

# Product Catalog

## Micro Diaphragm Pump (Air/Vacuum)

- BD-01 Series Max Flow 1 L/min
- BD-02 Series Max Flow 3.5 L/min
- BD-03 Series Max Flow 7 L/min
- BD-04 Series Max Flow 22 L/min

## Micro Diaphragm Pump (Water/liquid)

- BD-01 Series Max Flow 200 mL/min
- BD-02 Series Max Flow 500 mL/min
- BD-03 Series Max Flow 700 mL/min
- BD-04 Series Max Flow 1.5 L/min
- BD-07 Series Max Flow 1 L/min

## Small Piston Pump (Air/Vacuum)

- BD-07 Series Max Flow 40 L/min
- BD-079 Series Max Flow 50 L/min

## Mini Compressor(Air/Vacuum)

- BD-08 Series Max Flow 45 L/min
- BD-08 Series Max Flow 80 L/min

## Pump Accessories

- Valve, Tube, Muffler, Filter, Shock absorber, Sound damping cotton, PWM Controller, Flow Meter.....



## Contact Us

**Shenzhen Boden Technology Development Co., Ltd.**

Email: [info@bodenpump.com](mailto:info@bodenpump.com)

Web: [bodenpump.com](http://bodenpump.com)

Tel: 0755-27646921 / 86-13723743155

Add: No.301, 3/F, Building A1, A Bao Industrial Park,  
No.18 Zhulongtian Road, Shiyan Street, Baoan District,  
Shenzhen, 518108, China



Micro Pump

**BODENFLO**

Precision Fluid from Bodentech





# Micro Diaphragm Pump (Air/Vacuum)

## Explanation Model

BODEN – “BD”

Pump series – “01”

Air pump – “A”

Vacuum pump – “V”

Brushless motor – “B”

**BODENFL**

<https://bodenpump.com/>

### BD-01 Series Customization— Flow: 0.3-1L/min, Pressure:0.5-1bar, Vacuum: -30~60kpa, Power:1-2W

#### BD-01A-S | BD-01A-L

- ① Flow(@0bar): 0.3L/min  
Max pressure: 0.5bar
- ② Flow(@0bar): 0.5L/min  
Max pressure: 0.9bar
- ③ Flow(@0bar): 1L/min  
Max pressure: 1bar

#### BD-01V-S | BD-01V-L

- ① Flow(@0kpa): 0.3L/min  
Max vacuum: -30kpa
- ② Flow(@0kpa): 0.5L/min  
Max vacuum: -50kpa
- ③ Flow(@0kpa): 0.8L/min  
Max vacuum: -60kpa



Brush motor

3V, 6V, 12V

300-500hours

Noise 45-60dB

Dimensions in  
mm (inch)



### BD-02 Series Customization— Flow: 1-4L/min, Pressure:0.5-1.5bar, Vacuum: -30~65kpa, Power:2-3W

#### BD-02A | BD-02AB

- ① Flow(@0bar): 1L/min  
Max pressure: 0.5bar
- ② Flow(@0bar): 1.5L/min  
Max pressure: 1bar
- ③ Flow(@0bar): 3L/min  
Max pressure: 1.5bar

#### BD-02V | BD-02VB

- ① Flow(@0kpa): 1L/min  
Max vacuum: -30kpa
- ② Flow(@0kpa): 1.5L/min  
Max vacuum: -50kpa
- ③ Flow(@0kpa): 3L/min  
Max vacuum: -65kpa



Brushless  
motor

Brush  
motor

6V, 12V, 24V

3000hours

500hours

Noise 48-60dB

Dimensions in  
mm (inch)



### BD-03 Series Customization— Flow: 3-7L/min, Pressure:2-3bar, Vacuum: -45~70kpa, Power:7-12W

#### BD-03A | BD-03AB

- ① Flow(@0bar): 3L/min  
Max pressure: 2bar
- ② Flow(@0bar): 5L/min  
Max pressure: 2.5bar
- ③ Flow(@0bar): 6L/min  
Max pressure: 3bar

#### BD-03V | BD-03VB

- ① Flow(@0kpa): 3L/min  
Max vacuum: -60kpa
- ② Flow(@0kpa): 5L/min  
Max vacuum: -70kpa
- ③ Flow(@0kpa): 6L/min  
Max vacuum: -70kpa



Brushless  
motor

Brush  
motor

6V, 12V, 24V

5000hours

1000hours

Noise 50-65dB

Dimensions in  
mm (inch)



### BD-04 Series Customization— Flow: 7-22L/min, Pressure:2.5-3.5bar, Vacuum: -75~85kpa, Power:7-16W

#### BD-04A | BD-04AB

- ① Flow(@0bar): 11L/min  
Max pressure: 2.5bar
- ② Flow(@0bar): 15L/min  
Max pressure: 3bar
- ③ Flow(@0bar): 20L/min  
Max pressure: 3.5bar

#### BD-04V | BD-04VB

- ① Flow(@0kpa): 11L/min  
Max vacuum: -75kpa
- ② Flow(@0kpa): 15L/min  
Max vacuum: -80kpa
- ③ Flow(@0kpa): 20L/min  
Max vacuum: -80kpa



Brushless  
motor

Brush  
motor

6V, 12V, 24V

5000hours

1000hours

Noise 50-65dB

Dimensions in  
mm (inch)



<https://bodenpump.com/micro-diaphragm-pumps-air-vacuum/>





# Micro Diaphragm Pump (Water/Liquid)

## Explanation Model

BODEN – “BD”

Pump series – “01”

Water/Liquid pump – “W”

Brushless motor – “B”

### BD-01 Series 3V, 6V, 12V; Diaphragm: EPDM, FKM



#### BD-01W-S/BD-01W-L

Flow(water): 100-200 mL/min  
Max vacuum: -30kpa  
Motor: Brush motor  
Lifetime: 300-500hours  
Noise: 50dB  
Dimensions in mm(inch)



### BD-02 Series 6V, 12V, 24V; Diaphragm: EPDM, FKM



#### BD-02W | BD-02WB

Flow(water): 200-500 mL/min  
Max vacuum: -30kpa  
Brushless motor | Brush motor  
3000hours | 500 hours  
Noise: 50dB  
Dimensions in mm(inch)



### BD-03 Series 6V, 12V, 24V; Diaphragm: EPDM, FKM



#### BD-03W | BD-03WB

Flow(water): 400-700 mL/min  
Max vacuum: -30kpa  
Brushless motor | Brush motor  
5000hours | 1000 hours  
Noise: 50dB  
Dimensions in mm(inch)



### BD-04 Series 6V, 12V, 24V; Diaphragm: EPDM, FKM



#### BD-04W | BD-04WB

Flow(water): 1.5 L/min  
Max vacuum: -30kpa  
Brushless motor | Brush motor  
5000hours | 1000 hours  
Noise: 50dB  
Dimensions in mm(inch)



#### BD-07W

Flow(water): 1 L/min  
Max pressure: 10 bar  
Motor: Brush motor  
Lifetime: 1000hours  
Noise: 50dB  
Dimensions in mm(inch)



#### BD-07WB

Flow(water): 1 L/min  
Max pressure: 10 bar  
Motor: Brushless motor  
Lifetime: 3000hours  
Noise: 50dB  
Dimensions in mm(inch)

BD-07 Series 12V, 24V; Diaphragm: EPDM, FKM ; 12W





# Small Piston Pump (Air/Vacuum)

## Explanation Model

BODEN – “BD”

Pump series – “01”

Air pump – “A”

Vacuum pump – “V”

Brushless motor – “B”

Metal head – “M”

Single head – “S”

Double head – “D”

**BD-07 Series Customization— Flow: 15-40L/min, Pressure:4.5-6.5bar, Vacuum: -80~85kpa, Power:24-50W**

### BD-07A | BD-07AB

- ① Flow(@0bar): 15L/min  
Max pressure: 4.5bar
- ② Flow(@0bar): 20L/min  
Max pressure: 5bar
- ③ Flow(@0bar): 35L/min  
Max pressure: 6bar

### BD-07V | BD-07VB

- ① Flow(@0kpa): 15L/min  
Max vacuum: -80kpa
- ② Flow(@0kpa): 20L/min  
Max vacuum: -85kpa
- ③ Flow(@0kpa): 35L/min  
Max vacuum: -85kpa



Brushless motor	Brush motor
12V, 24V	12V, 24V
3000hours	1000hours
Noise 60-70dB	
Dimensions in mm (inch)	



**BD-07 Series Customization— Flow: 15-40L/min, Pressure:4.5-6.5bar, Vacuum: -80~85kpa, Power:24-50W**

### BD-07A-M | BD-07AB-M

- ① Flow(@0bar): 17L/min  
Max pressure: 4.5bar
- ② Flow(@0bar): 25L/min  
Max pressure: 5bar
- ③ Flow(@0bar): 40L/min  
Max pressure: 6.5bar

### BD-07V-M | BD-07VB-M

- ① Flow(@0kpa): 17L/min  
Max vacuum: -80kpa
- ② Flow(@0kpa): 25L/min  
Max vacuum: -85kpa
- ③ Flow(@0kpa): 38L/min  
Max vacuum: -85kpa



Brushless motor	Brush motor
12V, 24V	12V, 24V
3000hours	1000hours
Noise 60-70dB	
Dimensions in mm (inch)	



**BD-79 Series Customization— Flow: 40-45L/min, Pressure:5-7bar, Vacuum: -85kpa, Power:50-70W**

### BD-79A-M

- ① Flow(@0bar): 40L/min  
Max pressure: 7bar
- ② Flow(@0bar): 45L/min  
Max pressure: 7bar
- ③ Flow(@0bar): 50L/min  
Max pressure: 7bar

### BD-79V-M

- ① Flow(@0kpa): 35L/min  
Max vacuum: -85kpa
- ② Flow(@0kpa): 40L/min  
Max vacuum: -85kpa
- ③ Flow(@0kpa): 45L/min  
Max vacuum: -85kpa



Brush motor
12V, 24V
1000hours
Noise 68-75dB
Dimensions in mm (inch)

## Purchasing Tips

1. Define Needs: Specify system pressure, flow, and voltage for optimal compatibility.
2. Fluid Type: Select based on air or liquid, focusing on chemical properties.
3. Startup Load: Select based on no-load or load startup requirements for pressure/flow.
4. Environment: Ensure the pump suits the temperature and environmental conditions.
5. Size Fit: Verify pump size and weight meet your spatial and installation needs.
6. Measurement Standard: BODENFLO uses rotameters for standard flow measurements, which may differ from electronic flow meters.





# Mini Compressor (Air/Vacuum)

## Explanation Model

BODEN – “BD”

Pump series – “01”

Air pump – “A”

Vacuum pump – “V”

Brushless motor – “B”

Metal head – “M”

Single head – “S”

Double head – “D”

## Micro Pump Accessories

**BD-08 Series Customization— Flow: 40-45L/min, Pressure:2-7bar, Vacuum: -85kpa, Power:60-120W**

**BD-08A-S | BD-08AB-S**

- ① Flow(@0bar): 45L/min  
Max pressure: 6bar
- ② Flow(@0bar): 45L/min  
Max pressure: 4bar
- ③ Flow(@0bar): 45L/min  
Max pressure: 2bar

**BD-08V-S | BD-08VB-S**

- ① Flow(@0kpa): 40L/min  
Max vacuum: -85kpa
- Advantage:**  
Small size and light weight  
DC powered, low power  
Oil-free, sustainable work  
Aluminum alloy material  
high temperature resistance



Brushless motor	Brush motor
12V, 24V	12V, 24V
5000hours	1000hours
Noise 62-75dB	
Dimensions in mm (inch)	



**BD-08 Series Customization— Flow: 70-80L/min, Pressure:2-7bar, Vacuum: -85kpa, Power:80-150W**

**BD-08A-D | BD-08AB-D**

- ① Flow(@0bar): 80L/min  
Max pressure: 7bar
- ② Flow(@0bar): 80L/min  
Max pressure: 5bar
- ③ Flow(@0bar): 80L/min  
Max pressure: 2bar

**BD-08V-D | BD-08VB-D**

- ① Flow(@0kpa): 70L/min  
Max vacuum: -85kpa
- Patented product:**  
Compact design  
High torque motor  
Aluminum alloy material  
Double cylinder piston movement  
Can be suction and Inflatable



Brushless motor	Brush motor
12V, 24V	12V, 24V
5000hours	1000hours
Noise 62-75dB	
Dimensions in mm (inch)	



<https://bodenpump.com/mini-compressor-air-vacuum/>

## BD-Accessories series



### One-way Valve / Check Valve

Prevents reverse flow of compressed air in pneumatic systems. Ensures one-way gas flow, critical for system integrity.

IDXOD(mm)	2.3x4.3 3.3x6.3 4x8 5x8
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### Pressure/Vacuum Filter

Provides filtration in pressure/vacuum applications, suitable for use with PU tubing. Ensures clean operational conditions, extends pump life by preventing contaminant ingress.

ID(mm)	4 6 8 (for BD-03 BD-04 BD-07 BD-08)
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### Air Filter

Filters particles to protect pump internals, suitable for silicone hoses. Regular replacement recommended for efficiency and longevity.

IDXOD(mm)	4x7 (for BD-04 BD- 07)
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### Silicone Hose

Transports gases or liquids in micro pump applications. Offers flexibility and chemical resistance, suitable for a wide range of fluids and gases.

IDXOD(mm)	2x4 4x6 5x11 6x12 7x12
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# Micro Pump Accessories

Enhance system efficiency, reliability, and performance, delivering superior fluid and air management solutions.

## BD-Accessories series



### PU Tube

Flexible tubing for pneumatic connections. Durable and resistant to wear, suitable for various high pressure pneumatic applications.

IDXOD(mm)	2x4 4x6 8x12
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### Metal Spring Shock Absorber

Patented shock absorber designed for micro pump applications. Utilizes metal springs for superior vibration reduction and noise control.

Applicable Series	BD-07
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### Sound Absorbing Cotton

Used in conjunction with micro pumps and systems to absorb and isolate sound. Enhances noise reduction efforts.

Thickness(mm)	1 2 3 4 5
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### Float Flow Meter

Measures the flow rate of gas or liquid in the system. Provides accurate flow data, essential for monitoring and control in precision applications.

Range(LPM)	0-1 1-5 1-10 6-60 10-100
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### Silicone Shock Absorber

Used in micro pumps to reduce vibration and noise. Offers flexible installation options, enhances durability and performance by minimizing noise and wear.

Applicable Series	BD-02 BD-03 BD-04 BD-07
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### Silencer/Muffler/Noise Reducer

Reduces airflow noise from pump operation. Integrates into the air circuit to effectively minimize noise levels.

IDXOD(mm)	4x7.5 (for BD-04 BD-07 BD-08)
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### PWM Controller

Adjusts airflow by controlling PWM frequency and duty cycle through potentiometer knob adjustment.

Supply Voltage/Frequency	7-24V / 1HZ-100KHZ
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### 3 Port Solenoid Valve

Ideally suited for applications requiring rapid opening or closing of airflow in conjunction with micro air pumps, such as pressure release and flow diversion.

Voltage	12V 24V
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