

Explosion Proof Peristaltic Pump

Model No.: ExD-350-A/DY15

Flow Rate: 0.01-3337mL/min



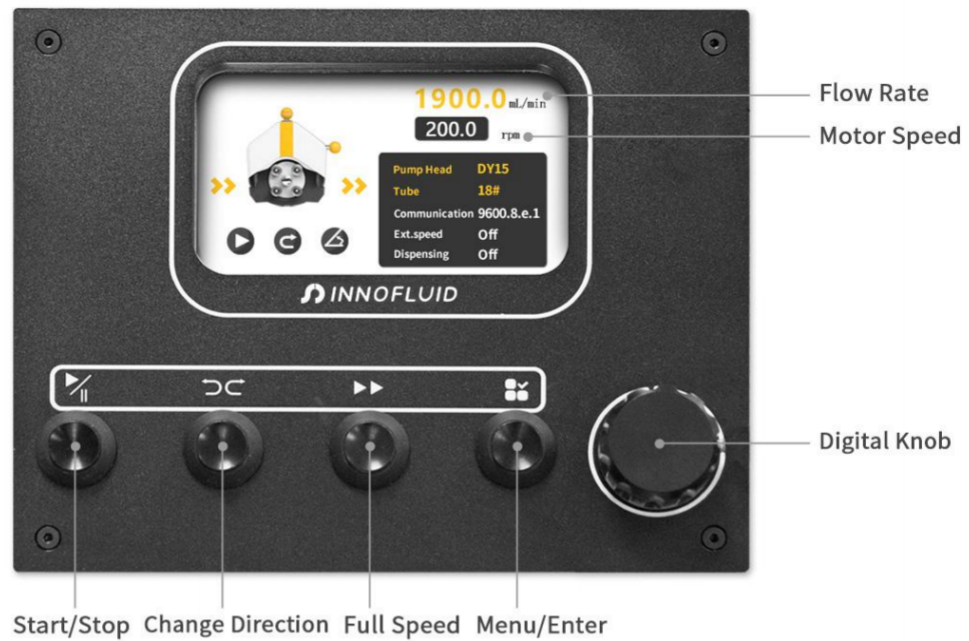
■ Product Introduction

- 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

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

■ Intelligent operation system

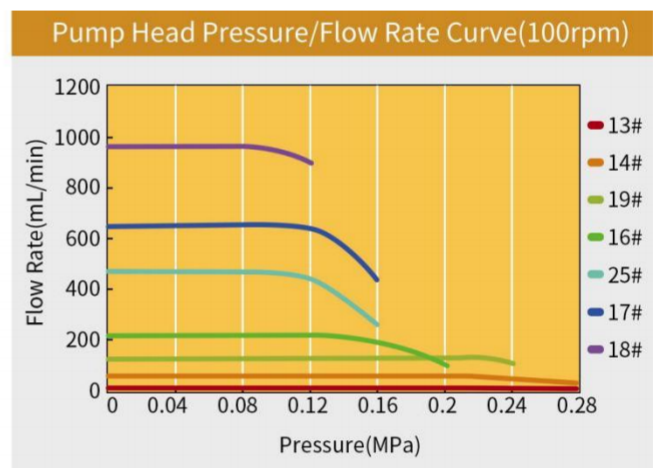
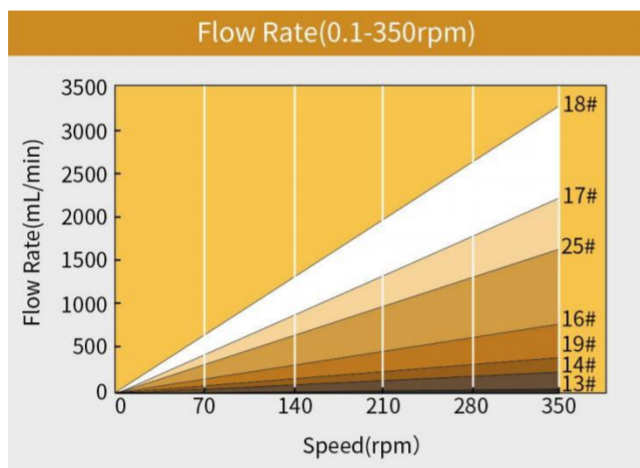


■ Pump Head & Flow Rate



DY15

DY15 Flow Rate								
Pump Head	Housing Material	Tube Clamp/Connector Material	Speed (rpm)	mL/r	Tubing		Flow Rate (mL/min)	Weight(kg)
					Size	IDxWall Thickness(mm)		
DY15	Aluminum	Polyamide	0.1-350	0.14	13#	0.8x1.6	0.01-48	3.2
				0.64	14#	1.6x1.6	0.06-223	
				1.28	19#	2.4x1.6	0.13-448	
				2.07	16#	3.1x1.6	0.2-723	
				4.65	25#	4.8x1.6	0.47-1626	
				6.37	17#	6.4x1.6	0.64-2230	
				9.53	18#	7.9x1.6	0.95-3337	



DY15 Filling Volume Reference Parameter						
Pump Head	Tubing	Filling Volume (mL)	Filling Time(s)	Accuracy(±%)	Output(pcs/min)	Motor Speed (rpm)
DY15	14#	0.5	0.5	1	30	94.2
	14#	1	0.6	0.8	38	157.0
	14#	3	1	0.5	30	282.6
	19#	5	1	0.8	30	234.4
	16#	15	1.5	0.5	24	290.4
	25#	20	1	0.5	30	258.3
	17#	30	1	0.5	30	282.5
	18#	100	2.5	0.5	17	251.7

■ Technical Specifications

Marking	Ex II2G Ex db IIC T4 Gb; Ex II2D Ex tb IIC T130°C
Standard	ENIEC 60079-0:2018+A11:2024; ENIEC60079-1:2014+A11:2024;EN IEC 60079-31:2018
Housing material	Aluminum Alloy
Speed range	0.1-350rpm
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
Three levels of permissions	Three user access levels (Administrator, Technician, and Operator) with distinct permission settings
Drive dimension(LxWxH)	458x285x335mm
Power supply	AC110-220V±10%,50Hz/60Hz
Rated power	300W
Relative humidity	<90%
Condition temperature	0-40°C
IP rate	IP66
Drive weight	30.1kg

■ **Dimension Drawing(Unit:mm)**

