BD - 05TF Series - Micro Diaphragm Gas-Liquid Pump

Model:BD-05TF850WB

Performance Data	
Model	BD-05TF850WB
Voltage Option	12/24V
Free Water Flow	850mL/min
Max Water Pressure	2.5bar
Water Pressure Head	>15m
Water Suction Head	5m
Free Gas Flow	3.5L/min
Max Gas Pressure	80kPa
Max Gas Vacuum	-50kPa
Motor Data	
Motor Type	DC Brushless Motor
Load Current	0.6A/0.35A
Physical Properties	
Ambient Temperature	5℃~40℃
Fluid Temperature	10℃~60℃
Material/Other	
Hose Suggest	ID4mm, OD6mm
Head of pump	PPS
Diaphragm	EPDM
Valve	EPDM
Noise	55dB
Lifetime	10000H
Dimension	92.1x31.1x61.8mm
Weight	250g



Features

Oil-free, self-priming, gas-liquid compatible, low noise,

dry-running capable, compact size, low vibration, long service life.

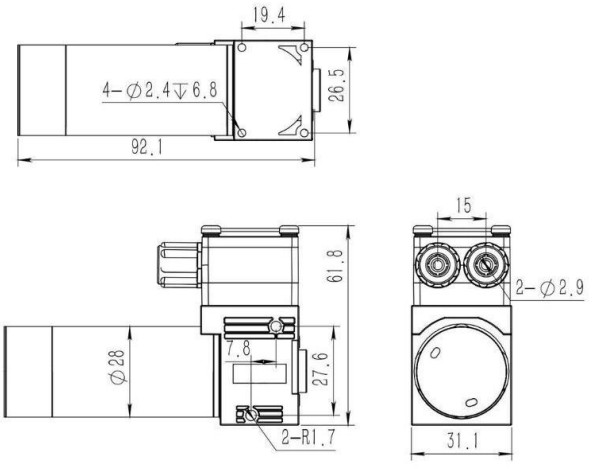
Principle

Driven by a motor, the diaphragm reciprocates to create suction and discharge cycles through check valves for stable gas and liquid transfer.Chemical resistance.

Chemical Resistance

Customizable PPS pump head, PTFE diaphragm, and FFKM valves provide excellent resistance to corrosive gases and liquids.

Drawing(mm)



Installation & Usage Notes

1.Install a filter with a minimum filtration accuracy of ≤30 μm at the pump inlet to prevent particle ingress.

2.Bottom mounting: 4xΦ2.4 mm holes (depth 6.8 mm), recommended to use M3 self-tapping screws for through-board fixation .

3.Side mounting: 2xR1.7 mm through holes, use M3 screws for through-board installation and secure fixation.

4.Wiring Definition: Red wire (+) positive, black wire (–) negative.

Application Fields

Digital printing equipment

Biochemical analyzers

Microplate washing equipment

Chemical analysis systems

Liquid sampling devices

Cleaning & Disinfection

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