

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

Model:BD-05TF700WBD

Performance Data	
Model	BD-05TF700WBD
Voltage Option	12V/24V
Free Water Flow	700mL/min
Max Water Pressure	3bar
Water Pressure Head	>15m
Water Suction Head	3m
Free Gas Flow	2L/min
Max Gas Pressure	45kPa
Max Gas Vacuum	-30kPa
Motor Data	
Motor Type	DC Brushless Motor
Load Current	0.5A/0.25A
Physical Properties	
Ambient Temperature	5°C~40°C
Fluid Temperature	5°C~60°C
Material/Other	
Hose Suggest	ID4mm, OD6mm
Head of pump	PA66
Diaphragm	EPDM
Valve	EPDM
Noise	55dB
Lifetime	8000H
Dimension	86.7xR27x76.3mm
Weight	200g



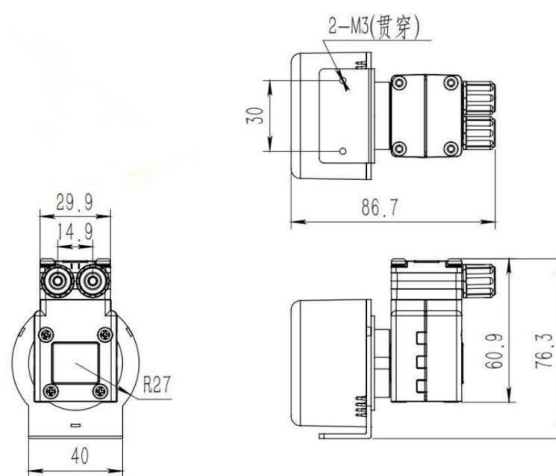
Features

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

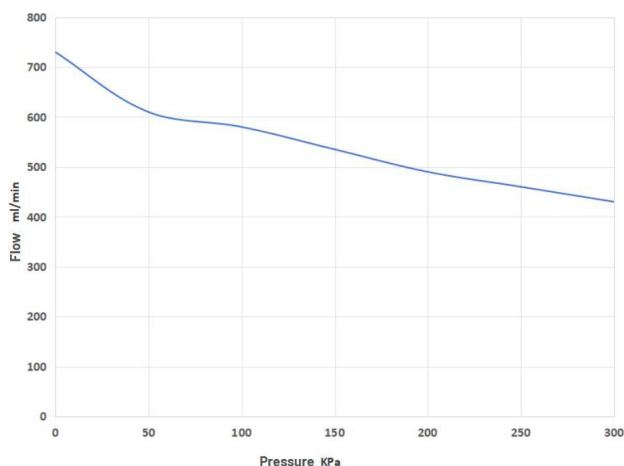
Principle

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

Drawing(mm)



Pressure-Flow Curve



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).