Flow Rates Peristaltic Pump

V6-12L

V6-6L

V6-3L

304 SS Housing

Features

Large flow rate, high precision, intelligent control of liquid transferring.

Servo motor drive, accurate control, strong driving force.

304 stainless steel housing, the first choice for high level industrial sites.

Model Number

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

Technical Specifications

Flow rate range	V6-3L: 0.211~3600 mL/min	Start/stop,direction signal	Passive switch signal, such as foot pedal switch
	V6-6L: 0.3~6000 mL/min		Active switch signal: 5V, 12V and 24V for option
	V6-12L: 0.00069~12 L/min	Communication interface	Rs232, RS485 support MODBUS protocol (RTU mode)
Speed range	0.1-600 rpm	Output interface	Output motor working status (Open-Collector output)
Speed resolution	0.01 rpm	Power supply	AC 220V±10% 50Hz/60Hz (standard)
Flow rate resolution	0.01 mL		AC 110V±10% 50Hz/60Hz (optional)
Flow rate accuracy	<±0.5%	Drive dimension	V6-3L: 223×152×200mm
Back suction angle	0-360°		V6-6L: 283×192×218mm
Outlet pressure	0.3 Mpa		V6-12L: 302×222×275mm
Motor type	Servo motor	Drive weight	V6-3L: 5.02kg; V6-6L: 7.85kg; V6-12L: 13.14kg
Display	Industrial grade 4.3" color LCD display	Power consumption	V6-3L: <80W ; V6-6L: <180W ; V6-12L: <300W
Control method	Touch screen and Mechanical keypad	Environment temperature	0-40℃
Keypad lifetime	300,000 times	Relative humidity	<80%
External speed control signal	0-5V,0-10V,4-20mA	IP rate	IP31

Product Composition and Flow Rate Range

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

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

| External control interface definition

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

1	2	3	4	5	6	7
0-10V 0-5V 4-20mA I_/V_	+5V GD1 GD2	NC CW\CCW R/S2	R/S1 COM	OUT1 OUT2	GND TXD RXD	GD1 A+ B-

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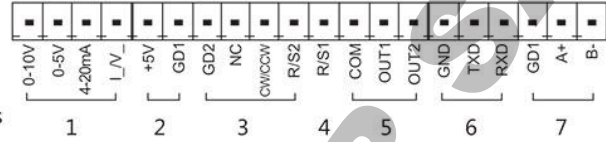
V Series peristaltic pump external control setting interface.

| Choose external control start/stop,direction signal

1. Can respectively set external control start/stop or reversing switch whether effective or not.
2. Can choose control mode according to requirement: pulse mode or level mode.
3. Can set the foot switch whether effective or not.
4. Can choose switch value signal 's high level values according to customers' main control equipment: 5V(default),12V,24V.
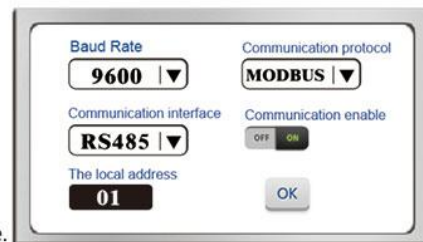
External Control Way: Pulse signal ▼
External control start/stop: OFF | ON
Foot Pedal: OFF | ON
External control direction: OFF | ON
OK

| Programmable external control speed setting

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

Analog control speed signal: 0-5V ▼
Whether to start: OFF | ON
0V relative speed: 0.00 rpm
Working speed limit: ☑ 10.00 rpm
5V relative speed: 600.00 rpm
OK
RECOMMEND

| Communication setting

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

Baud Rate: 9600 ▼
Communication protocol: MODBUS ▼
Communication interface: RS485 ▼
Communication enable: OFF | ON
The local address: 01
OK

Installation Sizes Drawing(Unit: mm)

V6-3L — 200, 231, 152, 223, 286

V6-6L — 218, 274, 192, 283, 347

V6-12L — 275, 331, 222, 302, 394