

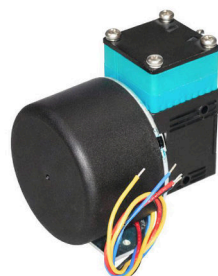
# BD - 05TF Series - Micro Diaphragm Gas-Liquid Pump

## Model:BD-05TF110WBZ

Performance Data	
Model	BD-05TF110WBZ
Voltage Option	6V/12/24V
Free Water Flow	110mL/min
Max Water Pressure	2.5bar
Water Pressure Head	>15m
Water Suction Head	7m
Free Gas Flow	3L/min
Max Gas Pressure	1bar
Max Gas Vacuum	-60kPa
Physical Properties	
Ambient Temperature	5°C~40°C
Fluid Temperature	10°C~60°C
Material/Other	
Hose Suggest	ID1.5mm, OD3mm
Head of pump	PA66
Diaphragm	EPDM
Valve	EPDM
Noise	55dB
Lifetime	8000H
Dimension	75.3xR27x73.2mm
Weight	280g

### 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 the base with  $2 \times \text{M3}$  threaded holes for secure installation.
- 3.Wiring Definition: Red wire (+) positive, black wire (-) negative, blue wire 0-5V control signal for speed regulation, and yellow wire for frequency output (FG signal).



### Features

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

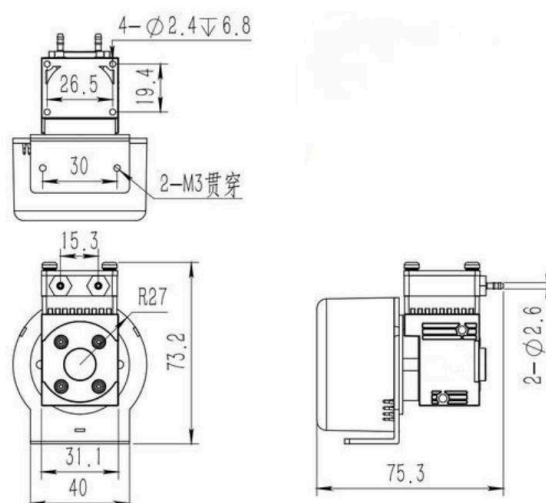
### Principle

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)



### Application Fields

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