

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

Model:BD-05TF3200WB

Performance Data	
Model	BD-05TF3200WB
Voltage Option	12V/24V
Free Water Flow	3200mL/min
Max Water Pressure	10bar (Suggested for use within 2 bar)
Water Pressure Head	>15m
Water Suction Head	5m
Free Gas Flow	6L/min
Max Gas Pressure	+55kPa
Max Gas Vacuum	-38kPa
Motor Data	
Motor Type	DC Brushless Motor
Load Current	2A/1A
Physical Properties	
Ambient Temperature	5°C~40°C
Fluid Temperature	10°C~60°C
Material/Other	
Interface Dimensions	G3/8
Head of pump	PA66
Diaphragm	EPDM
Valve	PTFE
Noise	55dB
Lifetime	10000H
Dimension	129.6x52x117mm
Weight	1.2kg



Features

Oil-free, self-priming, gas-liquid compatible, low noise, dry-running capable, compact size, low vibration, long service life.

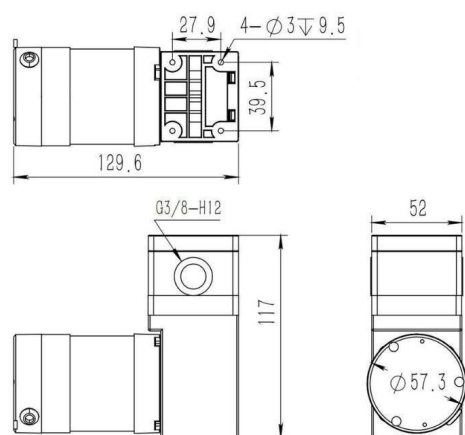
Principle

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 PTFE diaphragm, and FPM valves provide excellent resistance to corrosive gases and liquids.

Drawing(mm)



Installation & Usage Notes

1. Install a filter with a minimum filtration accuracy of $\leq 30 \mu\text{m}$ at the pump inlet to prevent particle ingress
2. Four $\varnothing 3 \text{ mm}$ holes, 9.5 mm deep, on the bottom. Use M4 self-tapping screws for through-board mounting and securing.
3. 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