

Flow Rates Peristaltic Pump

LabV1, LabV3, LabV6



LabV1, LabV3, LabV6

Laboratory

Industrial equipment supporting



Suitable Pump Head



YZ1515x



YZ2515x



MC Series



DG Series

Industrial grade 4.3" true color LCD screen, touch screen control, both Chinese and English interface available.

Dynamic display transferring status. Flow rate data, setting parameters and system configuration display in the same screen.

3 Kinds of working mode: fixed volume metering, fixed time and volume, timer start and stop, meet different transferring and dispensing request.

Intelligent calibration function and online micro adjusting function.

Flow Rates Peristaltic Pump

V1, V3, V6

3 years warranty

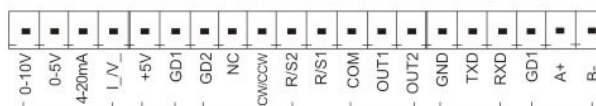


V1, V3, V6

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External Control Schematic Diagram



Technical Specifications

Flow rate range	LabV1/ V1: 0.000166~570 mL/min LabV3/ V3: 0.000166~1330 mL/min LabV6/ V6: 0.000166~2280 mL/min	Start/stop, direction signal	Passive switch signal, such as foot pedal switch Active switch signal: 5V, 12V and 24V for option
Speed range	0.1-600 rpm	Communication interface	RS232, RS485 support MODBUS protocol (RTU mode), Output motor working status
Speed resolution	0.01 rpm	Output interface	(Open-Collector output)
Flow rate resolution	0.01 μ l	Power supply	AC 220V $\pm$ 10% 50Hz/60Hz (standard) AC 110V $\pm$ 10% 50Hz/60Hz (optional)
Flow rate accuracy	< $\pm$ 0.5%	Drive dimension (L $\times$ W $\times$ H)	LabV Series: 261.4 $\times$ 157.3 $\times$ 236.9 mm V Series: 219.6 $\times$ 152 $\times$ 211.6 mm
Back suction angle	0-360°	Drive weight	LabV Series: 4.40 kg V Series: 4.20 kg
Outlet pressure	0.1Mpa (0.8-1.0mm wall thickness tubing) 0.1-0.27Mpa (1.6-2.4mm wall thickness tubing)	Power consumption	< 50W
Motor type	Stepper motor	Condition temperature	0-40°C
Display	Industrial grade 4.3" LCD color display	Relative humidity	< 80%
Control method	Touch screen and Mechanical keypad	IP rate	IP31
Keypad lifetime	300,000 times		
External speed control signal	0-5V, 0-10V, 4-20mA for option		

Product Composition and Flow Rate Range

Flow Rates Peristaltic Pump		Pump Head & Flow Rate (mL/min)			
		YZ1515x	YZ2515x	MC1~MC12(10)	MC1~MC12(6)
Drive & speed	Tubing	13#, 14#, 19#, 16#, 25#, 17#, 18#	15#, 24#	Inner diameter: 0.13-3.17mm Wall thickness: 0.8-1mm	
LabV1/V1	0.1-150rpm	0.007~570	0.17~435	0.000166-49(suggest working rotating speed $\leq$ 150rpm)	0.000185-65(suggest working rotating speed $\leq$ 150rpm)
LabV3/V3	0.1-350rpm	0.007~1330	0.17~1015		
LabV6/V6	0.1-600rpm	0.007~2280	0.17~1740		

The diagram illustrates the main control interface and several sub-interfaces for the peristaltic pump:

- Main Interface:** Displays flow rate (16.00 mL/min), speed (19.51 rpm), volume (5.00 mL), time (5.00 s), and current volume (0.00 mL). It includes icons for Setting, Calibration, Date & Time, Volume, Dispensing, and Timing.
- Flow Setting Interface:** A keypad for setting the flow rate, showing 100.00 mL/min.
- External Control Speed Setting Interface:** Allows setting analog control speed signals (0-5V, 0V, 5V) and working speed limits (0.00, 10.00, 600.00 rpm).
- Fixed Volume Measurement Setting Interface:** Shows fixed volume measurement settings, including volume (2.00 L) and a note about flow rate and time.
- Fixed Time and Volume Setting Interface:** Shows fixed time and volume settings, including running time (1.00 s), copy numbers (25), setting volume (10.00), and pause time (2.00).
- Timer Start and Stop Setting Interface:** Shows timer settings for start time (08:30:00 AM) and over time (05:30:00 PM), with options for Once or Custom.

