

Dispensing Peristaltic Pump

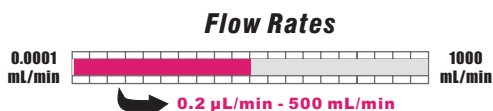
BT100-1F

Acceptable pump heads for BT100-1F are YZ1515x, YZ2515x, YZII15, YZII25 and DG-1, DG-2, DG-4. The pump delivers flow rates from 0.2 μL to 500 mL/min and dispensing volume is from 0.01 mL to 9900 mL. Combining 128 \times 32 LCD display with membrane keypad and rotary encoded switch makes the operation easy and prompt. The speed can be adjusted manually or automatically through external control interface.



Functions and Features

- Acceptable pump heads: YZ1515x, YZ2515x, YZII15, YZII25 and DG - 1, DG - 2, DG - 4
- Micro flow rates transferring: The smallest flow rate can reach 0.2 $\mu\text{L}/\text{min}$
- Back suction function: In dispensing mode, the pump runs reversely after finishing one filling operation to prevent the liquid from dripping
- Operating mode: Membrane keypad and rotary encoded switch
- Speed control: The speed can be adjusted manually or automatically through external control interface
- Display: LCD displays current running status
- Prime key: For fast filling and emptying
- Memory function: Storing the running parameters automatically
- Calibration function: The flow rates and the dispensing volume can be calibrated to increase the accuracy
- Communication function: Realize computer control through RS485 communication interface



Applicable Pump Heads



YZ1515x
YZ2515x



DG-4



YZII15
YZII25



DG-1
DG-2

Specifications

- Flow rates:** 0.2 μL / min to 500 mL / min
- Dispensing volume:** 0.01 mL to 9.99 L
- Speed:** 0.1 rpm to 100.0 rpm
- Copy number:** 0 to 9999
- Pause time:** 0.1 s to 99.9 min
- Back suction time:** 0 to 99.9 s
- External control:** start/stop control, direction control, flow rates control (0 - 5V, 0 - 10V, 4 - 20 mA, 0 - 10 kHz optional)
- Signal output:** start/stop, direction output and 0 - 10 kHz frequency output (corresponding to 0 to 100.0 rpm) with insulating function
- Communication:** RS485
- Power supply:** AC 100 - 240V \pm 10% 50Hz/60Hz
- Power consumption:** < 40 W
- Operating condition:** Temperature 0 to 40°C
Relative humidity < 80%
- Dimensions (L \times W \times H):** 285 \times 207 \times 180 (mm)
- Drive weight:** 3.8 kg
- IP rating:** IP 31



Drive	Part Number	Pump Head	Tubing	Flow Rates (*/min)	Weight (kg)
BT100 - 1F	0502132	YZ1515x, YZII15	13" 14" 19" 16" 25" 17" 18"	7 μL - 380 mL	4.2
		YZ2515x	15" 24"	0.17 mL - 500 mL	
		YZII25	15" 24" 35" 36"		
		DG - 1, DG - 2, DG - 4 (6 rollers)	Wall Thickness: 0.8 - 1.0 (mm) Inner Diameter: \leq 3.17 mm	0.25 μL - 48 mL (single channel)	4.0 - 4.2
DG - 1, DG - 2, DG - 4 (10 rollers)	0.2 μL - 32 mL (single channel)				