BD - 05TF Series - Micro Diaphragm Liquid Pump

Model:BD-05TF250WB

Performance Data	
Model	BD-05TF250WB
Voltage Option	24V
Free Water Flow	250mL/min
Max Water Pressure	0.8bar
Water Pressure Head	8m
Water Suction Head	2m
Max Gas Pressure	50kPa
Max Gas Vacuum	≥-30kPa
Motor Data	
Motor Type	DC Brushless Motor
Load Current	0.3±0.1A
Physical Properties	
Ambient Temperature	5℃~40℃
Fluid Temperature	10℃~60℃
Material/Other	
Hose Suggest	ID4mm, OD6mm
Head of pump	PPS
Diaphragm	PTFE
Valve	FFKM
Noise	55dB
Lifetime	8000H
Dimension	82.6x31.1x60.4mm
Weight	200g



Features

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

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

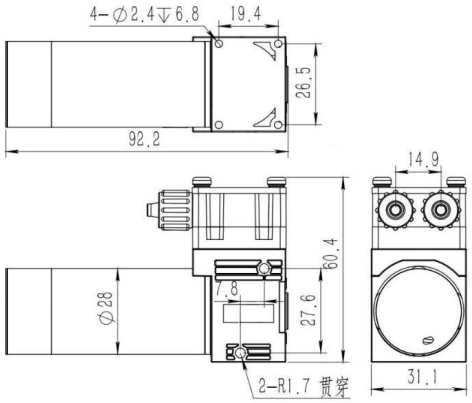
Principle

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 FFPM 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

Application Fields

Digital printing equipment

Biochemical analyzers

Microplate washing equipment

Chemical analysis systems

Liquid sampling devices

Cleaning & Disinfection