



Explosion Proof Peristaltic Pump

Model No.: ExD-600-3L/DZ25-3L

Flow Rate: 0.211-3600mL/min



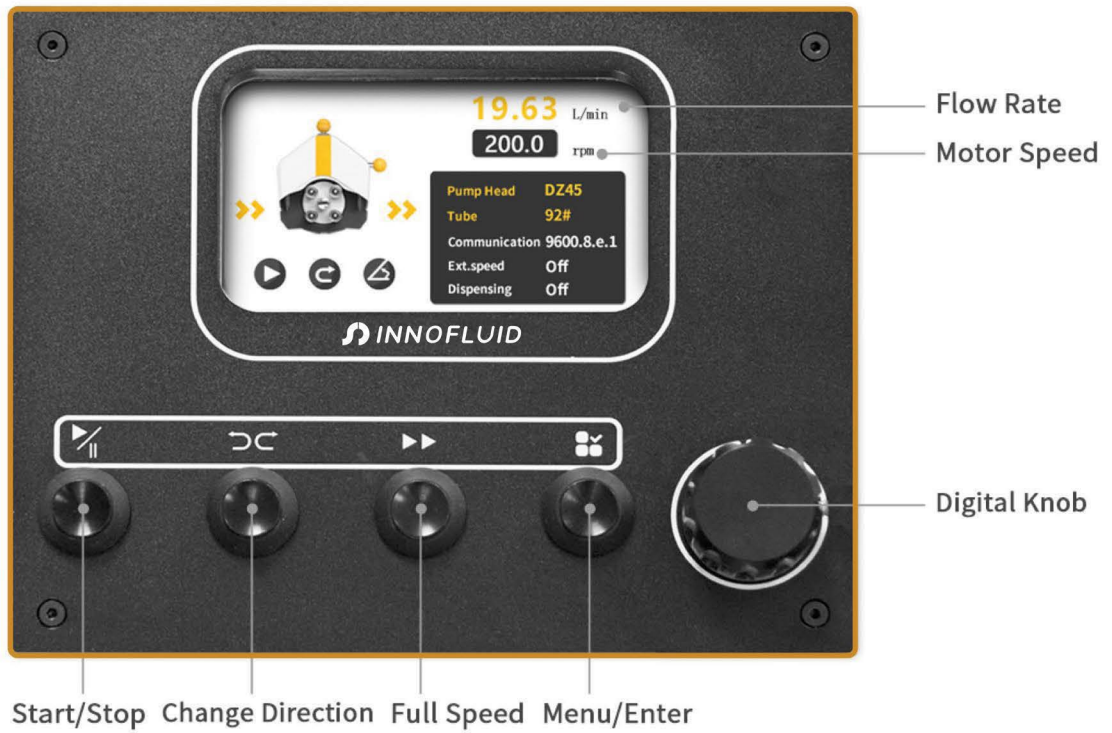
Product Introduction

- A new category of peristaltic pump based on explosion proof standards.
- The whole pump is explosion proof, reaching  II2G Ex db IIC T4 Gb and  II2D Ex tb IIIC 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



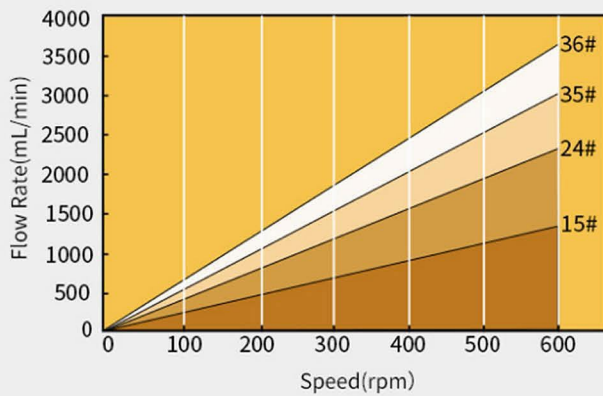
DZ25-3L

Flow Rate

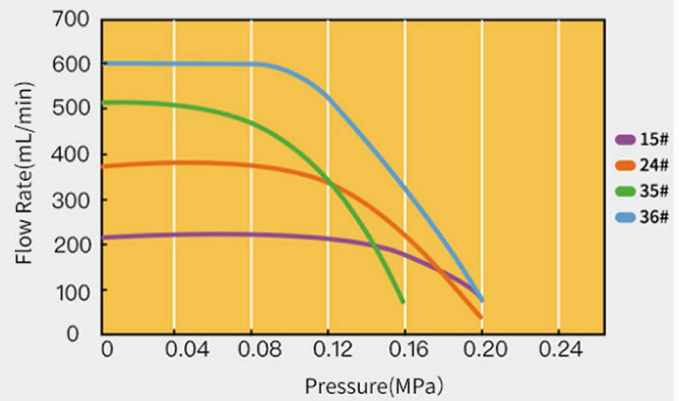
DZ25-3L Flow Rate

| Drive | Pump Head | Housing Material | Tube Clamp Material | Tubing | | mL/r | Speed (rpm) | Flow Rate(mL/min) (Single Pump Head) | Weight (kg) |
|------------|-----------|------------------|---------------------|--------|-------------------|------|-------------|--------------------------------------|-------------|
| | | | | Size | IDxWall Thickness | | | | |
| ExD-600-3L | DZ25-3L | Aluminum alloy | Polyamide | 15# | 4.8x2.4(mm) | 2.11 | 0.1-600 | 0.211-1264 | 1.16 |
| | | | | 24# | 6.4x2.4(mm) | 3.85 | | 0.385-2310 | |
| | | | | 35# | 7.9x2.4(mm) | 5.08 | | 0.508-3050 | |
| | | | | 36# | 9.6x2.4(mm) | 6 | | 0.6-3600 | |

Flow Rate(0.1-600rpm)



Pump Head Pressure/Flow Rate Curve(100rpm)



DZ25-3L Filling Volume Reference Parameter

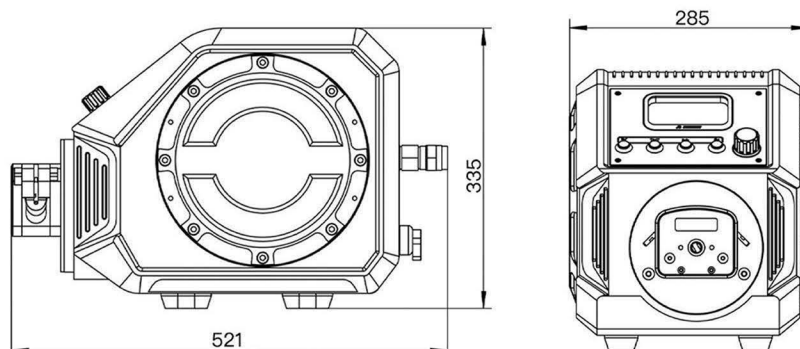
| Drive | Pump Head | Tubing | Filling Volume(mL) | Filling Time(s) | Accuracy(±%) | Output (pcs/min) | Motor Speed(rpm) |
|------------|-----------|--------|--------------------|-----------------|--------------|------------------|------------------|
| ExD-600-3L | DZ25-3L | 15# | 20 | 1.2 | 0.5 | 27 | 473.9 |
| | | 24# | 40 | 1.5 | 0.5 | 24 | 415.6 |
| | | 35# | 50 | 1.5 | 0.5 | 24 | 393.7 |
| | | 36# | 70 | 2 | 0.5 | 20 | 350.0 |

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

| | |
|--------------------------------|---|
| Marking | II2G Ex db IIC T4 Gb II2D Ex tb IIIC T130°C |
| Standard | EN IEC 60079-0:2018+A11:2024; EN IEC 60079-1:2014+A11:2024; EN IEC 60079-31:2018 |
| 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 (L×W×H) | 458×285×335mm |
| 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)



Note: For each additional channel, the longitudinal dimension will be increased by 59mm.