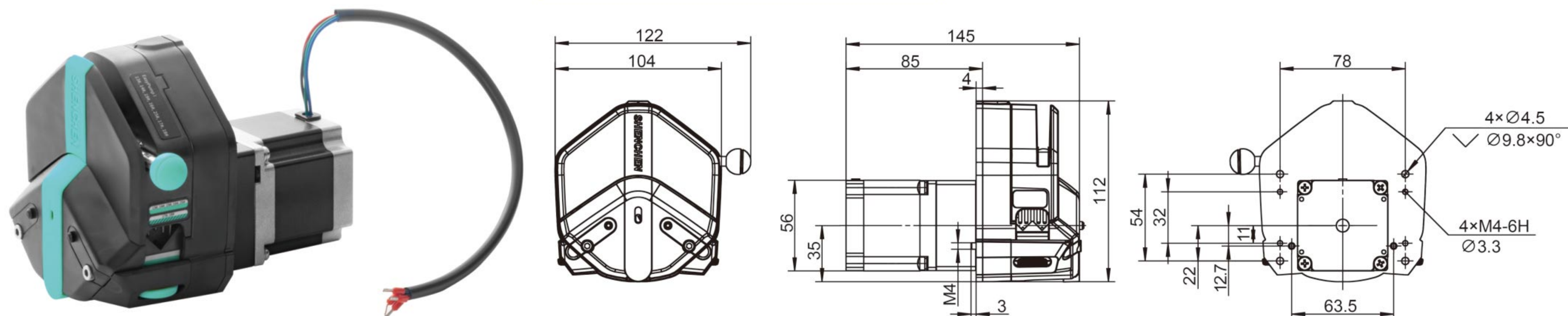


OEM Product

Quick Load Pump Head Series EasyPump

OEM-EYB101

Dimension Drawing(Unit: mm)

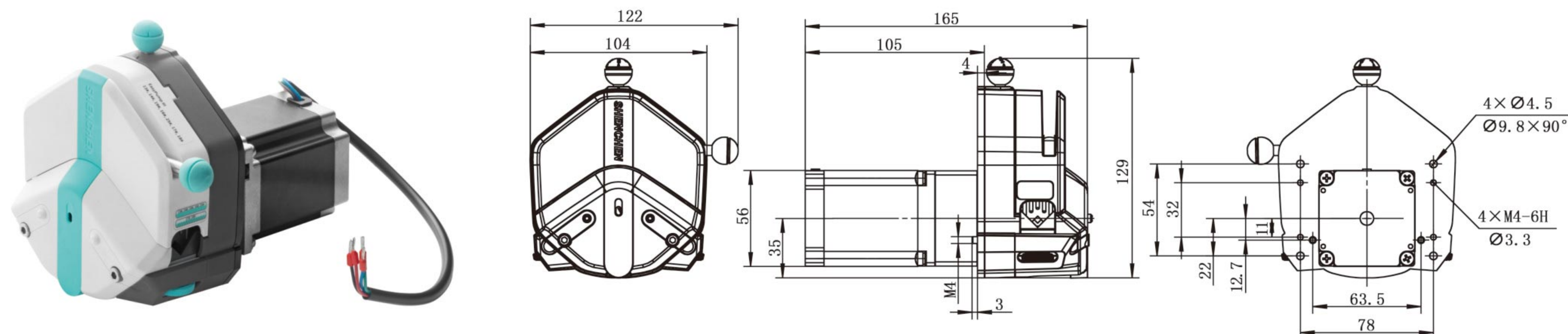


OEM-EYB101 Technical Specifications

Speed range	0.1-350 rpm	Motor step angle	1.8°
Flow rate range	0.0053-1505mL/min	Motor phase voltage	2.7V
Motor type	57 stepper motor	Motor phase current	3.0A
Motor phase number	2	Working environment	0-40℃, 80%RH

OEM-EYB201

Dimension Drawing(Unit: mm)

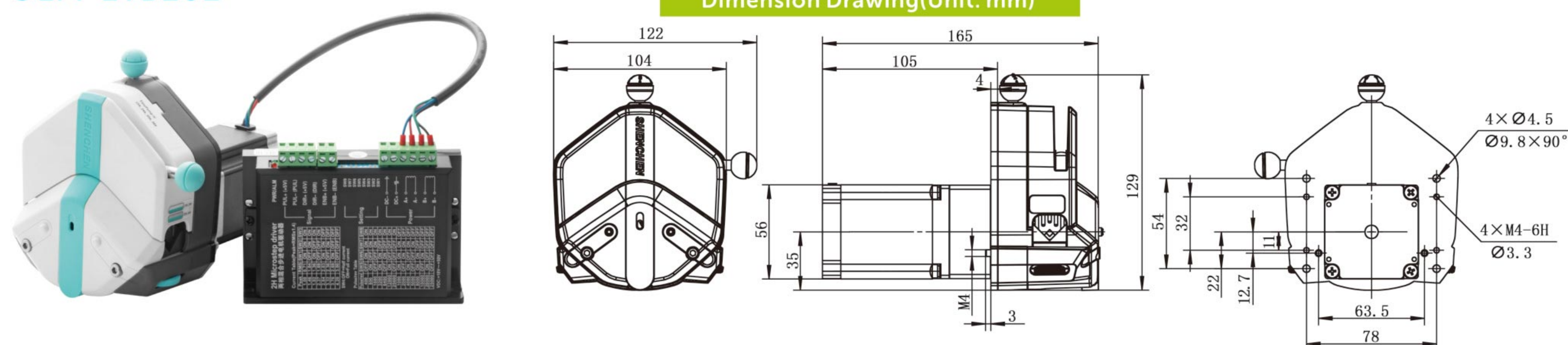


OEM-EYB201 Technical Specifications

Speed range	0.1-600 rpm	Motor step angle	1.8°
Flow rate range	0.0053-2580mL/min	Motor phase voltage	3.4V
Motor type	57 stepper motor	Motor phase current	3.0A
Motor phase number	2	Working environment	0-40℃, 80%RH

OEM-EYB202

Dimension Drawing(Unit: mm)



OEM-EYB202 Technical Specifications

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

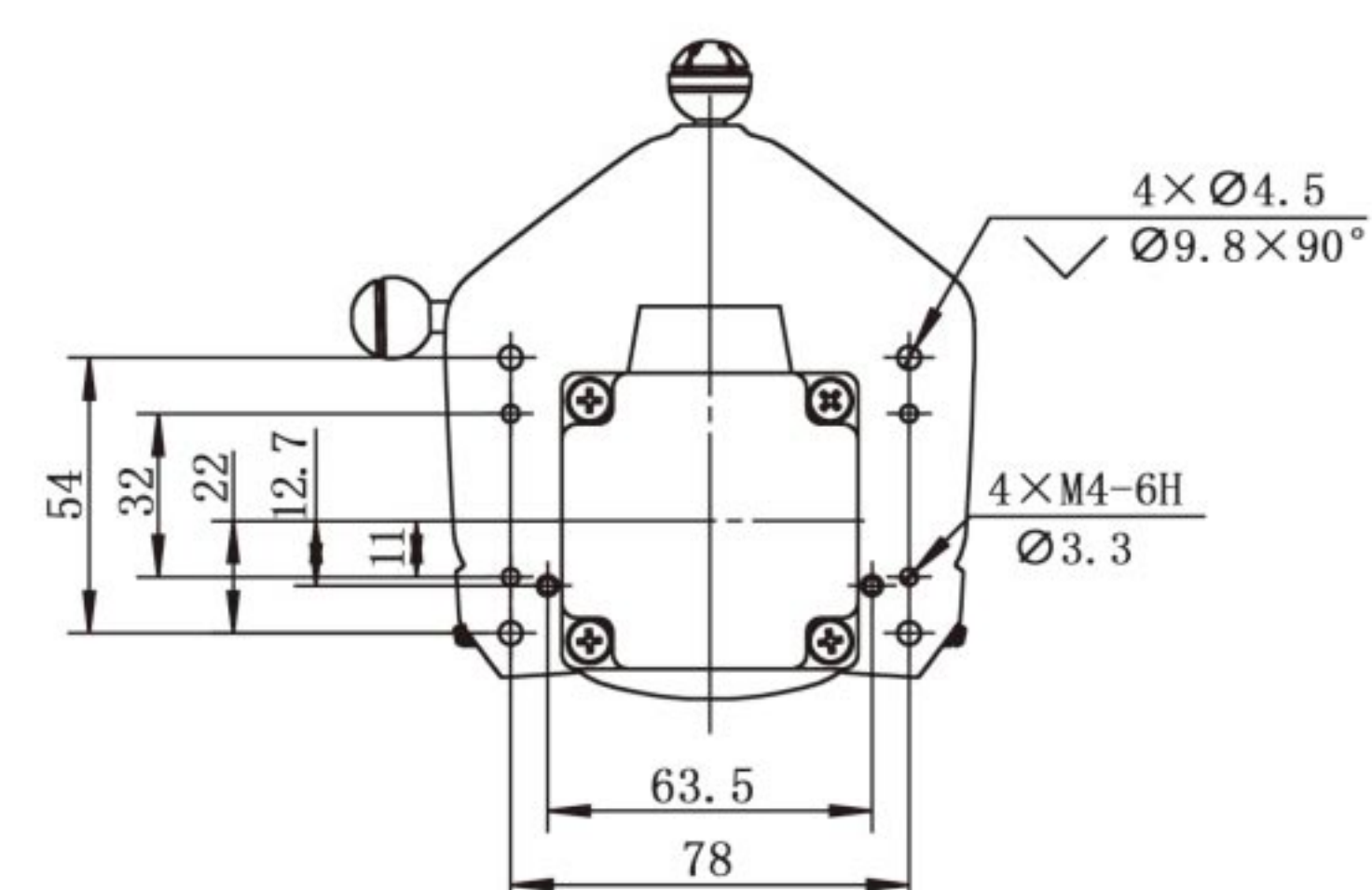
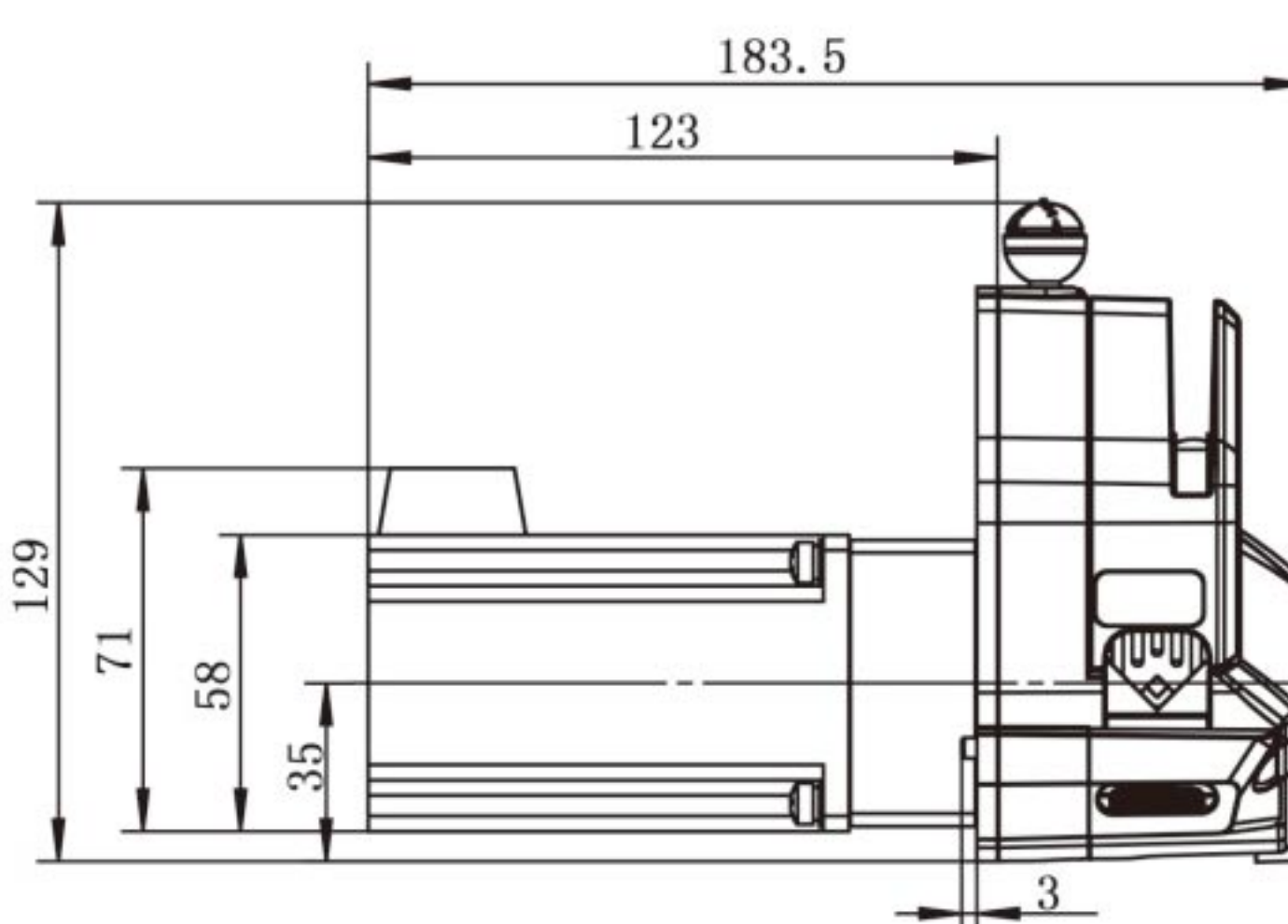
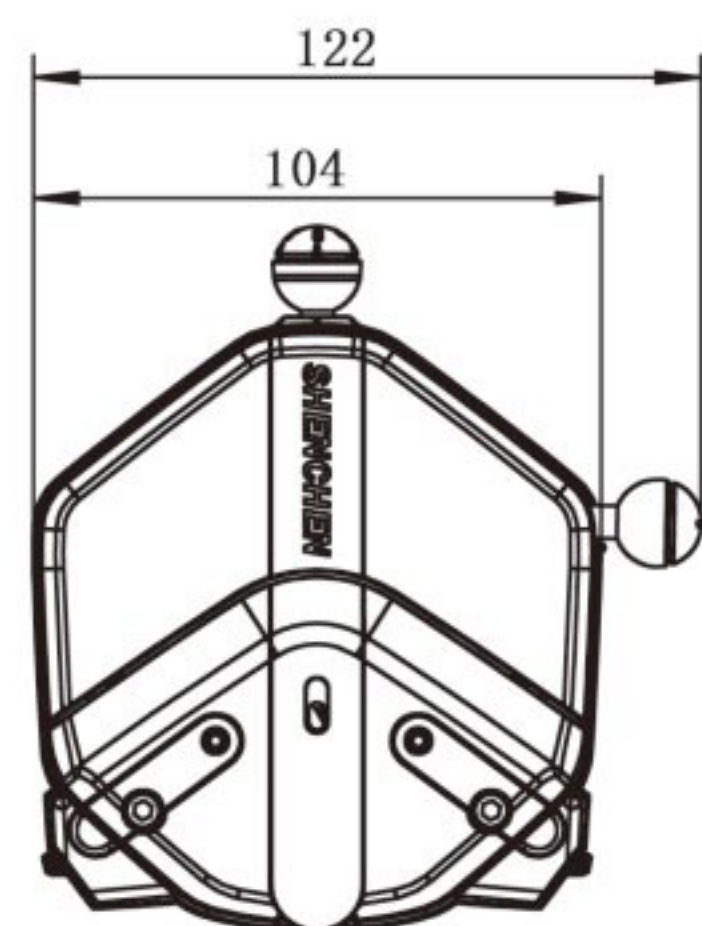


OEM Product

Quick Load Pump Head Series EasyPump

OEM-EYB301

Dimension Drawing(Unit: mm)

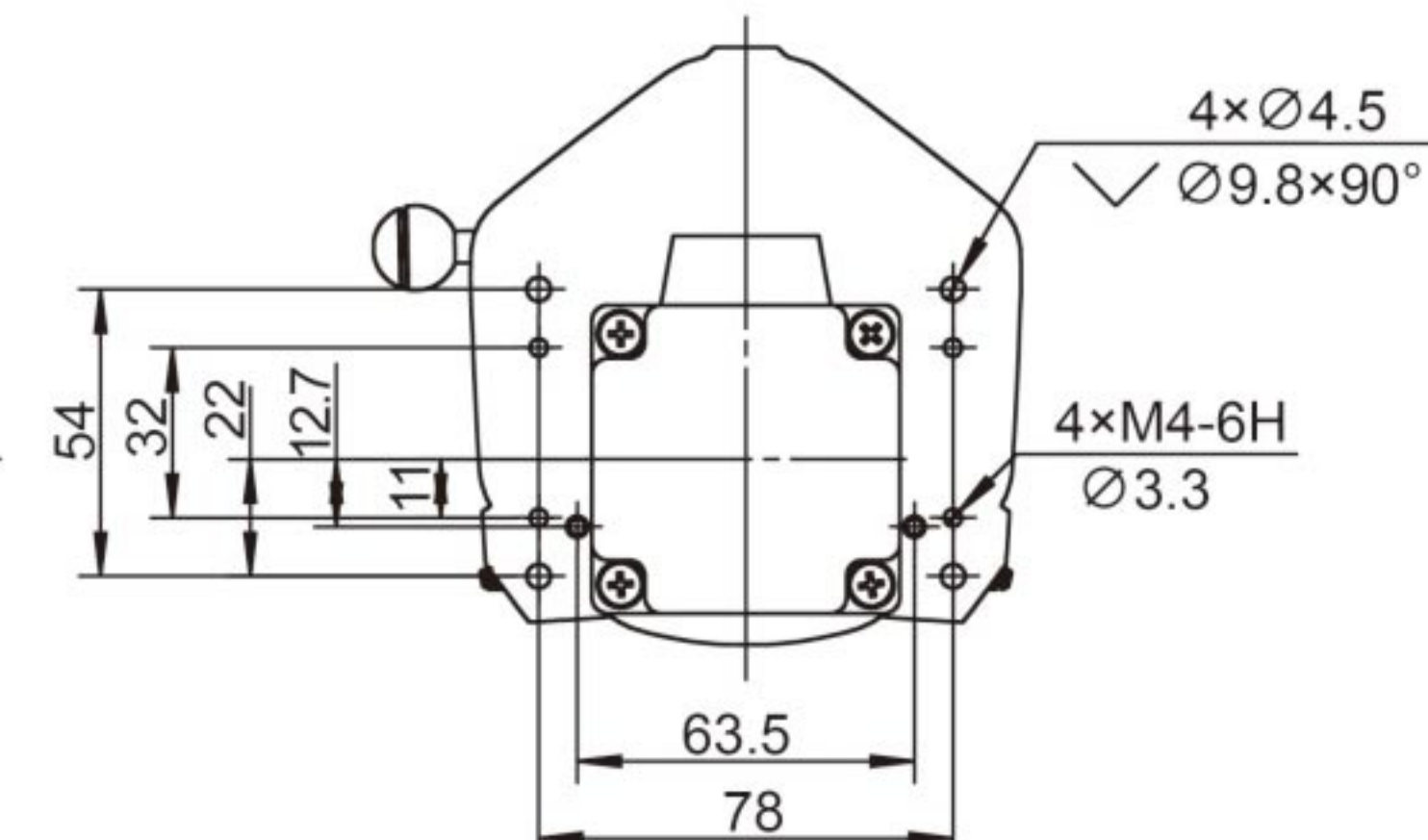
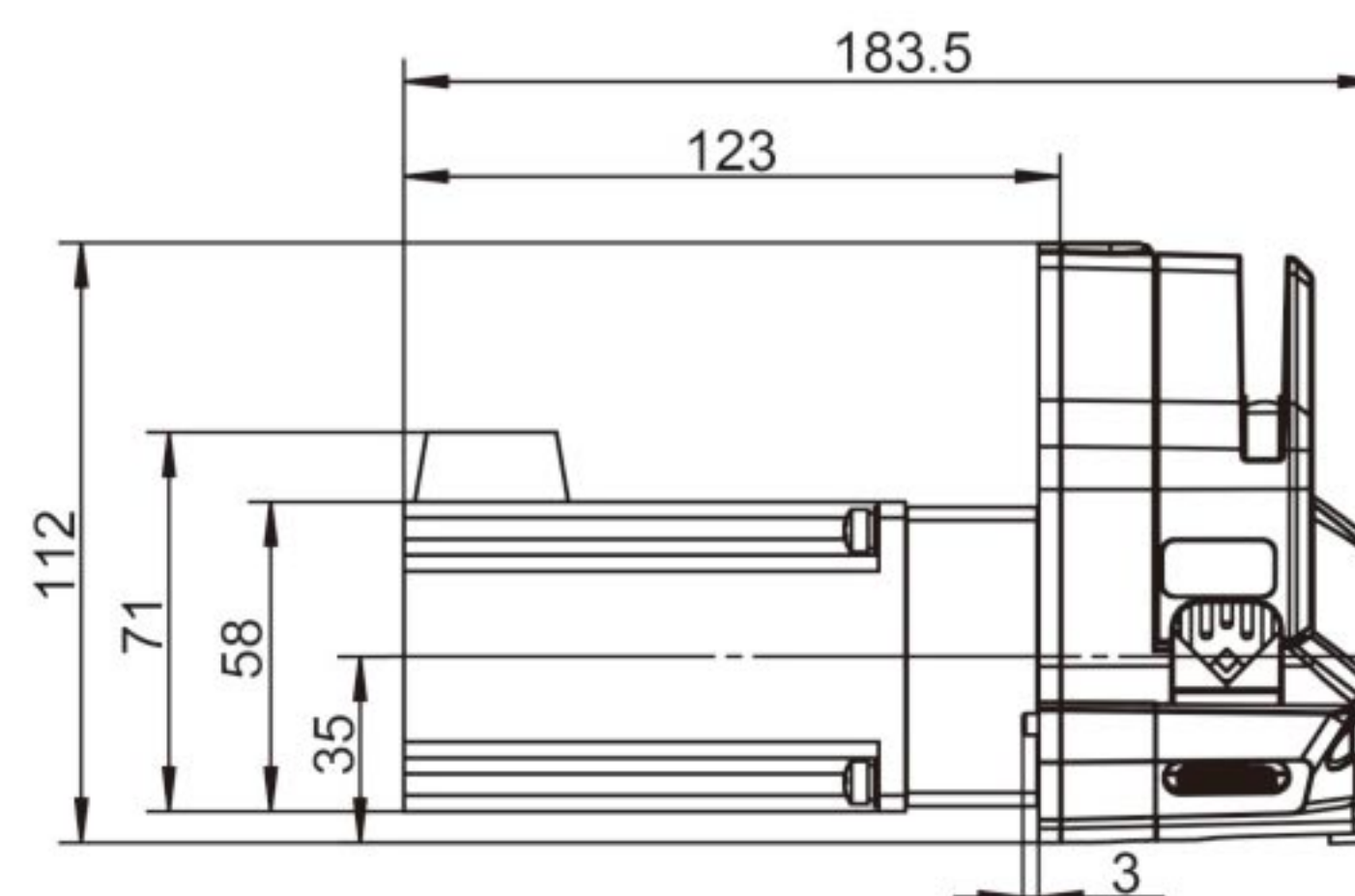
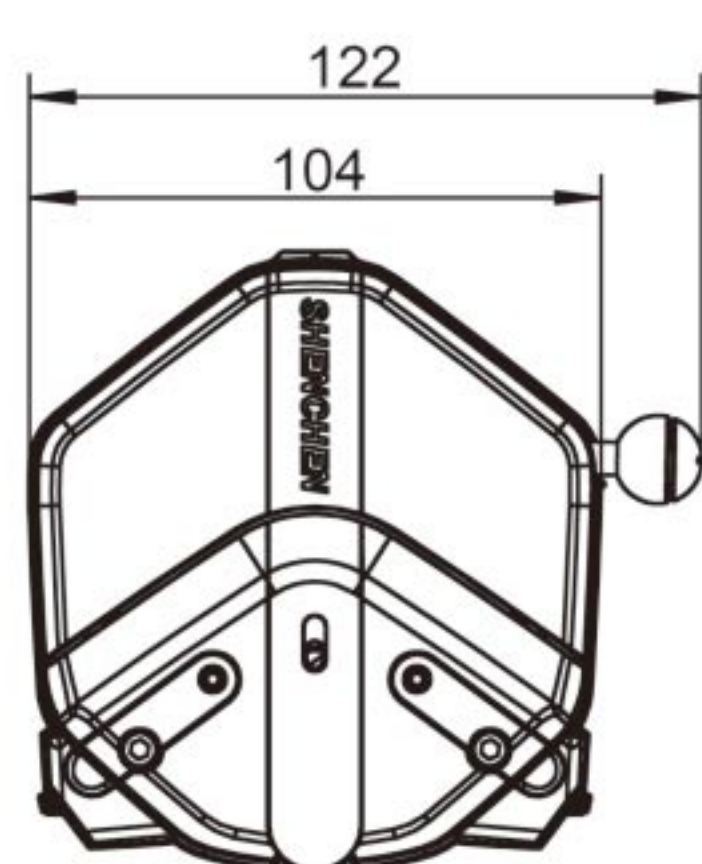


OEM-EYB301 Technical Specifications

Speed range	0.1-600 rpm	Motor phase voltage	1.9V
Flow rate range	0.0053-3100mL/min	Motor phase current	5.0A
Motor type	57 Closed-loop stepper motor	Encoder power voltage	DC5V(±10%)
Motor phase number	2	Encoder resolution	1000cpr
Motor step angle	1.8°	Working environment	0-40℃, 80%RH

OEM-EYB302

Dimension Drawing(Unit: mm)

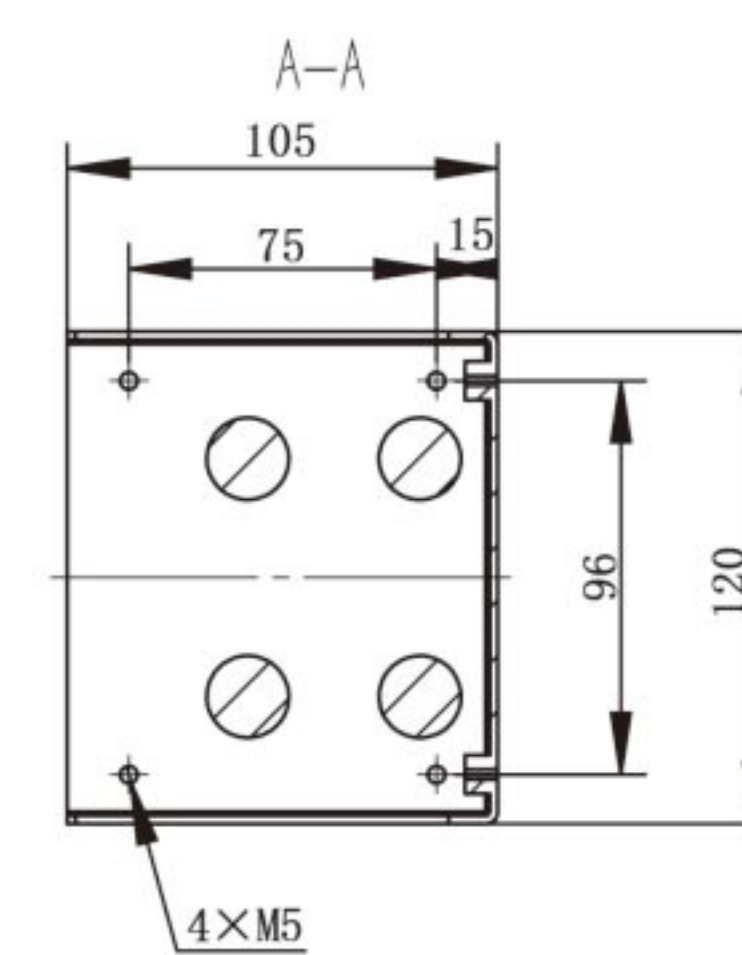
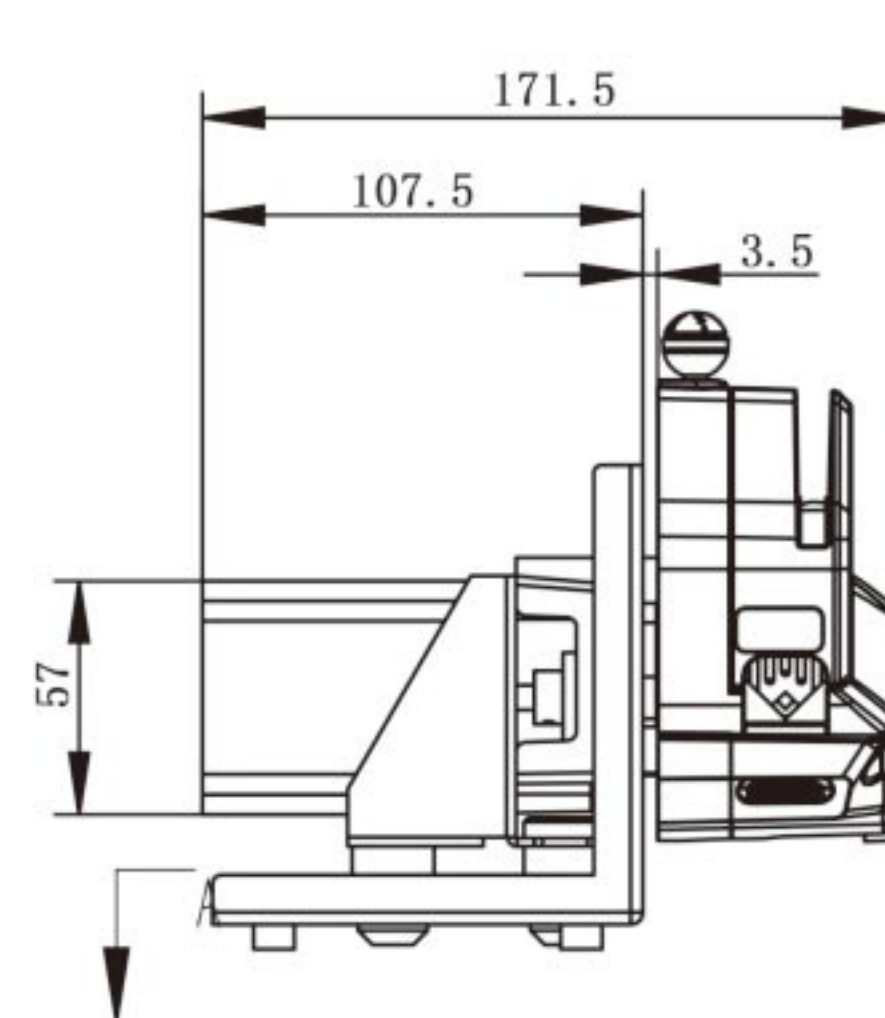
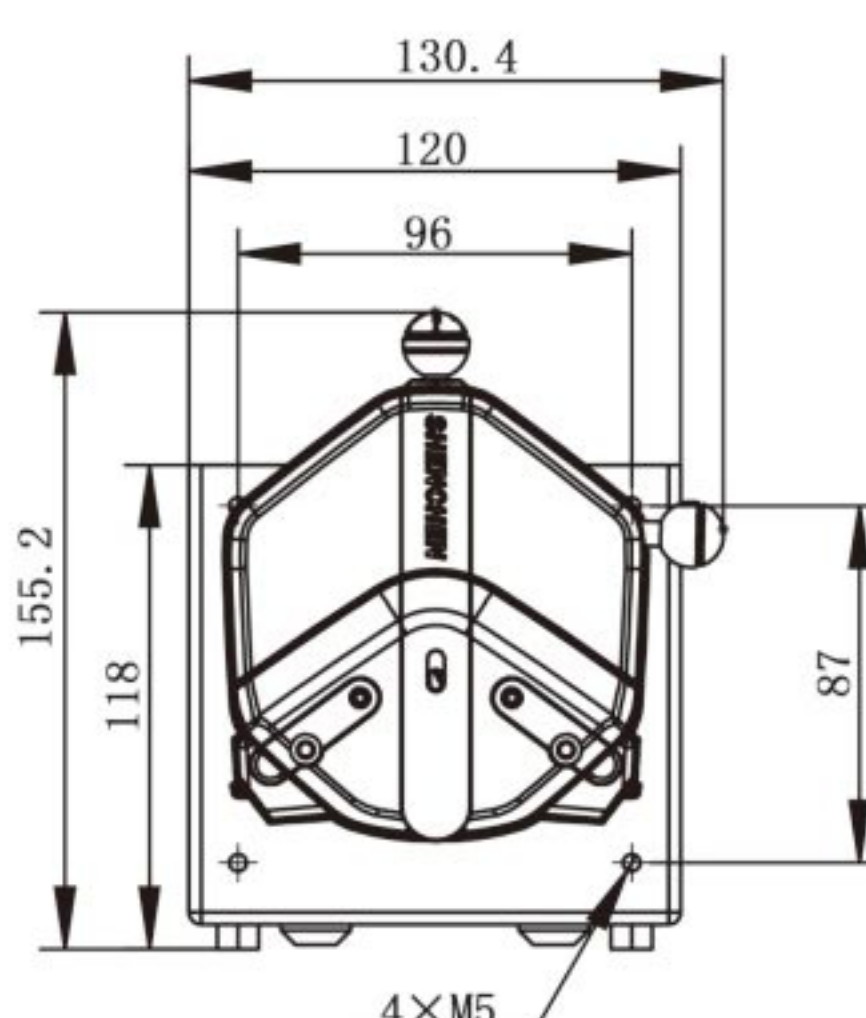


OEM-EYB302 Technical Specifications

Speed range	0.1-600 rpm	Motor type	57 Closed-loop stepper motor
Flow rate range	0.0053-3100mL/min	Power supply	DC18 ~ 50V(recommend36V), ≥80W
Speed control	External input pulse frequency speed control	Logic input voltage	5V
Subdivision settings	4-speed DIP switch setting(default 16 subdivisions)	Working environment	0-40℃, 80%RH
Current setting	Adaptive current		

OEM-B29/EasyPump

Dimension Drawing(Unit: mm)



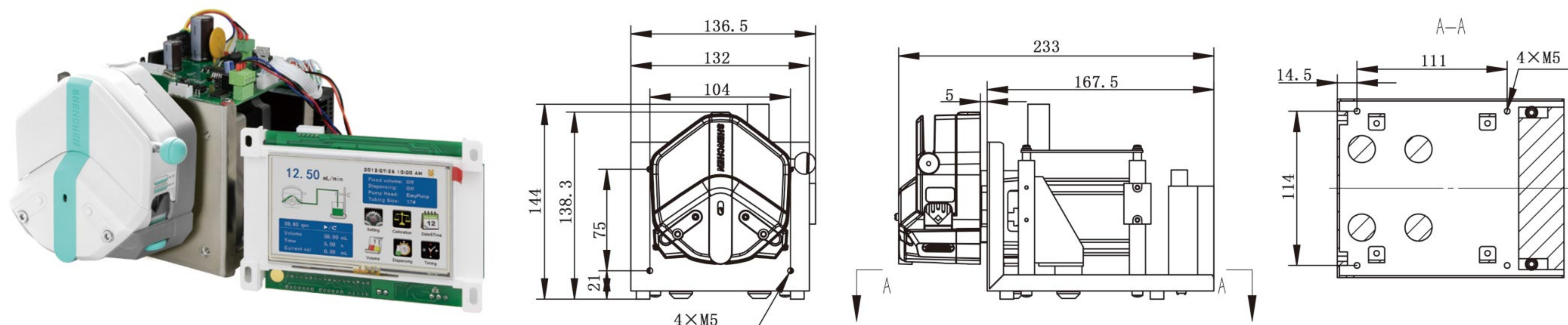
OEM-B29 Technical Specifications

Speed range	0.1-600 rpm	Motor step angle	1.8°
Flow rate range	0.0053-2580mL/min	Motor phase voltage	1.5V
Motor type	57stepper motor	Motor phase current	3.0A
Motor phase number	2	Working environment	0-40℃, 80%RH



OEM-B242/B243/B244/EasyPump

Dimension Drawing(Unit: mm)

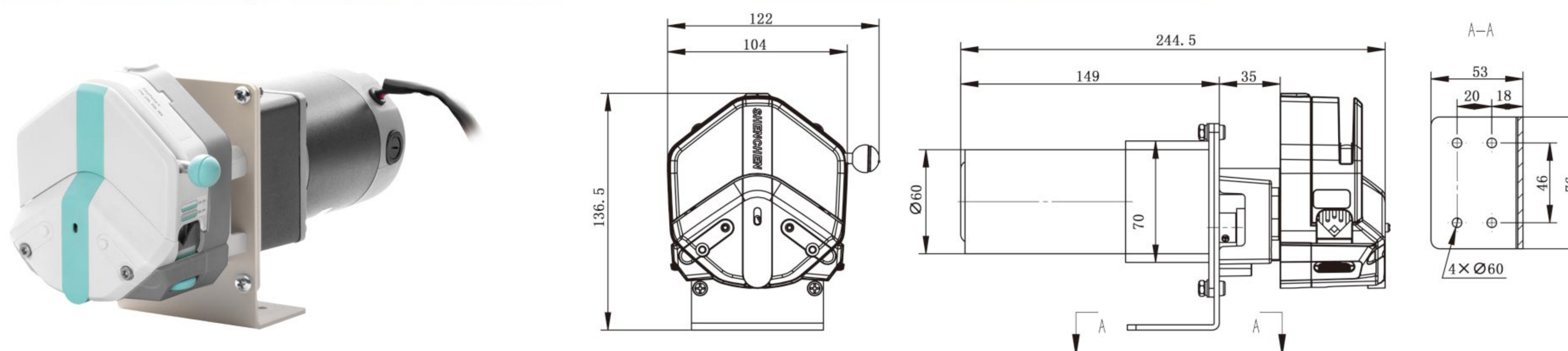


OEM-B242/B243/B244 Technical Specifications

Motor type	Stepper motor	Function type	OEM-B242, Flow rate type
Display	Industrial grade 4.3" LCD color display		OEM-B243, Dispensing type
Control method	Touch screen and Mechanical keypad		OEM-B244, Multichannel filling type
Speed range	≤600rpm	Working environment	0-40℃, 80%RH
Max.flow rate	2580mL/min		

OEM-Z216/EasyPump(DC motor)

Dimension Drawing(Unit: mm)

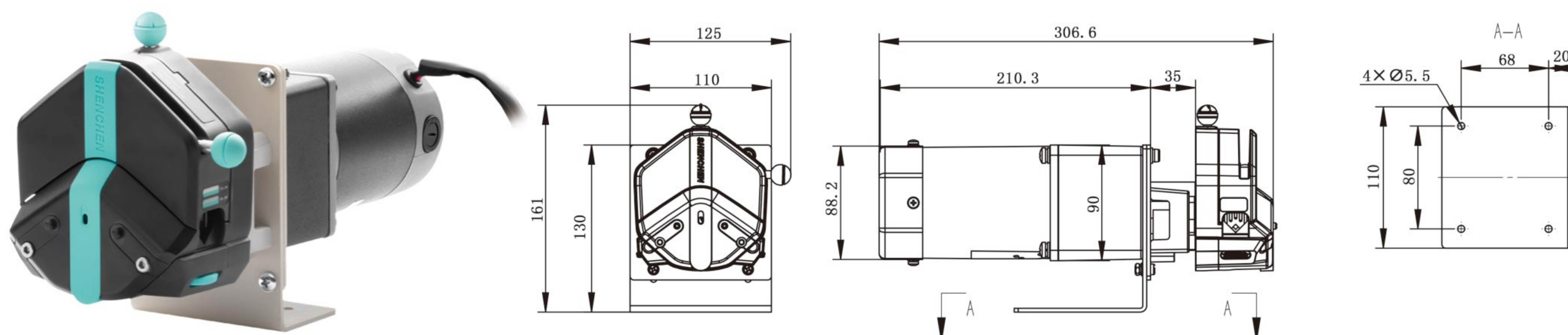


OEM-Z216 Technical Specifications

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

OEM-J022/EasyPump(AC motor)

Dimension Drawing(Unit: mm)

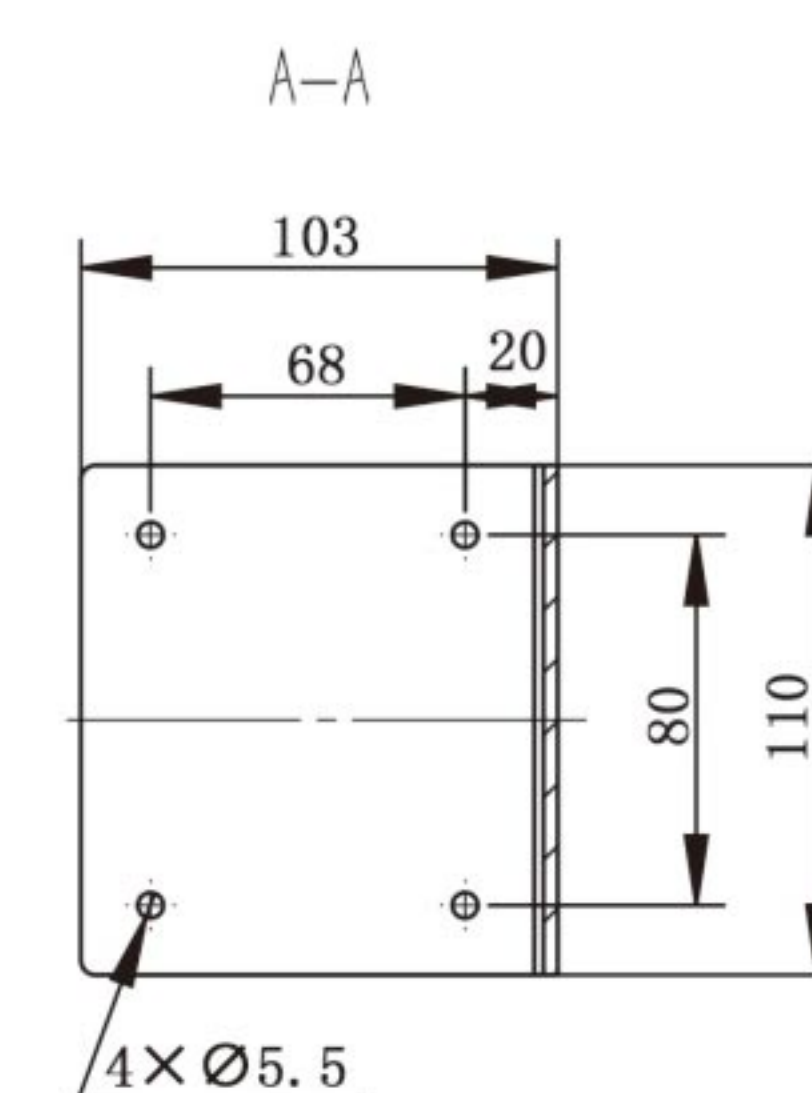
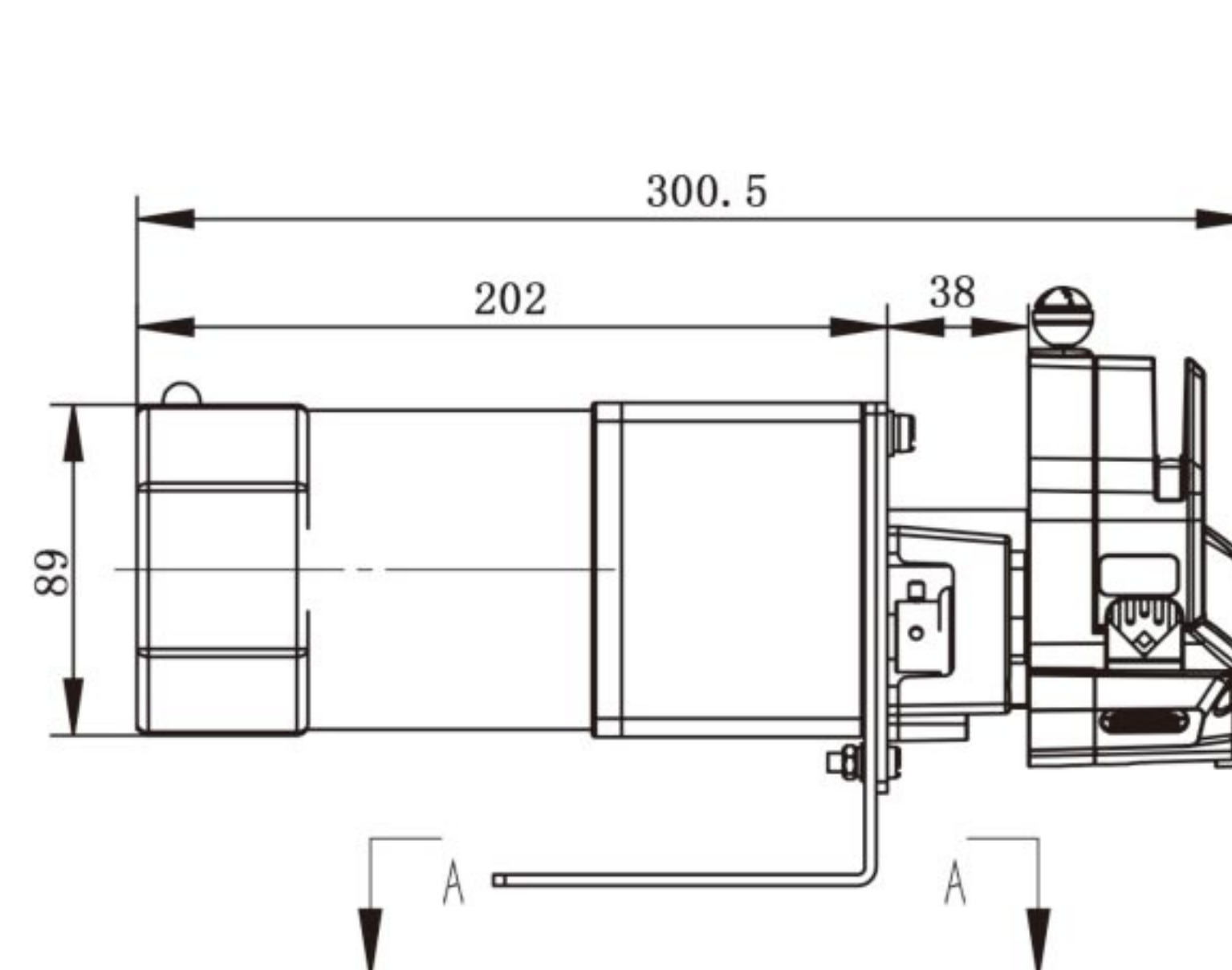
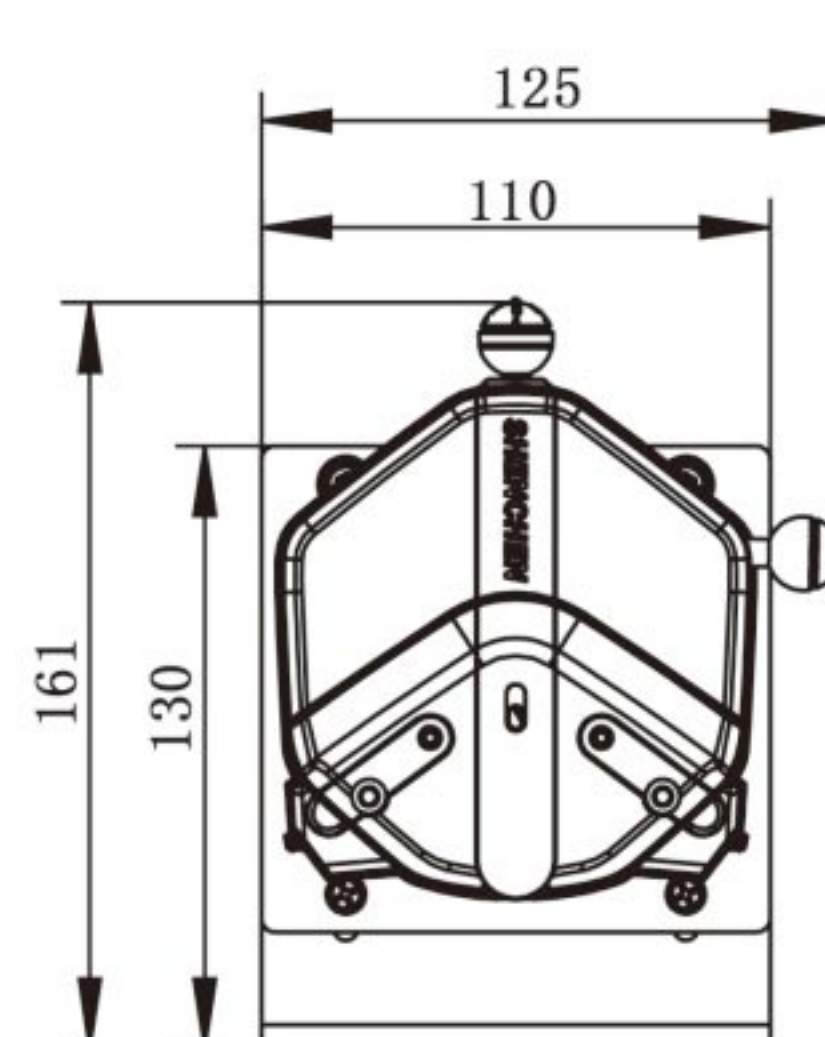


OEM-J022 Technical Specifications

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

OEM-JT12/EasyPump

Dimension Drawing(Unit: mm)



OEM-JT12 Technical Specifications

Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-JT12	AC speed adjustable motor	AC220V/AC110V	43-430	$\leq \pm 10\%$	0-40°C, 80%RH

Quick Load Pump Head

HandyPump



Single channel



Dual channel

(3/6rollers)

Product Features

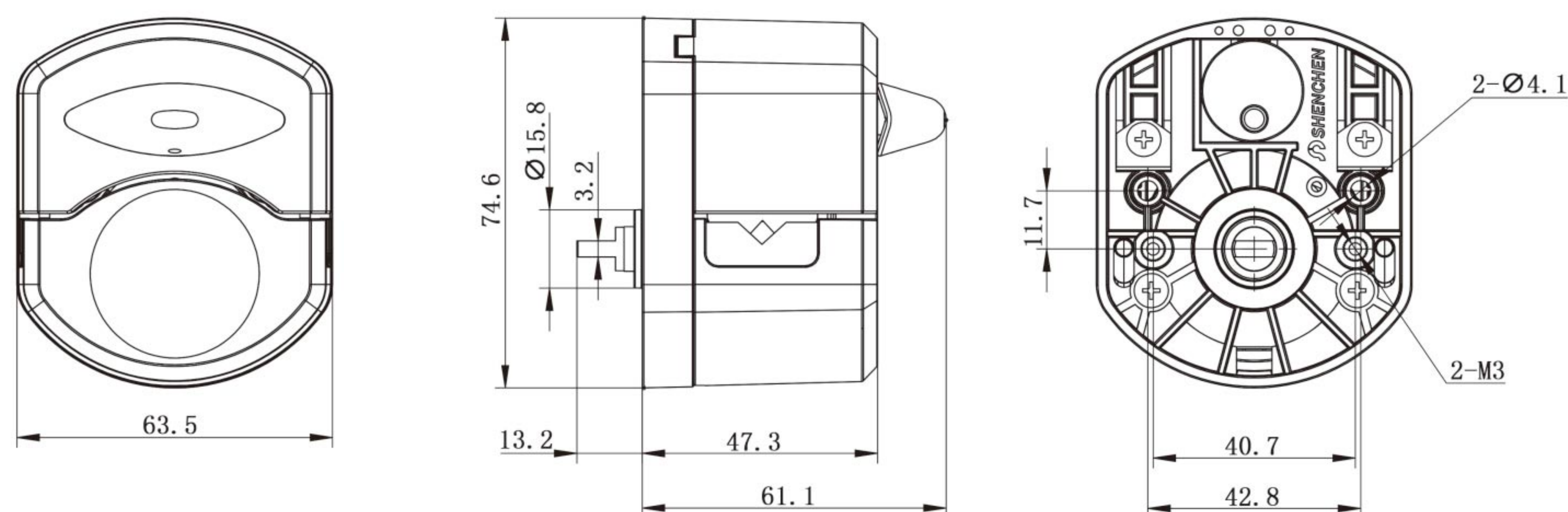
- Flow rate range: 0.0033-365.69mL/min (3 rollers)
0.0031-190.81mL/min (6 rollers)
- Front knob to open the pump head, save space.
- Automatic tubing retention makes tube loading easy and quick.
- Single and dual-channel head available.
- 5 different sizes tubing to meet different flow rate requirements.

Single channel
HandyPump01Dual channel
HandyPump02

Other Color Selection(HandyPump-PPS Series)



Dimension Drawing(Unit: mm)



Tubing Installation Procedure



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



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



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

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

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

Technical Specifications

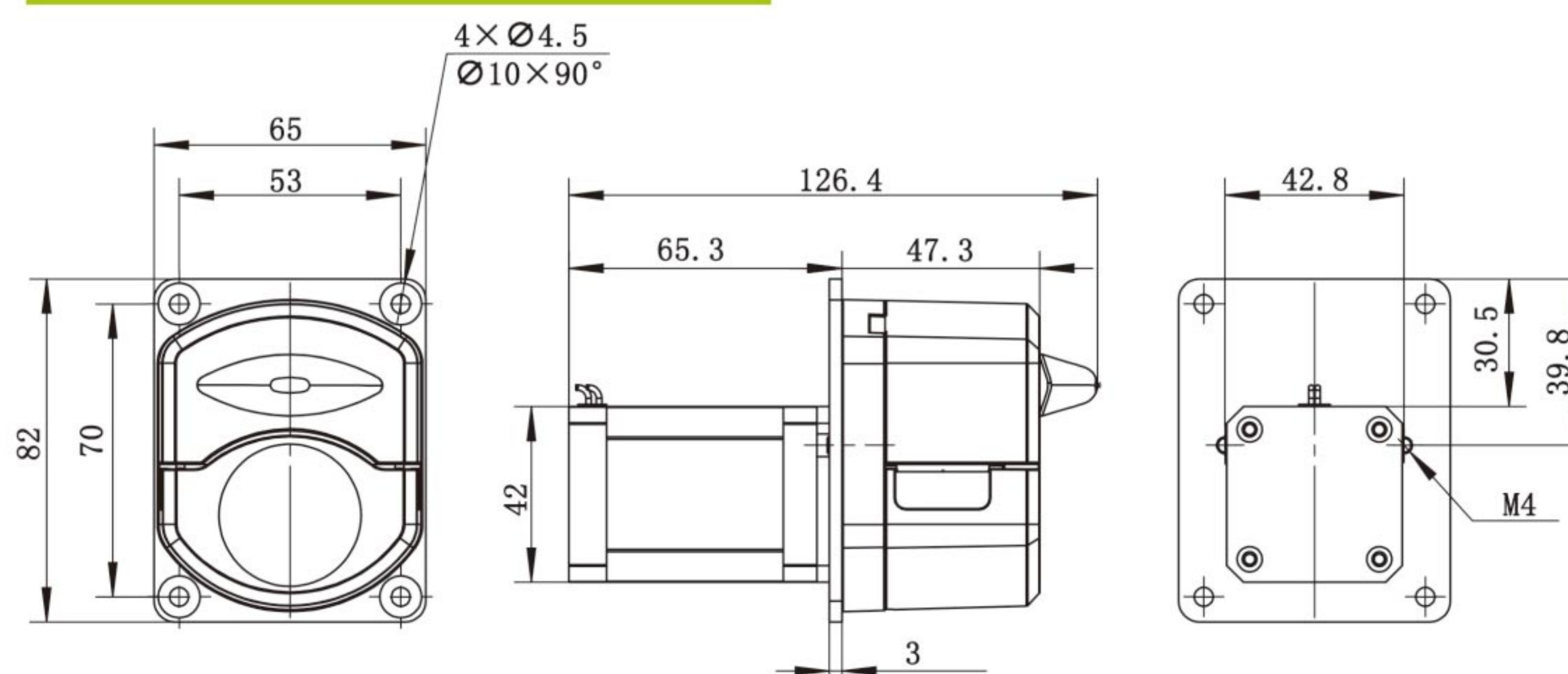
Pump Head	Channel number	Tubing	ID×Wall thickness(mm)	mL/r (3 rollers)	mL/r (6 rollers)	Speed (rpm)	Flow Rate(mL/min) (3 rollers)	Flow Rate(mL/min) (6 rollers)	Weight (kg)
HandyPump01	Single channel	13 [#]	0.8×1.6	0.033	0.031	0.1~300	0.0033~10.03	0.0031~29.36	0.224 (3 rollers)
		14 [#]	1.6×1.6	0.187	0.126		0.0187~56.09	0.0208~37.68	
		19 [#]	2.4×1.6	0.371	0.215		0.0371~111.17	0.0036~64.51	0.302 (6 rollers)
		16 [#]	3.1×1.6	0.636	0.345		0.0636~190.76	0.0059~103.51	
		25 [#]	4.8×1.6	1.219	0.636		0.1219~365.69	0.01038~190.81	
HandyPump02	Dual channel	13 [#]	0.8×1.6	0.033	—	0.1~300	0.0033~10.03	—	0.224 (3 rollers)
		14 [#]	1.6×1.6	0.187	—		0.0187~56.09	—	
		19 [#]	2.4×1.6	0.371	—		0.0371~111.17	—	
		16 [#]	3.1×1.6	0.636	—		0.0636~190.76	—	

OEM Product

Quick Load Pump Head Series HandyPump01 HandyPump02

OEM-HYB001(42-60 stepper motor)

Dimension Drawing(Unit: mm)

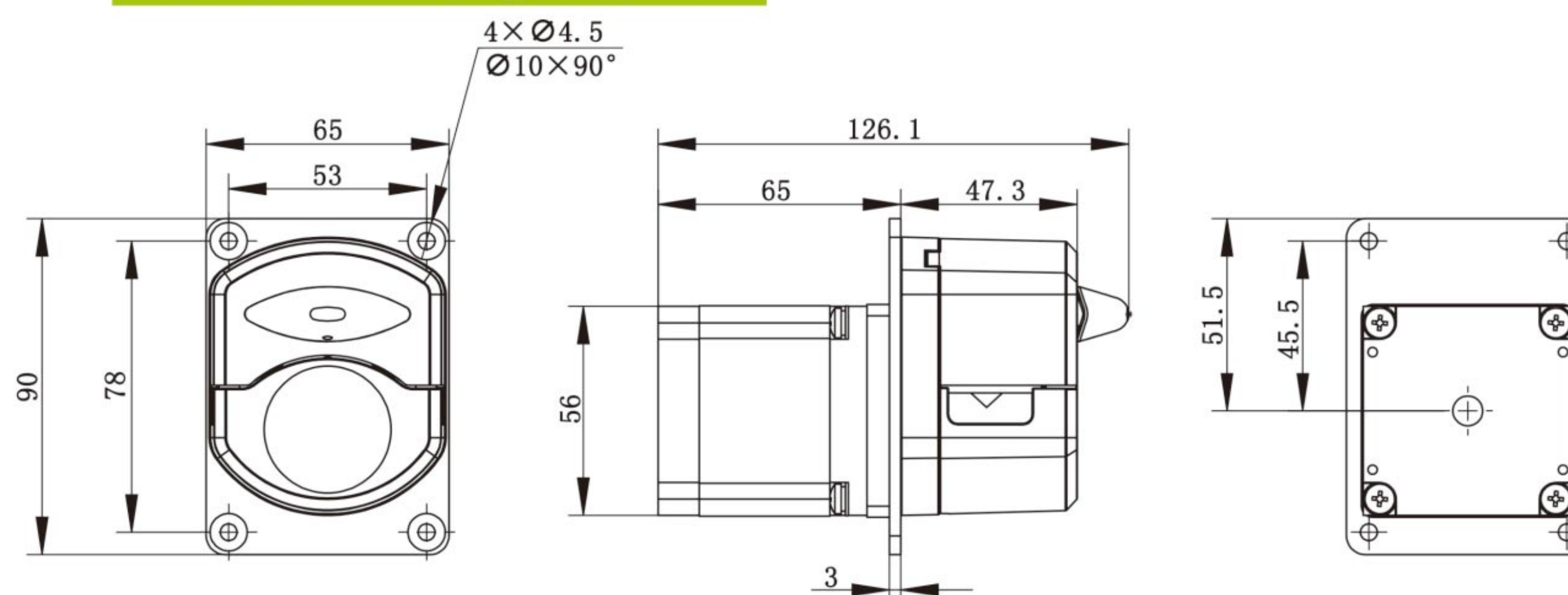


OEM-HYB001 Technical Specifications

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

OEM-HYB101(57stepper motor)

Dimension Drawing(Unit: mm)

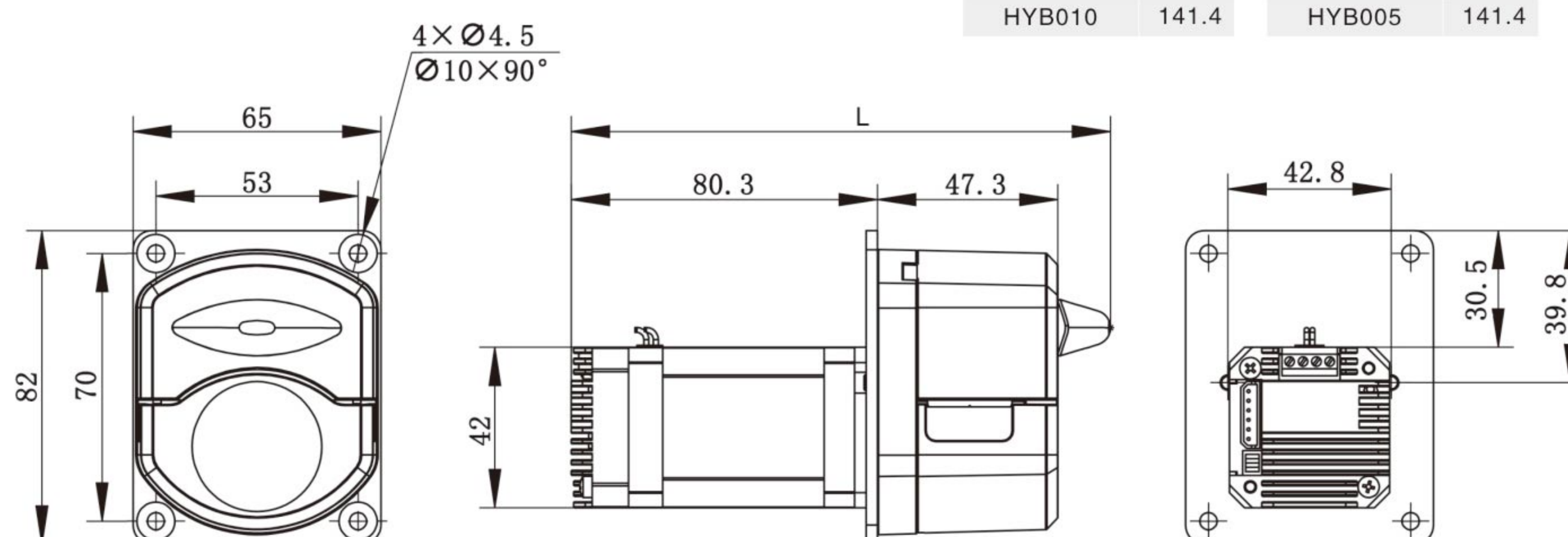


OEM-HYB101 Technical Specifications

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

OEM-HYB018(stepper motor)

Dimension Drawing(Unit: mm)



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

OEM-HYB003/004/005 Technical Specifications

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

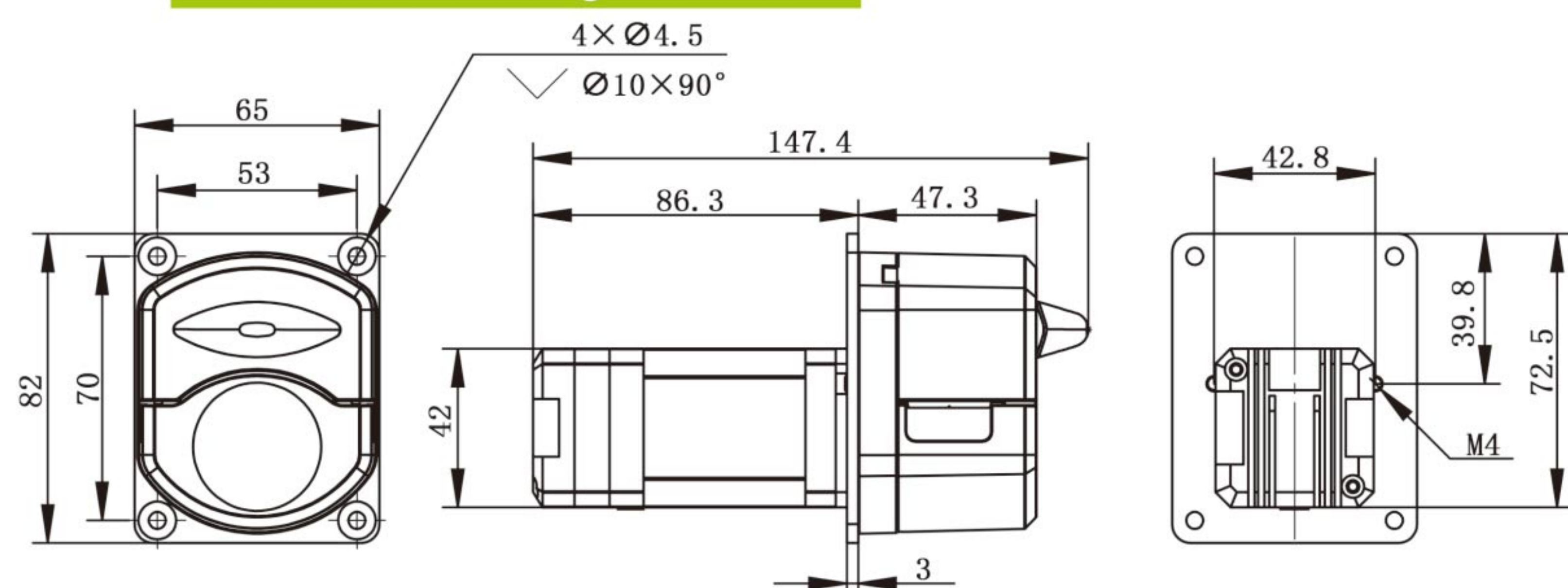


OEM-HYB018 Technical Specifications		OEM-HYB009 Technical Specifications		OEM-HYB010 Technical Specifications	
Speed range	0.1-300 rpm	Speed range	0.1-300 rpm	Speed range	0.1-300 rpm
Flow rate range	0.0033-365.69mL/min	Flow rate range	0.0033-365.69mL/min	Flow rate range	0.0033-365.69mL/min
Speed control	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	Motor type	42 stepper motor	Motor type	42 stepper motor
Motor type	42 stepper motor	Power supply	DC 24V, ≥36W	Power supply	DC 24V, ≥36W
Power supply	DC 24V, ≥36W	Working environment	0-40℃, 80%RH	Working environment	0-40℃, 80%RH
Working environment	0-40℃, 80%RH				

OEM-HYB019(42 stepper motor)



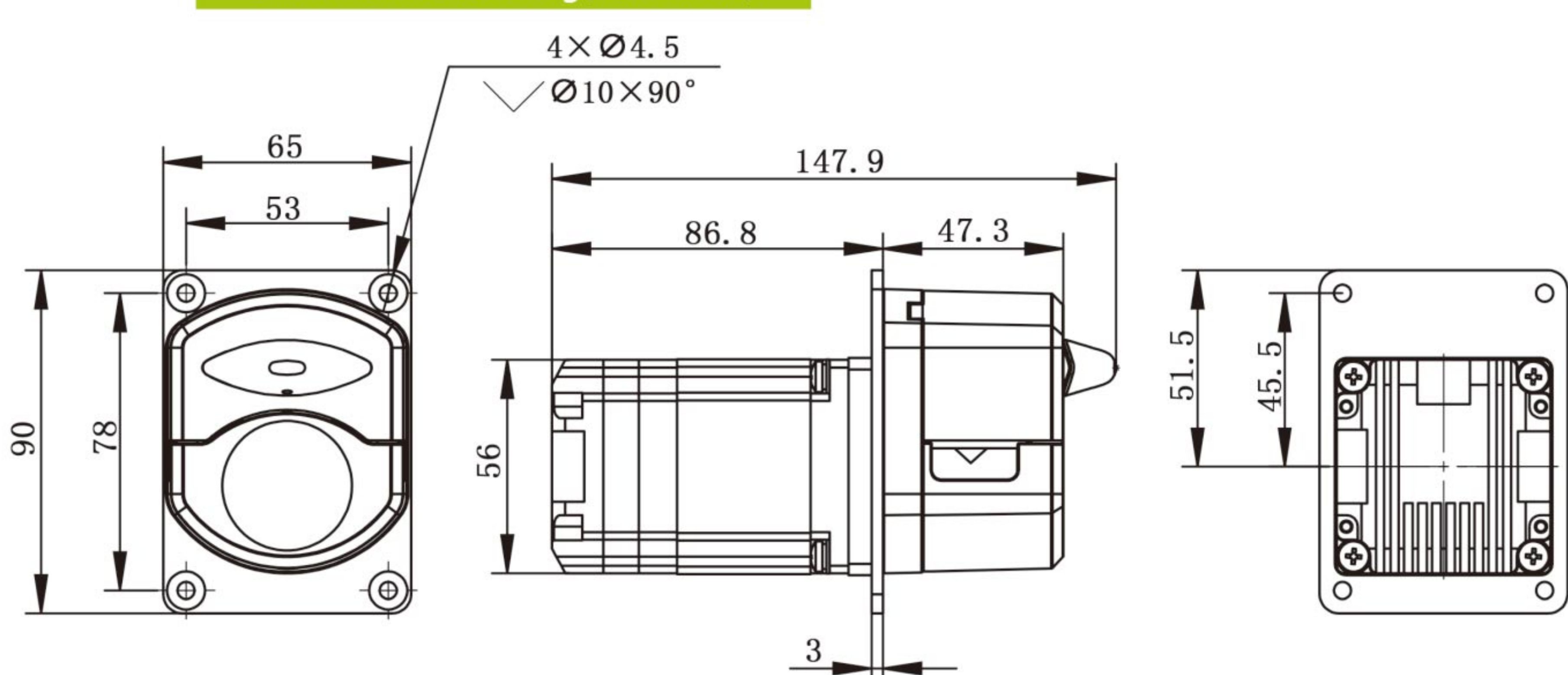
Dimension Drawing(Unit: mm)



OEM-HYB109(57 stepper motor)



Dimension Drawing(Unit: mm)

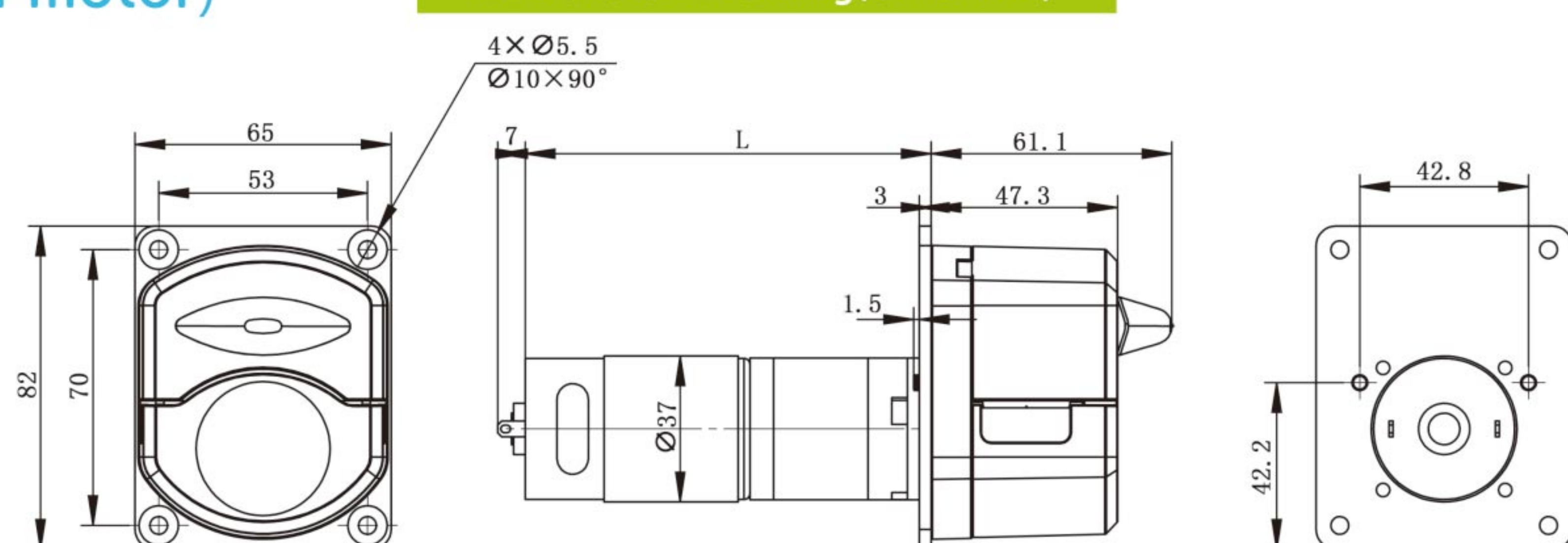


OEM-HYB019/HYB109 Technical Specifications					
Speed range	0.1-300rpm	Power supply	OEM-HYB019: DC24V~DC36V(recommendDC24V), ≥36W; OEM-HYB109: DC24V~DC36V (recommendDC24V), ≥50W;		
Flow rate range	0.0033-365.69mL/min				
Motor type	Integrated closed-loop stepper motor	Logic input voltage	DC5V		
Speed control	External input pulse frequency signal	Working environment	0-40℃, 80%RH		
Subdivisions	1/16 (Default) DIP switch can set a variety of subdivisions				

OEM-HYZ Series(DC planetary gear motor)



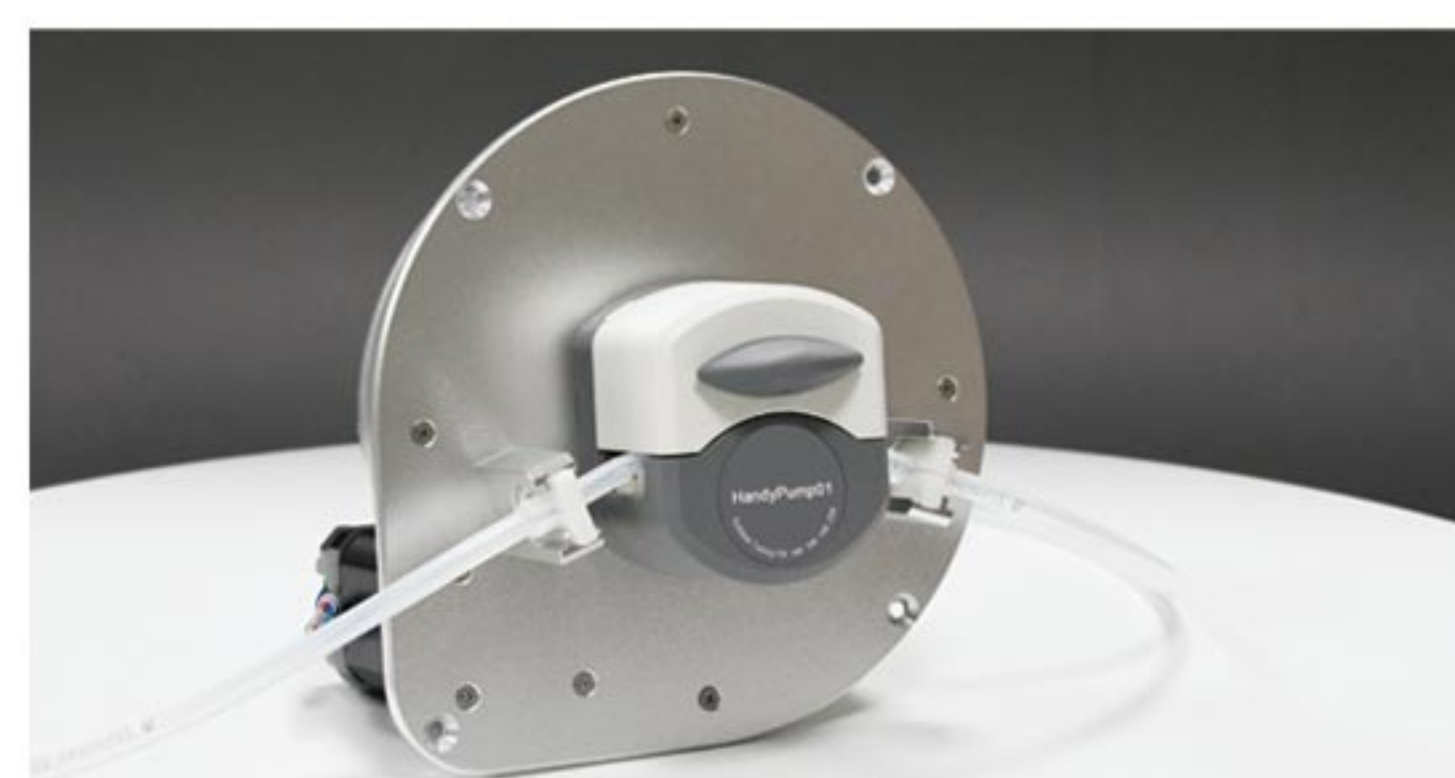
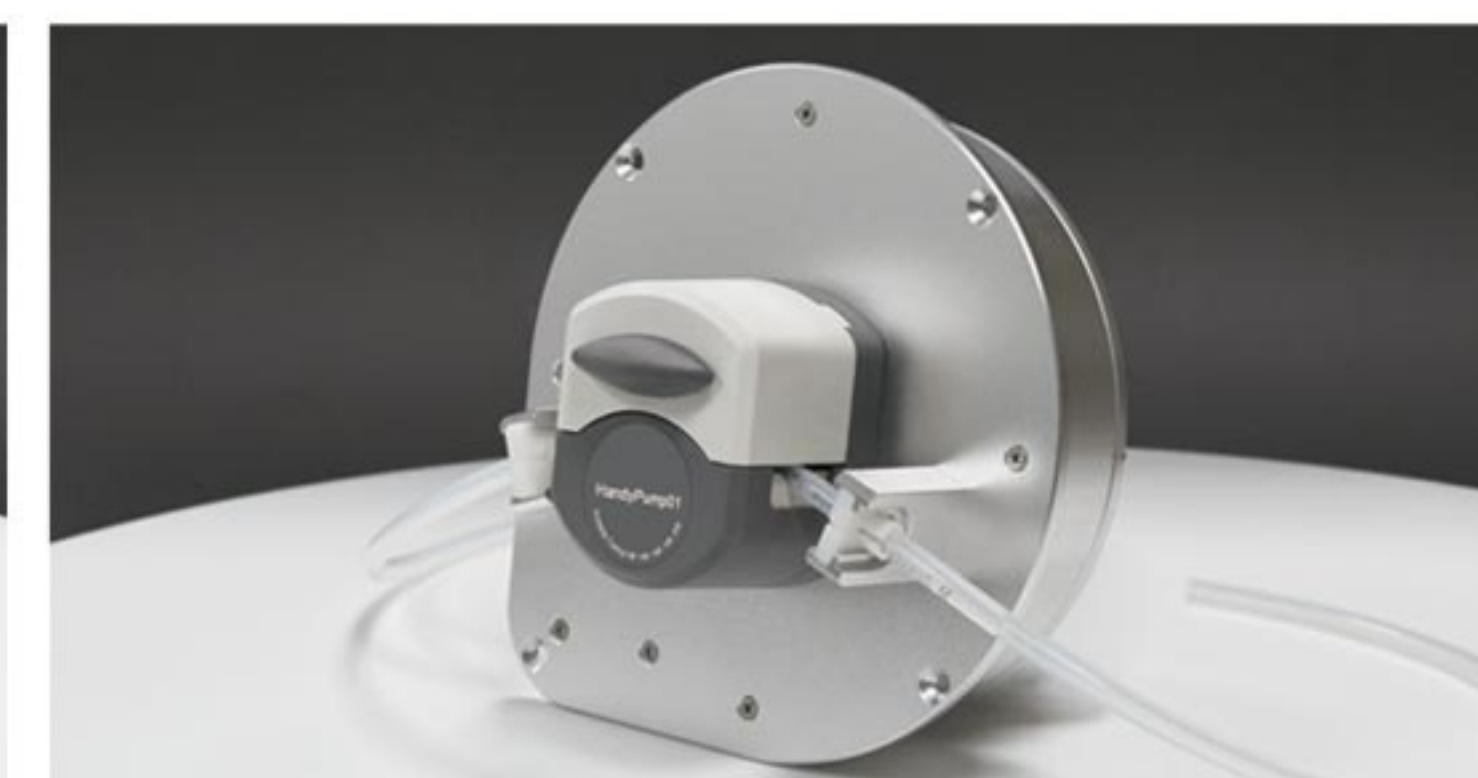
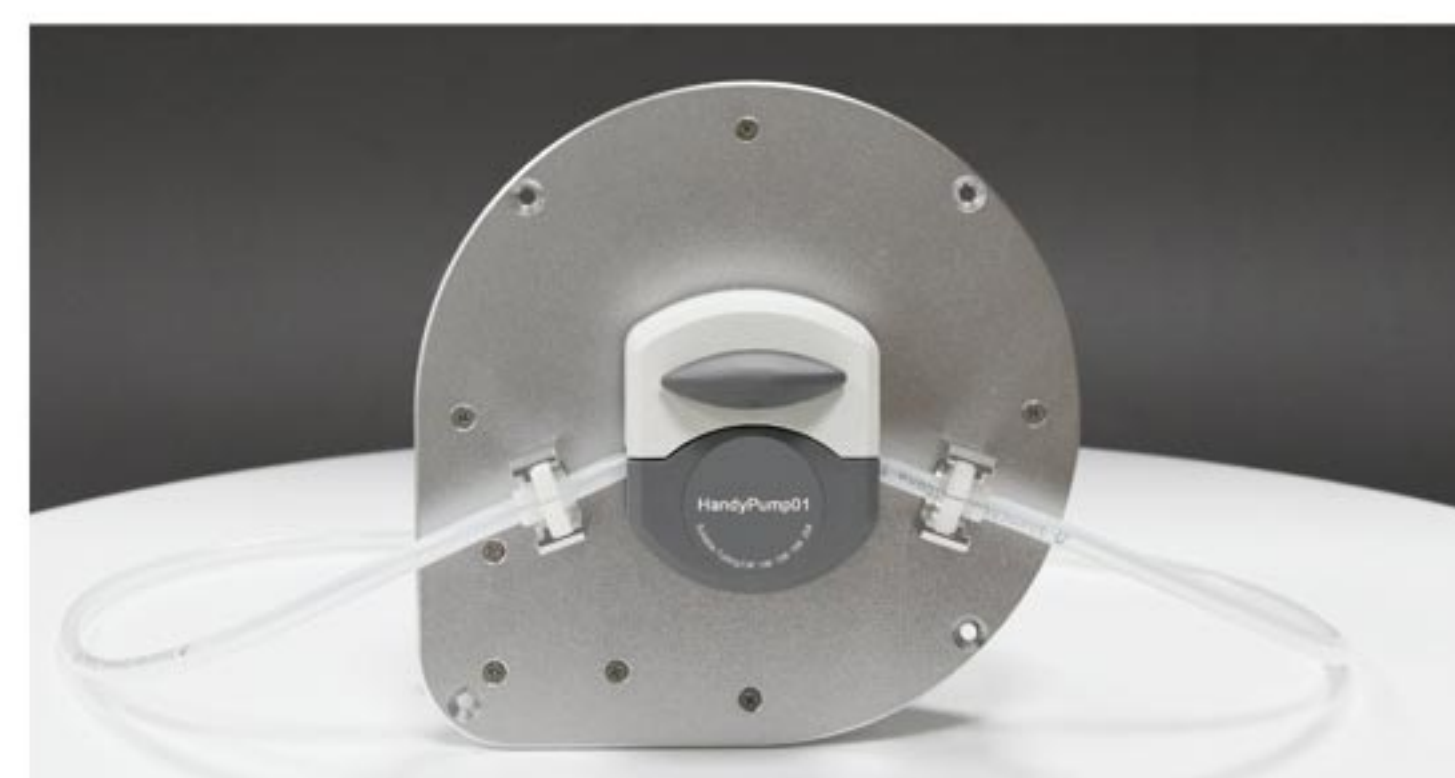
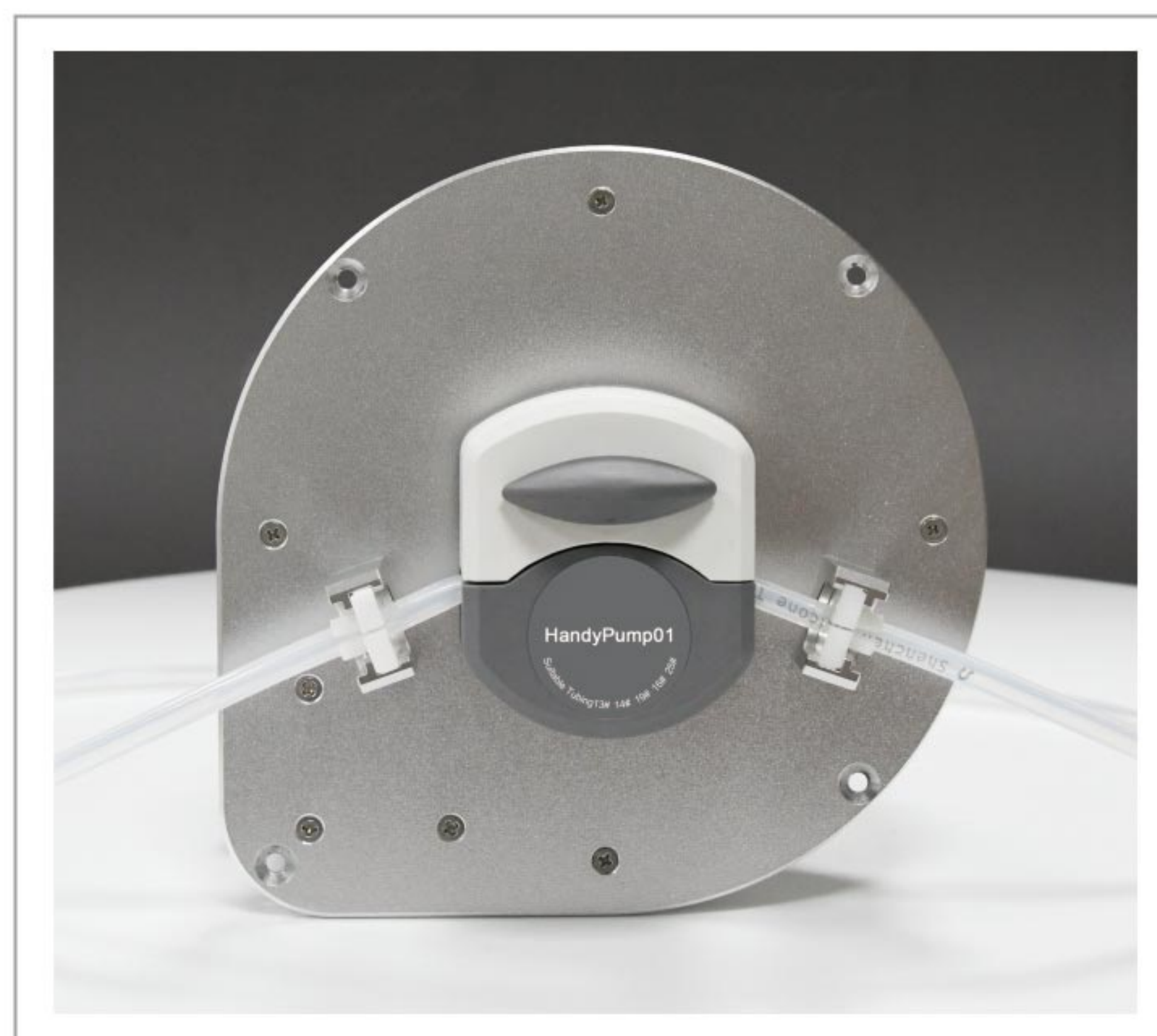
Dimension Drawing(Unit: mm)



OEM-HYZ series Technical Specifications					
Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-HYZ001	37 DC planetary gear motor	DC24V	300	≤ ±10%	0-40℃, 80%RH
OEM-HYZ002			200		
OEM-HYZ003			100		
OEM-HYZ101	37 DC planetary gear motor	DC12V	300		
OEM-HYZ102			200		
OEM-HYZ103			100		

Quick Load Pump Head

AUD-I-HandyPump



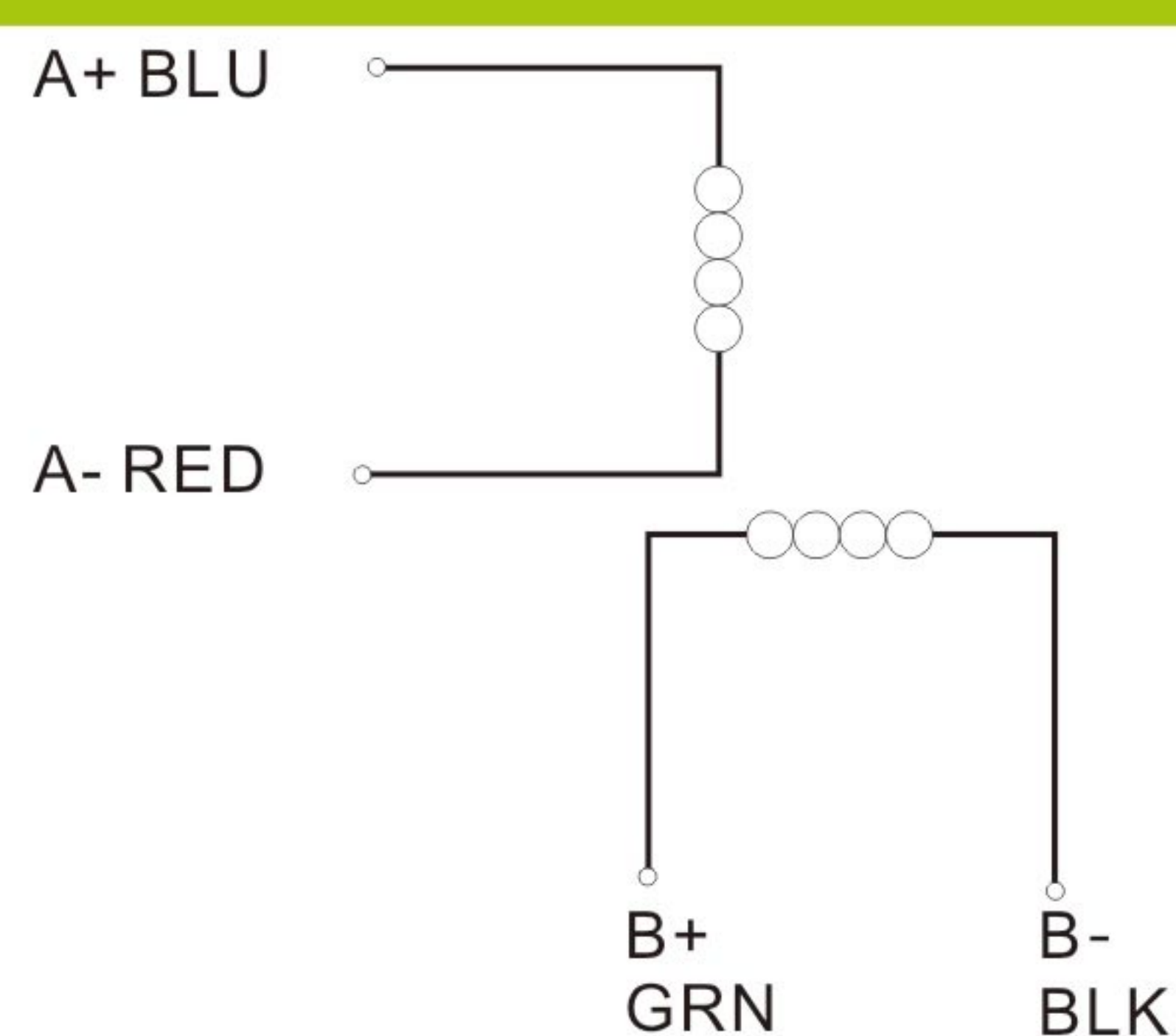
Product Introduction

AUD-I/HandyPump with compact and embedded design, can be used to automatically open and 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 the service 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

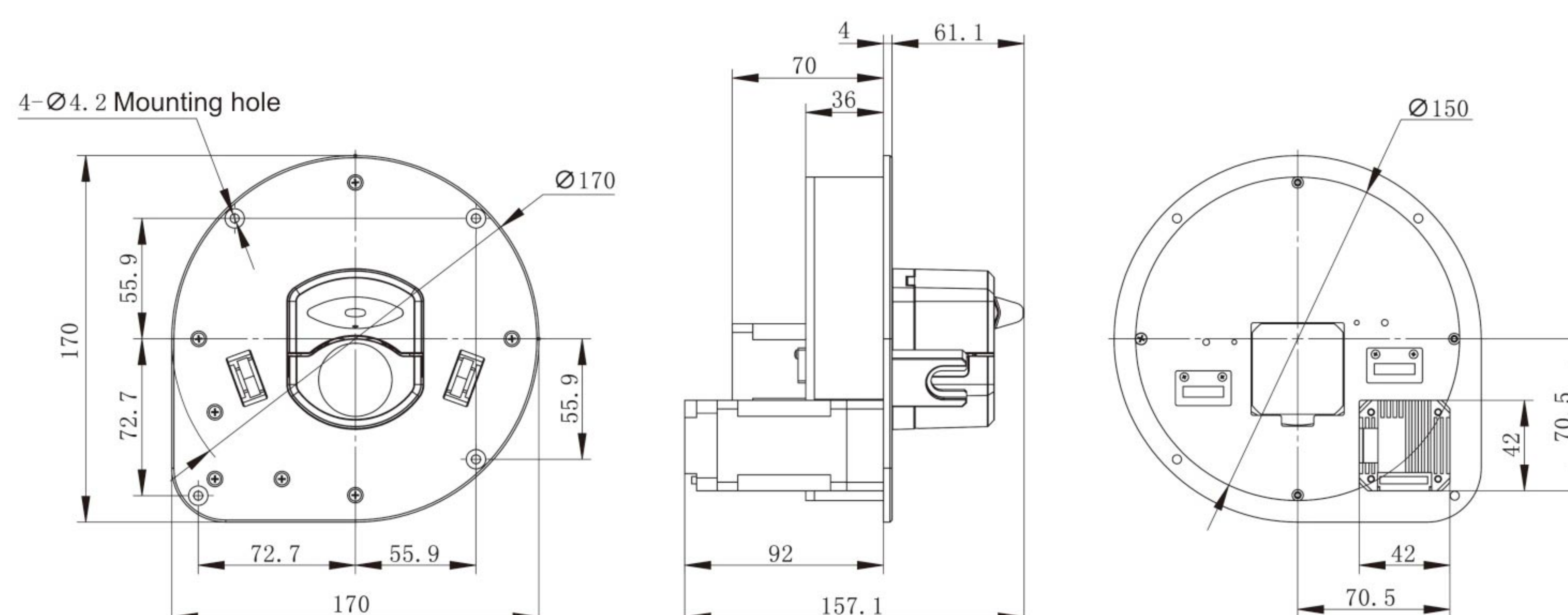
1. The upper block open automatically when the pump head stop running, extend the tubing service life.
2. The upper block close automatically before the pump start working.
3. Open and close upper block time: 5 seconds.
4. Can read open/close status, convenient to support equipment.

Motor Specification



Step angle	1.8°
Phase	2
Phase current	1.7A
Phase voltage	3.6V
Speed range	0.1 -300rpm
Power supply	DC 24V, ≥48W
Logic input voltage	DC5V
Working environment	0-40℃, 80%RH

Dimension Drawing (Unit: mm)



Quick Load Pump Head

YZ35-PPS,YZ35(Aluminum Alloy)



(3 rollers)

Model Number

| YZ35-PPS, YZ35(Aluminum Alloy)

26#



73#



82#

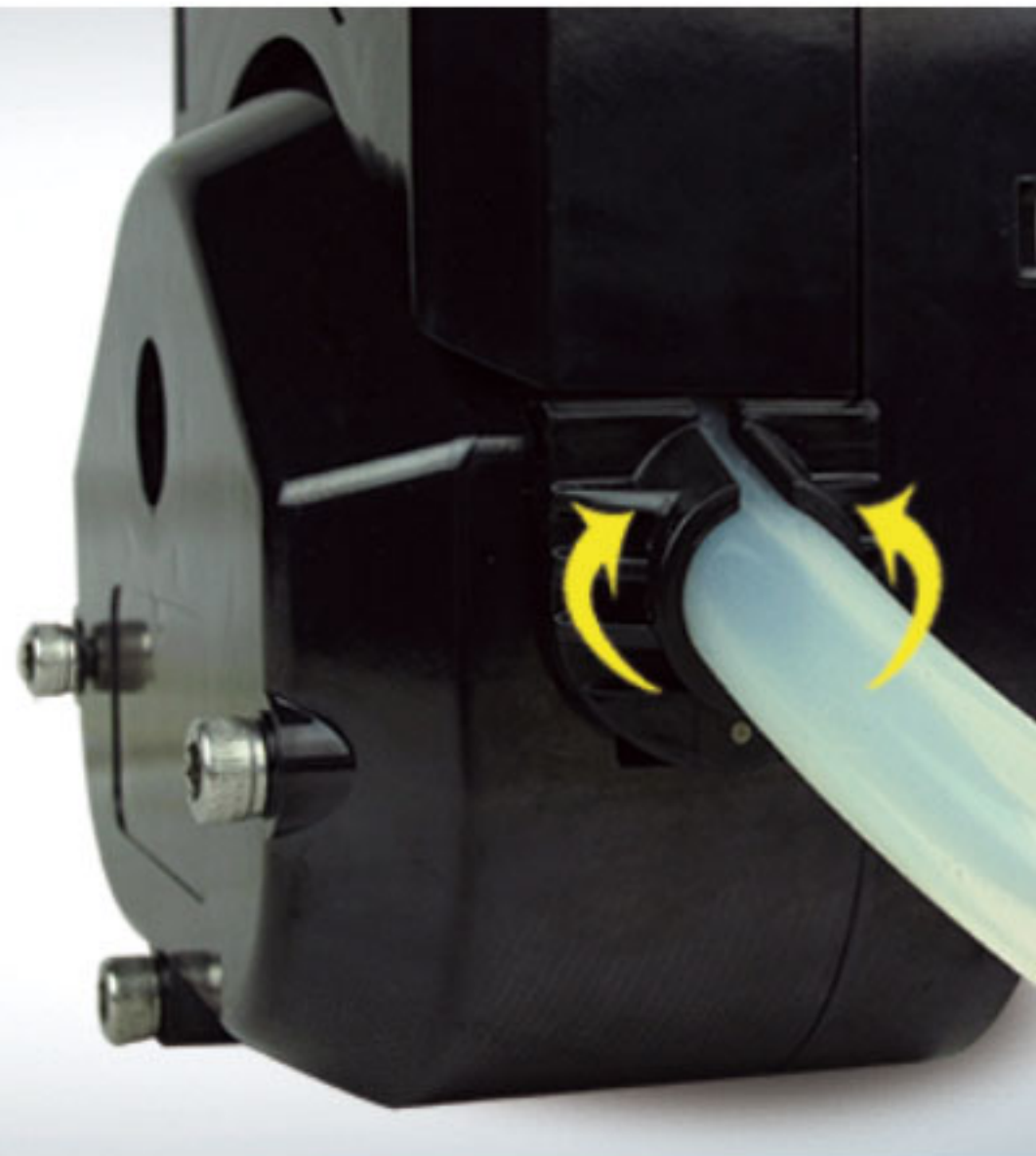


Product Introduction

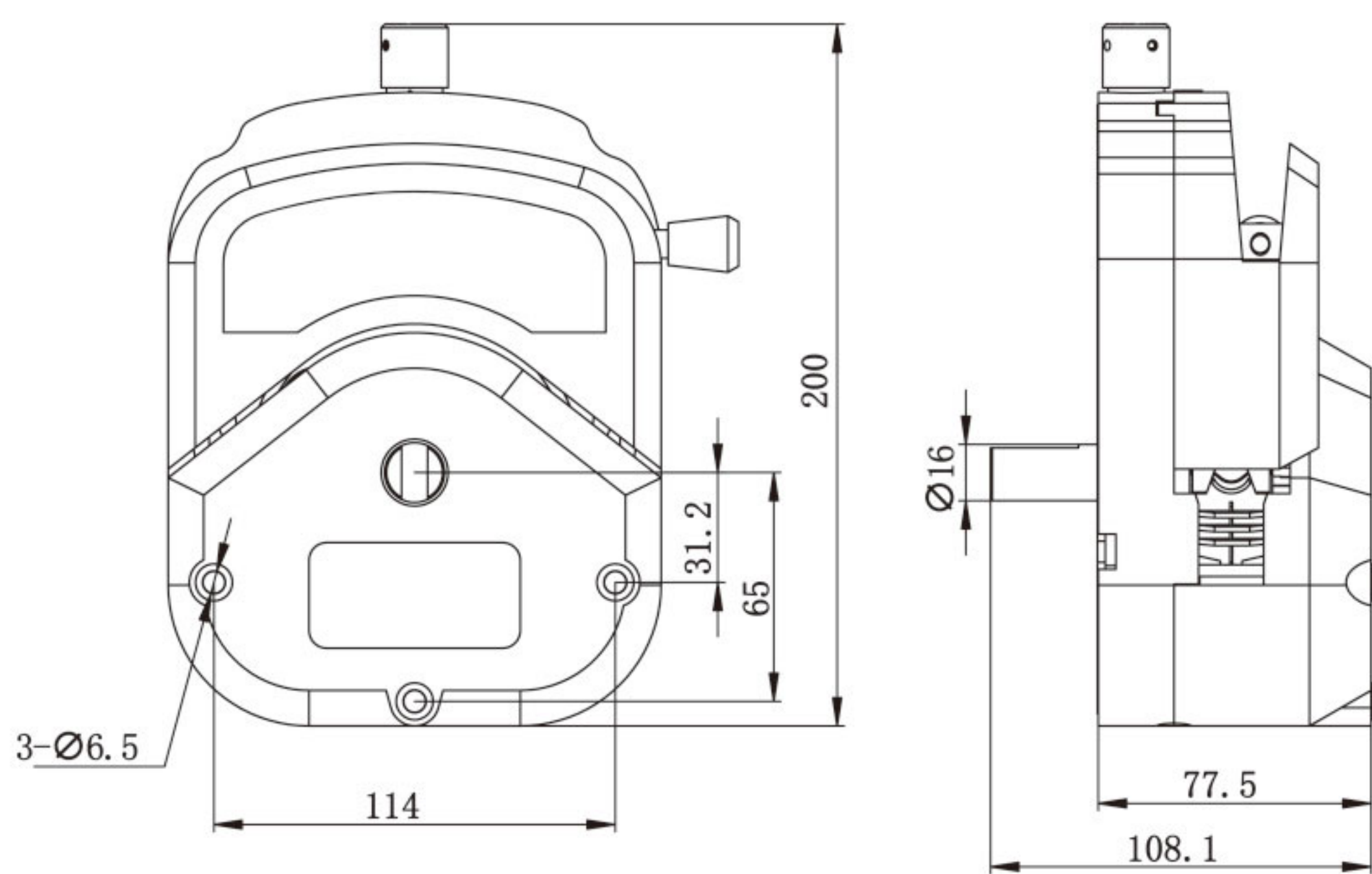
YZ35 pump head with aluminum alloy or PPS housing material. 304 stainless steel rollers assembly achieve high precision transferring liquid. Adaptive tubing cartridge structure makes it more easy to load the tubing.

YZ35 Pump Head Tubing Holder Advantages

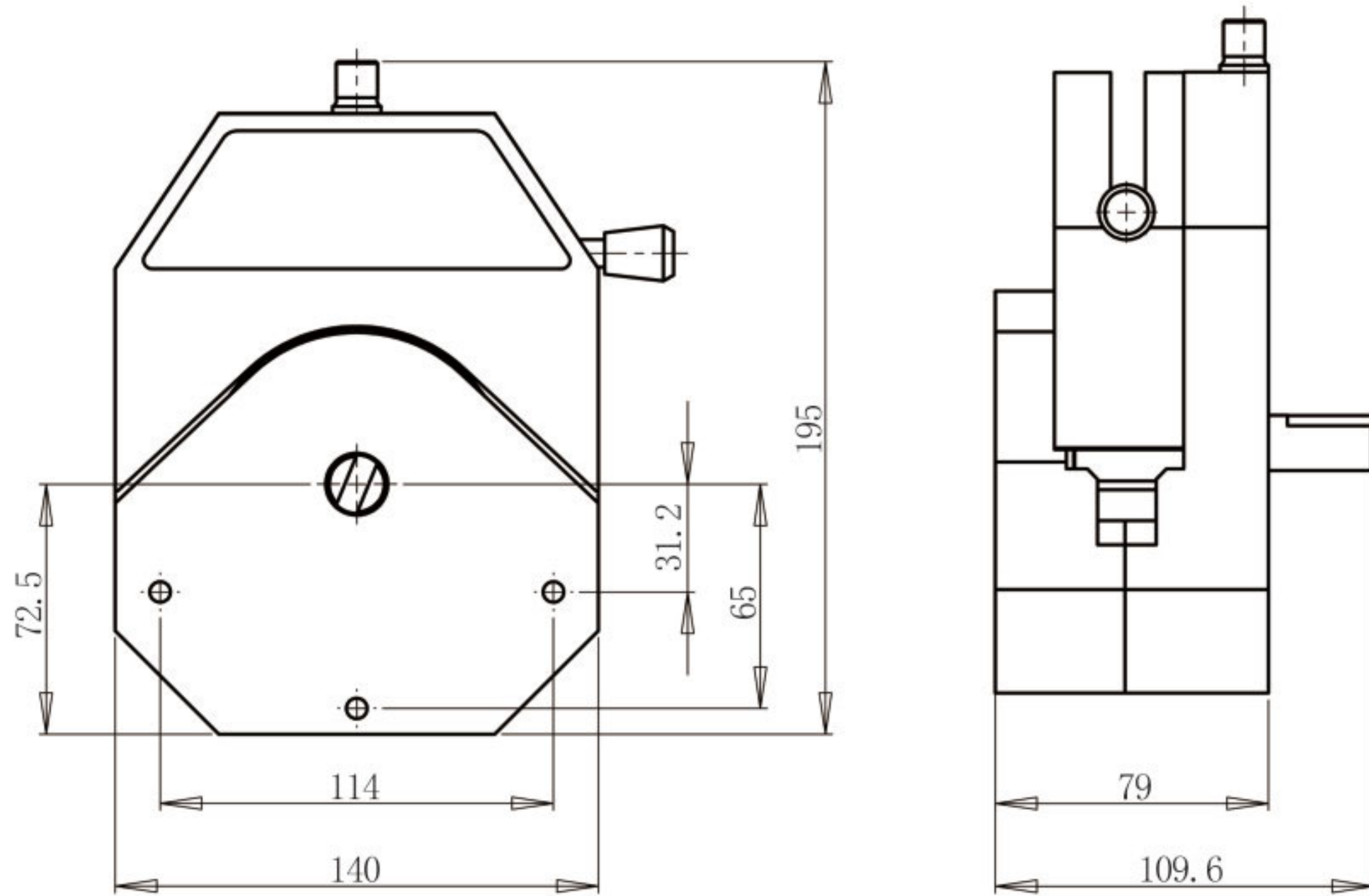
- 01/ Fix the tubing; lower the tubing shaking during working; **improve the stability and accuracy of flow rate.**
- 02/ Prevent the tubing wear, **extend the tubing lifetime.**



Dimension Drawing(Unit: mm)



YZ35-PPS



YZ35-Aluminum Alloy

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

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



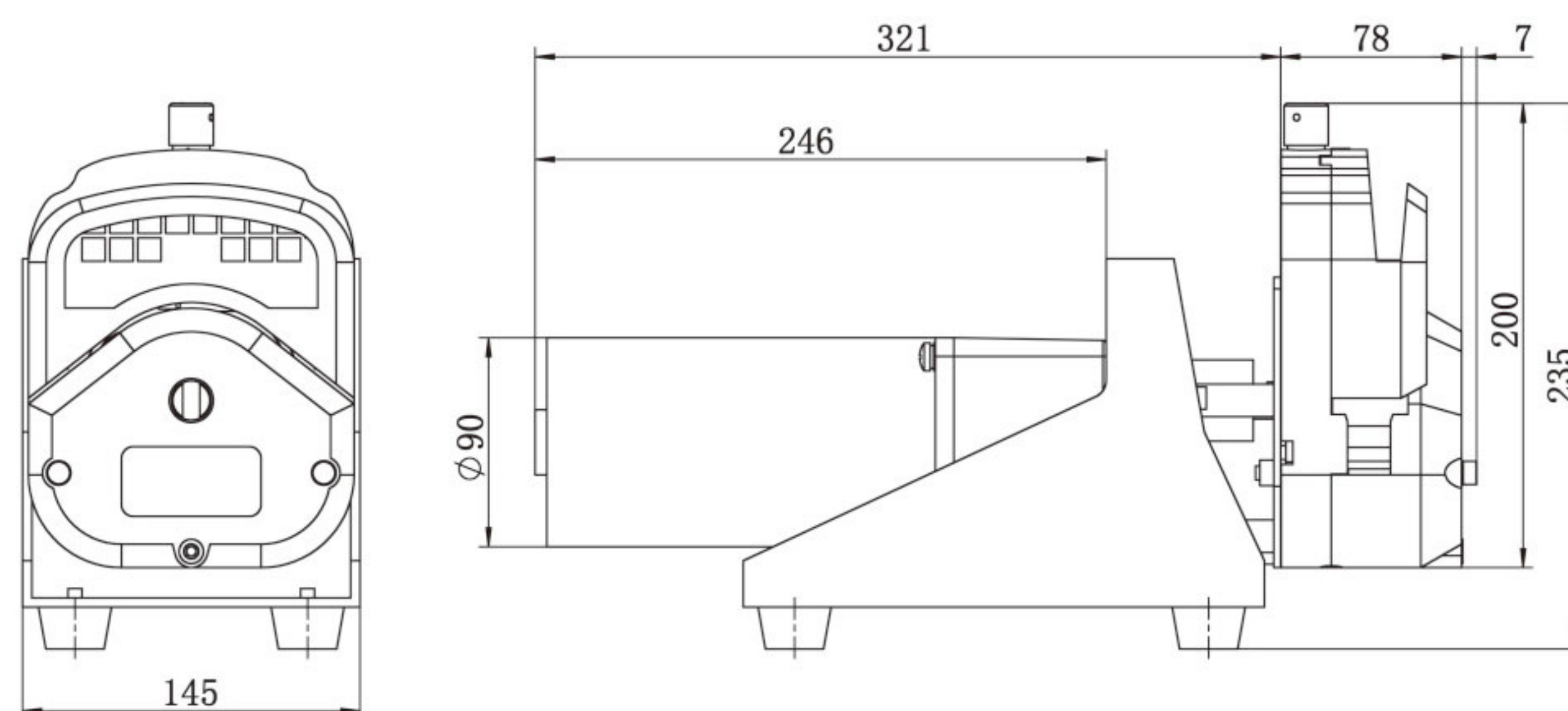
OEM Product

Quick Load Pump Head YZ35

OEM-Z501/YZ35



Dimension Drawing(Unit: mm)



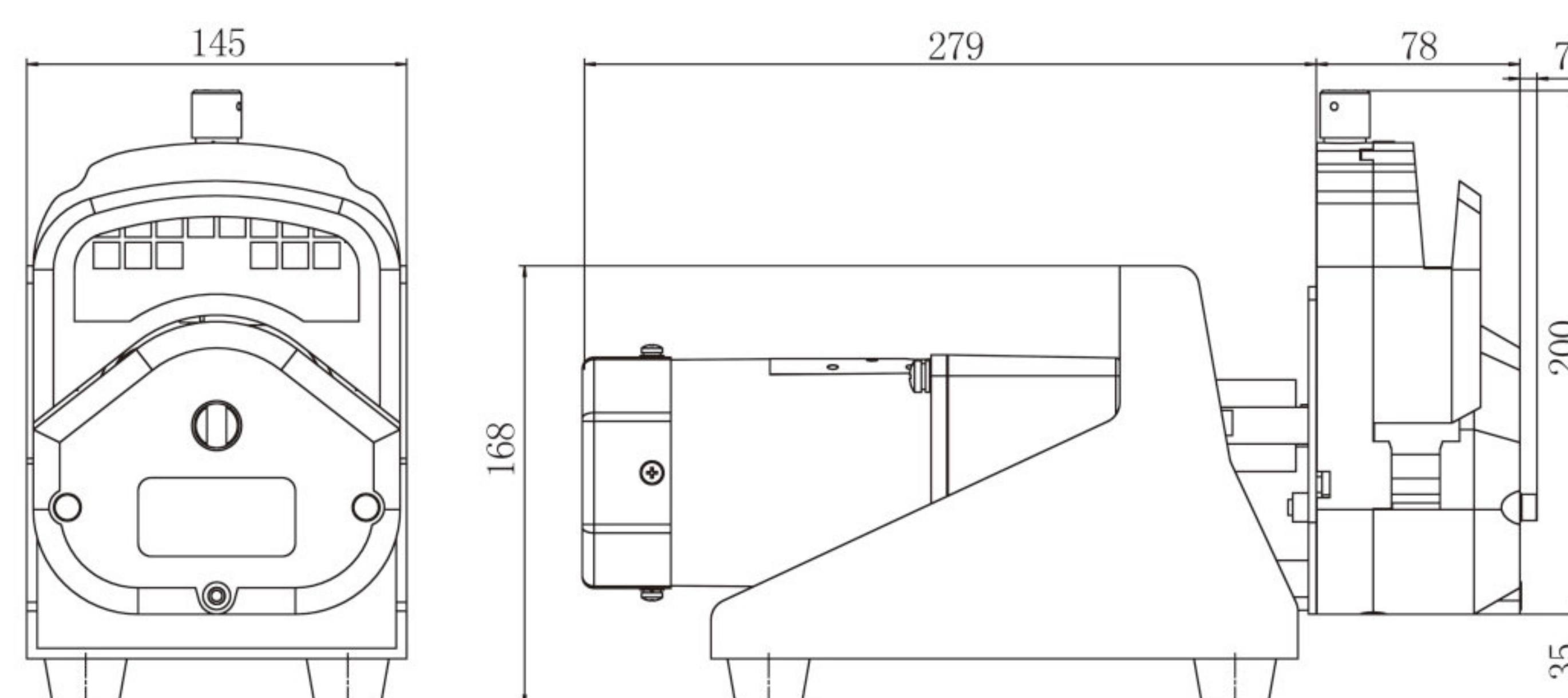
OEM-Z501 Technical Specifications

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

OEM-J401/YZ35



Dimension Drawing(Unit: mm)



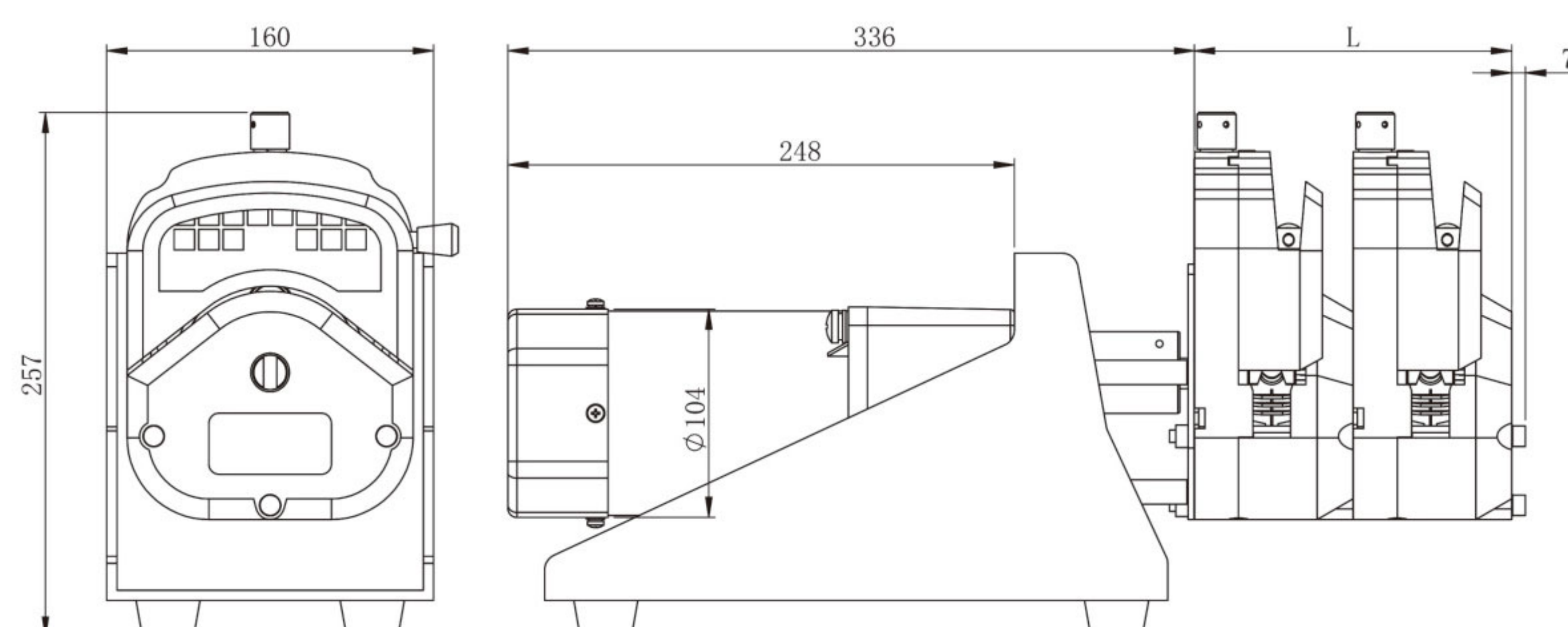
OEM-J401 Technical Specifications

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

OEM-JT501/YZ35



Dimension Drawing(Unit: mm)



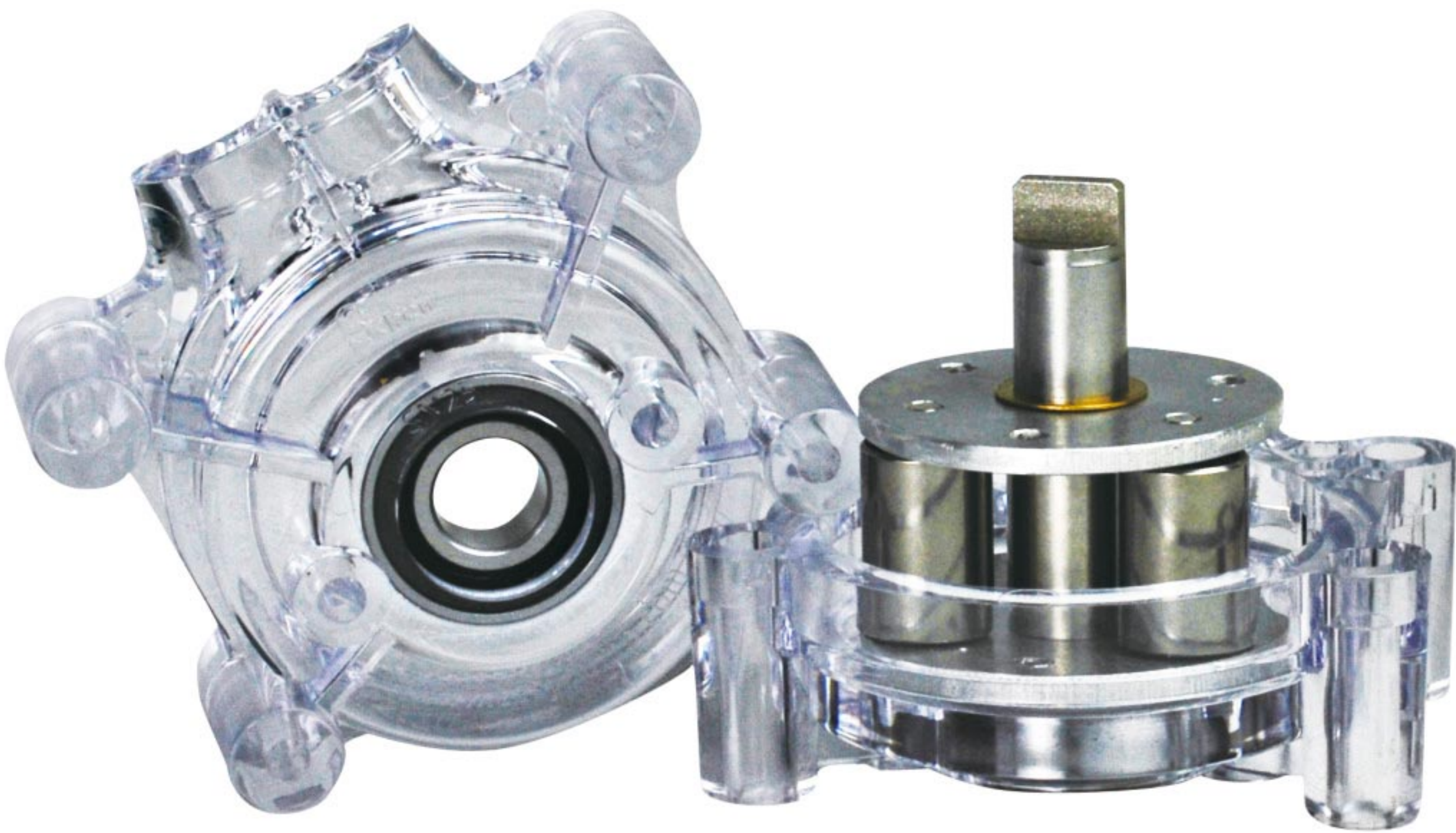
OEM-JT501 Technical Specifications

Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-JT501	AC speed motor	AC220V(standard), AC110V(optional)	45-450	$\leq \pm 10\%$	0-40℃, 80%RH



Standard Pump Head

SN25,SN15-14,SN15-16



(3 rollers)

Product Introduction

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

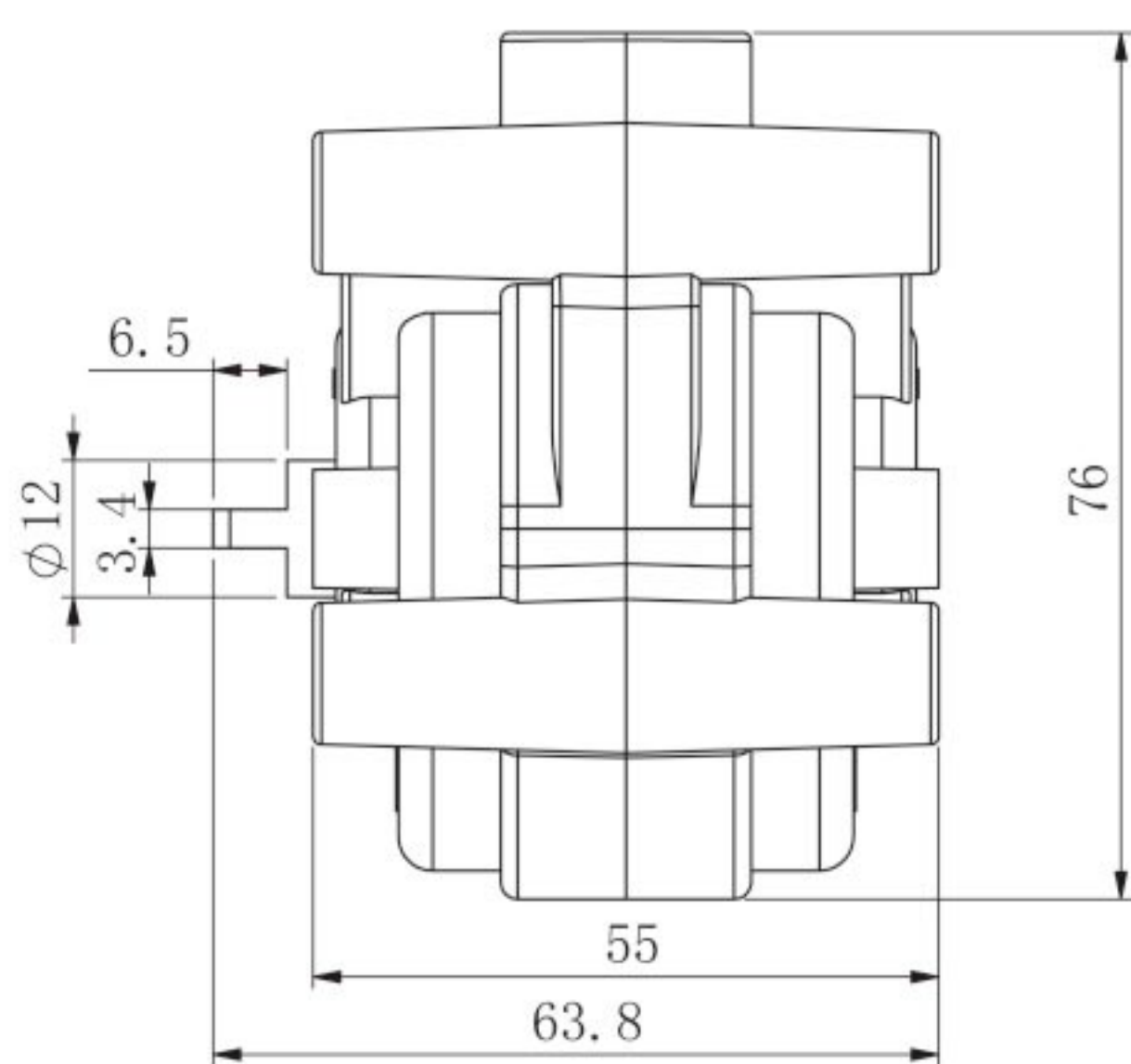
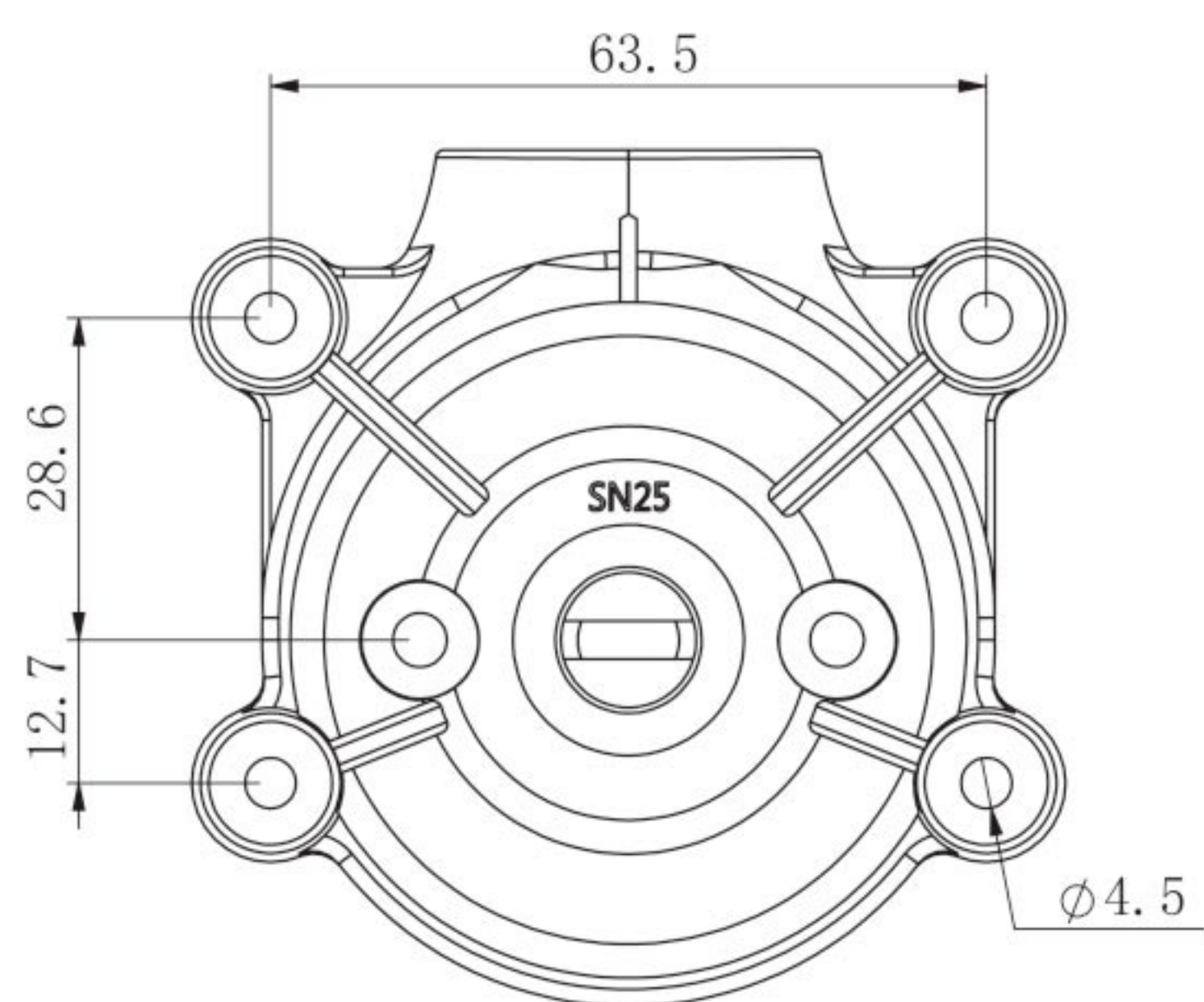
Model Number

| SN25, SN15-14, SN15-16

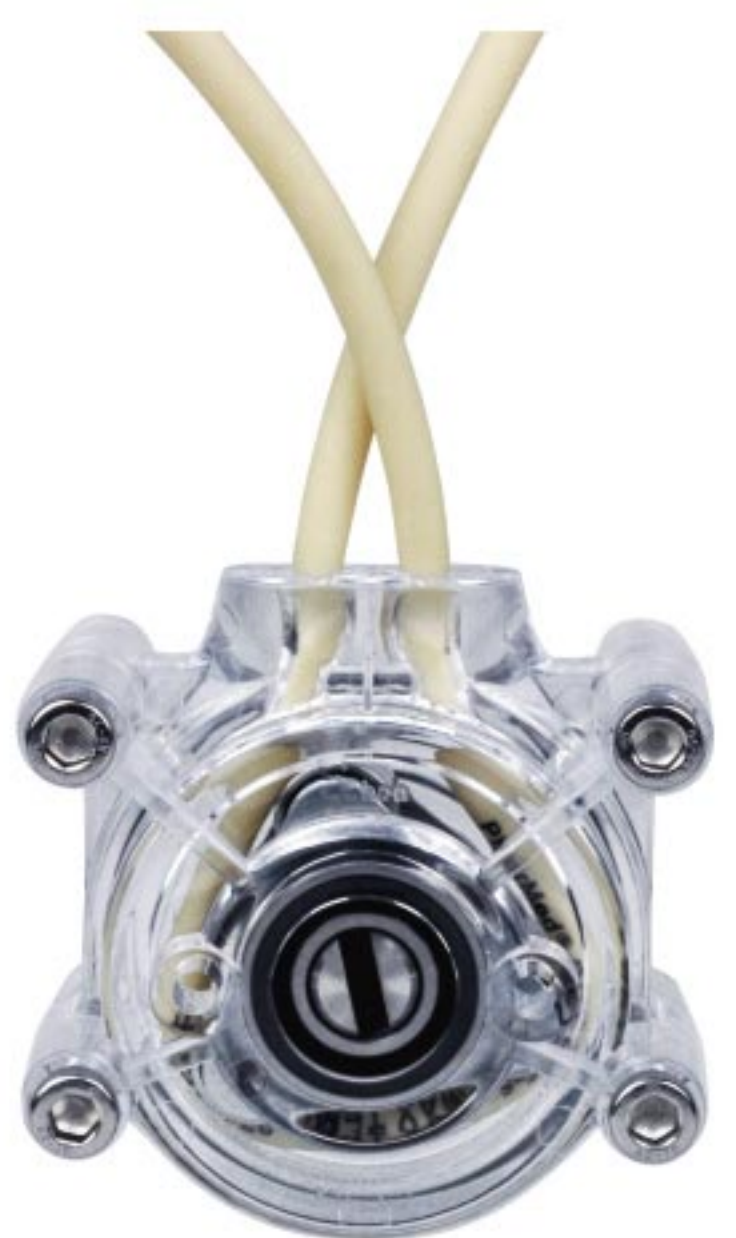
Typical Application

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

Dimension Drawing (Unit: mm)



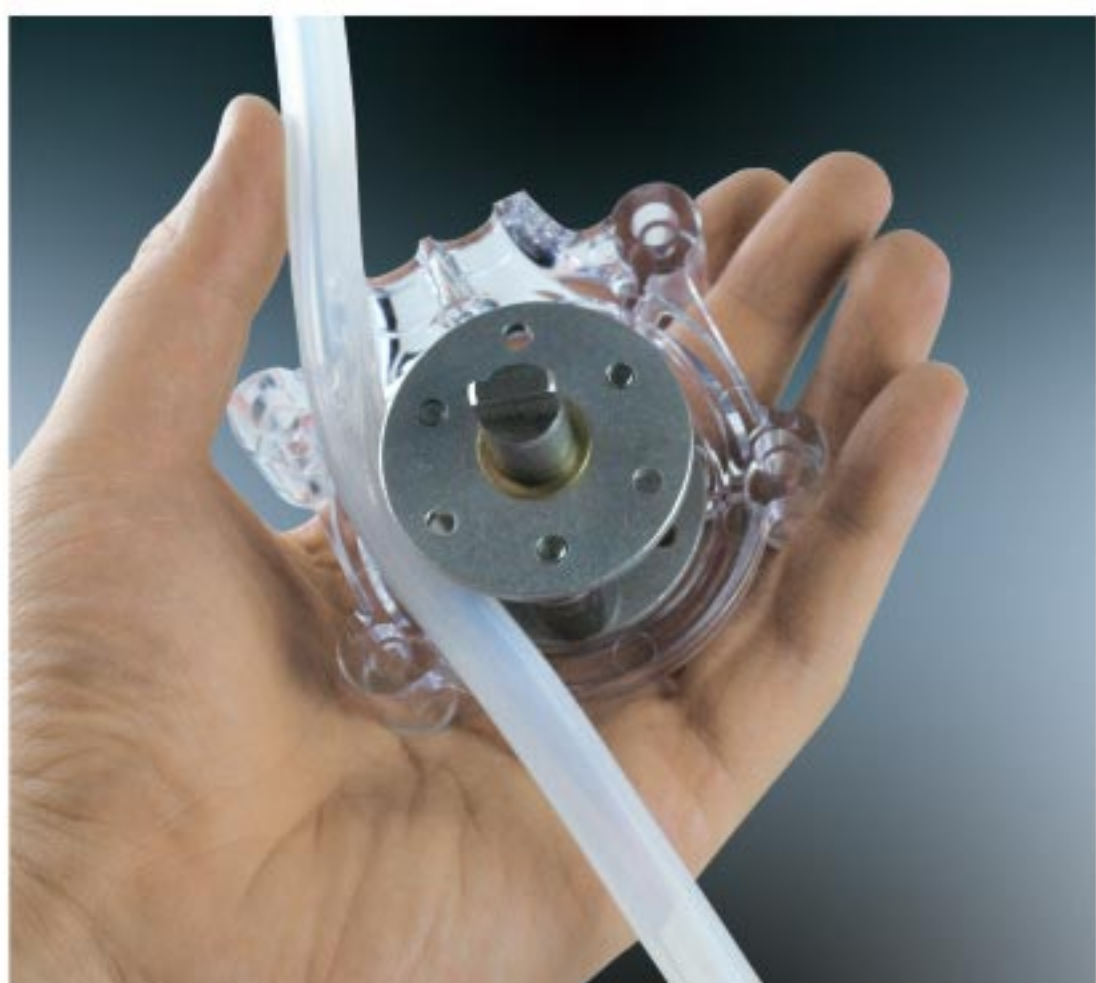
SN15-14



SN15-16

Tubing Installation Procedure

- A. Disassemble the pump head, and press the tubing on the rollers.
- B. Make the tubing go around the rollers one cycle, and merge it on the exit.
- C. Tighten the tubing aptly, and load the other half pump head body.



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

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



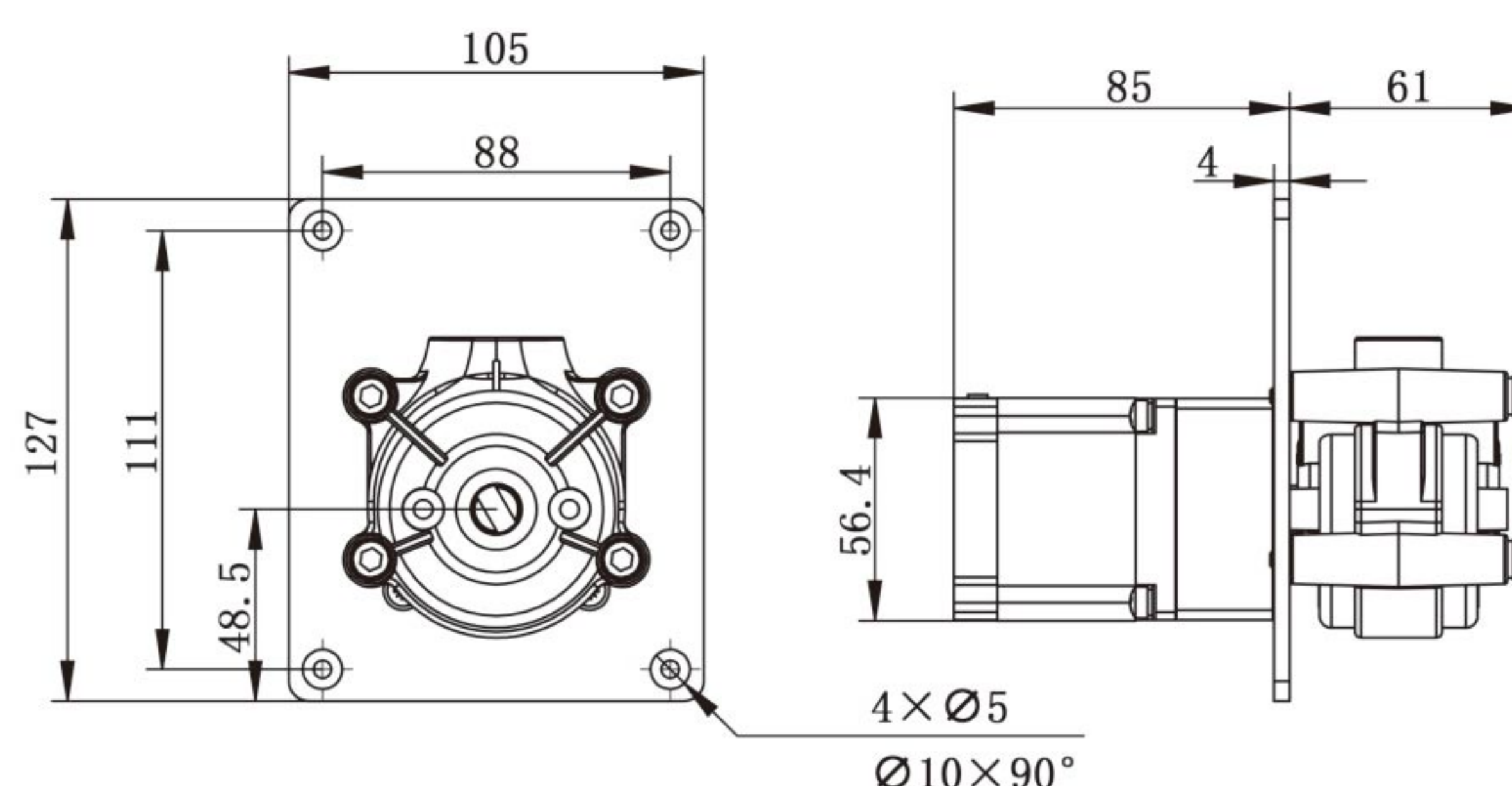
OEM Product

Standard Pump Head Series

OEM-B255/SN Series



Dimension Drawing(Unit: mm)

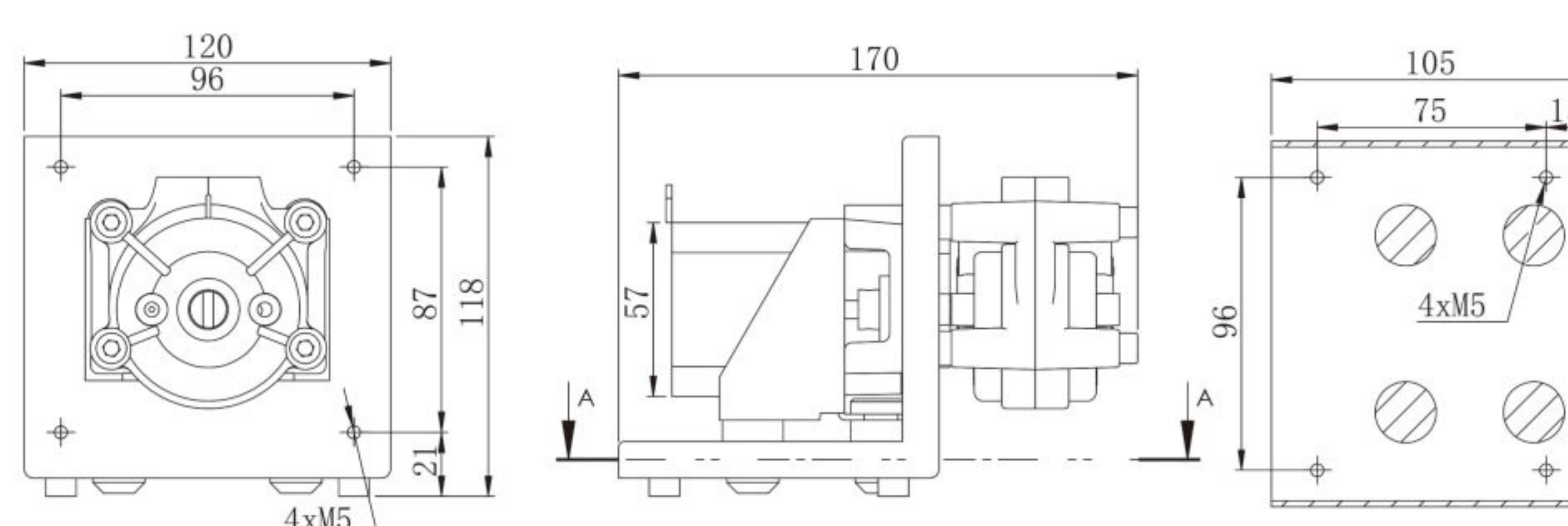


Model No.	OEM-B255
Speed range	0.1-600 rpm
Flow rate range	0.024-1500mL/min
Motor type	57 stepper motor
Motor phase number	2
Motor step angle	1.8°
Motor phase voltage	2.7V
Motor phase current	3.0A
Working environment	0-40°C, 80%RH

OEM-B19/SN Series

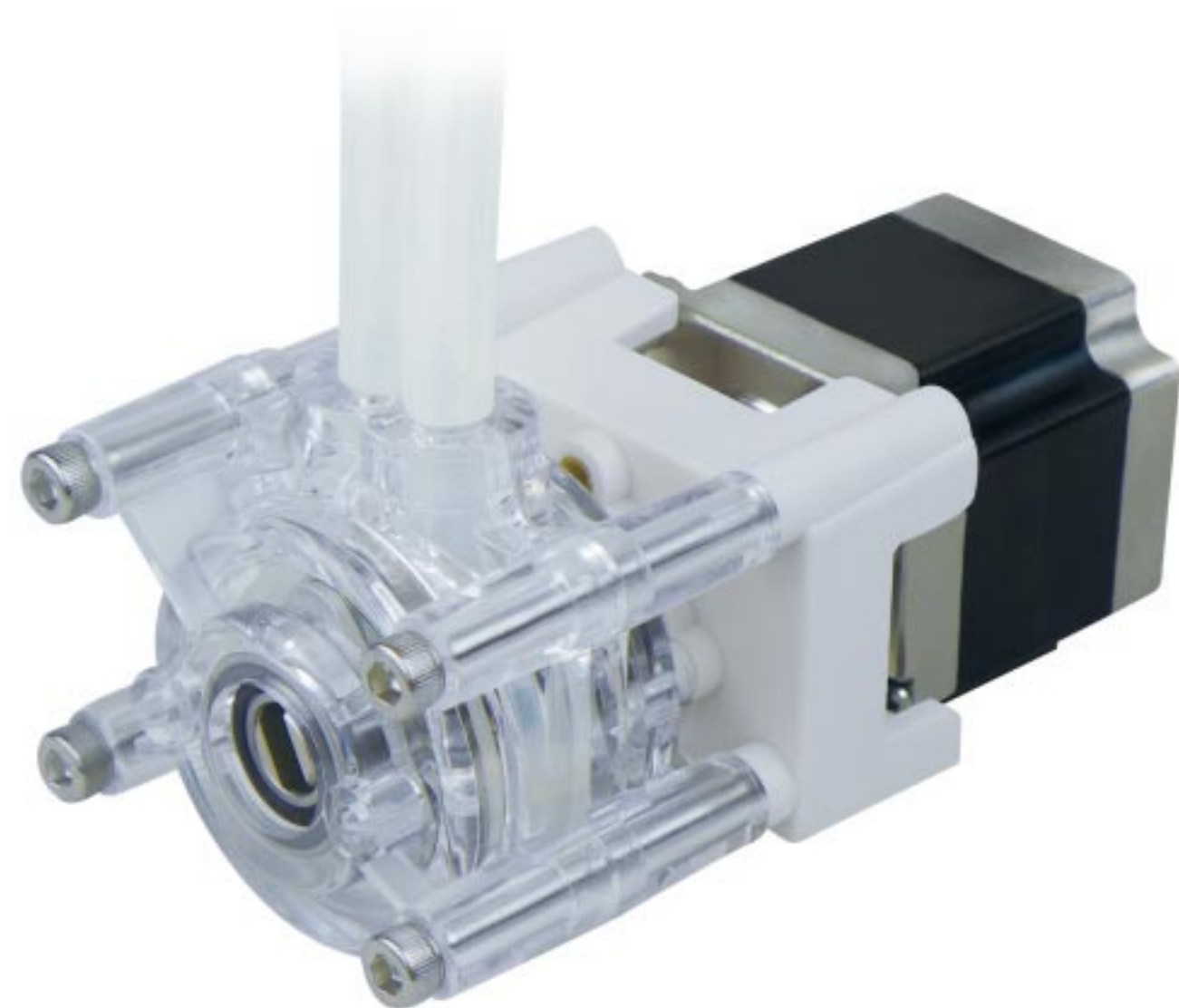


Dimension Drawing(Unit: mm)

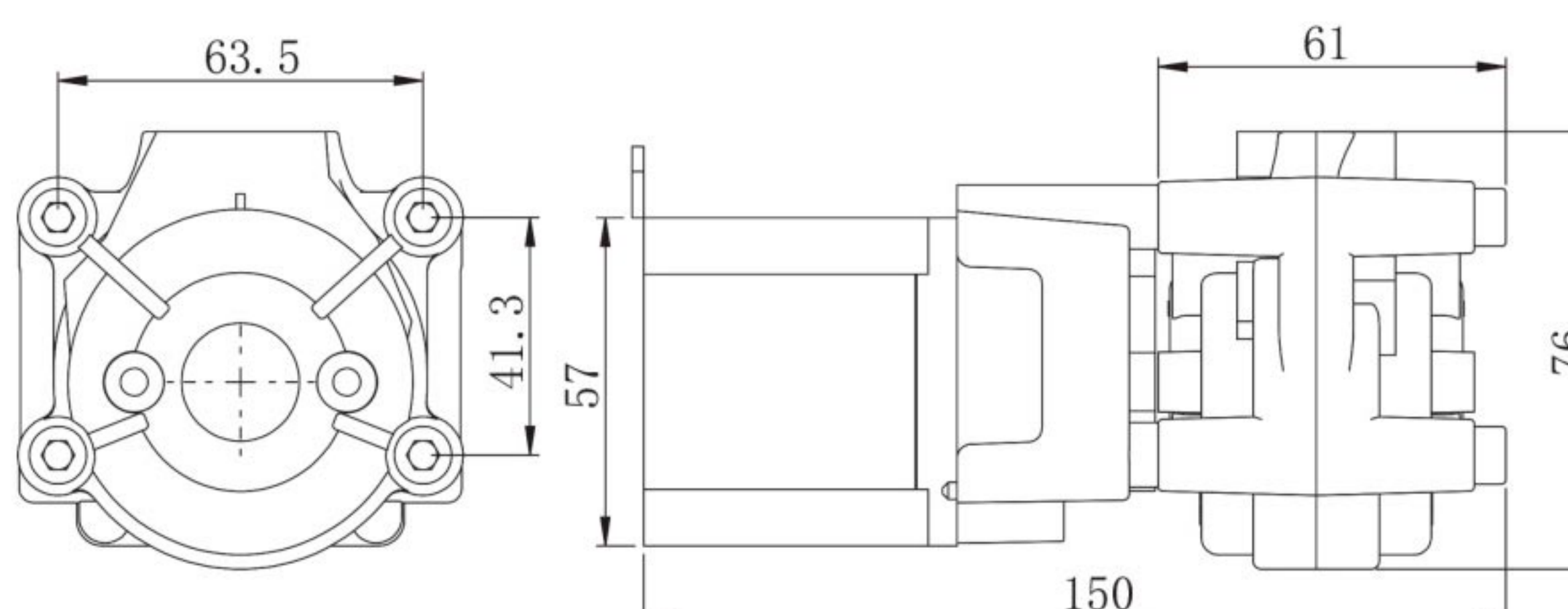


Model No.	OEM-B19
Speed range	0.1-350 rpm
Flow rate range	0.024-875mL/min
Motor type	57 stepper motor
Motor phase number	2
Motor step angle	1.8°
Motor phase voltage	3.3V
Motor phase current	3.0A
Working environment	0-40°C, 80%RH

OEM-B11/SN Series

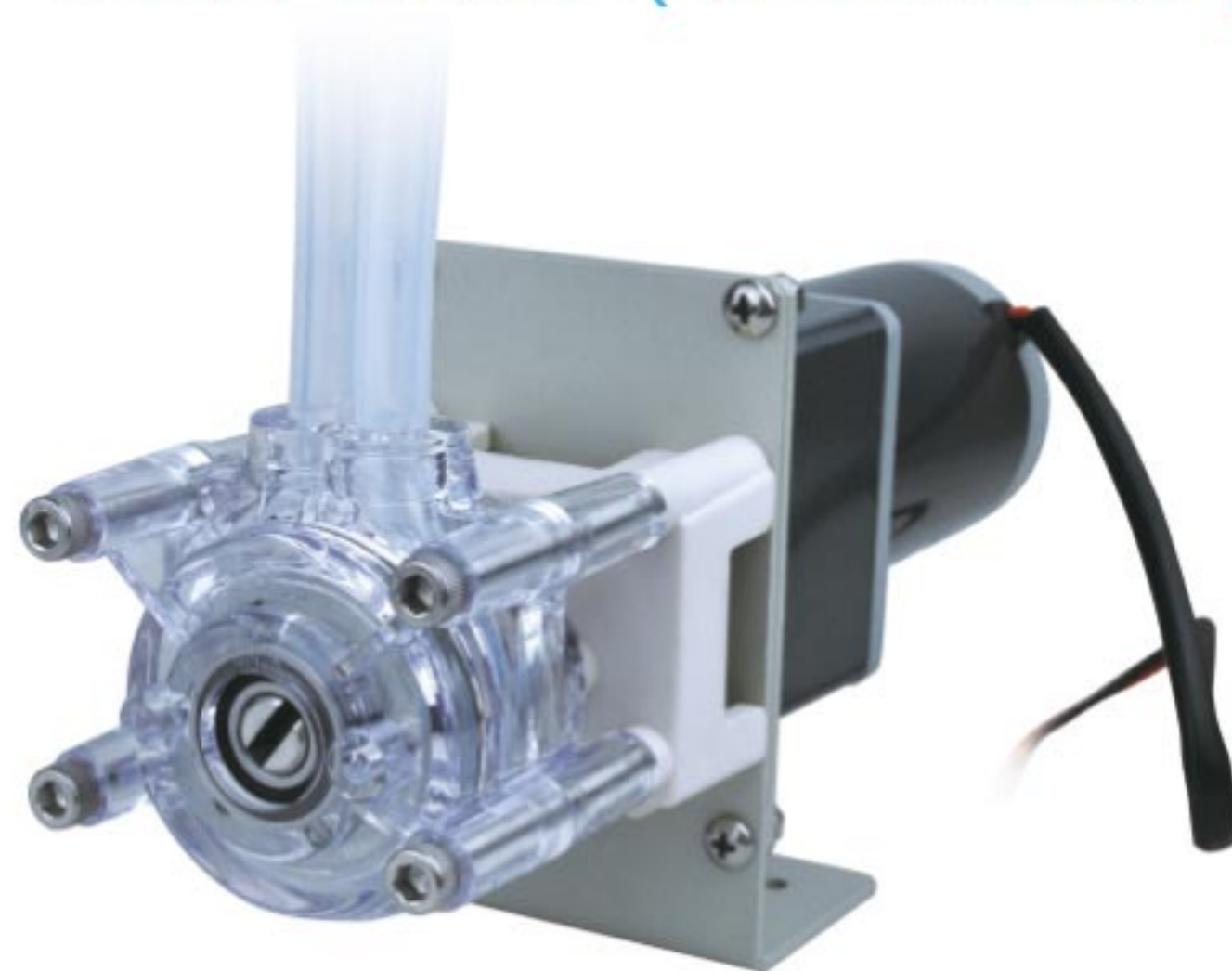


Dimension Drawing(Unit: mm)

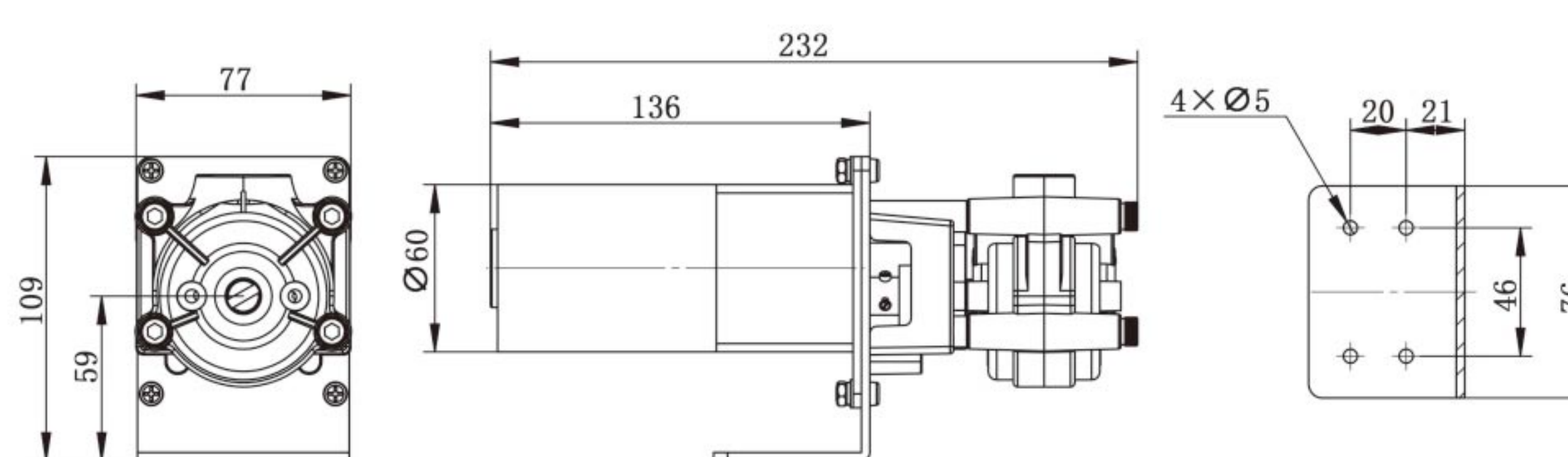


Model No.	OEM-B11
Speed range	0.1-350 rpm
Flow rate range	0.024-875mL/min
Motor type	57 stepper motor
Motor phase number	2
Motor step angle	1.8°
Motor phase voltage	3.3V
Motor phase current	3.0A
Working environment	0-40°C, 80%RH

OEM-Z109 (DC motor) /SN Series



Dimension Drawing(Unit: mm)

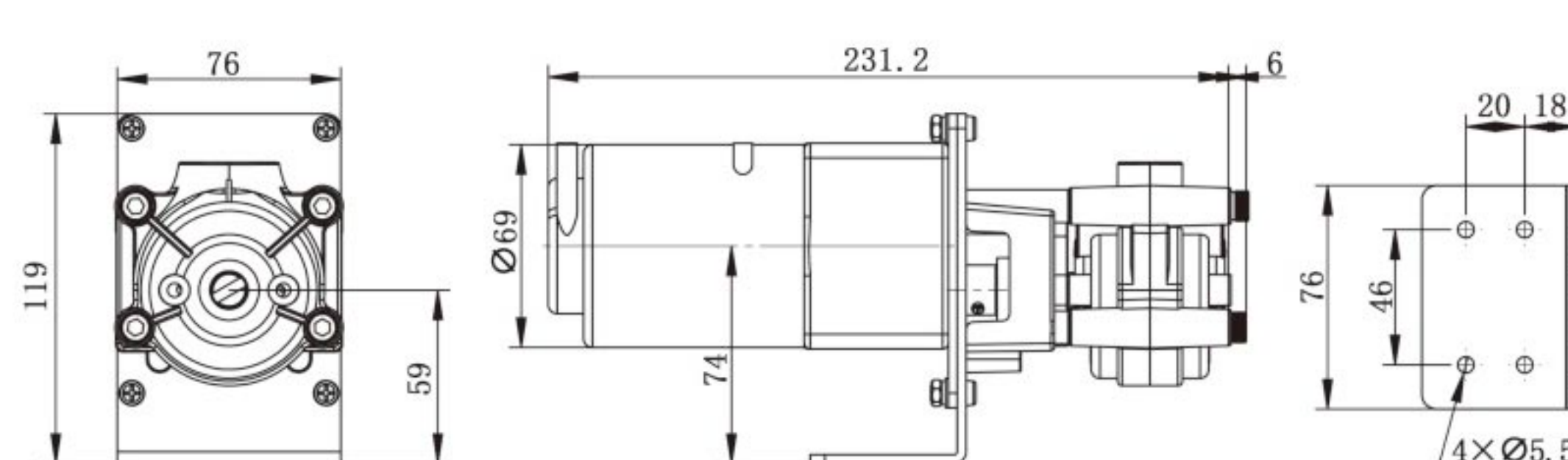


Model No.	OEM-Z109
Mix. flow rate	1500mL/min
Motor type	DC geared motor
Voltage	DC12V
Speed	600rpm
Speed error	≤ ±10%
Working environment	0-40°C, 80%RH

OEM-JT03 (AC motor) /SN Series



Dimension Drawing(Unit: mm)



Model No.	OEM-JT03
Flow rate	7.2-750mL/min
Motor type	AC speed adjustable motor
Voltage	AC220V(standard) DC110V(optional)
Speed	30-300rpm
Speed error	≤ ±10%
Working environment	0-40°C, 80%RH



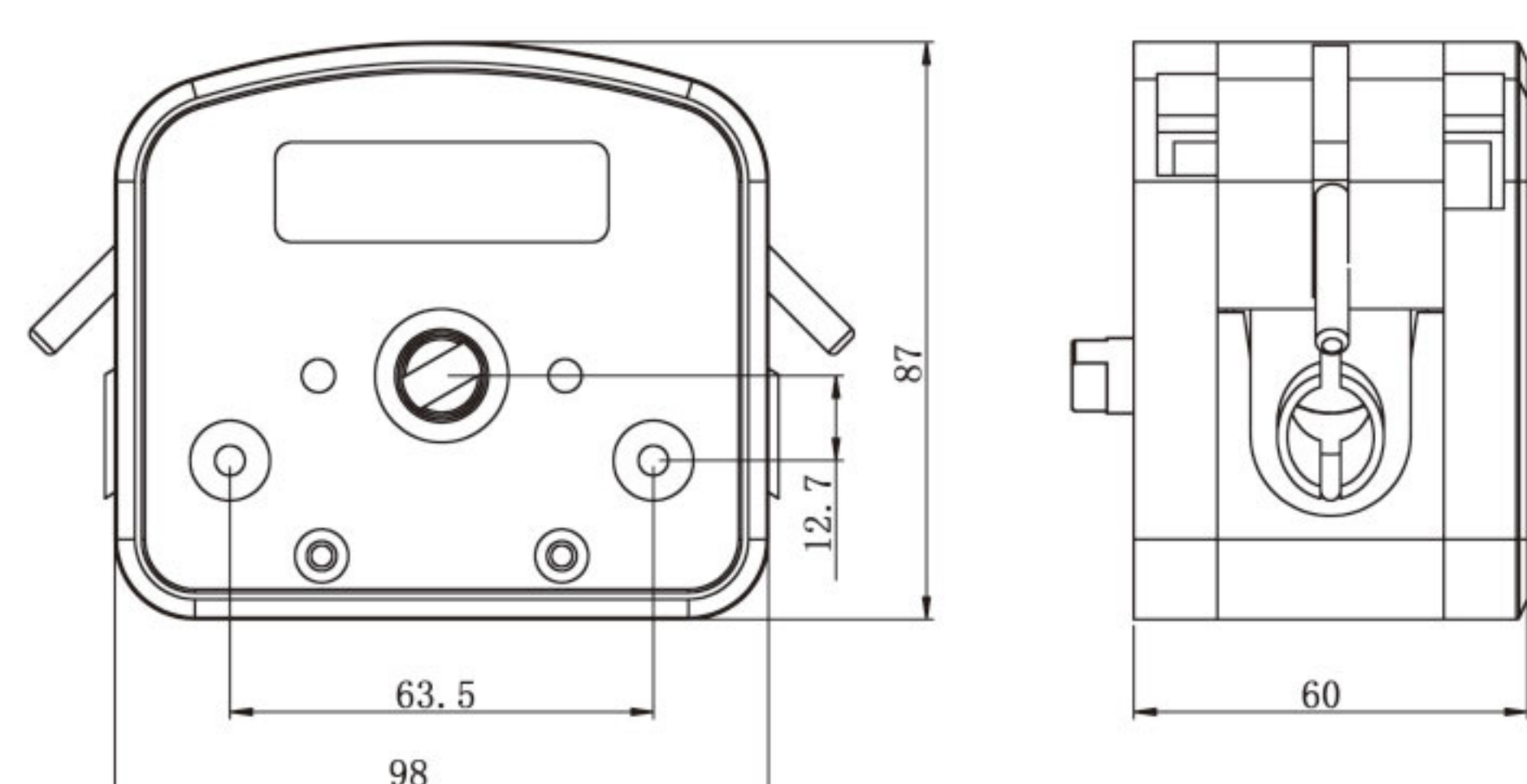
Fast Load Pump Head

DZ25-3L,DZ25-6L

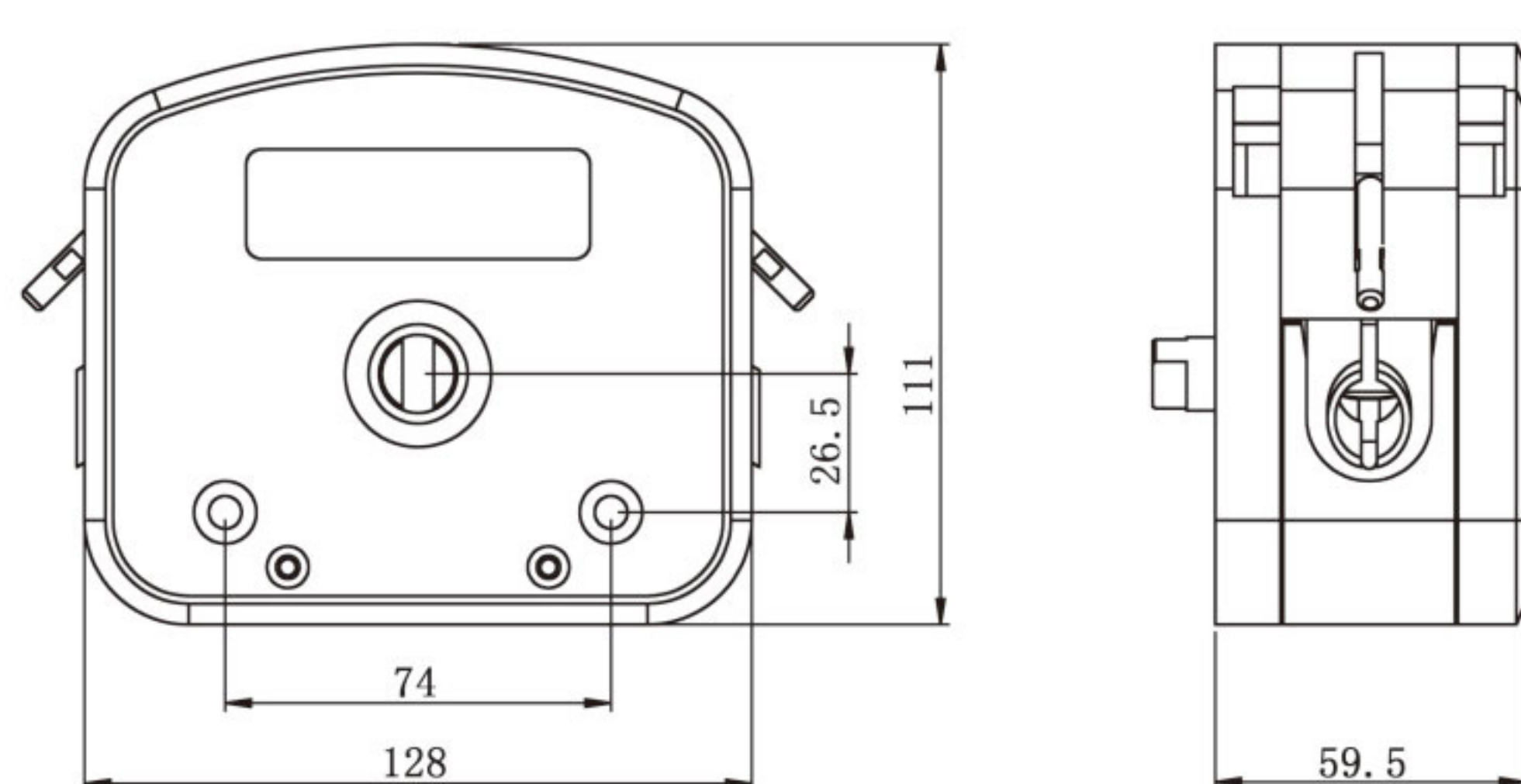


(3 rollers)

Dimension Drawing(Unit: mm)



DZ25-3L Dimension



DZ25-6L 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

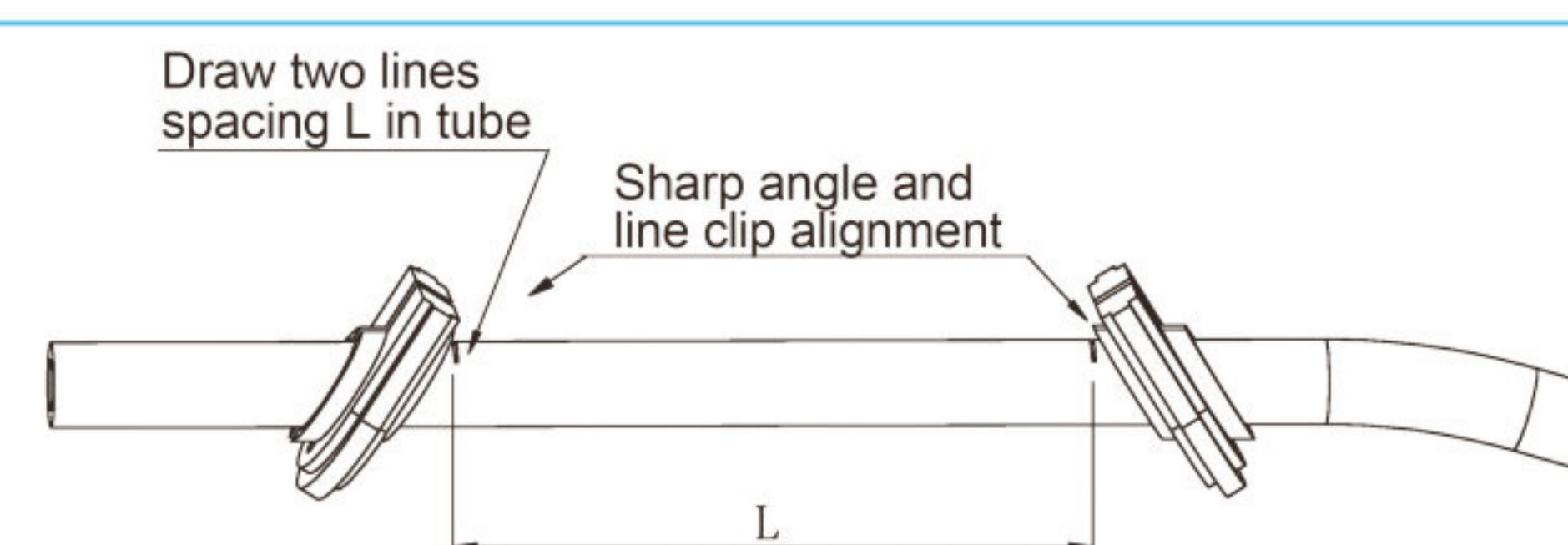
1.Lift both side levers, take off the upper block.



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



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



Tubing Clamp

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

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

Technical Specifications

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

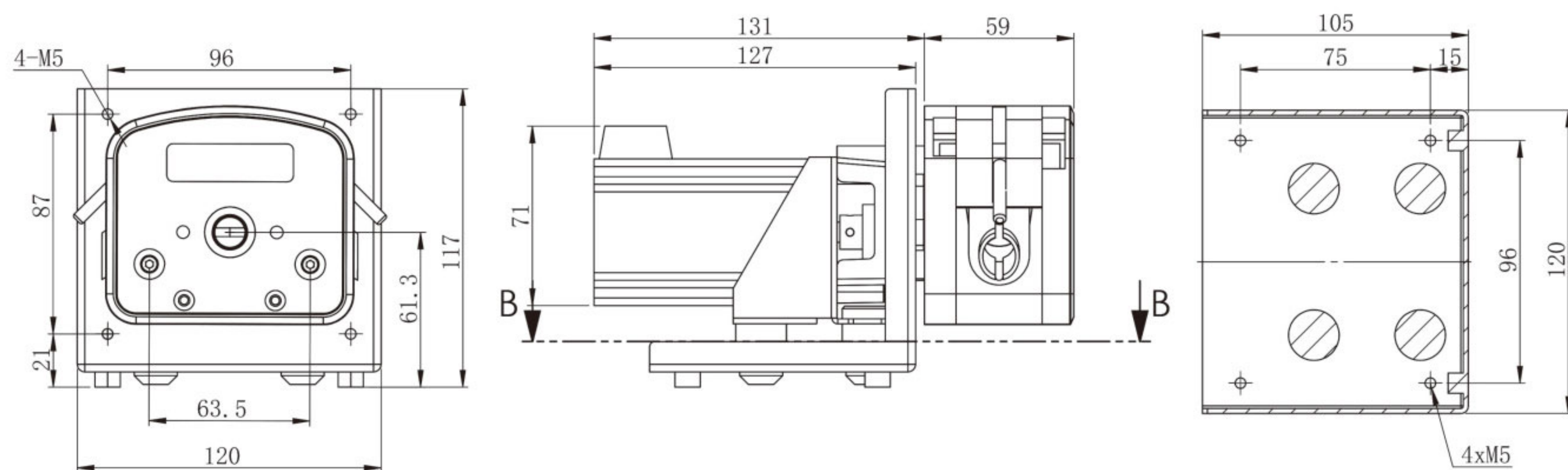


OEM Product

Fast Load Pump Head DZ25-3L(PPS)

OEM-B501/DZ25-3L

Dimension Drawing(Unit: mm)

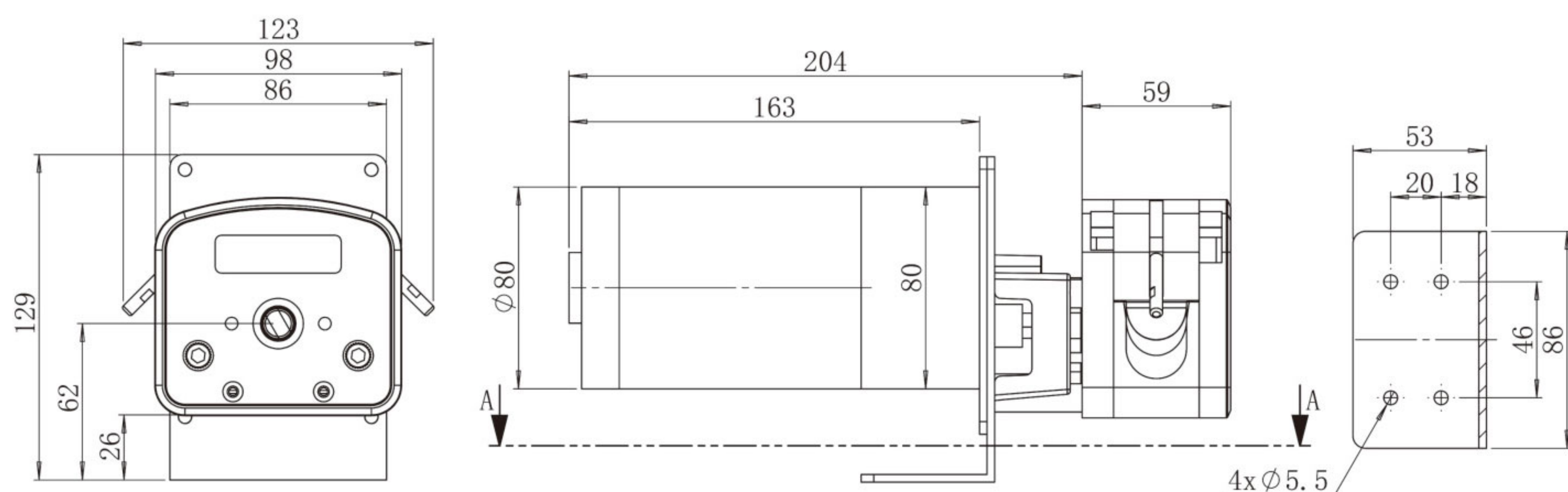


OEM-B501 Technical Specifications

Speed range	0.1-600 rpm	External control start and stop	Switch signal (default 5V)
Speed control	Digital knob(Optional)	External control speed	0-5V, 4-20mA(standard), 0-10V(optional)
Display	OLED(Optional)	Communication interface	RS485(Modbus protocol, RTU mode)
Control method	Toggle switch control start and stop, direction (optional)	Motor type	57 Closed-loop stepper motor
		Voltage	DC24V/1A(mainboard) DC36V/3A(driver)

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

Dimension Drawing(Unit: mm)

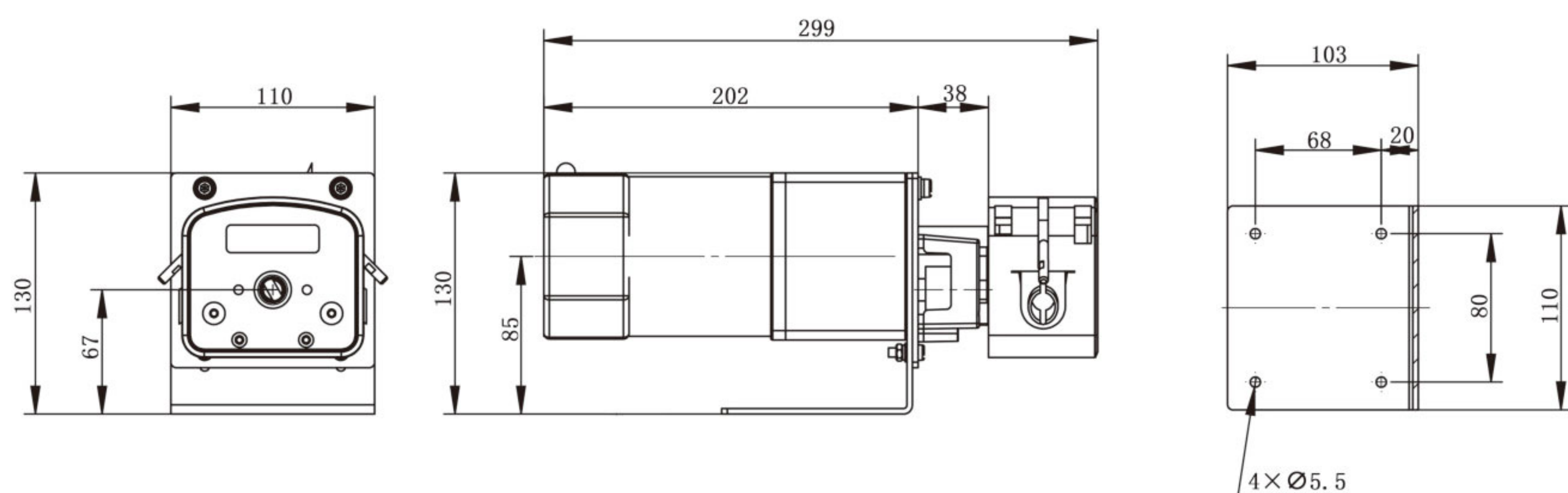


OEM-Z402 Technical Specifications

Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-Z402	DC geared motor	DC24V	600	$\leq \pm 10\%$	0-40°C, 80%RH

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

Dimension Drawing(Unit: mm)



OEM-JT12 Technical Specifications

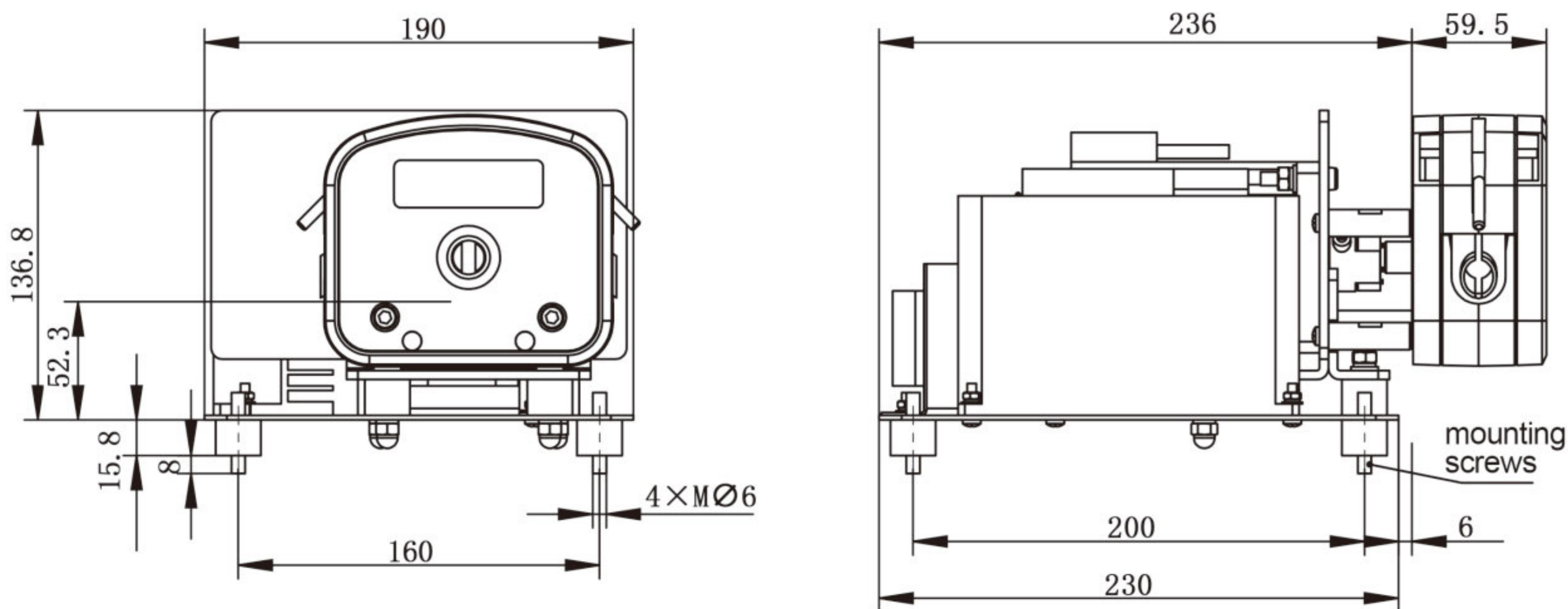
Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-JT12	AC speed motor	AC220V(standard), AC110V(optional)	43-430	$\leq \pm 10\%$	0-40°C, 80%RH



OEM-B504/DZ25-6L



Dimension Drawing(Unit: mm)

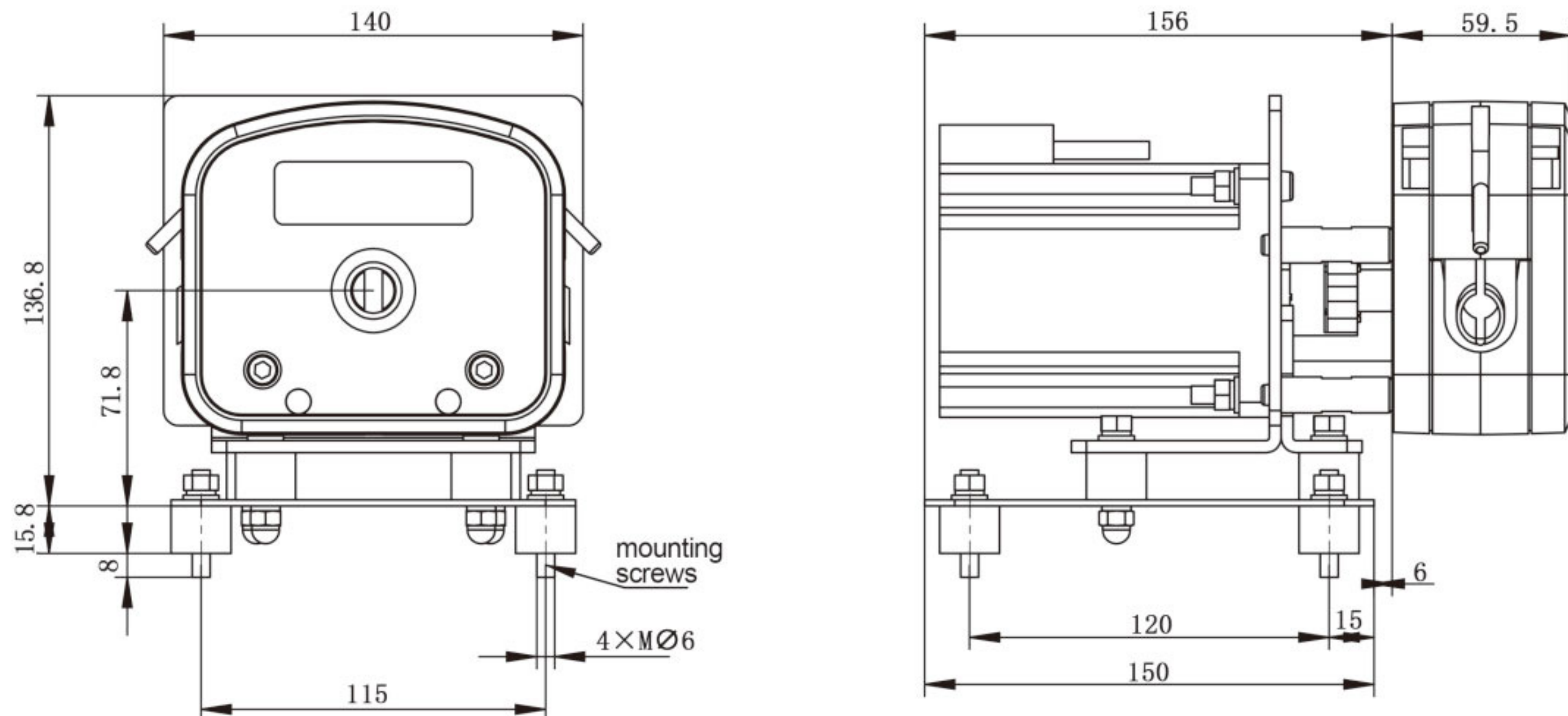


OEM-B504 Technical Specifications			
Speed range	0.1-600 rpm	Logic input voltage	5V
Flow rate range	0.3-6000mL/min	Motor type	Closed-loop stepper motor
Speed control	External input pulse frequency speed control	Power supply	AC220V(standard), AC110V(optional)
Subdivision settings	200-51200(Pulse response frequency maximum 200KHZ)	Working environment	0-40℃, 80%RH

OEM-B508/DZ25-6L



Dimension Drawing(Unit: mm)

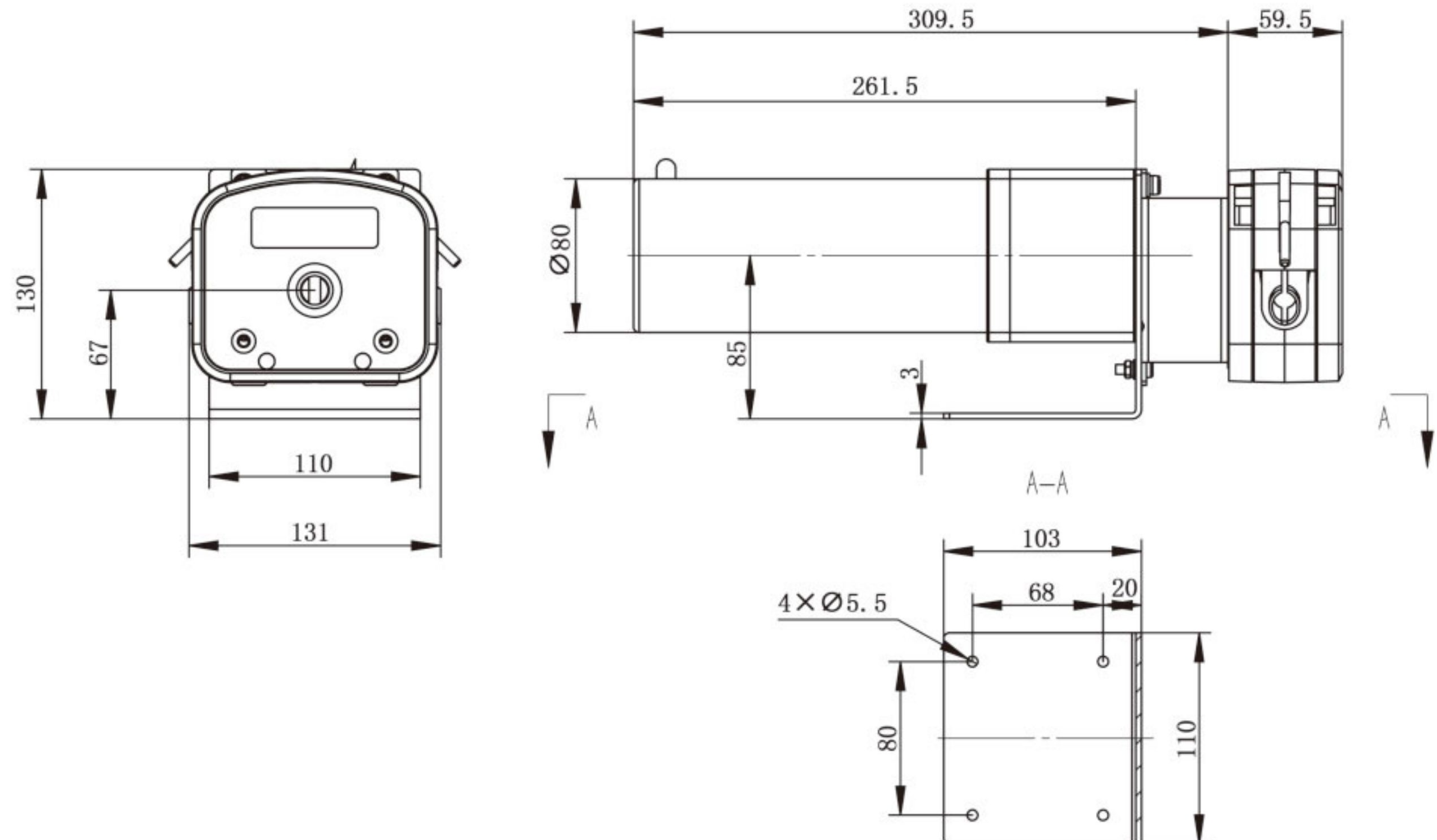


OEM-B508 Technical Specifications			
Speed range	0.1-600 rpm	Motor phase voltage	2V
Flow rate range	0.3-6000mL/min	Motor phase current	4.0A
Motor type	Closed-loop stepper motor	Encoder power	5V
Motor phase number	2	Working environment	0-40℃, 80%RH
Motor step angle	1.8°		

OEM-Z506/DZ25-6L



Dimension Drawing(Unit: mm)



OEM-Z506 Technical Specifications					
Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-Z506	DC geared motor	AC220V(standard), AC110V(optional)	350	≤ ±10%	0-40℃, 80%RH



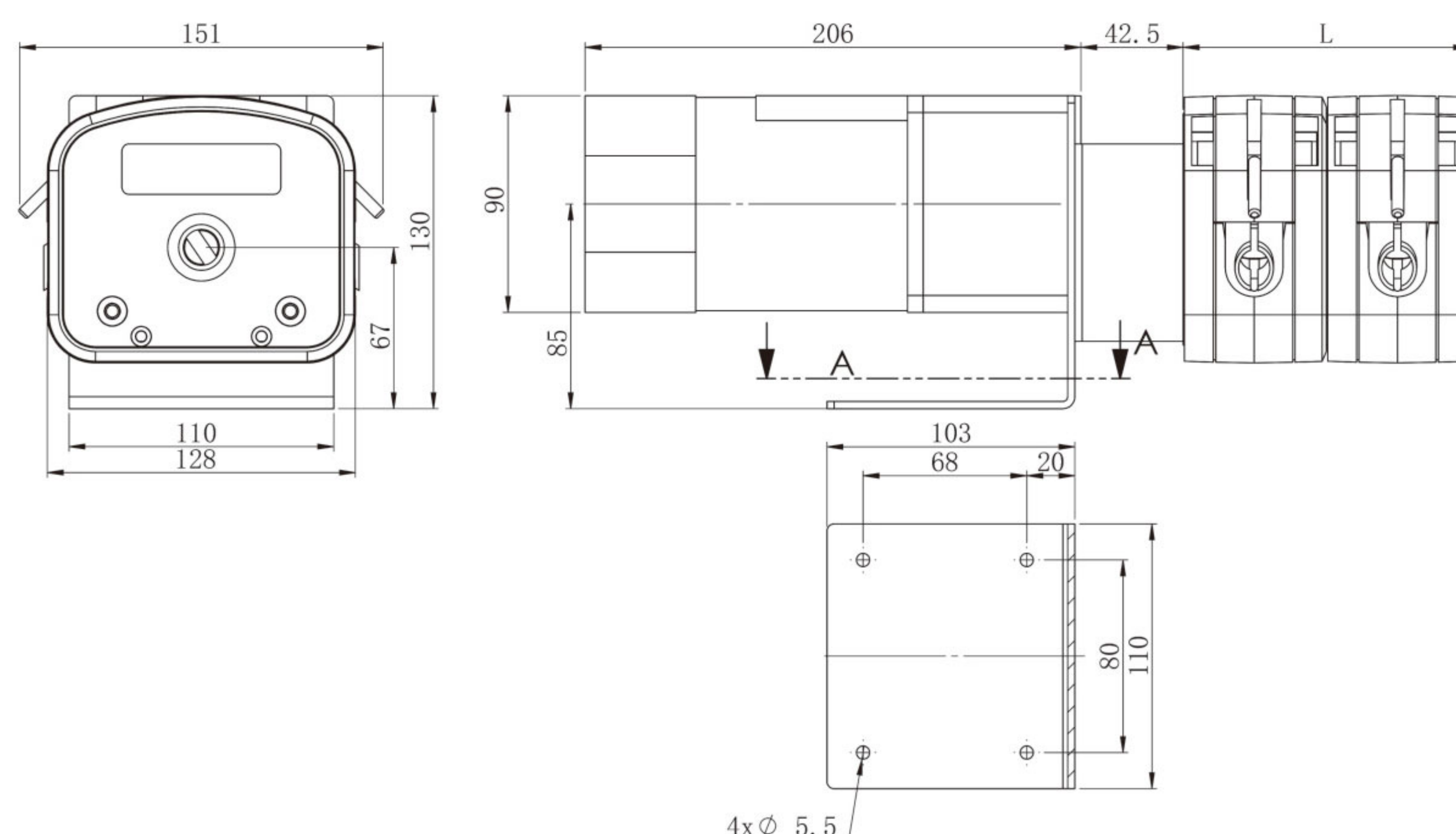
OEM Product

Fast Load Pump Head DZ25-6L(PPS)

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

Dimension Drawing(Unit: mm)

Number of pump heads	L/mm
1	59.5
2	119

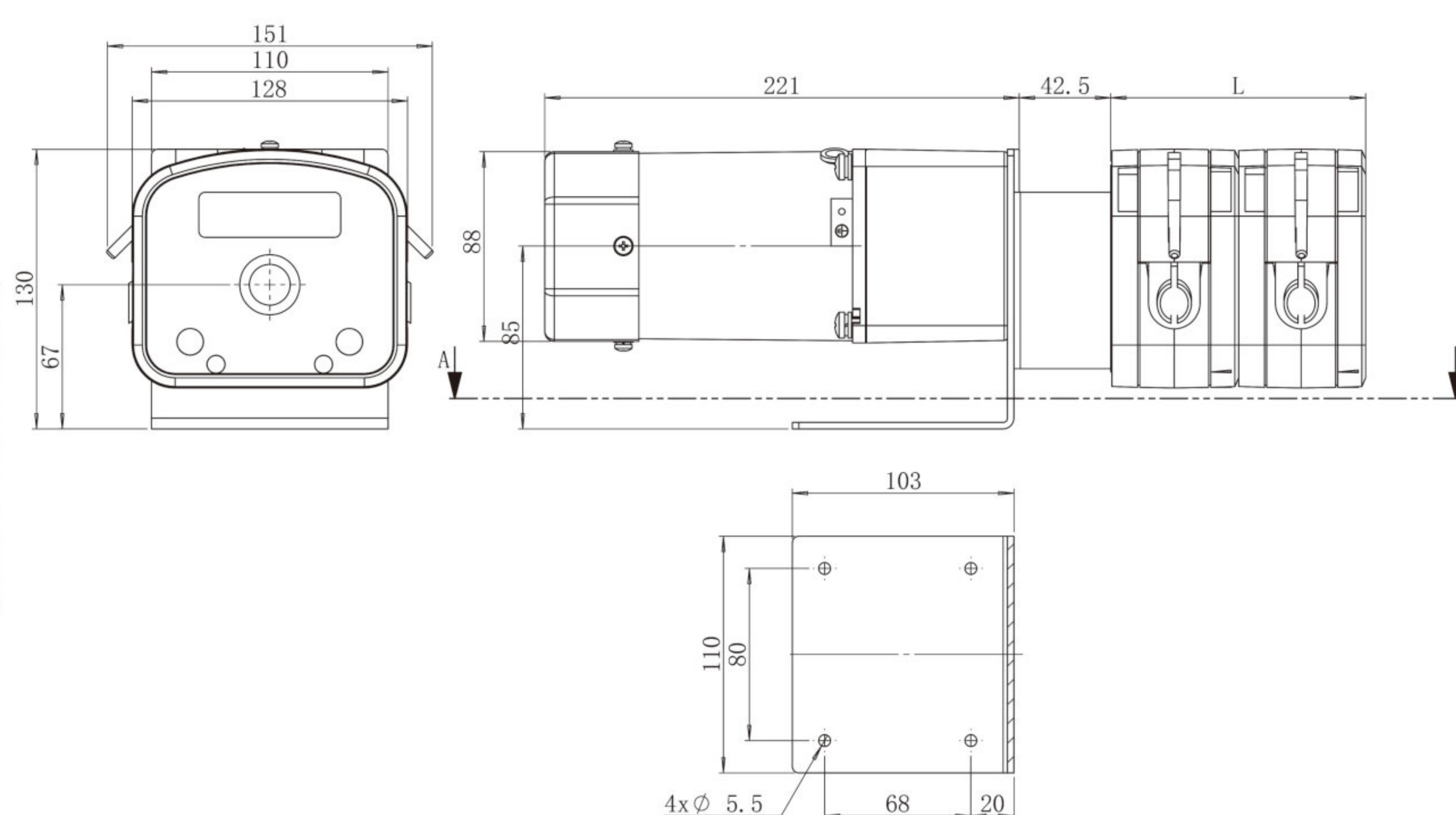


OEM-J402 Technical Specifications

Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-J402	AC geared motor	AC220V/AC110V	450	$\leq \pm 10\%$	0-40°C, 80%RH

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

Dimension Drawing(Unit: mm)



OEM-JT407 Technical Specifications

Model No.	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-JT407	AC speed adjustable motor	AC220V/AC110V	45-450	$\leq \pm 10\%$	0-40°C, 80%RH



Low Pulsation Pump Head

DY15,DY25



(2*6 rollers)

Product Introduction

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

Model Number

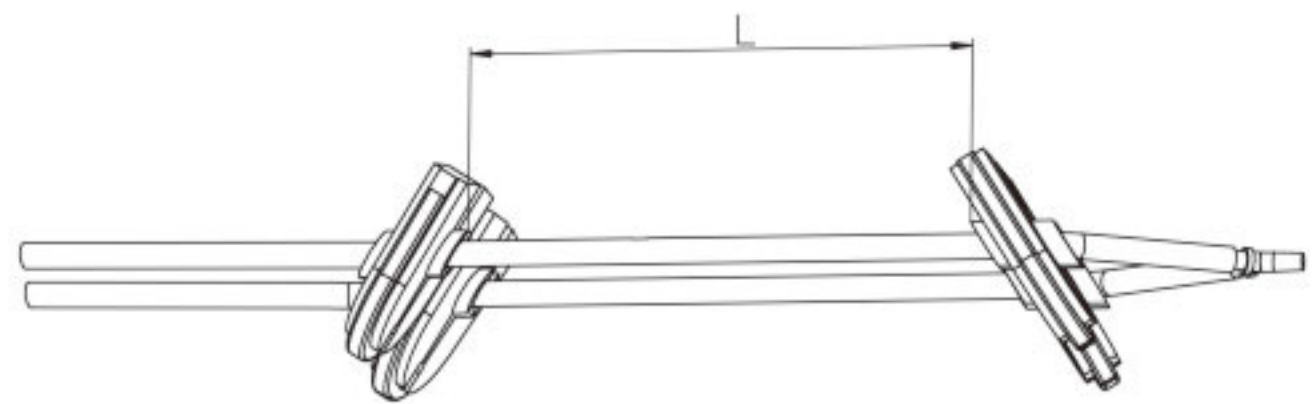
| DY15, DY25

Typical Application

High precision dosing micro liquid.

"Y" connector and tubing cartridge schematic diagram

The tubing length is 125mm between two cartridges



Tubing Installation Procedure

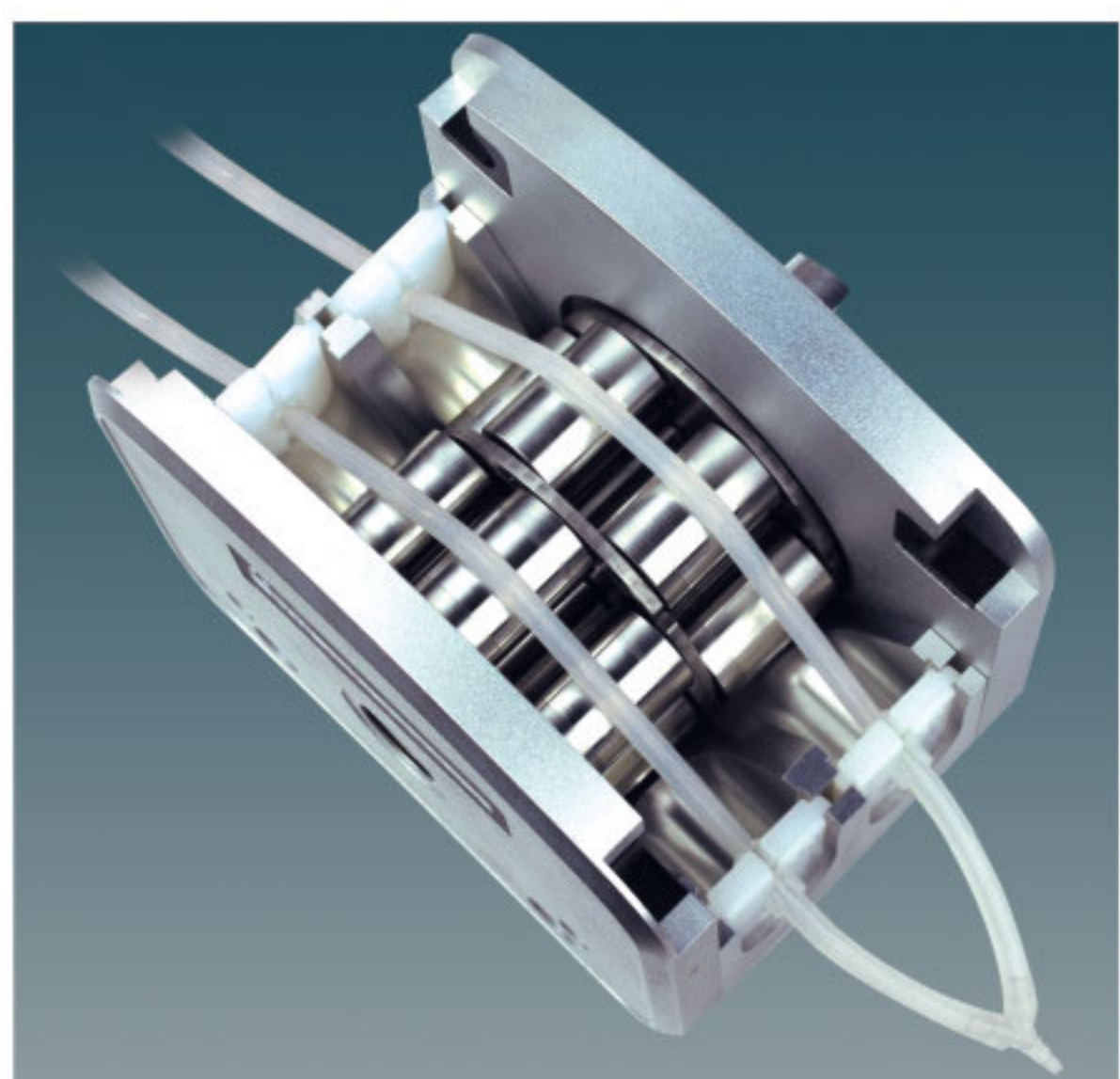
1.Lift both side levers, take off the upper block.



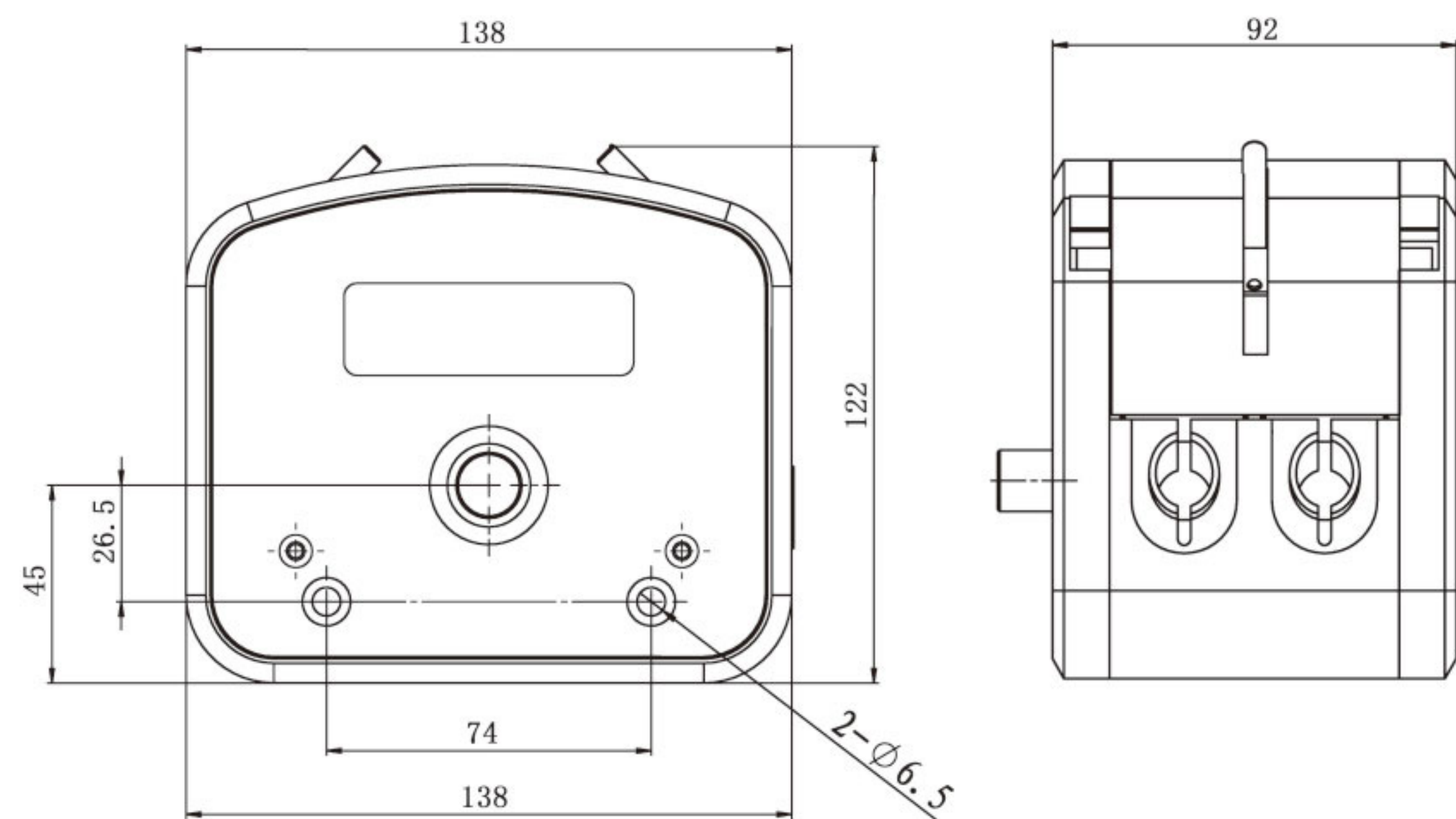
2.Put the tubing with tubing clamp into pump housing.



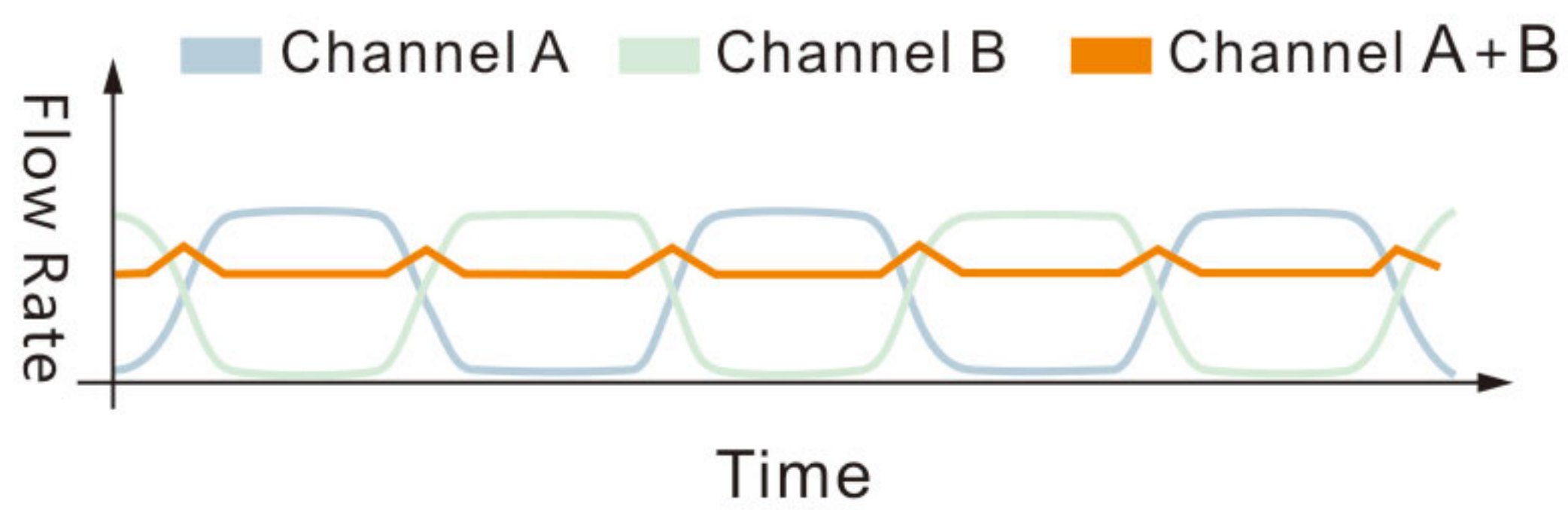
3.Install the upper block, put down the levers to lock the block.



Dimension Drawing(Unit: mm)



Pulsation Reduction Schematic Diagram



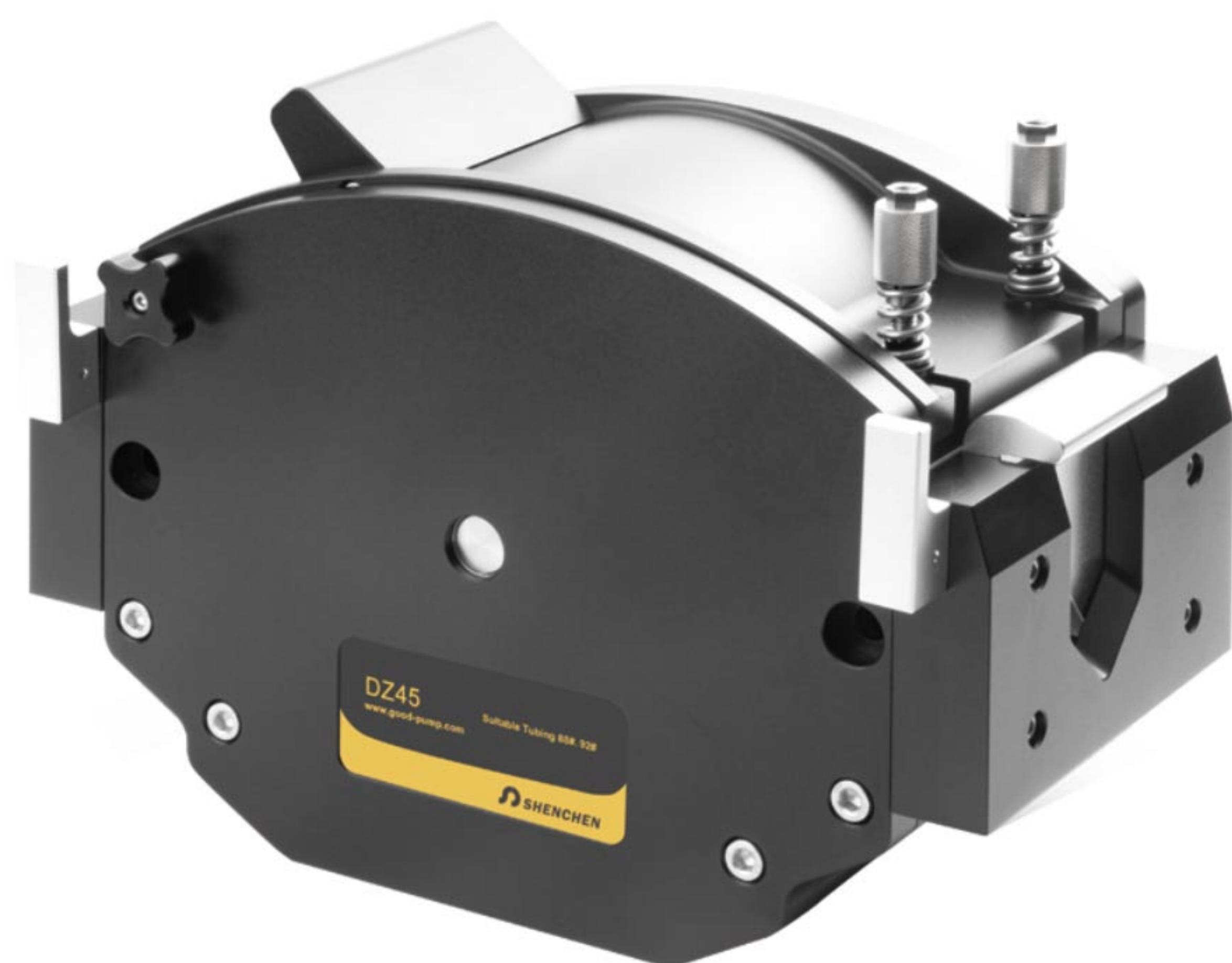
Experimental conditions:standard atmospheric pressure, room temperature at 20°C,the liquid is pure water, no pressure, no suction and lift.
Note: Actually, it is affected by many factors such as transmission medium, inlet and outlet pressure, hose material and error, working environment, etc. This data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

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



Planetary Gear Type Industrial Pump Head

DZ45

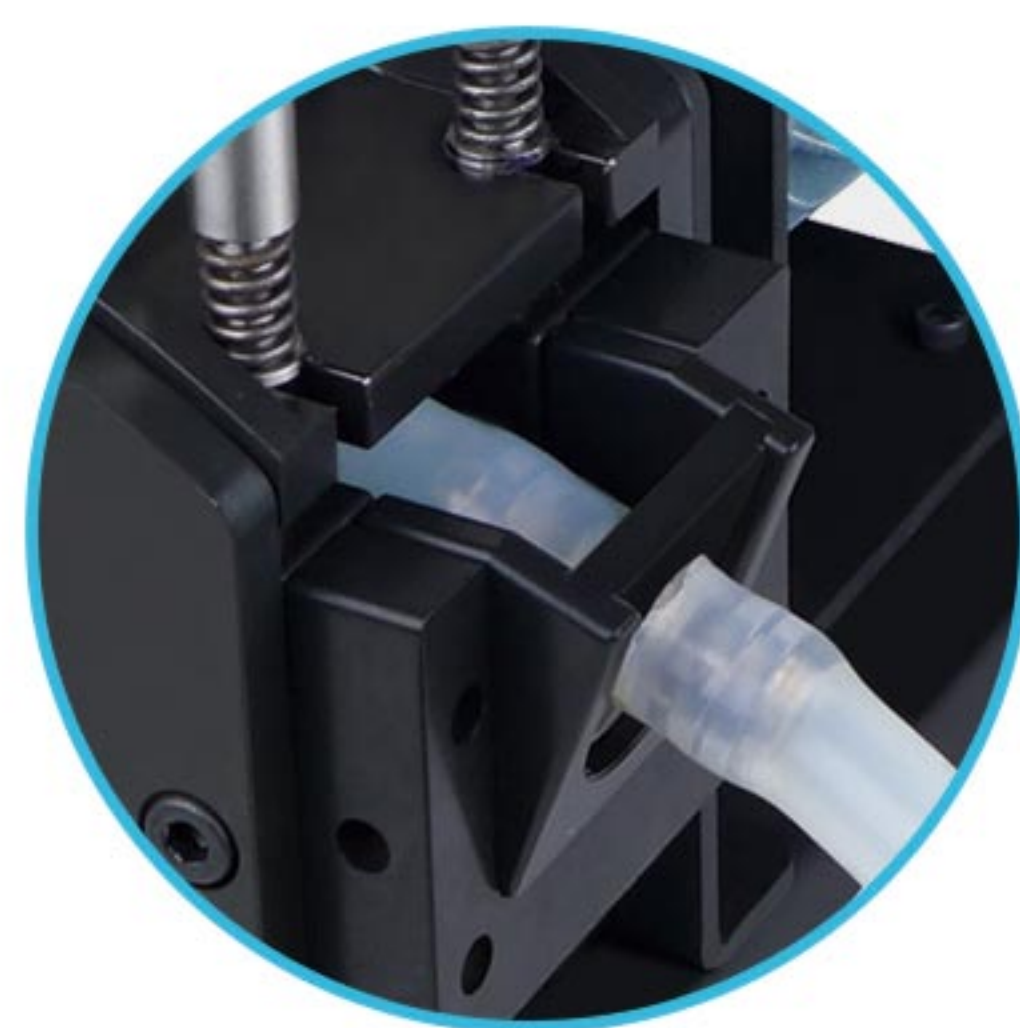


Product Introduction

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

Product Features

- Long service life of tube: The rollers of the planetary gears are powered by self-transmission, rolling friction with the tube, extending the service life of the tube.
- High torque, shock resistant: Planetary gears have multiple contact surfaces, multiple gear surfaces receive shock loads evenly across 360°, make the load on each gear smaller and can accept higher torque shock.
- Running smoothly: The unique multi-point uniform fit in planetary gear combinations, and our company's gear processing technology is fine grinding, can achieve higher precision positioning and make it run smoothly.



DZ45-I

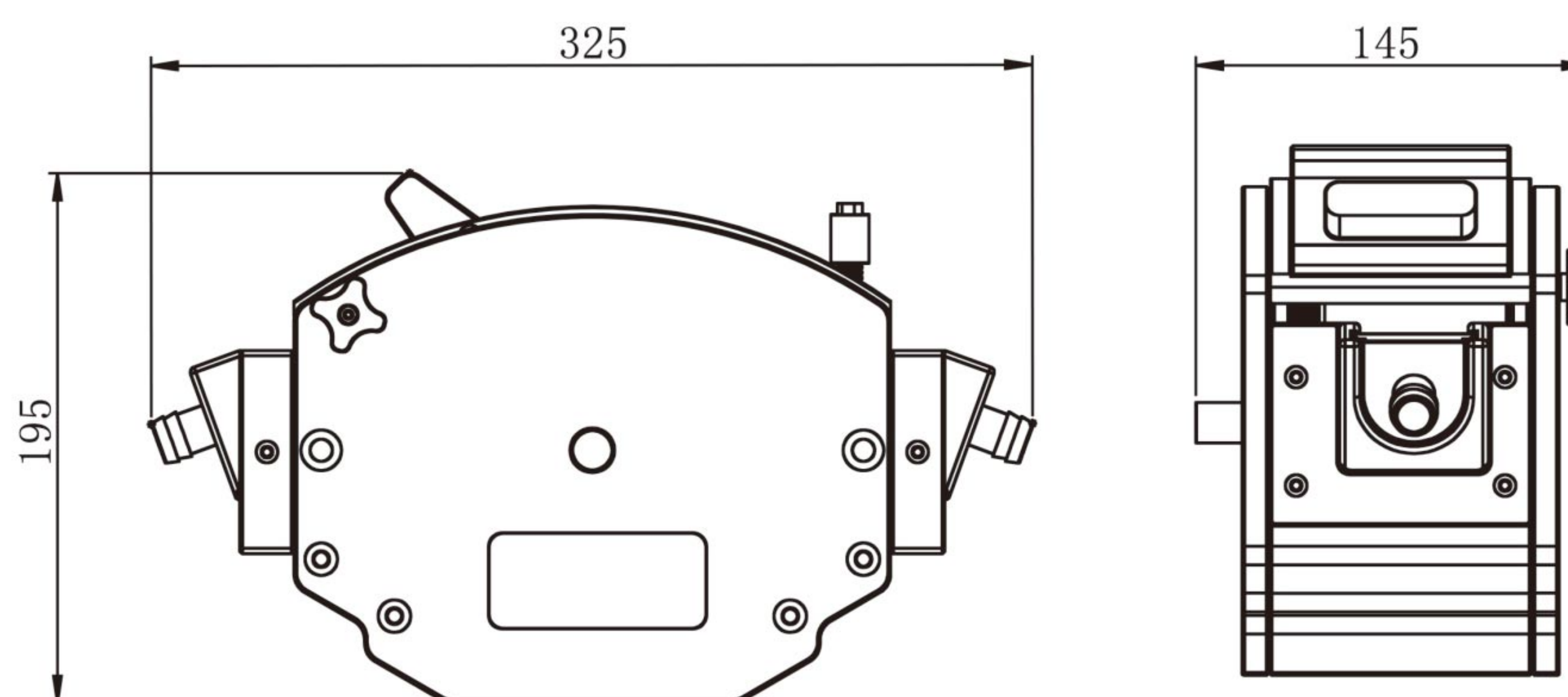


DZ45-II

Roller Components



Dimension Drawing(Unit: mm)



Technical Specifications

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



OEM Product

DC Motor OEM

OEM-Z Series						
Model No.	Pump head	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-Z109	EasyPump Series, AMC Series SN Series	Φ60 DC motor	DC12V	600	± 10%	0-40℃, 80%RH
OEM-Z205		Φ70DC motor	DC12V	300		
OEM-Z208		Φ70 DC motor	DC12V	600		
OEM-Z216		Φ70 DC motor	DC12V	450		
OEM-Z218		Φ70 DC motor	DC12V	600		
OEM-Z402	DZ25-3L	Φ80 DC motor	DC12V	600		
OEM-Z501	YZ35	Φ90 DC motor	DC12V	600		
OEM-Z502		Φ90 DC motor		600		
OEM-Z503		Φ90 DC motor		240		
OEM-Z506	DZ25-6L	Φ90 DC motor	DC12V	350		
OEM-Z504		Φ90 DC motor		600		
OEM-Z505		Φ90 DC motor		460		

AC Motor OEM

OEM-J Series						
Model No.	Pump head	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-J013	EasyPump Series, AMC Series SN Series	Φ70 AC motor	AC220V(standard), AC110V(optional)	417	± 10%	0-40℃, 80%RH
OEM-J022		Φ90 AC motor		430		
OEM-J024		3 phase AC motor		430		
OEM-J026		3 phase AC motor		430		
OEM-J027		3 phase AC motor		70		
OEM-J402	DZ25-6L	Φ90 AC motor		450		
OEM-J401	YZ35	Φ90 AC motor		450		

OEM-JT Series						
Model No.	Pump head	Motor type	Power supply	Speed(rpm)	Speed error	Working environment
OEM-JT03	EasyPump Series, AMC Series SN Series	Φ70 AC motor	AC220V(standard), AC110V(optional)	30-300	± 10%	0-40℃, 80%RH
OEM-JT08		Φ90 AC motor		43-430		
OEM-JT12		Φ90 AC motor		43-430		
OEM-JT402		Φ90 AC motor		45-450		
OEM-JT406		Φ90 AC motor		45-450		
OEM-JT407	DZ25-6L	Φ90 AC motor		45-450		
OEM-JT501	YZ35	Φ104 AC motor		45-450		
OEM-JT502		Φ104 AC motor		45-450		

Tubing & Flow Rate		
Pump Head	Tubing	Flow Rate (mL/min)
EasyPump Series	13 [#] , 14 [#] , 19 [#] , 16 [#] , 25 [#] , 17 [#] , 18 [#]	<2580
	15 [#] , 24 [#] , 35 [#] , 36 [#]	<3100
AMC Series	ID: 0.13–3mm Wall thickness: 0.8–1mm	<65.17
SN Series	14 [#] , 16 [#] , 24 [#]	<1500
DZ25–3L	15 [#] , 24 [#] , 35 [#] , 36 [#]	<3600
DZ25–6L	15 [#] , 24 [#] , 35 [#] , 36 [#]	<6000
YZ35	26 [#] , 73 [#] , 82 [#]	<12000


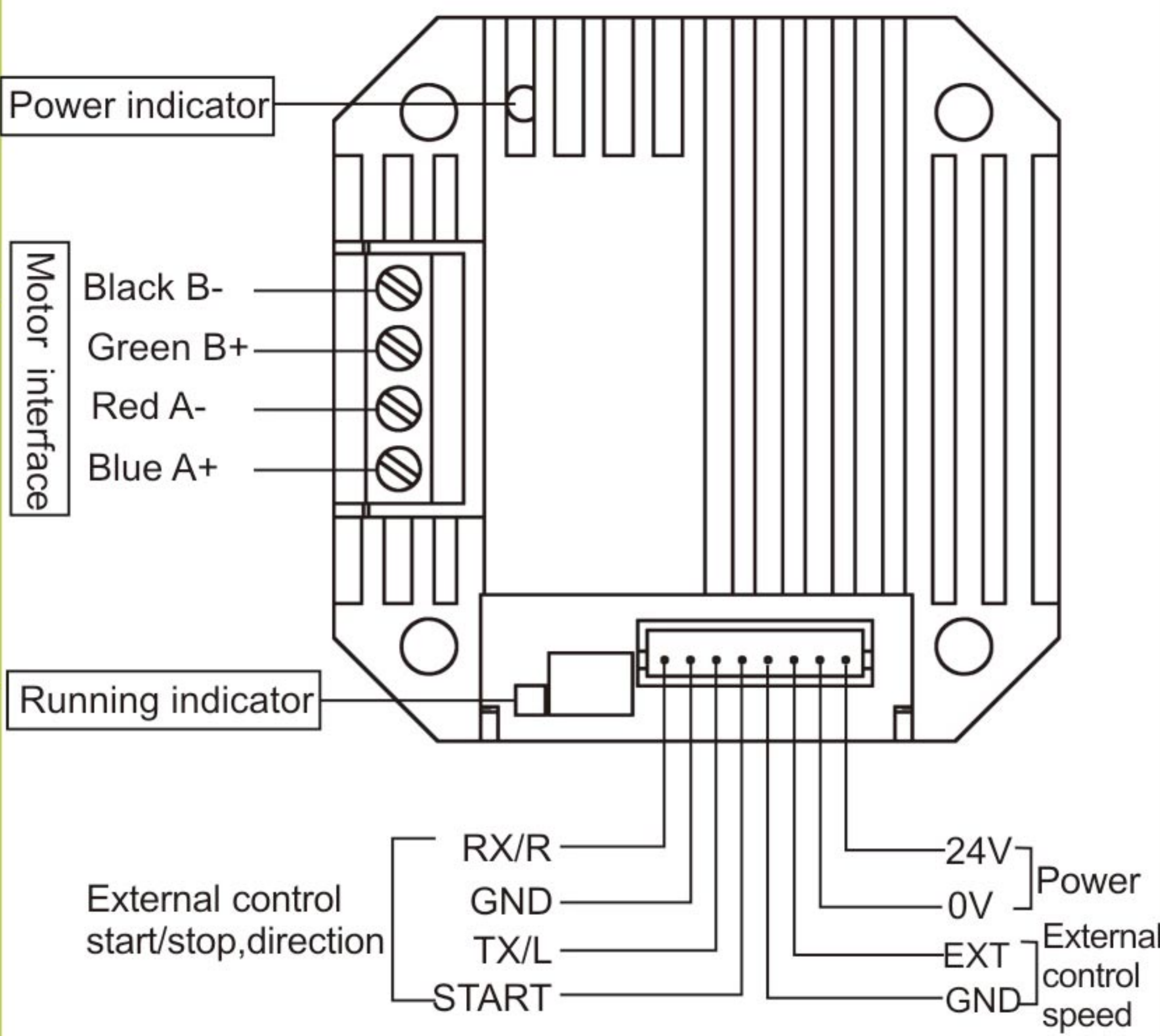

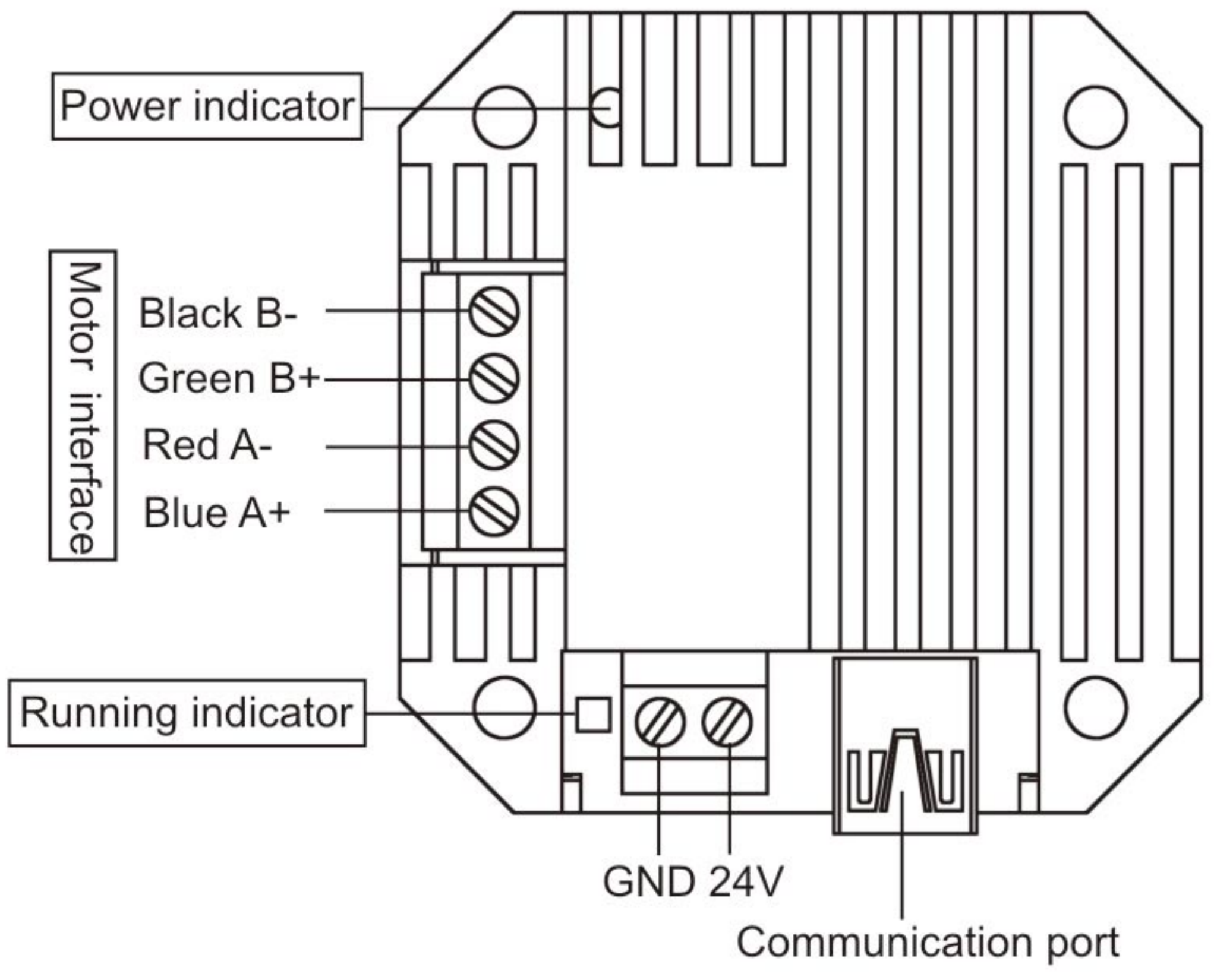

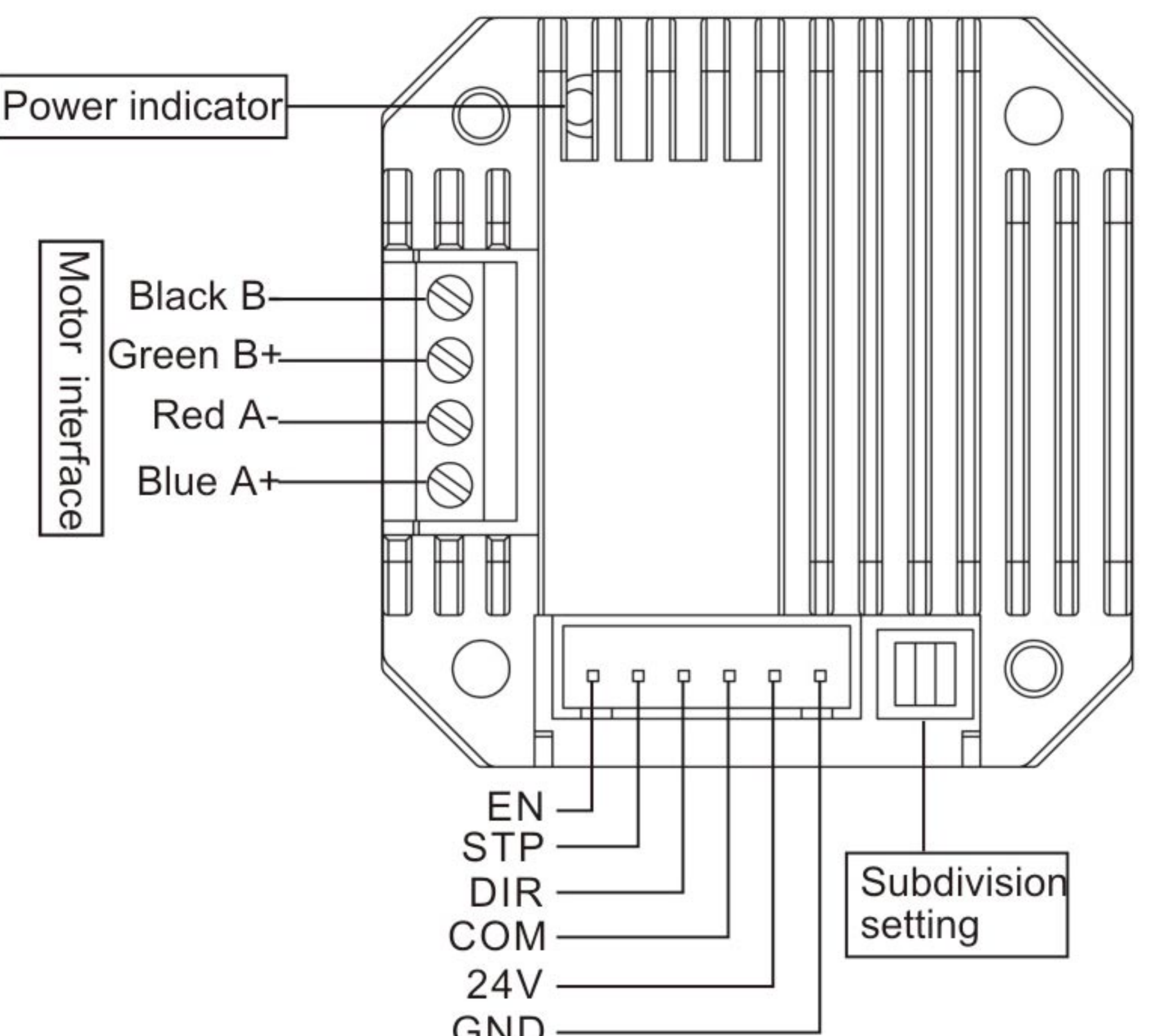


OEM Product

Integrated Drive Module(42 stepper motor)


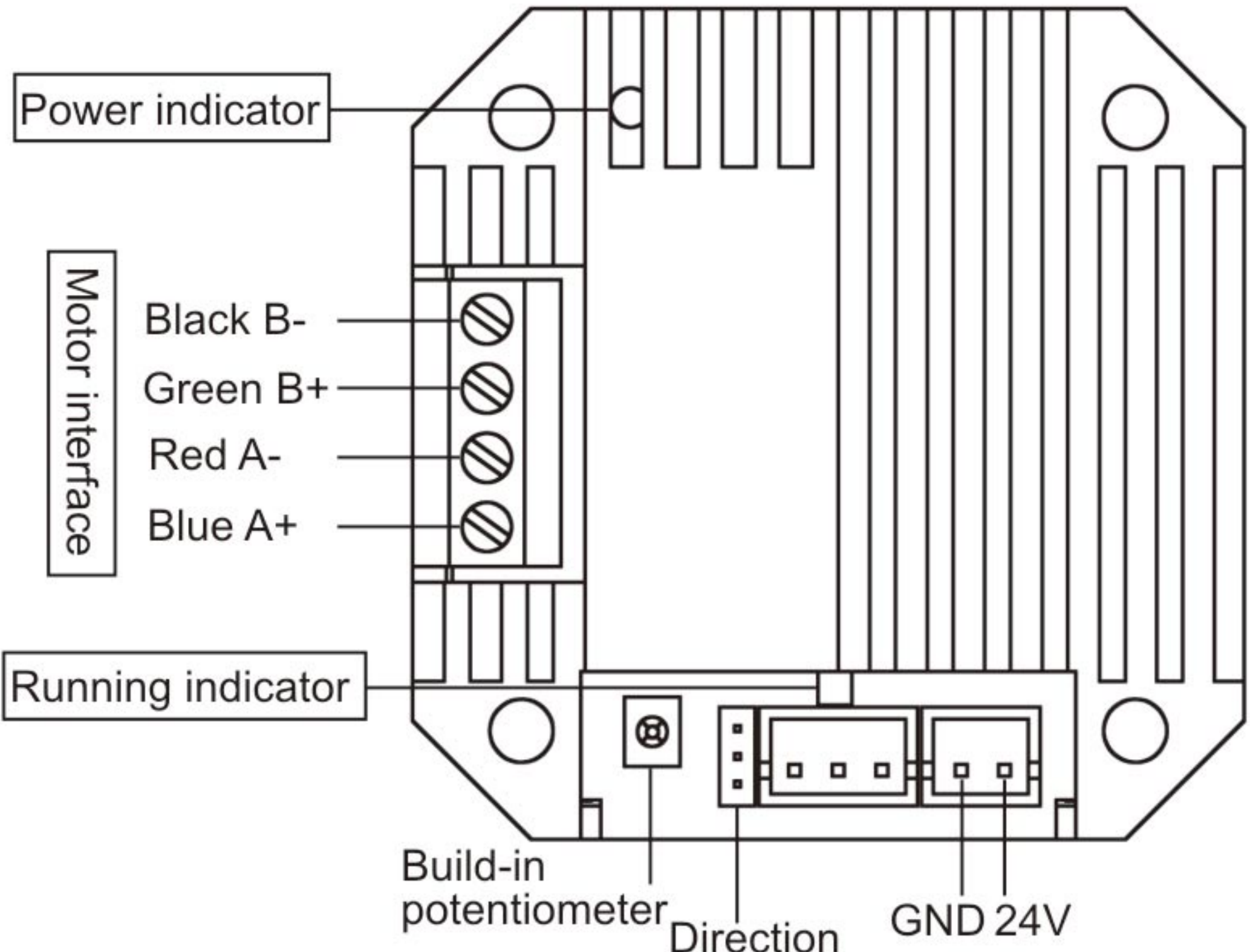
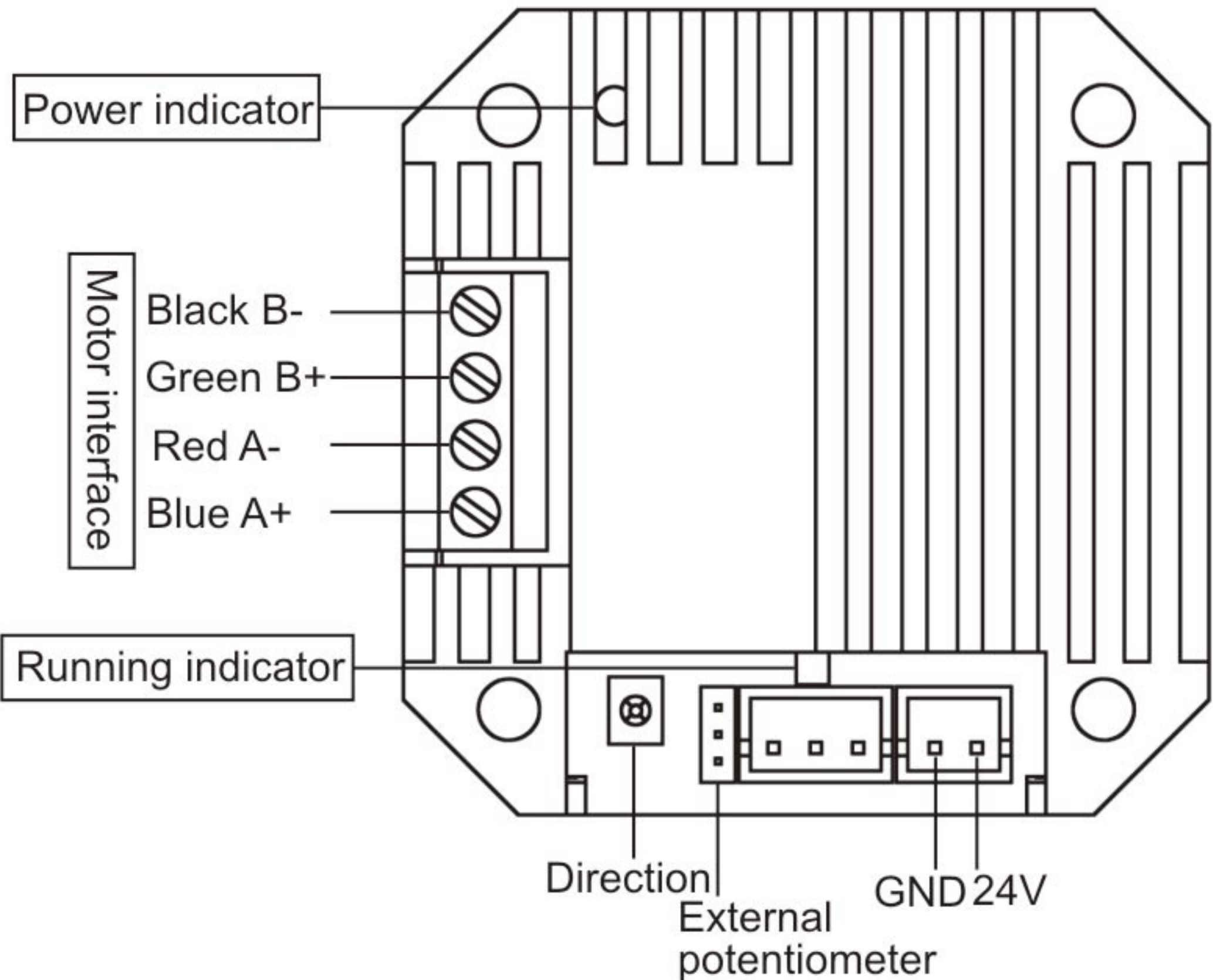

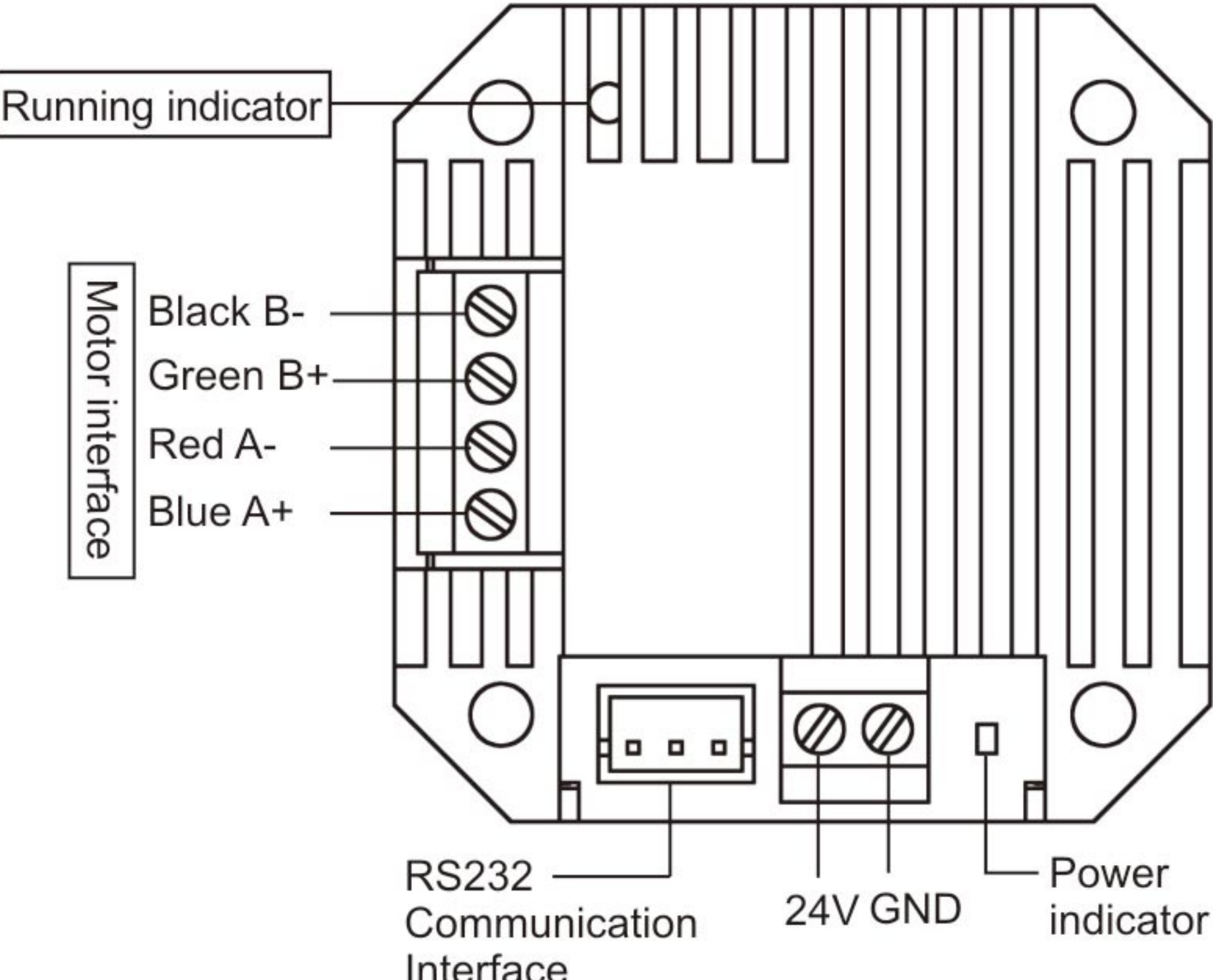
Technical Specifications

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


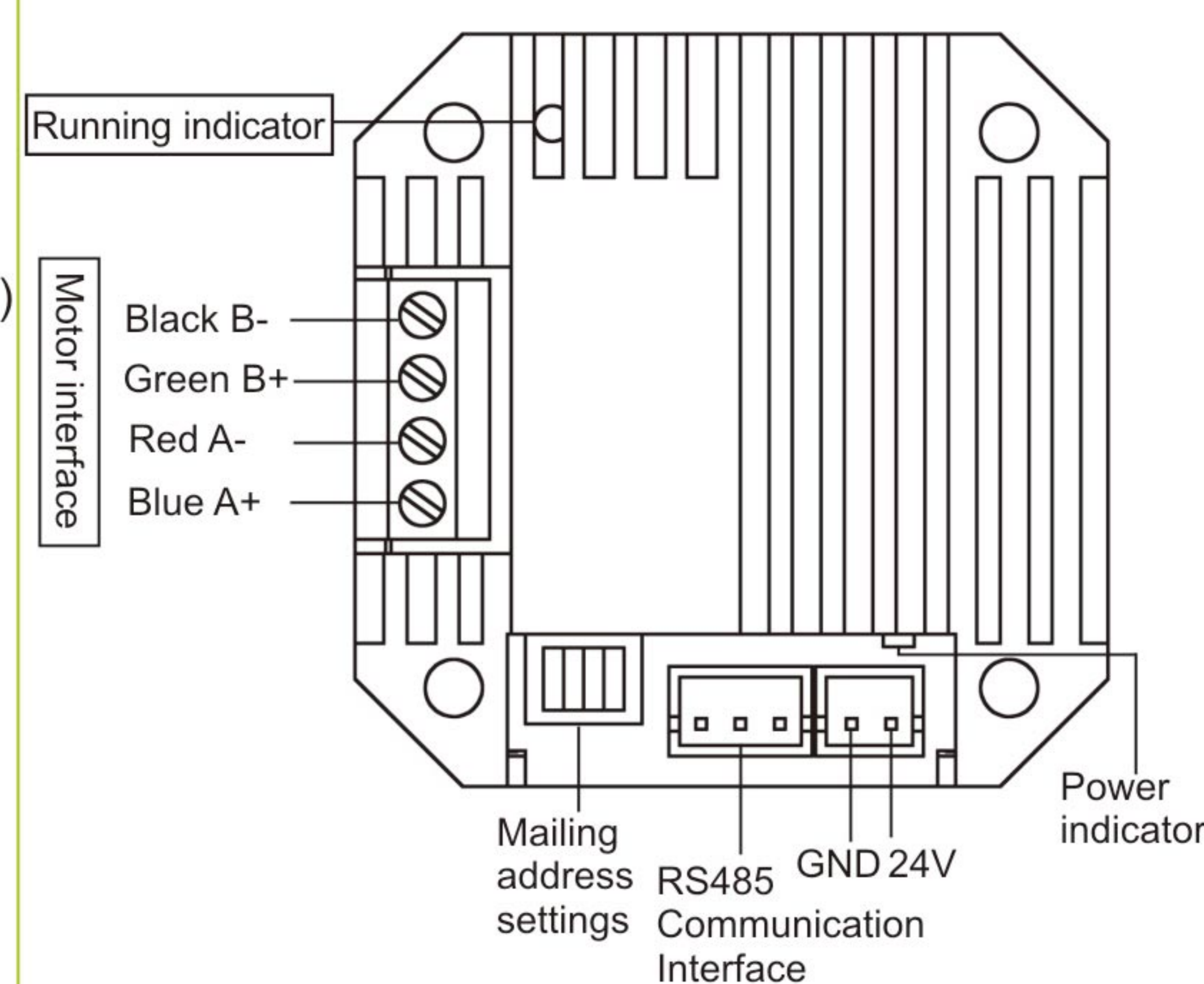
Product	Model No.	Functions	Wiring Diagram
 M42/0-5V,0-10V,4-20mA	M42/0-5V	Start/stop control: Passive switch signal control start/stop Speed control: External input analog signal 0-5V	 <p>Power indicator</p> <p>Motor interface</p> <p>Black B- Green B+ Red A- Blue A+</p> <p>Running indicator</p> <p>External control start/stop,direction</p> <p>RX/R GND TX/L START</p> <p>24V 0V EXT GND</p> <p>Power External control speed</p>
	M42/0-10V	Start/stop control: Passive switch signal control start/stop Speed control: External input analog signal 0-10V	
	M42/4-20mA	Start/stop control: Passive switch signal control start/stop Speed control: External input analog signal 4-20mA	
 M42/USB	M42USB	Speed control: Preset speed or adjust the speed through USB communication port. Built-in EEPROM can save the setting speed.	 <p>Power indicator</p> <p>Motor interface</p> <p>Black B- Green B+ Red A- Blue A+</p> <p>Running indicator</p> <p>GND 24V</p> <p>Communication port</p>
 M42/PULSE	M42/PULSE	Speed control: External input pulse frequency Control mode: support common cathode, common anode wiring mode Subdivision setting: 1/16(recommend), 1, 1/2, 1/4, 1/8, 1/32, 1/64, 1/128 Logic input voltage: 3.3V-24V	 <p>Power indicator</p> <p>Motor interface</p> <p>Black B Green B+ Red A- Blue A+</p> <p>EN STP DIR COM 24V GND</p> <p>Subdivision setting</p>



OEM Product


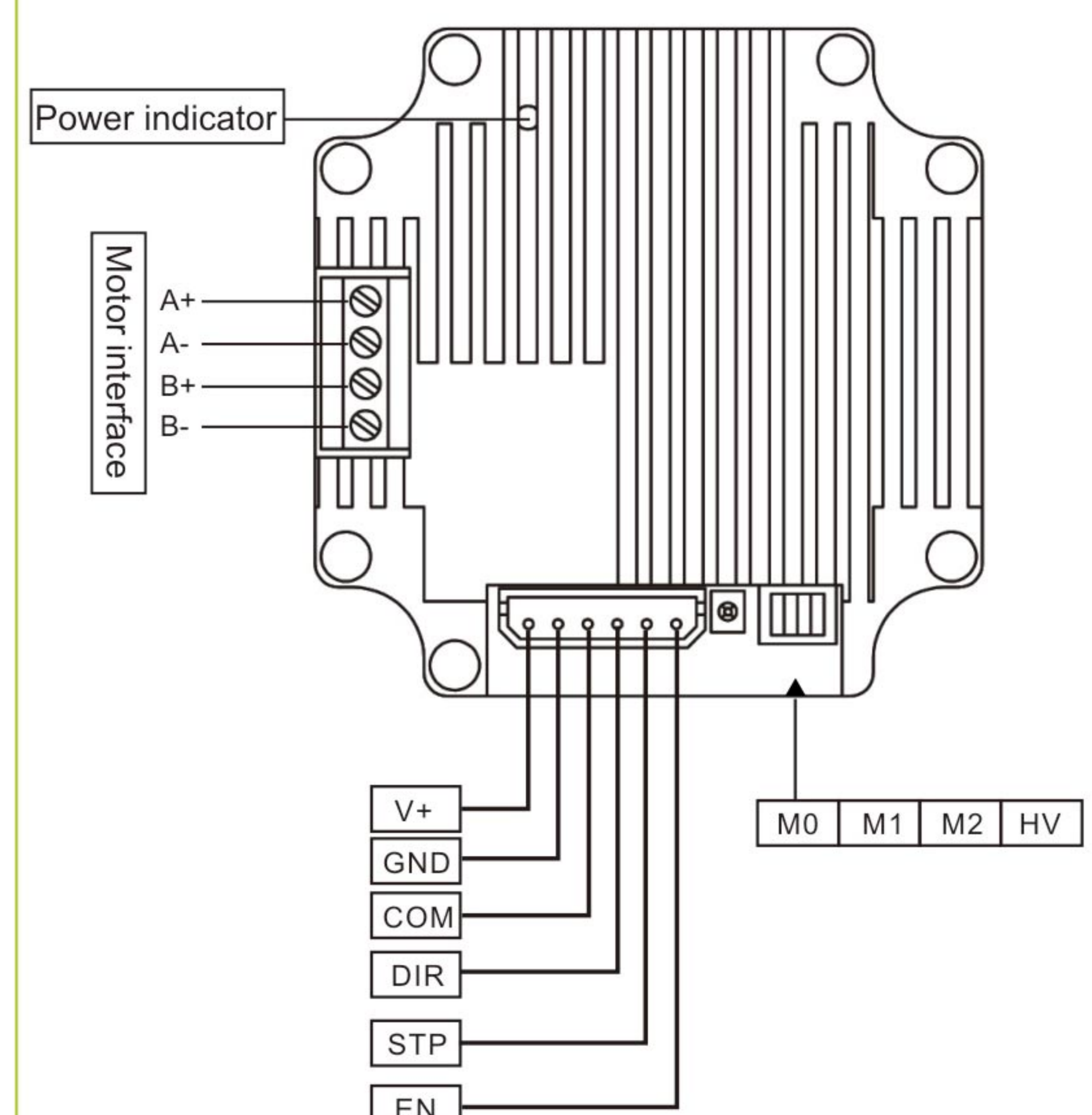
Product	Model No.	Functions	Wiring Diagram
 <p>M42/RP M42/RP-A</p>	M42/RP	Speed control: Built-in potentiometer control speed	
	M42RP-A	Speed control: External potentiometer control speed	
 <p>M42/RS232</p>	M42/RS232	Speed control: RS232(Modbus protocol) Built-in EEPROM can save the setting speed	

OEM Product

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

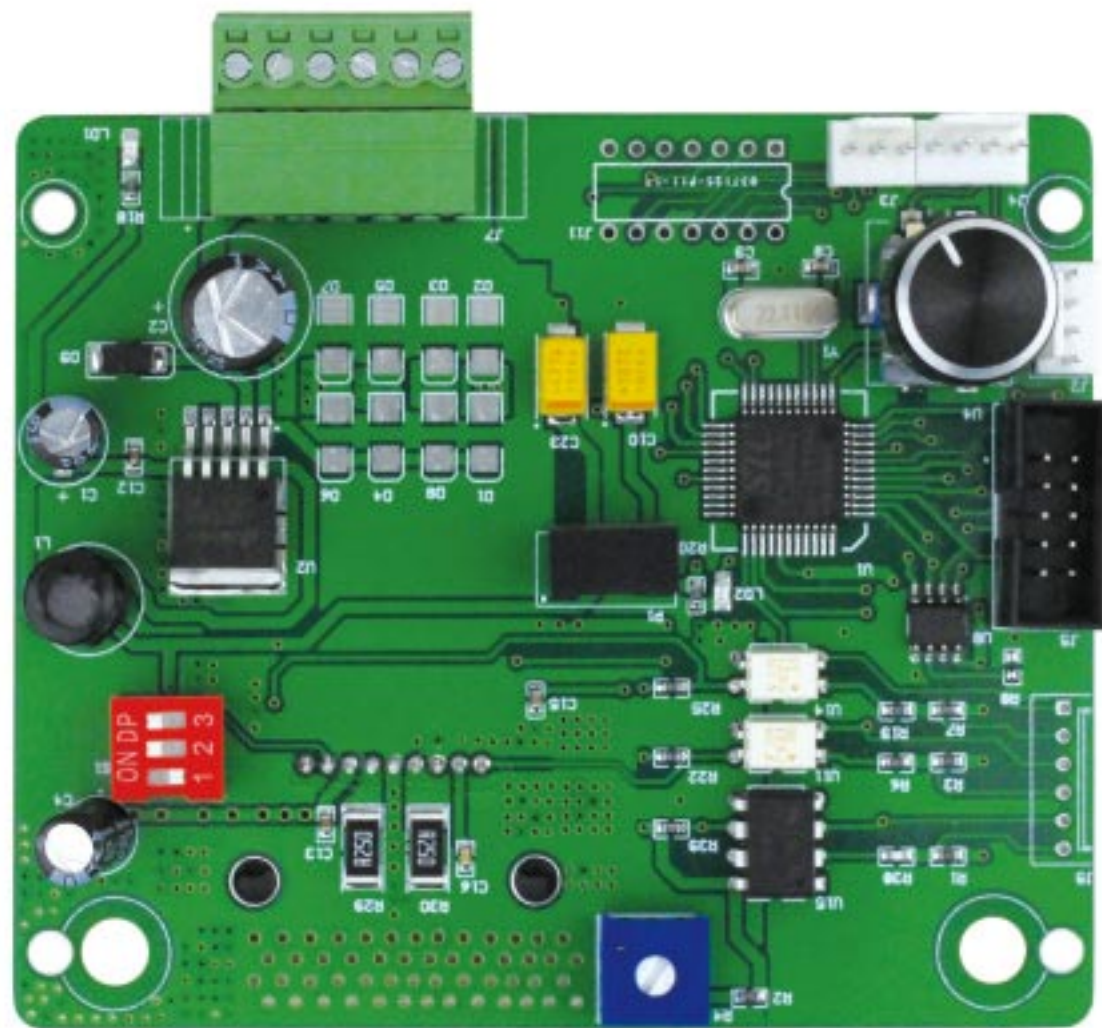
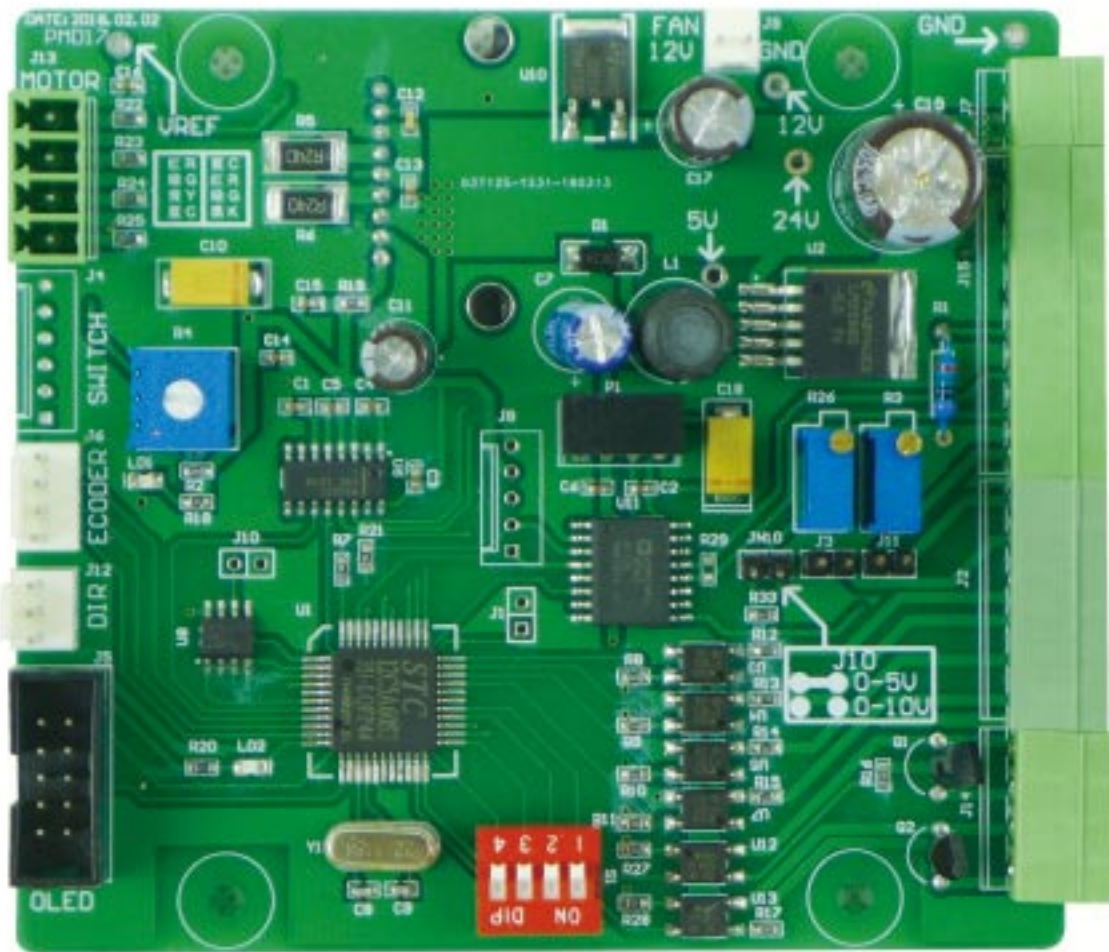
Integrated Drive Module(57 stepper motor)

Technical Specifications			
Suitable motor	57 stepper motor	Output motor current	2-4.5A
		Power supply	DC24V
Speed range	0.1-600rpm	Working environment	0-40℃, 80%RH

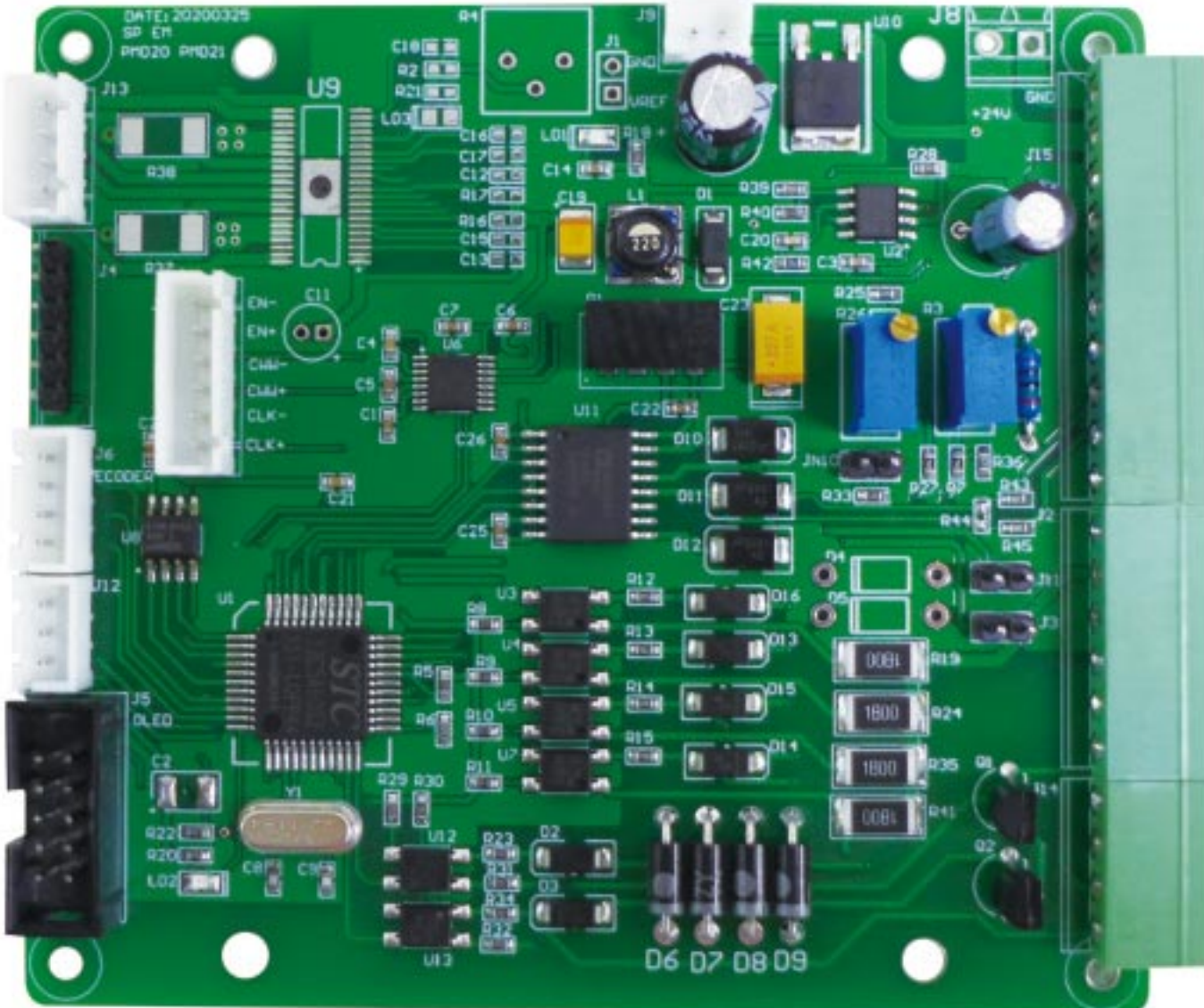
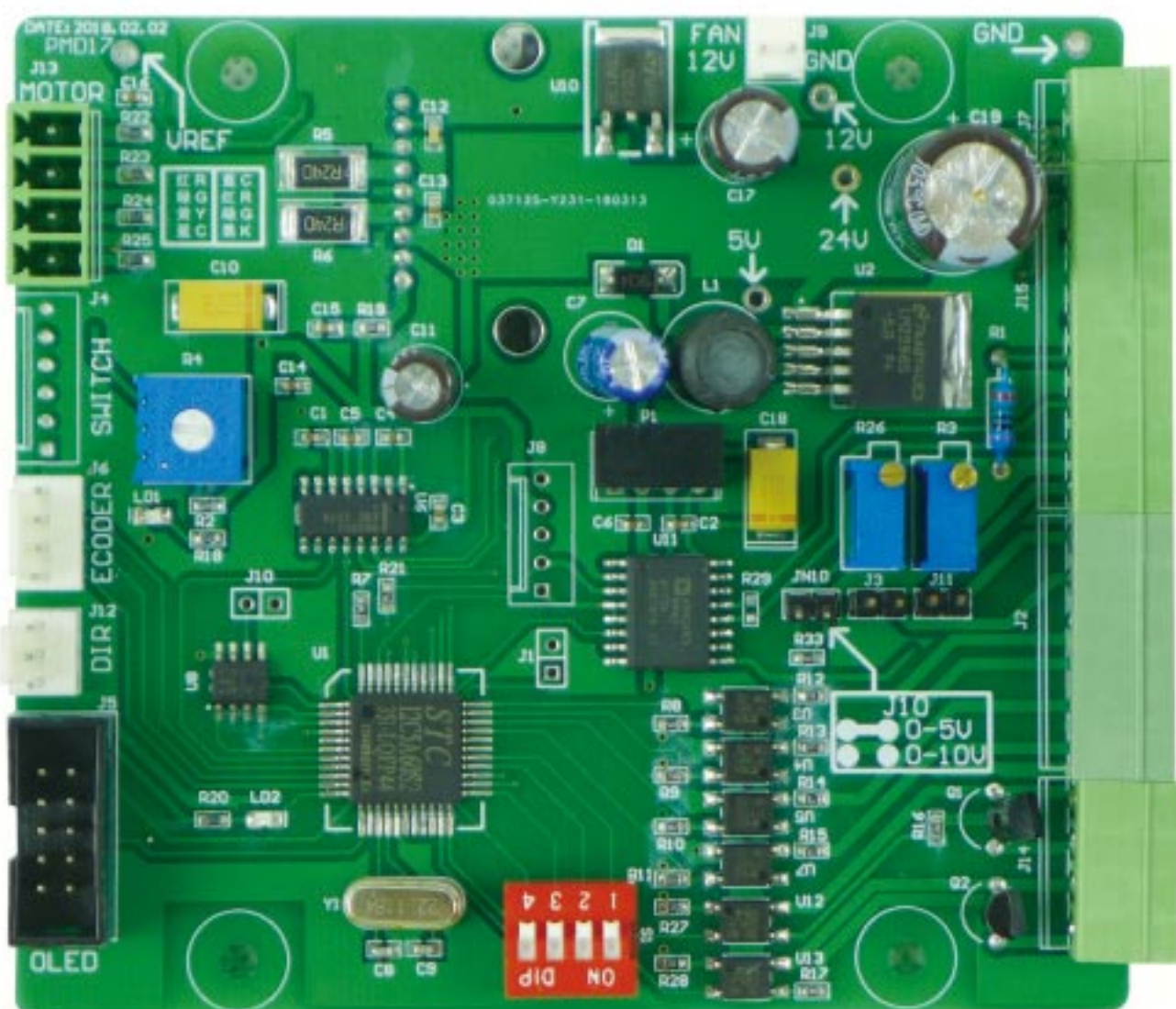
Product	Model No.	Functions	Wiring Diagram
 <p>M57P</p>	M57P	<p>Speed control: External input pulse frequency speed control</p> <p>Subdivision setting: 1/16 (recommend), 1, 1/2, 1/4, 1/8, 1/32</p> <p>Logic input voltage: Common cathode: 12V-24V, common anode: 3.3V-5V or 12V-24V</p>	



Control Board For OEM Product



PD03 Main board technical specification		PMD07 Main board technical specification	
Speed range	0.1–350 rpm	Speed range	0.1–350 rpm
Speed control	Pulse frequency speed control	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 Mainboard 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 ; Passive switch signal
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℃, 80%RH
Power	<60W		



Peristaltic Pump Accessories

A Filling Nozzle

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

B One Way Checkvalve



Avoid liquid drop off after filling and transferring.

C Filling Countersunk



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

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










D Fluid Pulse Damper



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

E Handling Dispenser



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

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

F Foot Pedal Switch



Control the pump start/stop with foot pedal switch.



G Tube Connector



a Straight tube connector



b "Y" tube connector



c Tee tube connector



d Reducer tube connector



e "L" tube connector



f Flexible/Hard tube connector

H PH Controller



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

add acid or alkali automatically.

Function:

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

I 5V Sensor



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

J Benchtop Tubing Cutter



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

K Support Stand
























The multiple filling stand is suitable for more than 2 channels filling. It can hold 2-8 filling nozzles. We can customize the suitable 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 °C.

Micro Flow Rate Tubing										
Tubing Size	0.13×0.86	0.5×0.86	0.86×0.86	1.52×0.86	2.06×0.86	2.79×0.86	1×1	2×1	3×1	2.4×0.8
Tubing cross sections (1:1)										
Wall thickness (mm)	0.86						1.0			0.8
Inside diameter (mm)	0.13	0.5	0.86	1.52	2.06	2.79	1.0	2.0	3.0	2.4
Maximum pressure (Mpa)	Continuous	0.1								
	Intermittent	0.1								

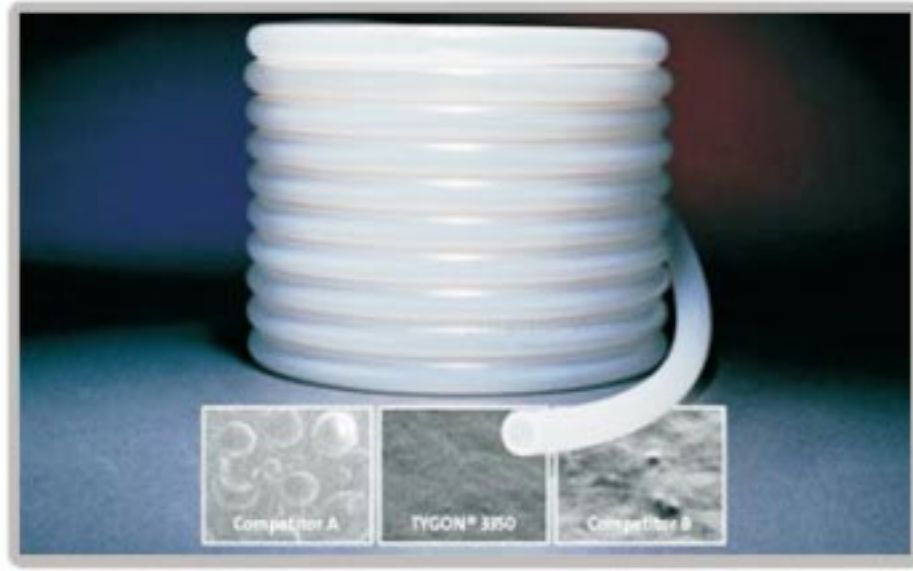




Basic Flow Rate Tubing												
Tubing Size		13 [#]	14 [#]	19 [#]	16 [#]	25 [#]	17 [#]	18 [#]	15 [#]	24 [#]	35 [#]	36 [#]
Tubing cross sections (1:1)												
Wall thickness	mm	1.6							2.4			
	inch	1/16							3/32			
Inside diameter	mm	0.8	1.6	2.4	3.2	4.8	6.4	7.9	4.8	6.4	7.9	9.6
	inch	1/32	1/16	3/32	1/8	3/16	1/4	5/16	3/16	1/4	5/16	3/8
Maximum pressure (Mpa)	Continuous	0.17				0.14	0.1	0.07	0.17		0.14	
	Intermittent	0.27				0.24	0.14	0.1	0.27		0.24	

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




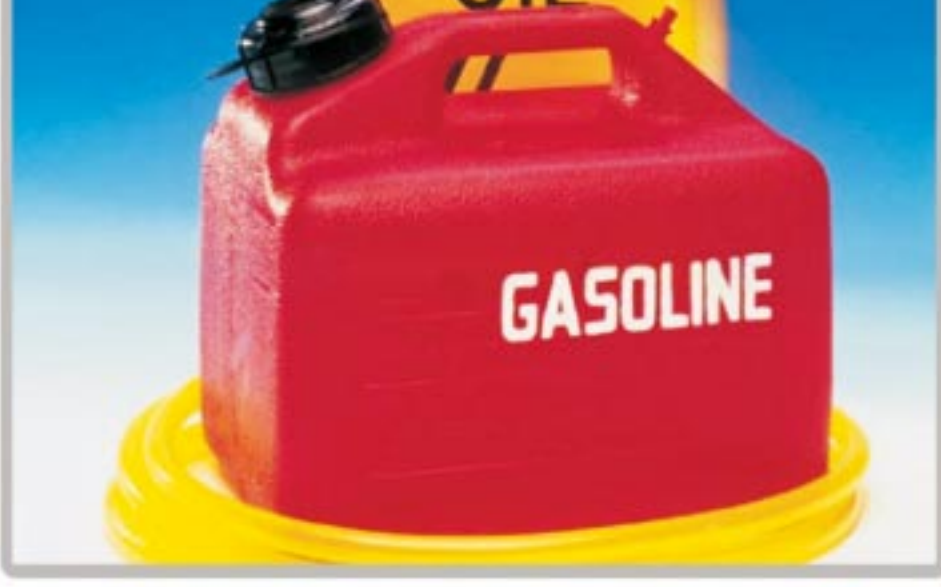



Peristaltic Pump Tubing

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

	A Tygon3350	B Tygon E-3603	C Norprene Chemical	D PharMed	E Norprene A-60-F
					
Formulation	Tygon3350	Tygon R-3603	Norprene Chemical	PharMed	Norprene A-60-F
Application	Pharmaceutical, cosmetic, medical and auto-analysis application.	General laboratory, food & beverage, biopharmaceutical, analytical instruments.	Excellent for chemical processing and general industrial applications. Food and beverage applications where extractables are a concern.	Cell and tissue culture work and pharmaceutical uses. Also good for light-sensitive samples.	Ideal for the food, dairy and beverage.
Advantages	Ultra-smooth; minimizes bacterial growth. Good for mild to medium concentration bases, salts and alcohols; odorless, tasteless, and nontoxic. Transparent.	Inexpensive tubing for general lab application. Nonaging, nonoxidizing. Clear for easy flow monitoring. Handles virtually all inorganic chemicals. Low gas permeability. Smooth bore; good for viscous fluids. High dielectric constant.	Norprene thermoplastic elastomer outer jacket with chemically inert Tygon® 2075 inner bore for excellent chemical resistance. Plasticizer-free to guard against extractables. Long flex life. Opaque beige.	Great for tissue and cell work-nontoxic and nonhemolytic; long service life minimizes risk of fluid exposure; reduces tubing costs and pump downtime. Opaque to UV and visible light to protect light-sensitive fluids. Heat sealable, bondable, and formable. Extremely low gas permeability.	Heat, ozone, and UV light resistant. Nonaging; nonoxidizing; superior acid and alkali resistance. Opaque beige.
Application Suitability	—————	ACIDS GOOD ALKALIES GOOD ORGANIC SOLVENTS NO PRESSURE GOOD VACUUM GOOD VISCOUS FLUIDS EXCELLENT STERILE FLUIDS GOOD	—————	ACIDS GOOD ALKALIES GOOD ORGANIC SOLVENTS NO PRESSURE GOOD VACUUM EXCELLENT VISCOUS FLUIDS GOOD STERILE FLUIDS EXCELLENT	—————
Physical characteristics	—————	Thermoplastic. PVC-based material with plasticizer. Firm (stiff) material. Transparent, clear.	—————	Thermoplastic elastomer. Polypropylene-based material with USP mineral oil. Excellent tensile strength. Firm (stiff) material. Opaque, beige.	—————
Temp. range	-75 to 450° F (-60~232° C)	-58 to 165° F (-50~74° C)	-76 to 165° F (-60~74° C)	-60 to 270° F (-59~135° C)	-60 to 275° F (-51~135° C)
Meets classifications	FDA 21 CFR 177.2600 USP Class VI EP 3.1.9. Exceeds 3A standards Manufactured according to GMP.	FDA 21 CFR 175.300	None.	None.	FDA 21 CFR 177.2600 NSF listed (Standard 51) Manufactured according to GMP.
Cleaning/ Sterilization	Ethylene oxide gamma irradiation, or autoclave for 30 min, 15psi (1 bar).	Unaffected by commercial sanitizers (with recommended procedures) Sterilize with ethylene oxide (ETO) or autoclave. To autoclave: Coil loosely in nonlinting cloth or paper, autoclave at 121°C (250°F). 1KG/cm ³ (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

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



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