

Explosion Proof Peristaltic Pump

Model No.: ExD-600-12L/YZ35

Flow Rate: 0.7-12000mL/min



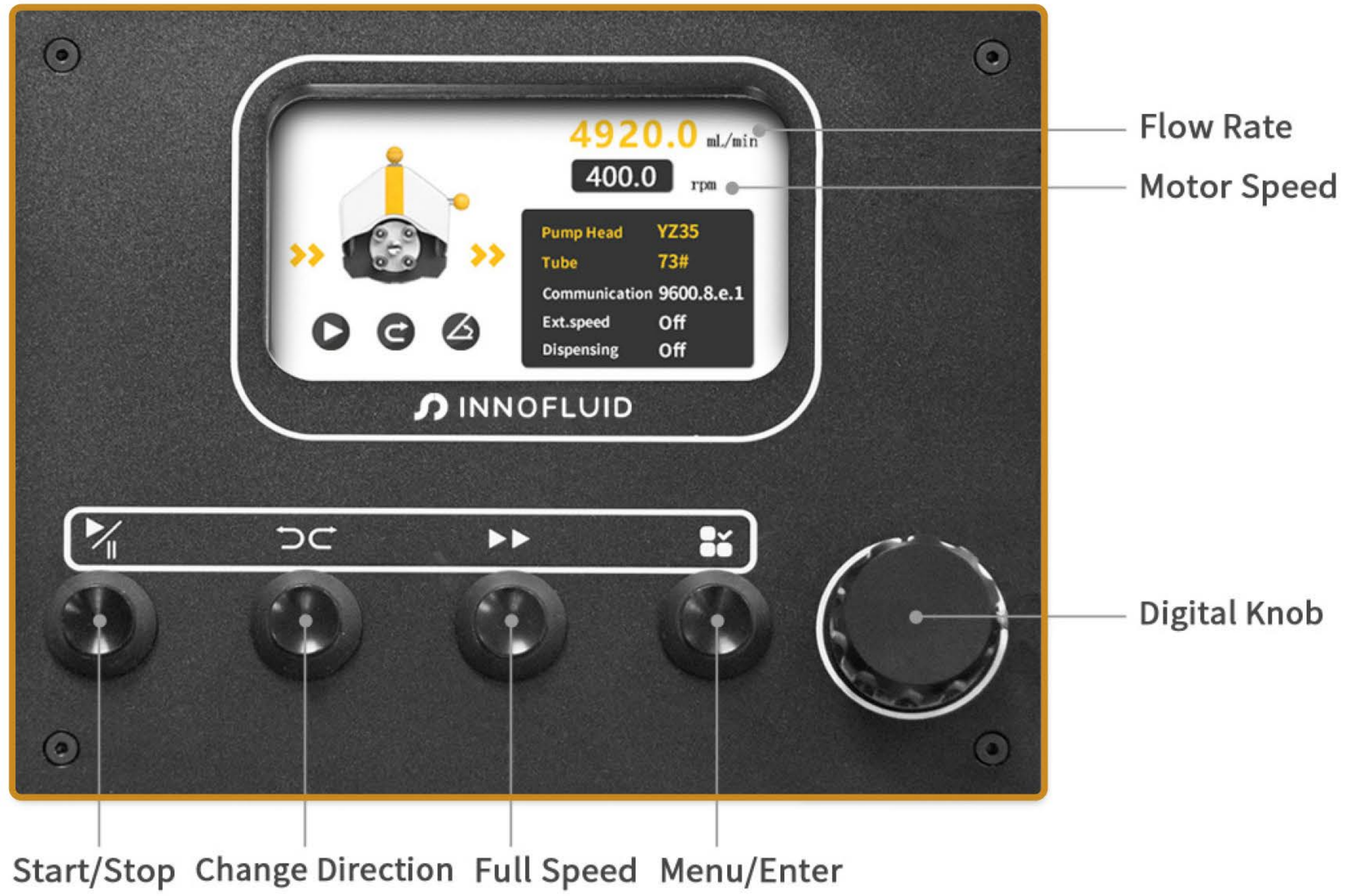
Product Introduction

- A new category of peristaltic pump based on explosion proof standards.
- The whole pump is explosion proof, reaching Ex db IIC T4Gb and Ex tb IIC T130°C Db explosion proof levels at the same time.
- Intelligent control system to realize high precision transferring and dispensing.

Product Features

1. Integrated casting body .
2. IP66 designed for industrial environment.
3. Three-proof buttons and knob system: explosion-proof dustproof, waterproof.
4. Intelligent operation system.
5. Passed EMC test excellent anti-electromagnetic interference capability.
6. AC servo motor control system.
7. Laser engraving logo pattern to eliminate the hidden danger of static electricity of traditional plastic label.

■ Main Interface



■ Pump Head



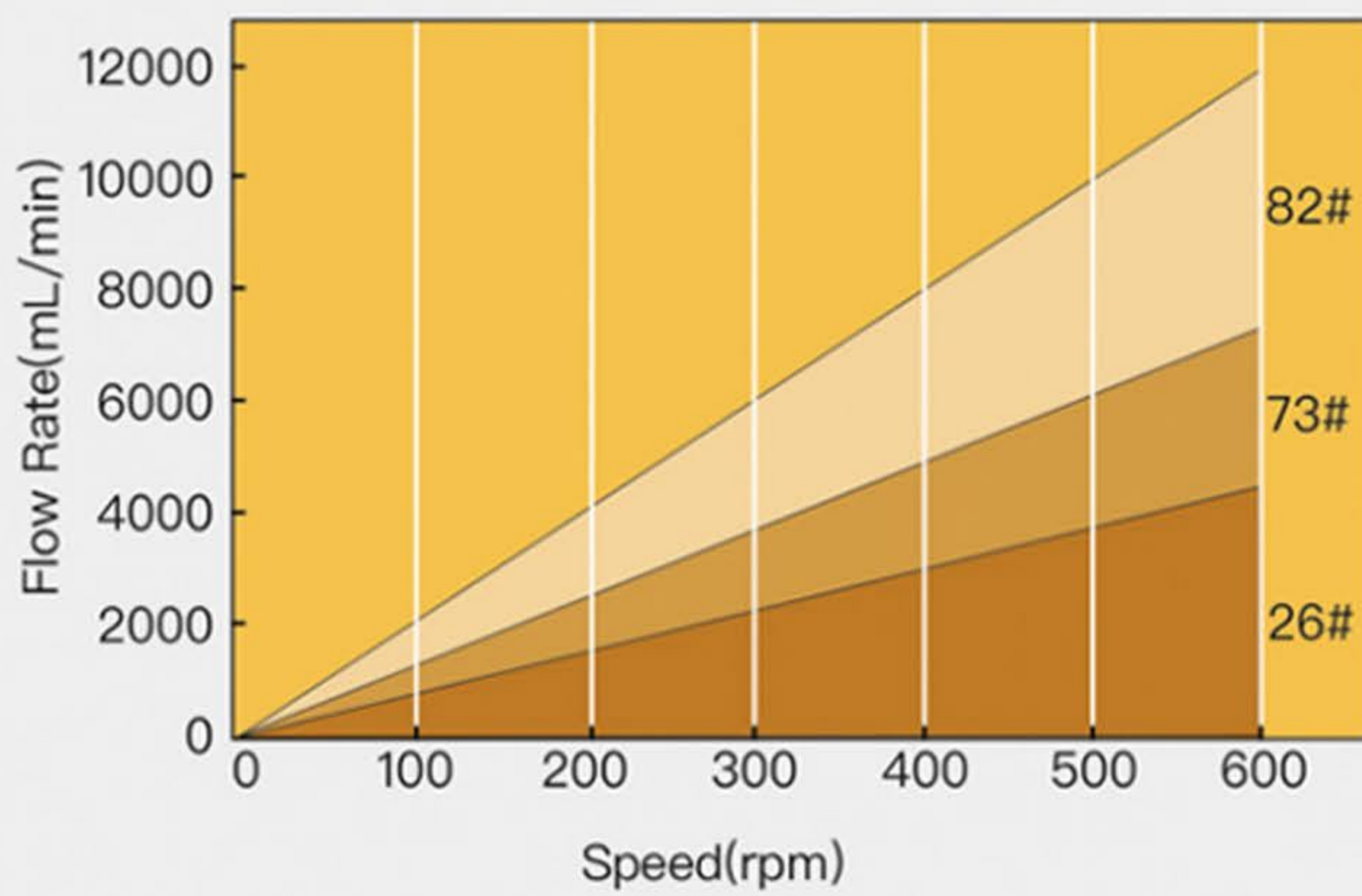
YZ35

Flow Rate

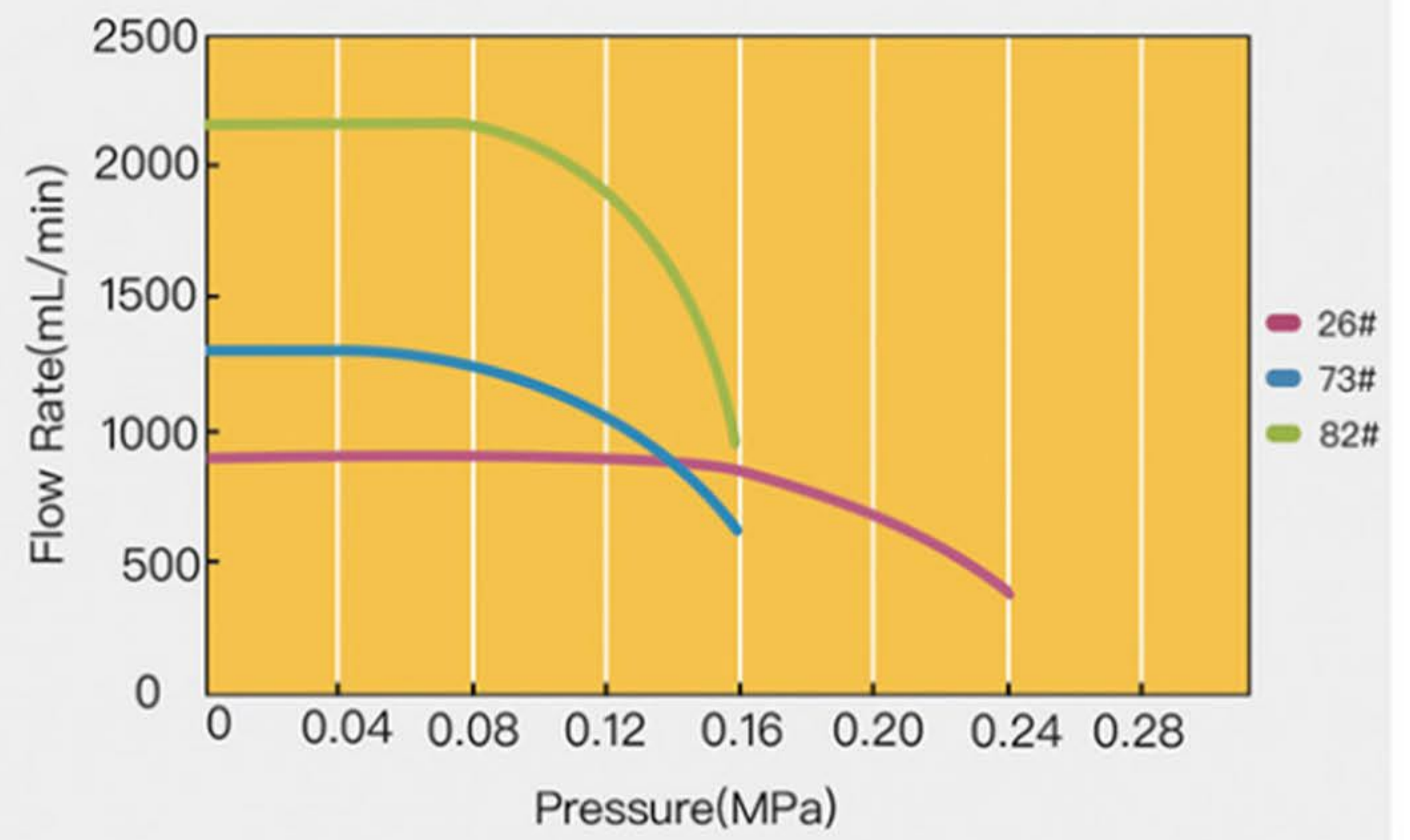
YZ35 Flow Rate

| Drive | Pump Head | Housing Material | Tube Clamp Material | Tubing | | mL/r | Speed (rpm) | Flow Rate (mL/min) | Weight (kg) |
|-------------|-----------|------------------|---------------------|--------|-------------------|------|-------------|--------------------|-------------|
| | | | | Size | IDxWall Thickness | | | | |
| ExD-600-12L | YZ35 | Aluminum alloy | Polyamide | 26# | 6.4x3.3(mm) | 7 | 0.1-600 | 0.7-4200 | 3.55 |
| | | | | 73# | 9.6x3.3(mm) | 12.3 | | 1.23-7400 | |
| | | | | 82# | 12.7x3.3(mm) | 20 | | 2-12000 | |

Flow Rate(0.1-600rpm)



Pump Head Pressure/Flow Rate Curve(100rpm)



YZ35 Filling Volume Reference Parameter

| Drive | Pump Head | Tubing | Filling Volume(mL) | Filling Time(s) | Accuracy(±%) | Output (pcs/min) | Motor Speed(rpm) |
|-------------|-----------|--------|--------------------|-----------------|--------------|------------------|------------------|
| ExD-600-12L | YZ35 | 26# | 50 | 1 | 0.5 | 30 | 428.6 |
| | | 26# | 100 | 2 | 0.5 | 20 | 428.6 |
| | | 73# | 100 | 1.2 | 0.5 | 27 | 406.5 |
| | | 73# | 150 | 2 | 0.5 | 20 | 365.9 |
| | | 82# | 200 | 1.5 | 0.5 | 24 | 400.0 |
| | 2*YZ35 | 73# | 100 | 1.2 | 0.5 | 27 | 203.3 |
| | | 73# | 200 | 1.5 | 0.5 | 24 | 325.2 |
| | | 82# | 500 | 2 | 0.5 | 20 | 375.0 |

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

| | |
|--------------------------------|---|
| Standard | GB/T3836.1- 2021, GB/T3836.2- 2021,GB/T3836.31-2021, GB/T 4208- 2017, Q/BSC03 2022 |
| Housing material | Aluminum Alloy |
| Speed range | 0.1-600rpm |
| Speed resolution | 0.1rpm |
| Display | 4.3 inch-Industrial grade-True color LCD screen |
| Control | Mechanical button, explosion proof knob, external control signal and communication |
| Working mode | Flow rate mode, Dispensing mode |
| Flow rate mode | Continuous transferring according to the set flow rate or motor speed |
| Dispensing mode | Set the dispensing volume, dispensing time, pause time and repeat numbers |
| Dispensing volume | 0.1mL-9999L |
| Dispensing time | 0.1sec-9999hour |
| Pause time | 0.5sec-9999hour |
| Repeat number | 1- 9999 times, 0 represent unlimited |
| Calibration function | Input actual volume and calibrate automatically |
| Back suction angle | 0-360° |
| Communication | RS485 |
| Communication protocol | Modbus protocol(RTU mode) |
| External control speed signal | 0-5V, 0- 10V, 4-20mA optional |
| External control signal input | Active switch signal (5 -24V) control start/stop, direction and full speed; Passive switch signal control start/stop |
| External control signal output | Open collector output working status |
| Drive dimension (LXWX H) | 458X 285 X 335mm |
| Power supply | AC220V±10%, 50Hz |
| Rated power | 300W |
| Relative humidity | <90% |
| Condition temperature | 0-40°C |
| IP rate | IP66 |
| Drive weight | 30.1kg |

Dimension Drawing(Unit:mm)

