



C26 Flow Control Vacuum Pump Series

User Guide

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About This Document

Purpose

This document is related to the C26 flow control vacuum pump series products, which is used to guide relevant technical personnel to initially understand the characteristics of the product.

Intended Audience

This document is intended for technical personnel. You should have a good understanding of your product and have a clear concept of the relevant parameters, specifications, and other information of the applications of the micro pump.

Keyword

LCD screen speed control, frequency speed control, anti-loosening connectors, knob speed control, related parameters, wiring instruction

Change History

The change history accumulates each update of this document. The latest version of the document contains all the previous updates.

Issue	Date	Product Version	Issuer	Modification
10	2019-10	1.0	XYL	Revise parameters of C26L-12V
11	2019-11	1.0	LWL	Correct the drawing of dimensions
12	2019-12	1.0	XYL	Update current parameters
13	2020-1	1.0	LWL	Correct wiring instructions for the top configuration type
14	2020-5	1.0	LWL	Add flow curve, starting current curve and type of connectors
15	2020-5	1.0	LYZ	Correct the description of frequency speed control signal
16	2020-6	1.0	LWL	Update description of the medium

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1

Characteristics



1.1 Working Status Indicator

Only the knob speed control type and frequency speed control type are equipped with working status indicator lights, which can directly feed back the working status of the pump. The top configuration type is equipped with an LCD touch screen that can display working status and fault codes.

1.2 Brush-less DC Motors

This model is driven by brush-less motor which has the advantages of long service life, low interference and high reliability.

1.3 Protections

Equipped with overheating protection, overload protection, power supply under-voltage protection, over-voltage protection and reverse connection protection function (except the basic type), which to the greatest extent prevents accidental damage to the pump.

1.4 Modular Pneumatic Connectors

This series of pumps has Rc1/8 internal thread interface, which can be installed with stainless steel push-in connectors (6mm and 8mm inner diameter), reinforced nylon hose connector, stainless steel hose connectors and PP hose connectors. This product is equipped with reinforced nylon hose connectors as standard. The standard reinforced nylon hose connector is recommended to match 4*8 silicone tube and the optional plastic and stainless steel hose connectors are recommended to match with 7*13 silicone hose. The size of the tube can be appropriately changed according to the softness and hardness of the hose. There are two options of stainless steel push-in connectors for matching with 6*8 or 4*6mm hard tubes. The user can select the corresponding pneumatic connectors according to the pipeline situation when ordering. For ordering options, see section 3.4.

2

Special Features

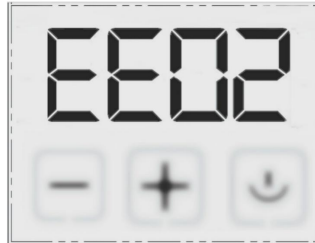
2.1 Speed Control Function

The flow rate of the pump can be changed by adjusting the motor speed. The top configuration type is equipped with an LCD touch screen and speed regulation connector, which can be used to start, stop and control the motor speed through the LCD touch screen, and also through frequency signals. Knob speed control type models have an external speed control knob, which can control the speed, start and stop of the pump. Frequency speed control type models can be controlled by user inputting frequency signal. The basic type has no speed control function. Please refer to Chapter 5 Electrical Connection for specific usage of different speed control methods.

2.2 Warning Function

1. The knob speed control type and frequency speed control type are equipped with working status indicator lights. Users can understand the working status of the equipment through the color change of the indicator lights:
 - a. When the light remains green, it means the power supply is normal and the pump is not working;
 - b. When the green light flashes, it means the pump is working normally;
 - c. When the light remains red, it means the power supply voltage is too high or too low. If the voltage is correct and the light remains red, it means the pump is working abnormally;
 - d. When the positive and negative poles are reversed, the indicator light is off, the pump does not work, but it will not damage the pump.
2. The top configuration type is equipped with an LCD touch screen, and alarm codes will be displayed when different faults occur, and fault handling is more convenient (the figure below is for illustration

only, please refer to Chapter 5 Alarms and Troubleshooting for details).



2.3 State Memory Function

When the pump is stopped due to abnormal power failure, the pump will continue to run according to the state and speed of the last power-off when the power supply is recovered. When using the knob or touch switch to start a normal working pump, the pump will continue to run at the speed before the last shutdown. (**Note:** This function can only work on the frequency speed control type, knob speed control type and LCD speed control of top configuration type.)

3 Technical Specifications

3.1 Key Specifications

Model	Rated Voltage (VDC)	Load Current (mA)	Flow (L/min)		Relative Vacuum (-kPa)
			Peak Flow (L/min)	Average Flow (L/min)	
C26L	24	≤210mA	≥3.6	≥2.4	≥30
C26M	24	≤210mA	≥3.0	≥1.8	≥26
C26S	24	≤210mA	≥2.0	≥1.2	≥19
C26L	12	≤350mA	≥3.6	≥2.2	≥30
C26M	12	≤330mA	≥2.8	≥1.5	≥26
C26S	12	≤300mA	≥1.8	≥1.1	≥19

- Note:**
1. The input voltage requires $24V \pm 10\%$.
 2. Unless otherwise specified, the technical parameters are measured under the conditions of temperature 25°C and standard atmospheric pressure of 101kPa . For products with other parameters and specifications, you can contact us to customize.
 3. The parameters in the table are measured at the maximum speed of the motor. When the motor speed changes, the pressure/vacuum level is basically unchanged.
 4. The above parameters are measured under the configuration of standard stainless hose connectors. If other types of connectors are configured, the parameters may change slightly.
 5. The average flow rate in the table is the flow rate value measured with a

rotameter and the average flow rate value is measured with a soap film flow-meter.

3.2 Description of Types

Types	Functions and Configuration
Basic Type	Equipped with brushless DC motor, long service life, low electromagnetic interference, and non-adjustable motor speed.
Knob Speed Control Type	Equipped with a working status indicator and speed control knob switch, control the speed, start and stop of the pump through the knob.
Frequency Speed Control Type	Equipped with working status indicator, equipped with a signal port to control the speed, start and stop of the pump through the input frequency signal.
Top configuration Type	Not only equipped with an LCD touch screen to control motor speed and display fault code, but also equipped with speed regulation and feedback signal port.

3.3 List of Models Combination for Sale

Version Type	Simplified Version	Standard Version	Premium Version
Basic Type	√	Customizable	Customizable
Frequency Speed Control Type		√	√
Knob Speed Control Type		√	√
Top Configuration Type			√

Note: √ in the above table means that there is a corresponding product for sale, unchecked means that there is no corresponding product. (The above table does not include customized products).

3.4 Options of Modular Pneumatic Connectors

Connector Option	Material	Recommended Hose/Tube
Default hose connector	reinforced nylon	Silicone hose with inner diameter 4mm
plastic hose connector	PP	Silicone hose with inner diameter 6~7mm
Stainless steel hose connector	Stainless steel	Silicone hose with inner diameter 7~8mm
PC6 push-in connector	Stainless steel	6mm outer diameter hard tube
PC8 push-in connector	Stainless steel	8mm outer diameter hard tube
Nylon Rc1/8 internal thread	reinforced nylon	Install connectors above or other kind of connectors

Note: The products are shipped with reinforced nylon hose connectors by default. If you need to configure other types of connectors, please specify when ordering.

3.5 Description of Versions

Version	Simplified Version	Standard Version	Premium Version
Performance			
Life-time	≥2500h	≥6000h	≥10000h
Reliability	★	★★★★	★★★★★★

Parameter consistency	★	★★	★★★
EMC	★	★★	★★★
Ambient temperature	0~40℃	0~50℃	0~50℃

Note: 1. The more ★, the better performance of this item.

3. 6 Life-time Test Conditions

In a clean, non-corrosive laboratory, the pump carries a full load(the inlet is blocked and the outlet directly connected to the atmosphere), and runs continuously around the clock. The ambient temperature is 5℃ ~ 33℃ and fluctuates with the climate; the relative humidity 30%~85%, fluctuates with the climate.

3. 7 Working Conditions

1.Environment: Permissible ambient temperature range of the simplified version products is 0℃ ~ 40℃ , and the permissible ambient temperature of the standard and premium versions is 0℃ ~ 50℃. The permissible relative humidity of all pumps in this series is ≤ 90%, no condensation. The pump should not be exposed to the sun, and should work in a clean and ventilated environment.

2.Medium: Permissible gaseous media temperature range is 0℃ ~ 50℃ . The medium is allowed to be rich in water vapor, but cannot contain particles or oil mist.

3.Load: The inlet can be operated at full load (i.e completely block the inlet), but the applied load cannot exceed the maximum vacuum of the pump; the outlet must be unobstructed.

Note: 1. Customers who have special requirements for the medium temperature can customize a high-temperature medium model. The customized

high-temperature models are only available in premium versions, such as D35L-43D-GJ (Premium version is equipped with high temperature medium type function, allowing medium gas temperature range: 0°C~100°C)

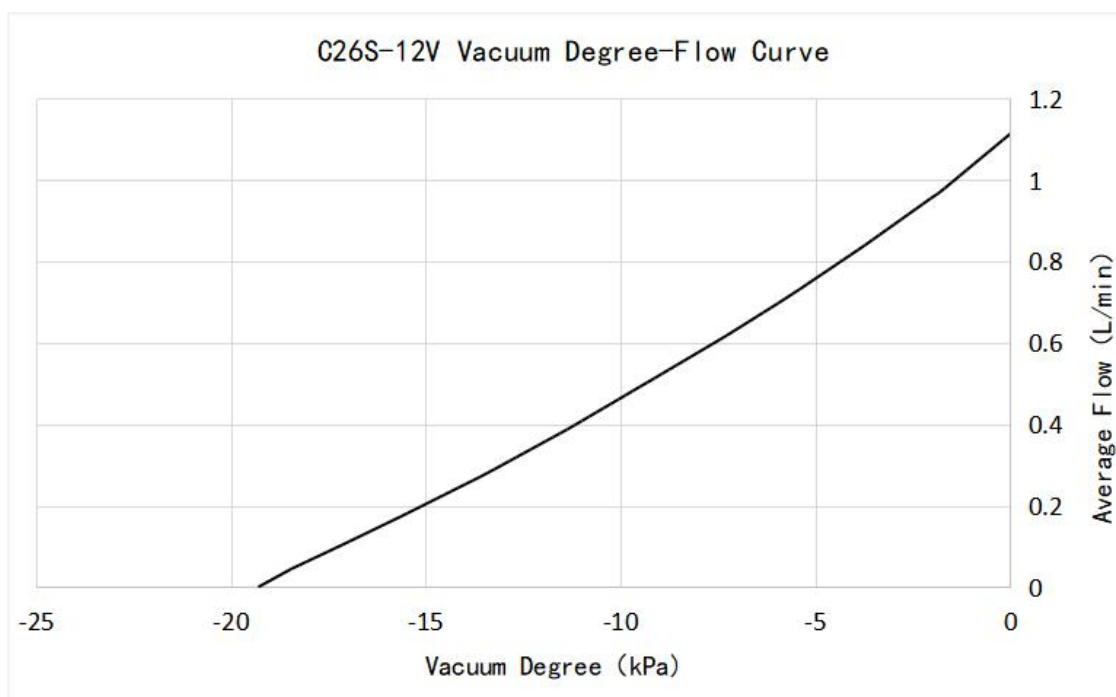
2. The inlet of the micro vacuum pump can carry a large load or even being completely blocked is permissible operation. The outlet of the pump must be unobstructed, and there must be no damping elements in the exhaust pipeline!

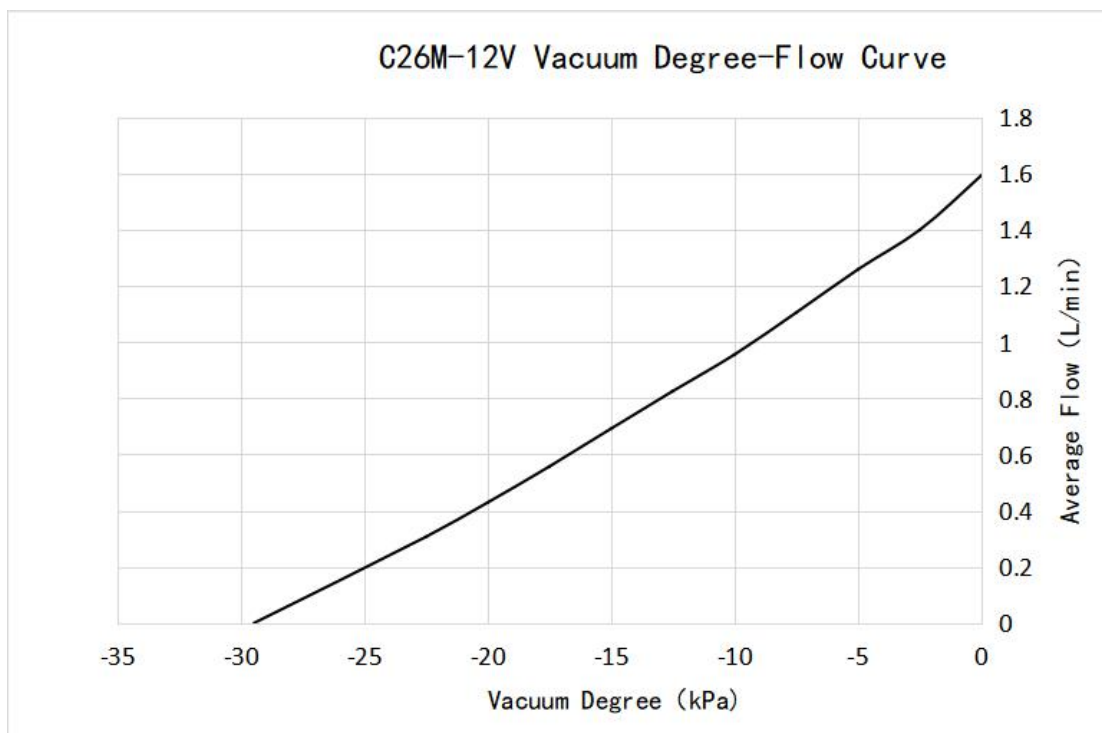
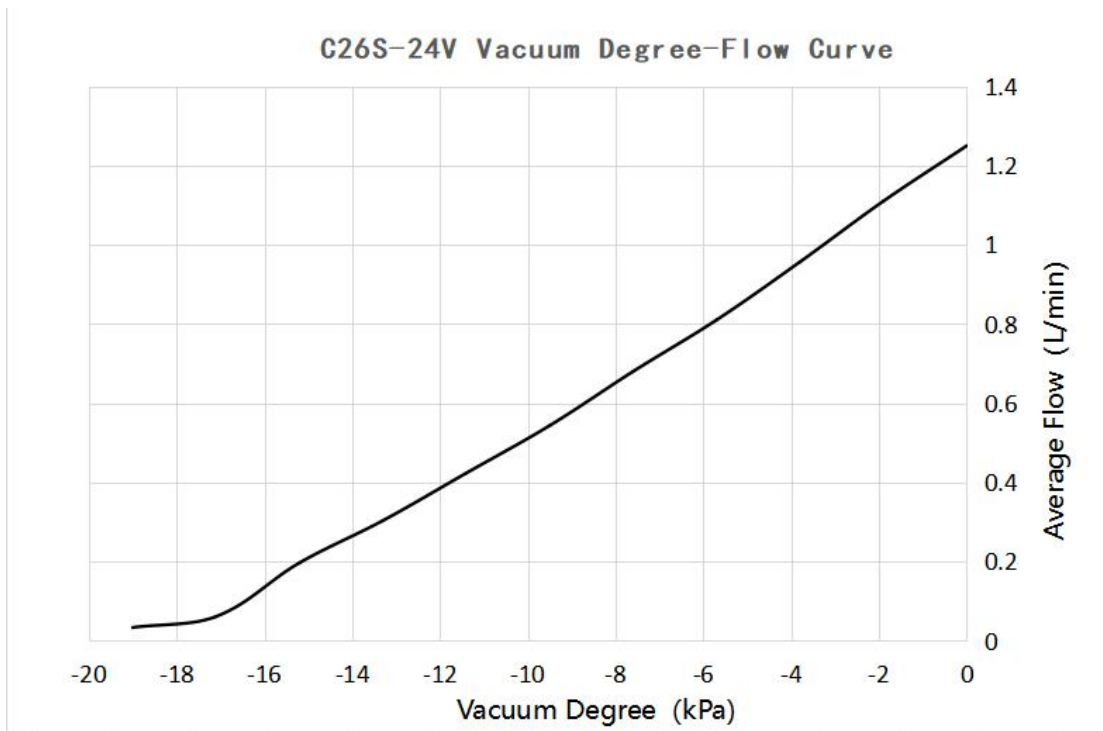
3. 8 Materials

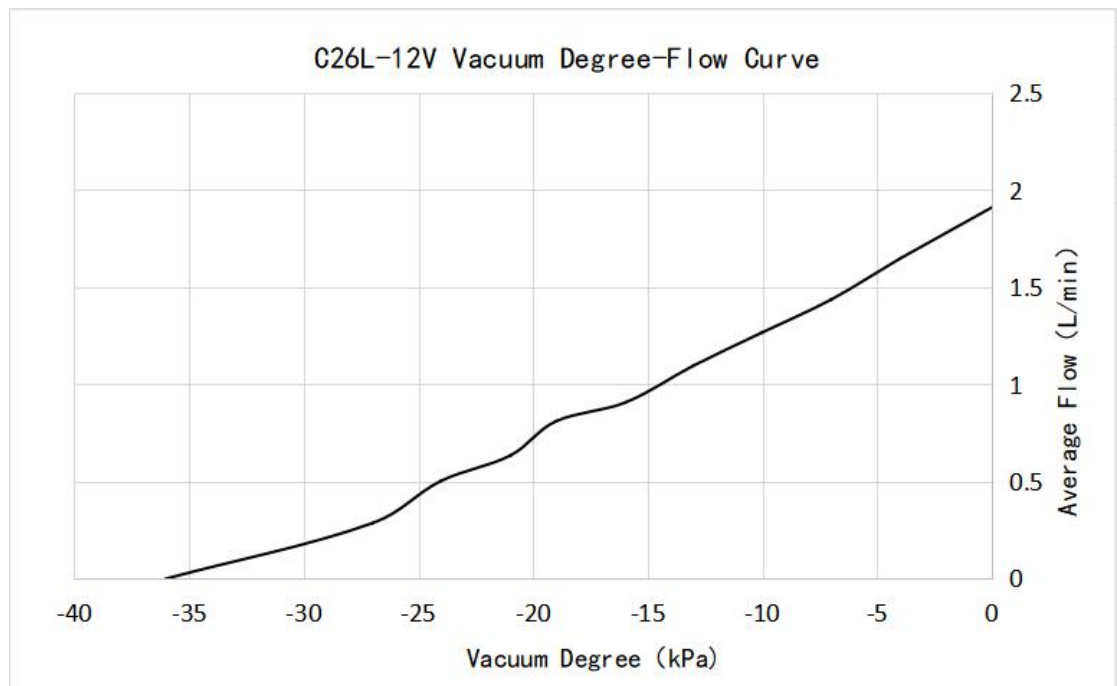
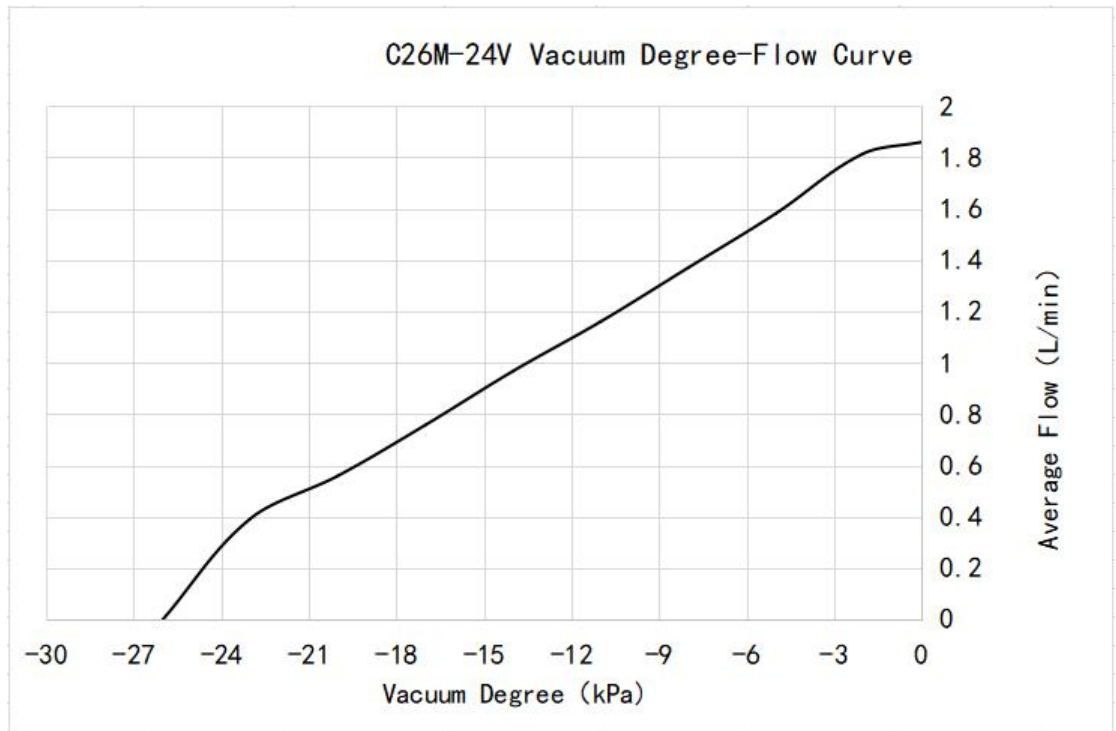
1. The materials of the wetted parts: reinforced nylon and EPDM rubber, stainless steel. Please check the tolerance of the medium according to the wetted material. If you adopt push-in connectors and stainless hose connectors, the material of the wetted parts is stainless steel. For special needs, you can customize or change the material of pneumatic connectors.
2. The material of the pump body is fiber reinforced nylon and the shock absorb foot is PVC.

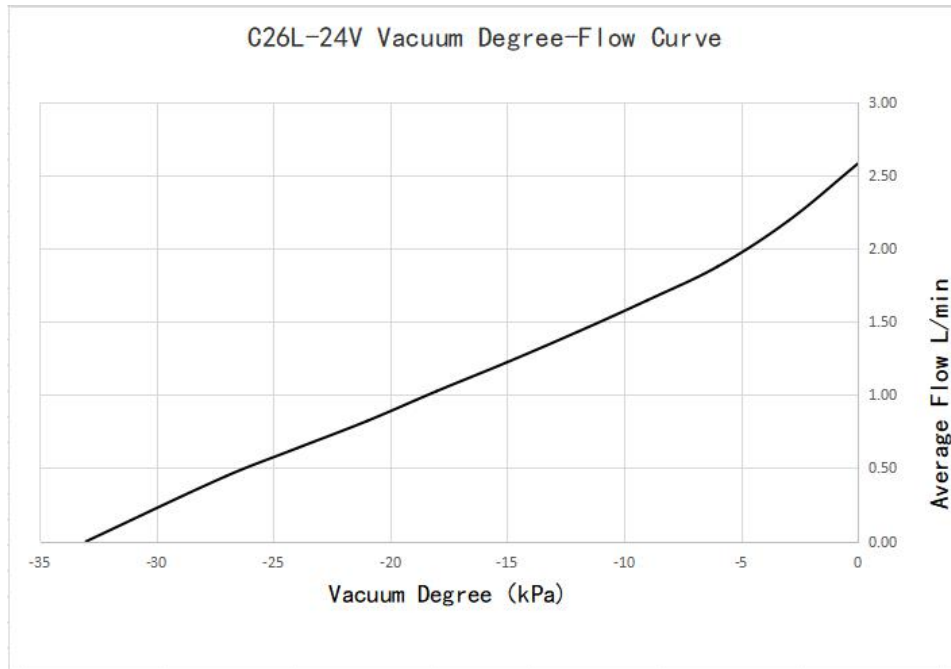
3. 9 Vacuum Degree-Flow Curve

There are individual differences between different micro pumps, so this curve is a statistical value, only used as a technical reference for users to confirm the working point. The "flow" mentioned in this section refers to the "average flow".





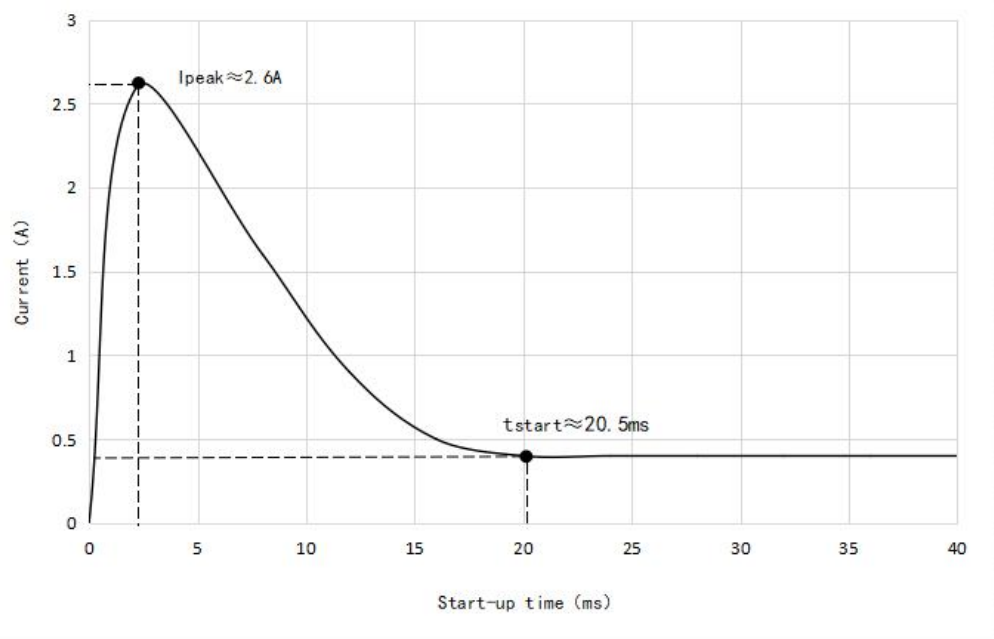


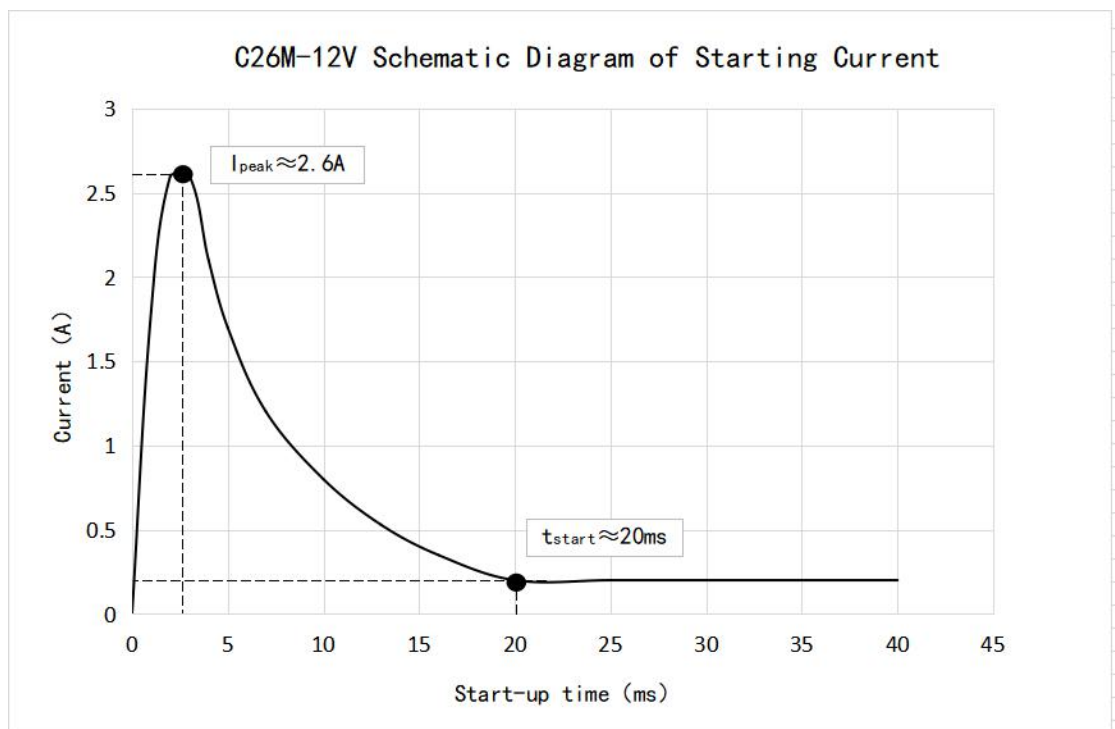
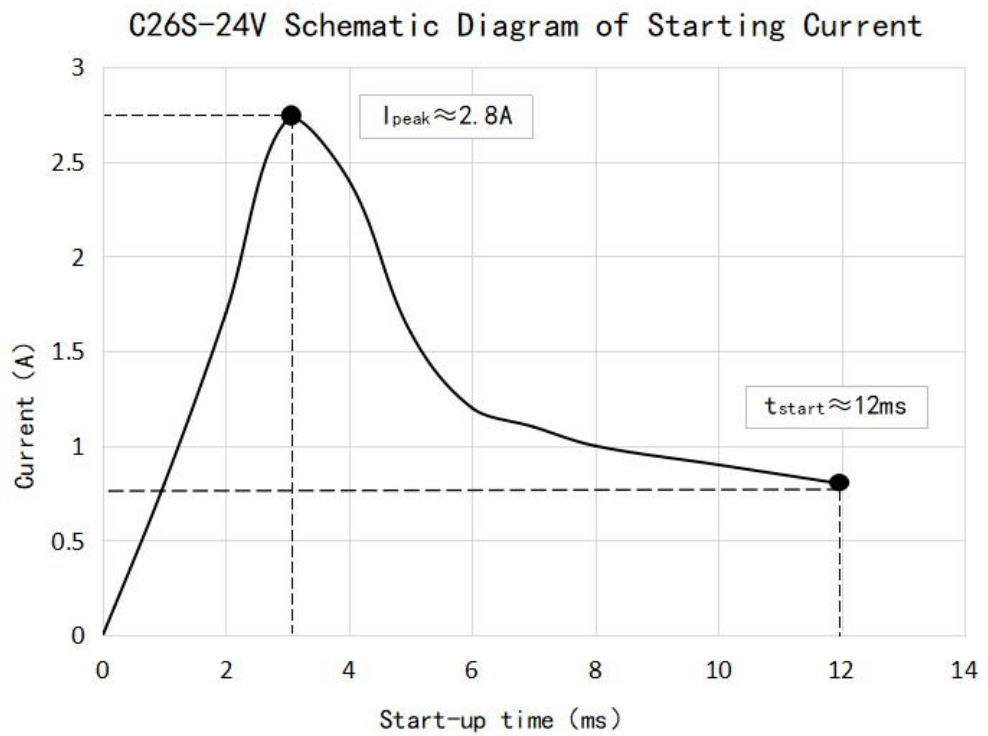


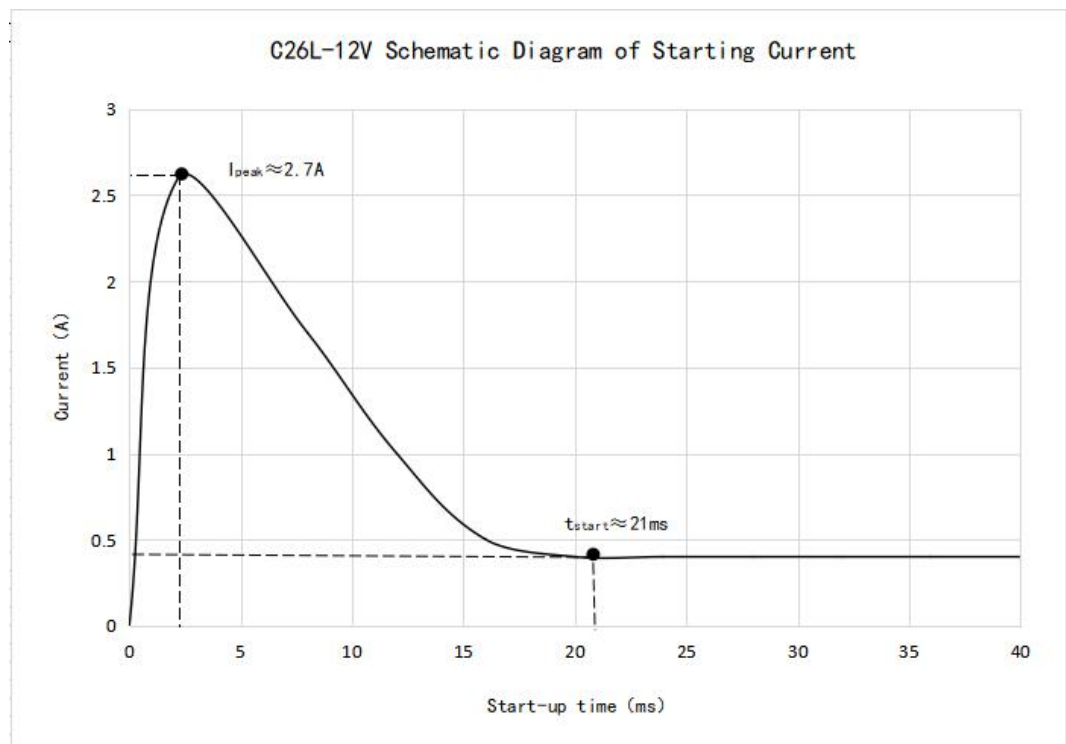
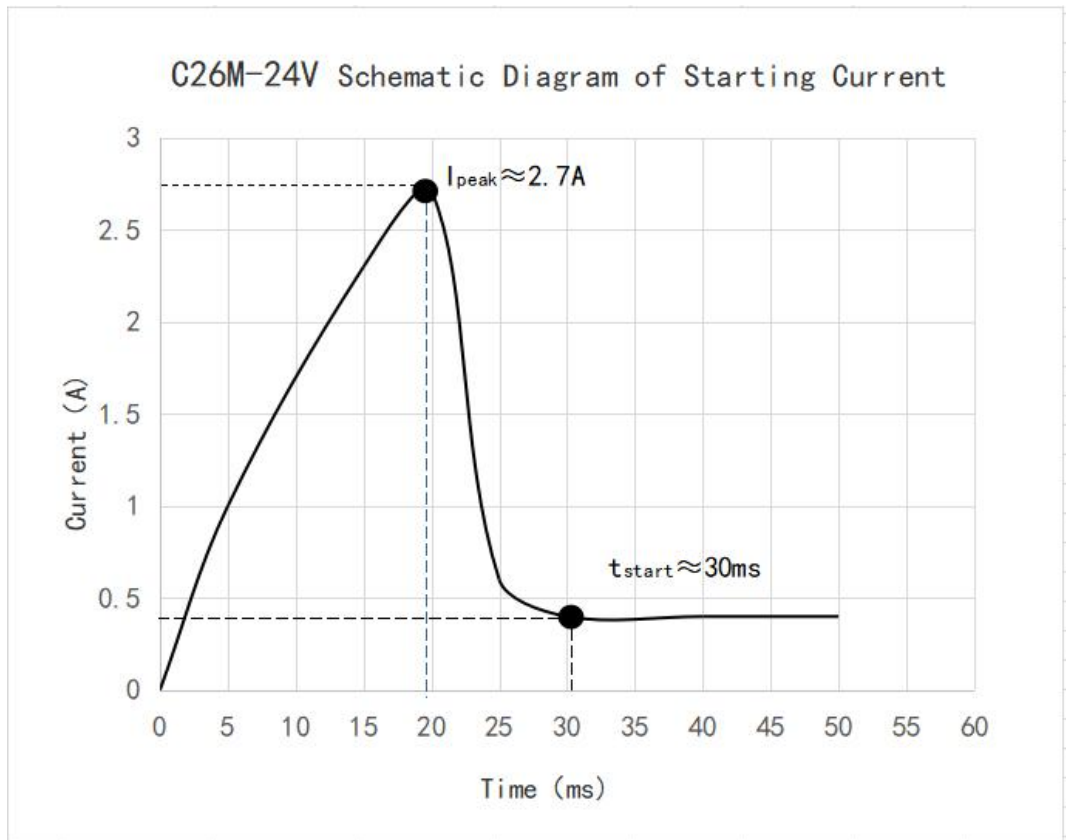
3. 10 Starting Current Curve

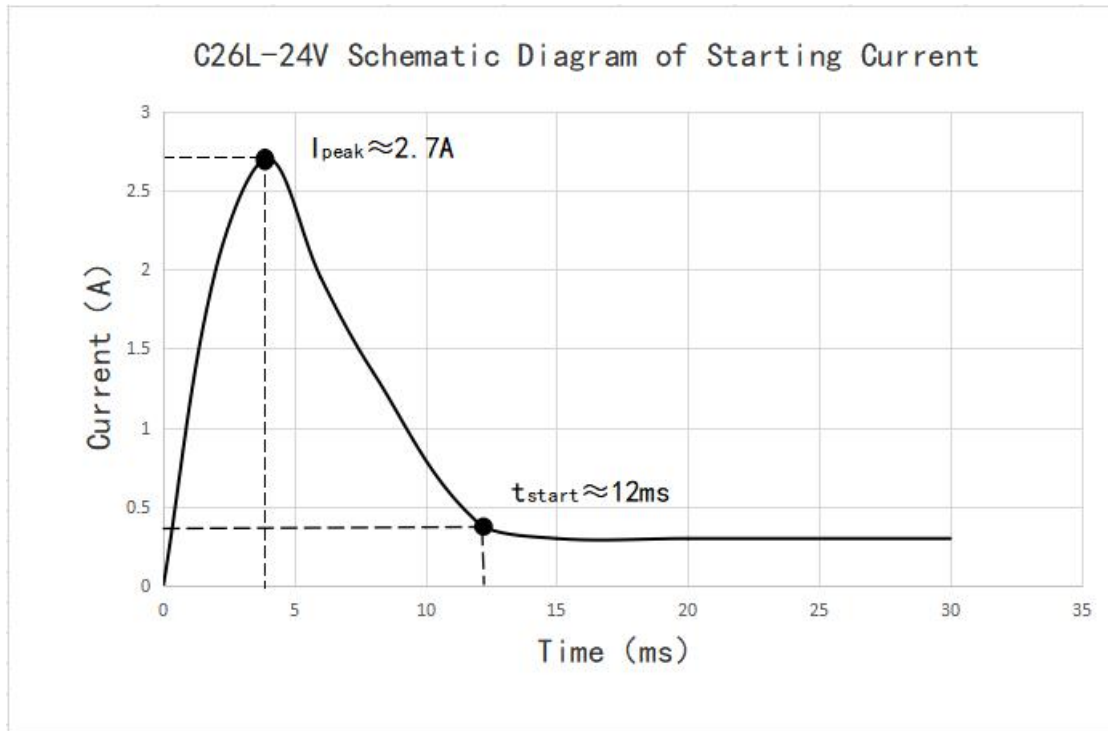
The starting current curve is measured under the working condition that the inlet and outlet are directly connected to the atmosphere, and there are certain individual differences between different micro pumps. This curve is a statistical value, which is only used as a

C26S-12V Schematic Diagram of Starting Current





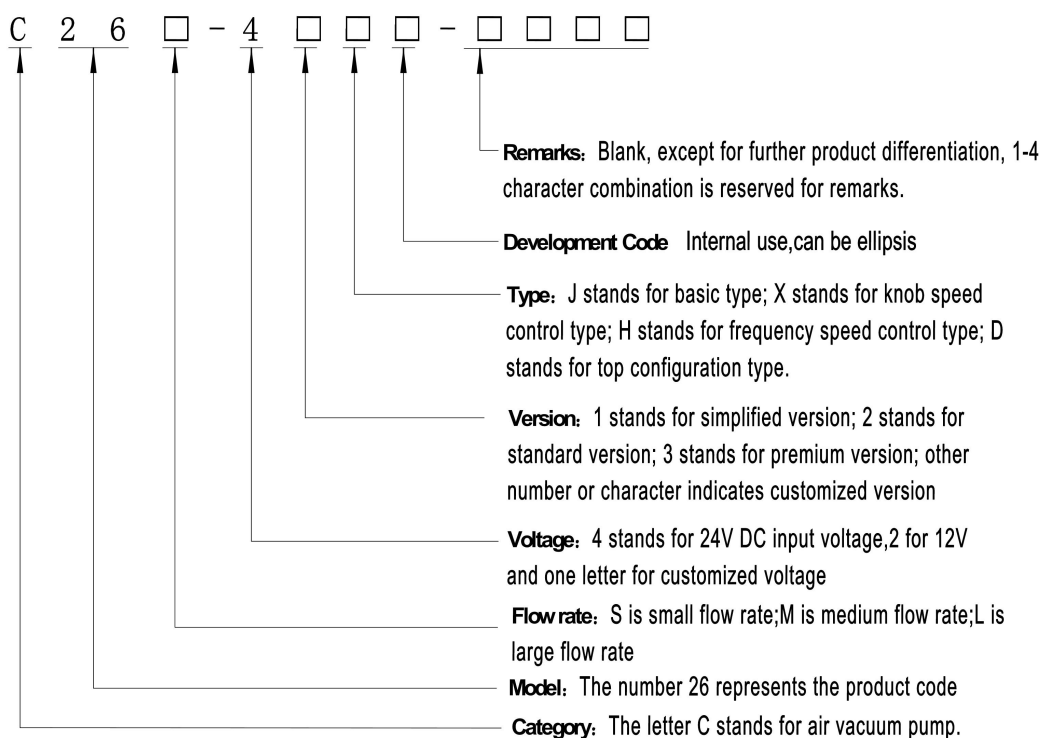




4 Product Model Description

4.1 Brief Description of Model Naming

This series of pumps are divided into four types according to the selected speed control mode: basic type, knob speed control type, frequency speed control type and top configuration type.



Note: If the remarks starts with a letter, it means a special custom function. For example, letter "GJ" means customized high-temperature medium function, and "GH", means customized high-temperature environment function. If it starts with a number, it means other information.

Example 1: C26-21X (C26 pump, 12V voltage knob speed control simplified version)

Example 2: C26-24D-GJ (C26 pump, 12V voltage top configuration type premium version, customized high temperature medium function)

5 Electrical Connection

5.1 Basic Type

Wire	Input	Definition	Explanation
1 Red	VCC	24V or 12V power input	Rated voltage 24V±10% or 12 V± 10%
2 Black	GND	Power Ground	Connect to the negative pole of the DC power

Table 5-1 Wiring Instructions for Basic Type

- Note:**
1. This type is not equipped with the speed control function. Please connect the wiring strictly following the instructions in the table above, otherwise it will damage the motor.
 2. Users must make sure that the input voltage is 24V or 12V before wiring. The wrong input voltage will cause damage to the product and is not covered by the warranty.

5.2 Knob Speed Control Type

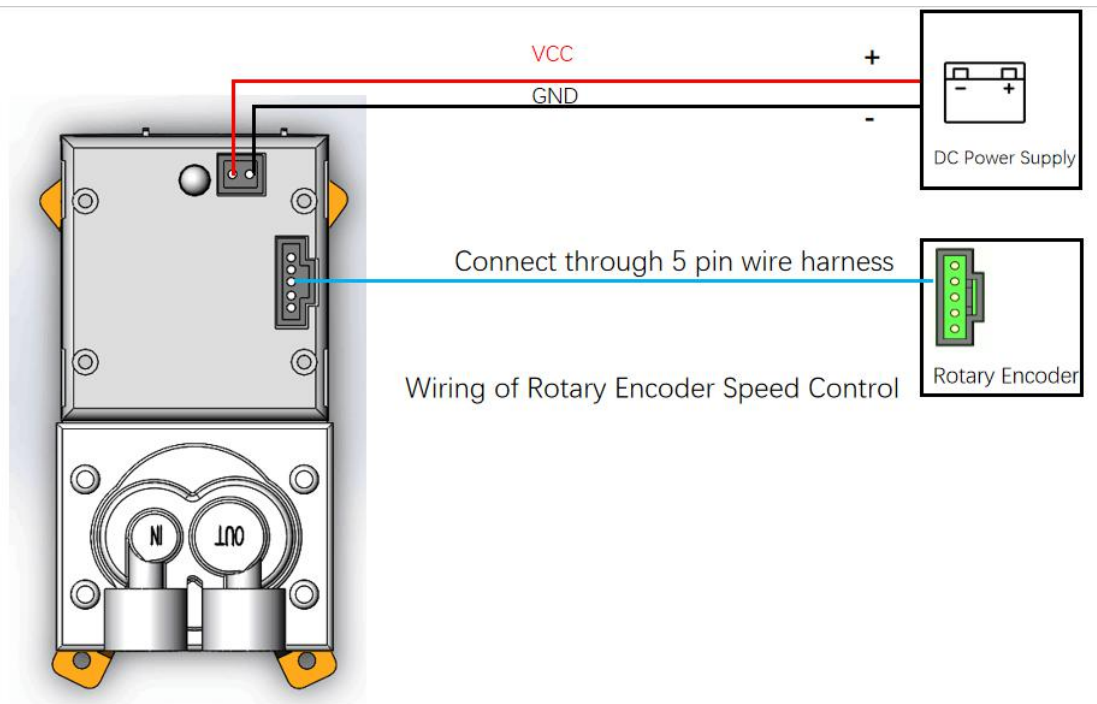


Figure 5-1 Wiring Diagram for Knob Speed Control

Note: The wire color in the above figure may be different from the actual wire color, please connect according to the above figure.

The red wire of the power connector is connected to the positive pole of the DC power supply, the black wire is connected to the negative pole of the power supply, and the speed regulation connector is connected to the knob circuit board through the wiring harness. This pump will be equipped with a speed control knob switch (rotary encoder). Rotate the knob on the encoder clockwise to increase the speed. When it reaches the maximum speed, continue to rotate the knob clockwise, it will remain the maximum value. Rotate the knob counterclockwise to decrease the speed. When it reaches the minimum speed, if continue to rotate the flow counterclockwise, it will remain the minimum flow. Press the knob to control the start and stop of the pump. The pump also has a power-off state memory function. When the pump is started, the pump will run at the speed before the last stop.

Connector	Wire	Input	Definition	Explanation
5Pin	1-5	Knob	Knob speed control	Connect to the knob

Connector		signal	switch connector	speed control switch through the 5Pin harness
2Pin Connector	1	VCC	24V DC Power supply	Rated voltage 24V±10% or 12 V± 10%
	2	GND	DC power ground	Connect to the negative pole of the DC power supply

Table5-2 I/O Interface Definition of Knob Speed Control Type

Attachment: Installation instructions for speed control knob switch

(1) Nut installation: first make a hole with a diameter of about 7mm on the mounting plate, then unscrew the nut on the encoder and remove the gasket, insert the knob of the encoder into the opened hole on the mounting plate, and finally install the gasket and screw back the nut.

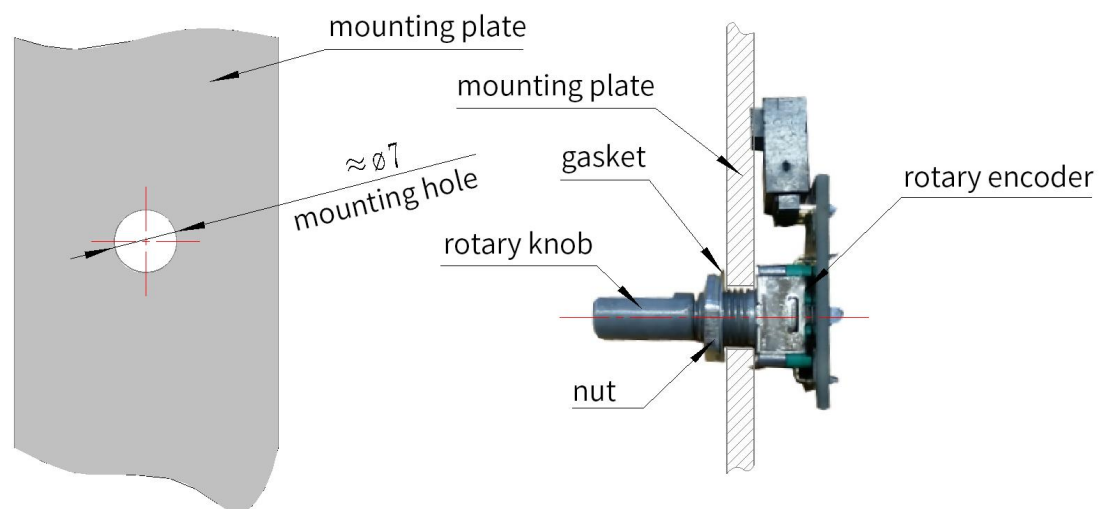


Figure 5-2 Nut Installation

(2) Screw installation: Use two M3 screws to pass through the screw holes and washers of the speed control knob switch, and then fix them to the mounting plate.

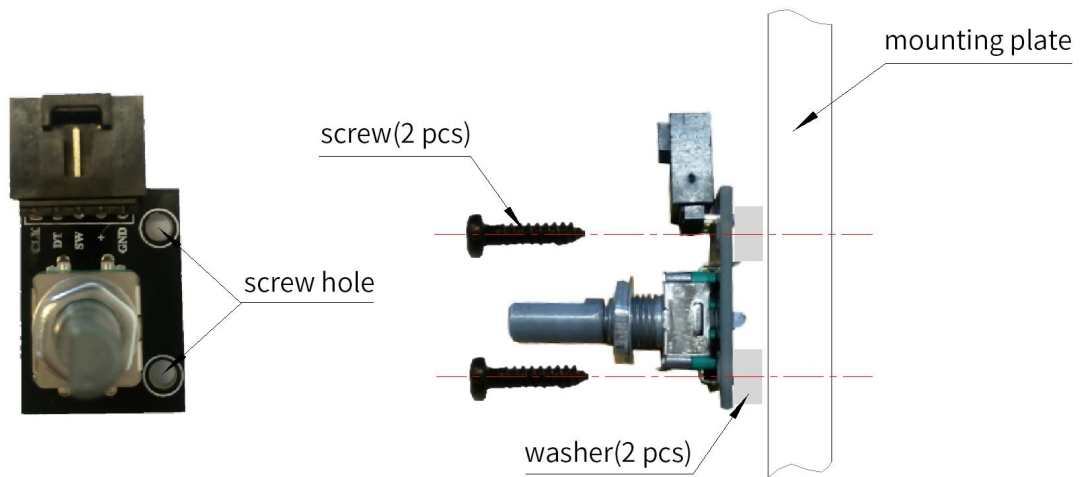


Figure 5-3 Screw Installation

Note: In order to avoid welding protrusions on the back of the speed control knob switch to affect the installation, we have attached two $\Phi 3 \times \Phi 7 \times 3$ insulating washers in the installation accessories. Two M3 screws are usually used for the screws, which need to be prepared by the customer.

5.3 Frequency Speed Control Type

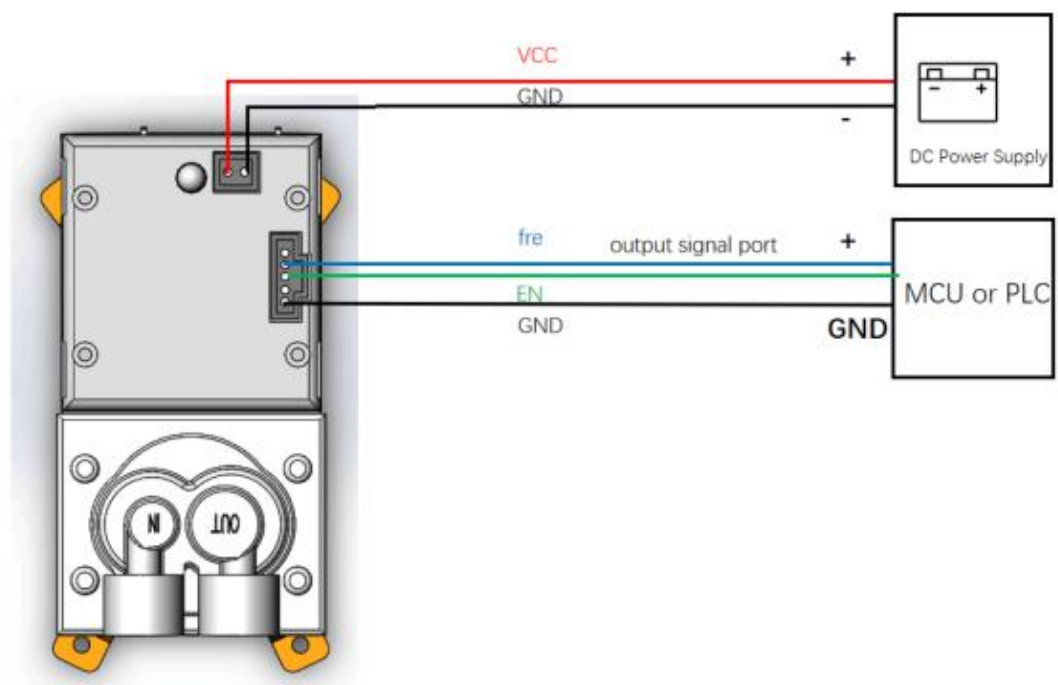


Figure 5-4 Wiring Diagram for Frequency Signal Control

Note: The wire color in the above figure may be different from the actual wire color, please connect according to the above figure.

The red wire of the 2 pin power connector is connected to the positive pole of the DC power supply, and the black wire is connected to the negative pole of the power supply as shown in the above figure. The pin sequence from top to bottom of the speed regulation connector is the same as the actual product as shown in the figure above. The black wire of pin 5 (GND) is connected to the ground of the MCU or PLC. The pin-3 (En) green wire is connected to the low level of the MCU or PLC, and the pin-2 (Fre) blue wire is connected to the frequency signal output port of the MCU or PLC.

Connector	Wire	Input	Definition	Explanation
5Pin Connector	1	NC	Not connected	
	2	Fre	Frequency speed control signal $0V \leq \text{low level} \leq 0.8V$ $3.3V \leq \text{high level} \leq 5V$ Note: Input high level > 3.3V, the maximum input voltage should not exceed 5V, otherwise it may cause permanent damage to the micro pump.	Input the square wave, recommended amplitude value 5V, duty cycle 50% and the DC bias voltage 2.5V. The signal frequency range of 700hz-3100Hz corresponds to motor speed of 700-3100rpm, when $100 < \text{frequency} < 700\text{Hz}$, it runs at the minimum speed, when the $\text{frequency} > 3100\text{Hz}$, it runs at the maximum motor speed, and when the $\text{frequency} \leq 100\text{Hz}$, the pump stops.
	3	EN	Enable signal $0V \leq V_{IL} < 0.8V$ $3.3V \leq V_{IH} \leq 5V$	Enable signal, low level is effective to enter the speed control mode, high level or floating means running at the last recorded speed.
	4	NC	Not connected	
	5	GND	Ground	Power and signal ground
2Pin Connector	1	VCC	24V DC power supply	Rated voltage $24V \pm 10\%$ or $12V \pm 10\%$
	2	GND	Power ground	Connect to the negative pole of power supply

Table 5-3 Interface Definition of Frequency Speed Control

5.4 Top Configuration Type

The top configuration type is not only equipped with an LCD touch screen speed control function and fault display function, but also equipped with a control signal port, as well as frequency speed control function and speed feedback function. The following is a description of the signals corresponding to the wire terminal of the top configuration type.

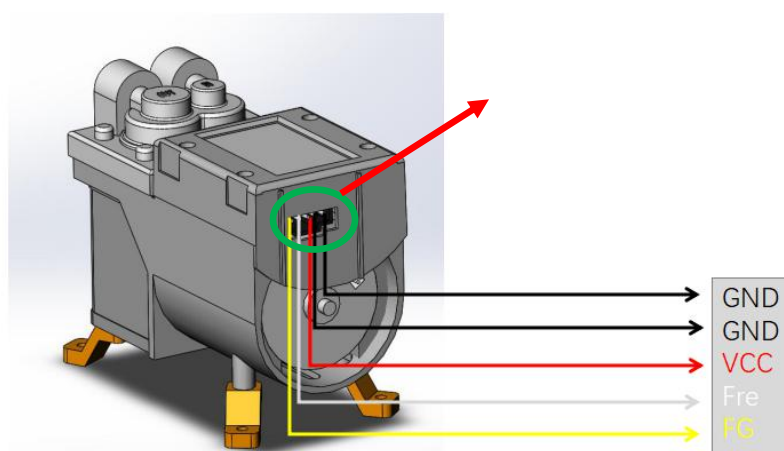


Figure 5-5 Description of Wire Terminal Signal of Top Configuration Type

Wire	Input	Definition	Explanation
1Yellow	Fg	Speed feedback signal $3.3V \leq \text{high level} \leq 5V$ $1 \leq \text{low level} < 0.8V$	The rotation speed of the motor can be obtained through the feedback signal of Fg, and the 6 square waves fed back represents one rotation of the motor.
2White	Fre	Frequency speed control signal $3.3V \leq \text{high level} \leq 5V$ $0 \leq \text{low level} < 0.8V$	Input the square wave, recommended amplitude value is 5V, duty cycle 50% and the DC bias voltage 2.5V. The signal frequency range 700hz-3100Hz corresponds to motor speed of 700-3100rpm, when $100 < \text{frequency} < 700\text{Hz}$, it runs at the minimum speed, when $\text{frequency} > 3100\text{Hz}$, it runs at the maximum motor speed, and when the $\text{frequency} \leq 100\text{Hz}$, the pump stops running.
3Red	VCC	24V or 12V power supply	Rated voltage, differs with models $24V \pm 10\%$ or $12V \pm 10\%$
4Black	GND	Power ground	Connect to the negative pole of power supply

5Black	GND	Power ground	If it is not equipped with our company's adaptable power supply, it is recommended that this ground wire is reliably grounded to make the system more stable.
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Table 5-4 Interface Definition of Top Configuration Type

- Note:**
1. In order to prevent the start-stop button on the touch screen from being accidentally touched, it is necessary to hold a certain area during operation and long press to trigger.
 2. If the user who purchases the top configuration type does not use our matching power supply, it may cause interference to the operation of the pump. Reliable grounding helps improve operational reliability!
 3. If the wire sequence color of the accessory wires does not correspond to the table, please check the cable definition and connect according to the sequence!

There are two speed control modes for the top configuration type: (1) LCD speed control and (2) frequency speed control. The following is the wiring instructions for the two speed control methods.

1. Wiring Description Using LCD Touchscreen

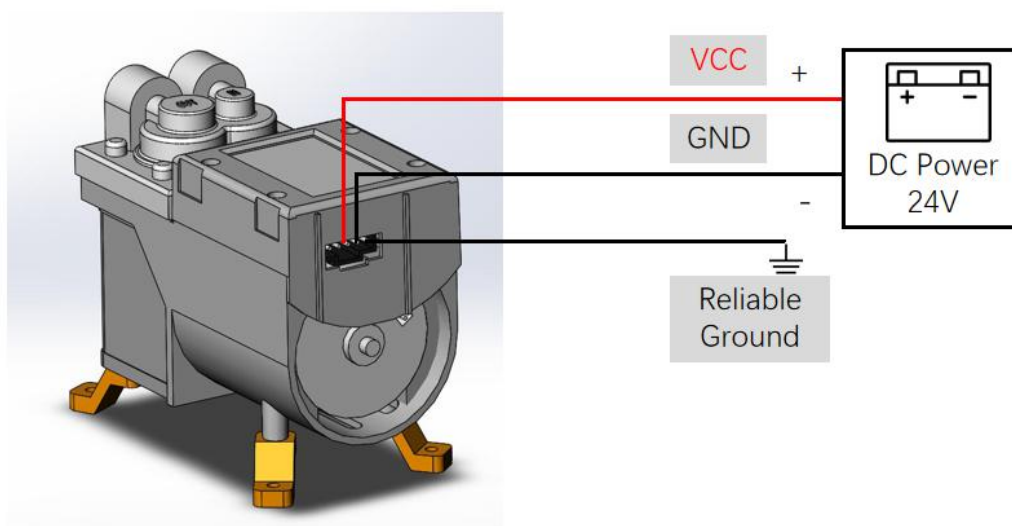


Figure 5-6 Wiring Description Using LCD Touchscreen

The red wire at the power connector is connected to the positive pole of the 24V DC power supply, and the black wire is connected to the negative pole of the power supply. Control the pump operation by controlling the LCD screen.

Note: 1. In order to prevent the start-stop button on the touch screen from being accidentally touched, it is necessary to hold a certain area during operation and long press to trigger.

2. If the user who purchases the top configuration type does not use our matching power supply, it may cause interference to the operation of the pump. Reliable grounding of Pin-5 wire helps improve operational reliability!

2. Wiring Description Using Frequency Speed Control

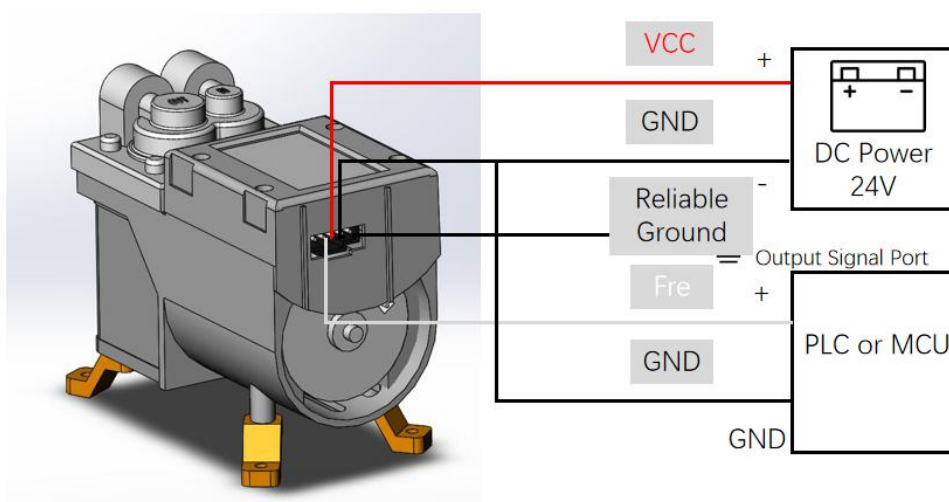


Figure 5-7 Wiring Description Using Frequency Signal

The red wire at the power connector is connected to the positive pole of the DC power supply, and the black wire is connected to the negative pole of the power supply. If not using our standard adapter, it is recommended that this ground wire be reliably grounded to make the system more stable. Fre is connected to the frequency signal output port of the PLC or MCU, and GND is connected to the grounding port of the MCU or PLC. Control the pump running speed by adjusting the frequency of the square wave.

3. Frequency Signal Definition

The signal frequency 700hz-3100Hz corresponds to motor speed of 700-3100rpm, when $100 < \text{frequency} < 700\text{Hz}$, it runs at the minimum speed, when $\text{frequency} > 3100\text{Hz}$, it runs at the maximum motor speed, and when the $\text{frequency} \leq 100\text{Hz}$, the pump stops running. $3.3\text{V} \leq$ high level amplitude.

5.5 Alarms and Troubleshooting

Working Condition	Alarm Definition	Error Code	Possible Reason	Troubleshooting
Power supply over voltage	"power" flashing	EE01	The output voltage of the DC power supply is greater than the normal voltage range.	1.Check whether the output voltage of the power supply is consistent with the product label, and power on again. 2.If there are frequent alarms, please contact customer service.
Power supply under voltage	"power" flashing	EE02	The output voltage of the DC power supply is less than the normal voltage range.	1.Check whether the output voltage of the power supply is consistent with the product label, and power on again. 2.If there are frequent alarms, please contact customer service.
Insufficient output power	"power" flashing	EE03	The output power of the DC power supply cannot meet the pump running power requirements or power supply output stability is poor.	1. Replace the DC power supply with higher output power. 2. If there are frequent alarms, please contact customer service.
Abnormal motor stop	"motor" flashing	EE31	Motor stall, speed feedback abnormal	1.Check whether the pipeline load is normal (reduce the running load of the pump), and power on again. 2.If there are frequent alarms, please contact customer service.
Large motor speed deviation	"motor" flashing	EE32	Deviation between the actual motor speed and the set speed is too large.	1.Check whether the pipeline load is normal (reduce the running load of the pump), and power on again. 2.If there are frequent alarms, please contact customer service.

Table 5-5 Fault Code Definition of Top Configuration Type

Note: 1. The above fault alarm codes are only applicable to the top configuration type.

6

Cautions

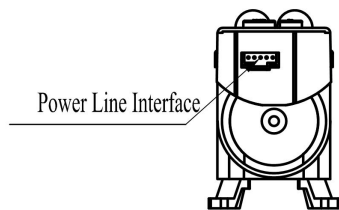
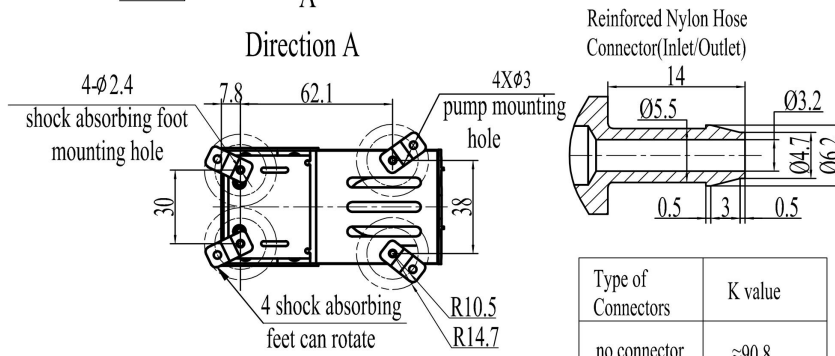
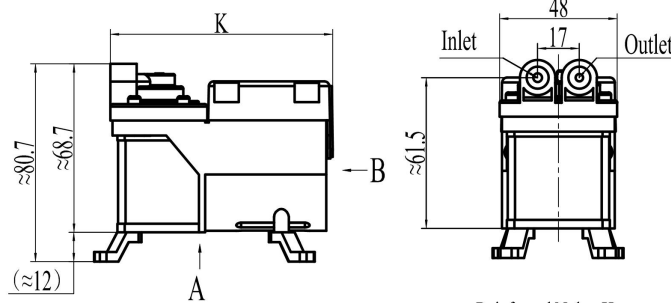
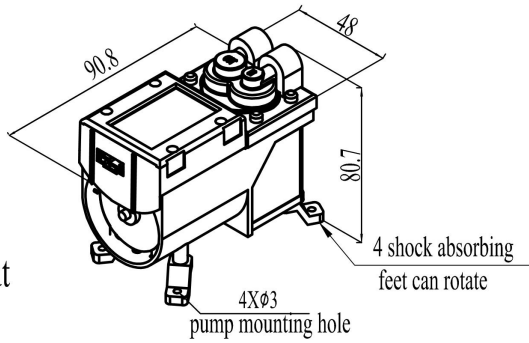


Please read the instructions in this chapter carefully and follow the instructions strictly before use.

- 1. This product has no waterproof, dust-proof, and explosion-proof functions and cannot be used in flammable and explosive environments!**
- 2. Foreign matter must not fall into the pneumatic connectors, and there should be no solid particles in the medium, otherwise it will damage the micro pump!**
- 3. When this product is used to transfer harmful medium, it must be double-sealed to ensure personal safety!**
- 4. The matching piping components and containers must have sufficient strength to ensure personal safety!**
- 5. Built-in precision control circuit, need to use high-quality DC power supply to power the pumps!**
- 6. If this series of pumps do not use the matching power supply, it may cause interference to the operation of the pump. Please follow the instructions strictly!**
- 7. Before wiring, the user should ensure that the input voltage is 24V or 12V according to the nameplate label. The wrong input voltage will cause damage to the product and is not covered by the warranty.**
- 8. Oil mist, high-viscosity liquids and liquids that are easy to precipitate and crystallize are not permissible!**
- 9. Please operate strictly in accordance with the requirements of this user guide!**

7 Dimensions

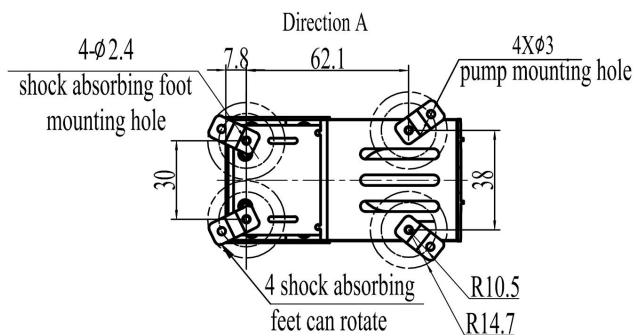
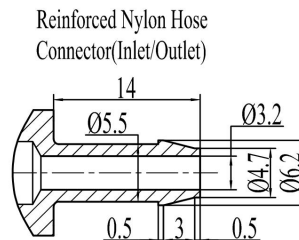
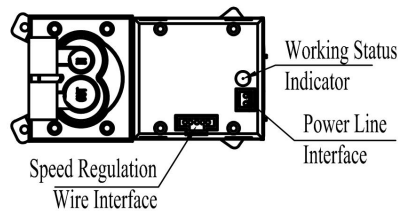
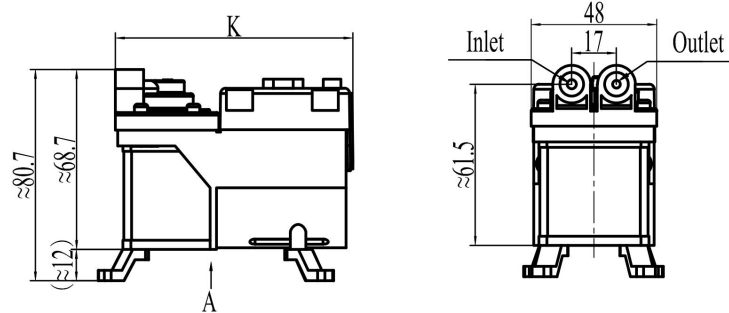
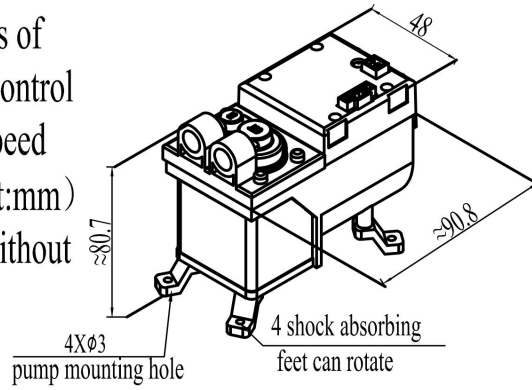
Overall Dimensions of
C26 Top Configuration
Type (unit:mm)
Outline Drawing Without
Connectors



Type of Connectors	K value
no connector	≈90.8
Push-in Connector	6mm 90.8+X(≈105 ^①)
	8mm 90.8+X(≈107 ^②)
Stainless Steel Hose Connector	90.8+Y(≈108 ^③)
Reinforced Nylon Hose Connector	90.8+Z(≈108 ^④)

Size of ①②③④ is related to the pneumatic connectors and its installation dimensions, for reference only, the error may be a few millimeters

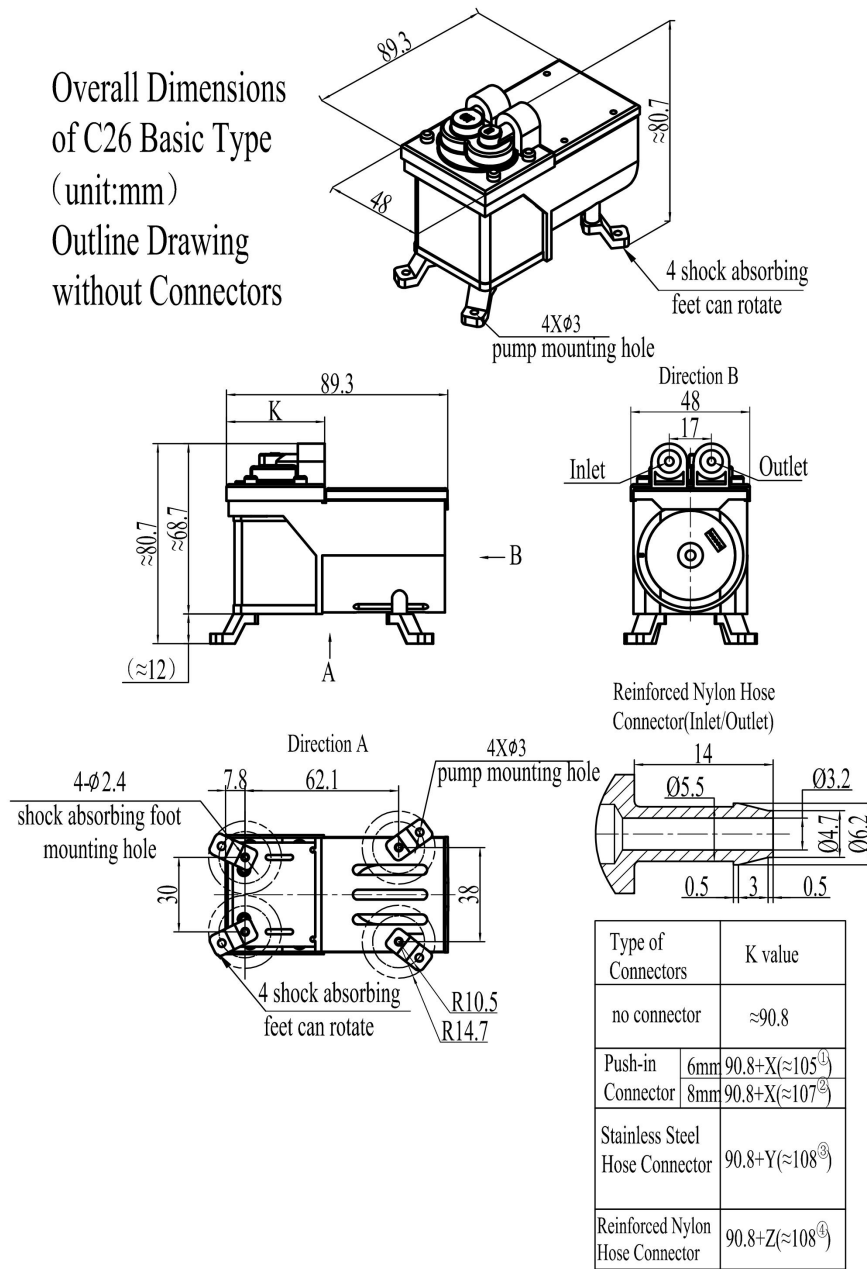
Overall Dimensions of
C26 Knob Speed Control
Type/Frequency Speed
Control Type (unit:mm)
Outline Drawing without
Connectors



Type of Connectors	K value
no connector	≈90.8
Push-in Connector	6mm 90.8+X(≈105 ^①)
	8mm 90.8+X(≈107 ^②)
Stainless Steel Hose Connector	90.8+Y(≈108 ^③)
Reinforced Nylon Hose Connector	90.8+Z(≈108 ^④)

Size of ①②③④ is related to the pneumatic connectors and its installation dimensions, for reference only, the error may be a few millimeters

Overall Dimensions
of C26 Basic Type
(unit:mm)
Outline Drawing
without Connectors



Size of ①②③④ is related to the pneumatic connectors and its installation dimensions, for reference only, the error may be a few millimeters

Installation instructions:

1. The screws on the pump cannot be removed, otherwise it will damage the pump;
2. The mounting holes are self-tapping screw holes, not suitable for repeated tightening and disassembly, otherwise the installation will be loose and unreliable.

8

Appearance

C26 Top Configuration Type



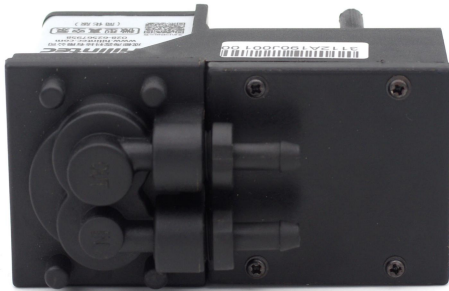


C26 Frequency Speed Control Type, Knob Speed Control Type





C26 Basic Type





Note: The appearance of the above-mentioned pneumatic connectors differs with optional configurations.