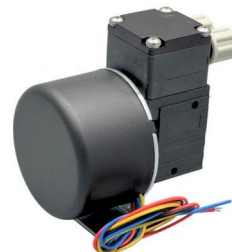


BD - 05TF Series - Micro Diaphragm Gas-Liquid Pump

Model:BD-05TF800WBD

Performance Data	
Model	BD-05TF800WBD
Voltage Option	12/24V
Free Water Flow	800mL/min
Max Water Pressure	1bar
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	79xR27x77mm
Weight	290g



Features

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

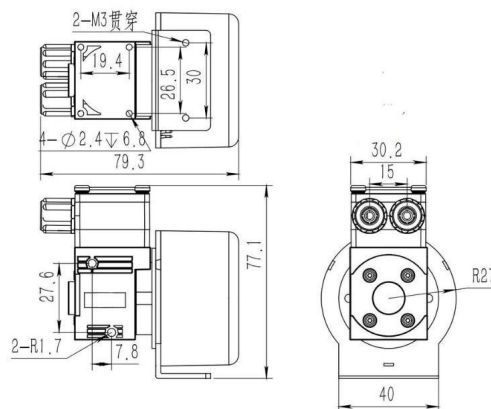
Principle

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 $\leq 30 \mu\text{m}$ at the pump inlet to prevent particle ingress
2. Use $2 \times \text{M3}$ threaded holes on the base for mounting and fixation.
3. Wiring Definition: Red wire (+) positive, black wire (-) negative, blue wire 0-5V PWM (speed control), and yellow wire FG (frequency/speed output).

Application Fields

Digital printing equipment
 Biochemical analyzers
 Microplate washing equipment
 Chemical analysis systems
 Liquid sampling devices
 Cleaning & Disinfection