

# Технические характеристики

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## Various Combinations Diaphragm Valve

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### Technical Specifications

The structures of valves have T-type, L-type, U-type, direct-way, multi-ports way, etc. It is mainly used in liquid sampling, biological systems, laboratories and other projects .

The valve is used in the pharmaceutical filling system with a particular advantage that opening and closing time can be up to 150 million life in 3 bar working pressure.

- Size: 1/4"-3/4" , DN6-DN15
- Standard: BPE 3A DIN ISO IDF
- Certificate: PED/97/23/EC , 3A/54-04/1580 , FDA.177.2600
- Max Temperature: -30°C to 150°C (Depending on seal material)(Stainless steel actuator)
- Max Temperature: -30°C to 130°C (Depending on seal material)(Plastic actuator)
- Max Pressure: One way (DELTA P=100%)
  - EPDM 8bar, PTFE 6 bar(Option)
  - EPDM 6bar, PTFE 4.5 bar(Option)
  - Double action EPDM 8 bar, PTFE 6 bar
- Assembling different actuators can meet higher pressure rating.
- Forged Body: 1.4404/316L/1.4435 BN2
- Cast Body: 1.4404/316L
- Connection: Clamp, Weld, Thread, Flange
- Operations: Manual and pneumatic



## Multi functional high frequency canned diaphragm valve

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### working principle

Multi functional high frequency canned diaphragm valve has a dual-station cylinder and a flow-adjustable filling valve.

For fast filling and to prevent spillage or spillage of the bottle.

The flow rate is maximum when 1 cylinder is working;

When the cylinder is working, the flow rate is the smallest, and the flow rate adjustment device can also be used to adjust the flow rate when the flow 2# cylinder is working.

### Recommended setting

1 cylinder opens when the liquid is filled to 70%-80% liquid level.

2 cylinders are opened to fill to a reasonable level.

### Technical advantages

With high efficiency, high precision canning, material zero overflow, long life (pressure 2bar up to 8 million times), flow adjustable, dual cylinder design.

### Technical specifications

Mini manual diaphragm valves are mainly used in materials sampling, biological systems, laboratories and other projects.

The valve has special advantages in filling equipment such as pharmaceuticals or beverages. When the working pressure is 3ba, the number of opening and closing times can reach 1.5 million life.

- SIZE: 1/4 "-3/4", DN6-DN15
- Standard BPE 3A DIN ISO IDF
- Certification PED/97/23/EC, 3A/54-04/1580, FDA.177.2600
- Maximum temperature: -30 to 150 ° C (depending on the sealing material) (stainless steel actuator)
- Maximum temperature: -30 to 130 ° C (depending on the sealing material) (plastic actuator)
- Maximum pressure: one direction (DELTA P=100%)
  - Normally closed rubber 8bar, PTFE 6bar (optional)
  - Normally closed rubber 6bar, PTFE 4.5bar (standard)
  - Normally open and double acting rubber 8bar, PTFE 6bar
- Replacement of different actuators can meet higher pressure levels
- Forged valve body: 1.4404/316L/1.4435 BN2
- Casting valve body: 1.4404/316L
- Connection method: welding, clamp, flange, thread
- Operation mode: manual and pneumatic



## Diaphragm Regulating Valve

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### Applications

Diaphragm regulating valves are mainly used in biopharmaceutical fluid control system. The design of valve is completely empty without dead angles, liquid contact parts are high purity stainless steel and PTFE material, so it is very suitable for high purity requirements of processing piping systems. The body structure has a variety of forms and combinations (Please refer to the DONJOY diaphragm valve data).

### Technical Specifications

Analog input: 0/4-20mA, 0-5/10V

Power: DC24V  $\pm$  10%

Protection: IP68 rating

Support for manual operation

One-touch auto-tuning function

Size: 1"-4", DN25-DN100

Material: 1.4435NB2, 316L, 1, .4404, ASME BPE 316L

Highest Temperature: -30 to 150 °C (Depending on seal material) (Stainless steel actuators)

Highest Temperature: -30 to 130 °C (Depending on seal material) (Plastic actuator)

Maximum Pressure: Unidirectional (DELTA P = 100%)

Normally closed rubber 8bar, PTFE 6bar (Option)

Normally closed rubber 6bar, PTFE 4.5bar (Standard)

Normally open and double acting rubber 8bar, PTFE 6bar



## Pneumatic Diaphragm Valve

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### Operating Principles

- Diaphragm valves, manually or pneumatically operated, are specifically designed for hygienic and aseptic processes in the pharmaceutical industries.
- The valve is excellent for flow control as well as for open/close duties.
- The diaphragm provides body seal as well as seat seal. There are no paths to outside environment so it is suitable for aseptic processes.
- When valve is closed, a pressure pad which supports diaphragm to move towards sealing face on body. When pressure plate moves, diaphragm flexes and is forced down onto seat area in the centre of body, thus it closed off flow path through body.
- The interrelationship of body is to prevent the compression of diaphragm.
- The valve can be manually/pneumatically operated, and can be controlled by control tops and solenoid valves.

### Technical Specifications

- ◉ Size: 1"-4", DN25-DN100
- ◉ Pressure: 10bar (145 PSI)
- ◉ Material: ASTM 316L, 1.4404, 1.4435 NB2 Fe <0.5%
- ◉ Temperature: -20 °C + 150 °C (EPDM) -4 °F + 302 °F (+ 140 °C (SIP, 30) 284 °F)
- ◉ Connection: Clamp, Weld, Thread, 3A BPE DIN SMS IDF ISO
- ◉ Body Structure: straight, tee, U-tee, tank bottom valve, multi-channel diaphragm
- ◉ Diaphragm Material: EPDM + PTFE (double layer) / EPDM / Silicon / FPM (Viton)
- ◉ Certificate: 3A-54-02 / 1580, PED 97/23 EC, FDA177.2600



## Manual diaphragm valve

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### working principle

Manual or pneumatic operation, specifically for sanitary and aseptic processes in the pharmaceutical industry. This valve is ideal for fluid control and on/off tasks. The diaphragm provides a body seal and a seat seal. There is no path to the outside environment, so the diaphragm valve is suitable for aseptic processes. When the valve is closed, the pressure pad supporting the diaphragm moves toward the sealing surface on the valve body. As the pressure plate moves, the diaphragm bends and is forced to the seat area in the center of the valve body, thus closing the fluid path to the valve body. The relationship between the valve body and the pressure plate prevents the compression of the diaphragm. The valve can be operated manually or pneumatically, or it can be controlled by a controller and solenoid valve.

### Technical specifications

- ⊙ Specifications: 1"-4", DN25-DN100
- ⊙ Pressure: 10bar (145 PSI)
- ⊙ Material: ASTM 316L, 1.4404, 1.4435 NB2 Fe<0.5%
- ⊙ Temperature: -20°C +150°C (EPDM)-4°F+302°F (+140°C (SIP, 30) 284°F)
- ⊙ Connection: clamp, welding, thread, 3A BPE DIN SMS IDF ISO
- ⊙ valve body structure: straight through, three-way, U-shaped three-way, tank bottom valve, multi-channel diaphragm valve
- ⊙ Diaphragm material: EPDM + PTFE (double layer) / EPDM / Silicon / FPM (Vitong)
- ⊙ Certification: 3A-54-02/1580, PED 97/23 EC, FDA177.2600



## Third generation high clean diaphragm valve

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### New generation diaphragm valve

DONJOY has carried out a comprehensive technical upgrade of all diaphragm valves in 2015. The upgraded design is more in line with the high clean technical requirements of GMP, ASME BPE, EHEDG and 3A. In particular, the dead angle processing reaches the requirement of  $\leq 1D$  to  $\leq 3D$ .

### working principle

Manual or pneumatic operation, specifically for sanitary and aseptic processes in the pharmaceutical industry. This valve is ideal for fluid control and on/off tasks. The diaphragm provides a body seal and a seat seal. There is no path to the outside environment, so the diaphragm valve is suitable for aseptic processes. When the valve is closed, the pressure pad supporting the diaphragm moves toward the sealing surface on the valve body. As the pressure plate moves, the diaphragm bends and is forced to the seat area in the center of the valve body, thus closing the fluid path to the valve body. The relationship between the valve body and the pressure plate prevents the compression of the diaphragm. The valve can be operated manually or pneumatically, or it can be controlled by a controller and solenoid valve.

### Technical specifications

- ⊙ Specifications: 1"-4", DN25-DN100
- ⊙ Pressure: 10bar (145 PSI)
- ⊙ Material: ASTM 316L, 1.4404, 1.4435 NB2 Fe<0.5%
- ⊙ Temperature: -20°C +150°C (EPDM)-4°F+302°F (+140°C (SIP, 30) 284°F)
- ⊙ Connection: clamp, welding, thread, 3A BPE DIN SMS IDF ISO
- ⊙ valve body structure: straight through, three-way, U-shaped three-way, tank bottom valve, multi-channel diaphragm valve
- ⊙ Diaphragm material: EPDM + PTFE (double layer) / EPDM / Silicon / FPM (Vitong)
- ⊙ Certification: 3A-54-02/1580, PED 97/23 EC, FDA177.2600





## Pneumatic Tank Bottom Diaphragm Valves

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### Technical specifications

Pneumatic tank bottom diaphragm valve is specially used for discharging medium from tanks, no resort at the chamber.

- ◆ Size: 1"-4", DN25-DN100
- ◆ Highest Temperature: -30 to 150 °C (Depending on diaphragm) (Stainless steel actuator)
- ◆ Highest Temperature: -30 to 130 °C (Depending on diaphragm) (Plastic actuator)
- ◆ Maximum Pressure: Unidirectional (DELTA P = 100%)
  - Normally closed rubber 8bar, PTFE 6bar (option)
  - Normally closed rubber 6bar, PTFE 4.5bar (standard)
  - Normally open and double acting rubber 8bar, PTFE 6bar
- ◆ Facelift different actuators can meet higher pressure rating
- ◆ Forged Body: 1.4404 / 316L /1.4435 NB2
- ◆ Cast body: 1.4404 / 316L
- ◆ Connection: Weld, Clamp, Flange, Thread
- ◆ Body Structure: 2 channels, 3 channels, etc.
- ◆ Diaphragm Material: EPDM + PTFE (double layer) / EPDM / Silicon / FPM (Viton)
- ◆ Certificate: 3A-54-02 / 1580, PED 97/23 EC, FDA177.2600



## Manual diaphragm tank bottom valve

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### Technical Specifications

Manual tank bottom diaphragm valve is specially used for discharging medium from tanks, and no resort at the chamber.

- ⊙ Size: 1"-4", DN25-DN100
- ⊙ Pressure: 10bar (145 PSI)
- ⊙ Material: ASTM 316L, 1.4404, 1.4435 NB2 Fe <0.5%
- ⊙ Temperature: -20 °C + 150 °C
- ⊙ Connection: Weld, Clamp, Thread, 3A BPE DIN SMS IDF ISO
- ⊙ Body structure: U type tee + sampling valve; U-type links
- ⊙ Diaphragm material: EPDM + PTFE (double layer) / EPDM / Silicon / FPM (Viton)
- ⊙ Certificate: 3A-54-02 / 1580, PED 97/23 EC, FDA177.2600



## Weld Combined Multi port Diaphragm Valve

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### Welding Combined Multiport Diaphragm Valve

- GMP valve

Mainly used in high pure water or other distribution system of water point vertical tube which can effectively reduce pipeline deadleg. One valve is placed in a horizontal position to keep an angle of emptying, the other, a host valve, need be placed vertically. The outlet is a no bacterial breeding or process cross infection sample mouth when the valve opens.

- SAP valve

Mainly used in a horizontal pipeline system, host valve is placed in a horizontal position to maintain a certain self-emptying angle. The passage hole is in the lowest discharge point of the host valve waterway.

### Technical Specifications

Size: 1/2"-4", DN6-DN100

Material: 316L/1.4404 , 1.4435 NB2 Fe < 0.5%

Temperature: -20°C +150°C

Pressure: 10bar

Inner Surface Treatment: Ra0.4µm, Mechanical polishing, Electro polishing

Diaphragm: Double diaphragm: EPDM+PTFE; Single Mdiaphragm: EPDM, FPM, Silicon

Operating: Manual/ Pneumatic

Control: configurable, 1) Control Unit C-TOP, 2) positioner IL-TOP, 3) mechanical valve regulator, 4)

Position Sensor



## Multi port Diaphragm Valve M-32B

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### Technical Specifications

Multi port Diaphragm Valve M-32B

2 control valve, 3 ports

Suggest S1 up installation

Dead zone =  $\leq 1D$

Size: 1"-2", DN25-DN50

Material: 316L/1.4404, 1.4435 NB2 Fe < 0.5%

Temperature: -20°C +150°C

Pressure: 10bar

Inner Surface Treatment: Ra0.4 $\mu$ m, Mechanical polishing, Electro polishing

Diaphragm: Double diaphragm: EPDM+PTFE; Single diaphragm: EPDM, FPM, Silicon

Operations: Manual/Pneumatic

Control: configurable, 1) Control Unit C-TOP, 2) positioner IL-TOP, 3) mechanical valve regulator, 4)

Position Sensor



## Multi port Diaphragm Valve M-44A

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### Technical Specifications

4 control valves, 4 ports

S2 and S4 horizontal installation

S1 and S3 vertical installation

Non-directional import and outport

Dead zone =  $\leq 1D$

Size: 1"-2", DN25-DN50

Material: 316L/1.4404, 1.4435 NB2 Fe < 0.5%

Temperature: -20°C +150°C

Pressure: 10bar

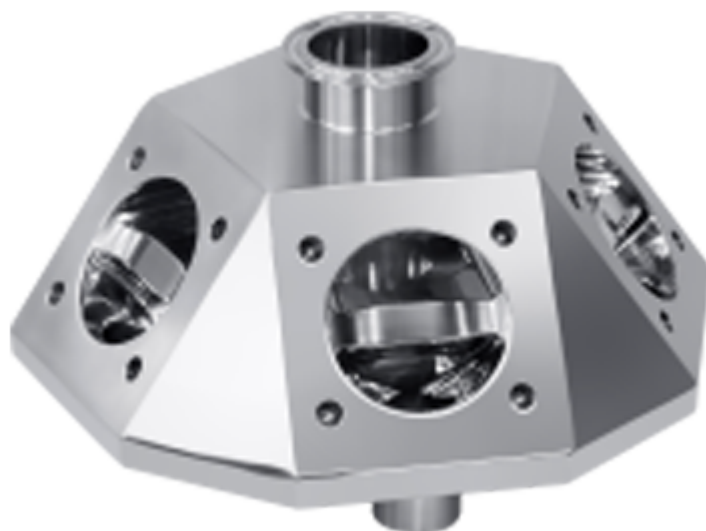
Inner Surface Treatment: Ra0.4 $\mu$ m, Mechanical polishing, Electro polishing

Diaphragm: Double diaphragm: EPDM+PTFE; Single diaphragm: EPDM, FPM, Silicon

Operations: Manual/Pneumatic

Control: configurable, 1) Control Unit C-TOP, 2) positioner IL-TOP, 3) mechanical valve regulator, 4)

Position Sensor



## Multi port Diaphragm Valve M-65A

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### Multiport Diaphragm Valve

Multi port Diaphragm Valve M-65A is the most progressive design for meeting high clean in pharmacy industry. Assembly of traditional welding manifold valve system is complicated, implementation of period is long, large space is occupied with expensive cost on inspection.

Type M-65A, Multiport Diaphragm Valve

5 control valves, 6 ports

5 valves vertical place

Dead zone =  $\leq 1D$

Size: 1"-2", DN25-DN50

Material: 316L/1.4404 , 1.4435 NB2 Fe < 0.5%

Temperature: -20°C +150°C

Pressure: 10bar

Inner Surface Treatment: Ra0.4 $\mu$ m, Mechanical polishing, Electro polishing

Diaphragm: Double diaphragm: EPDM+PTFE; Single diaphragm: EPDM, FPM, Silicon

Operations: Manual/Pneumatic

Control: configurable, 1) Control Unit C-TOP, 2) positioner IL-TOP, 3) mechanical valve regulator, 4)

Position Sensor

### Installation Recommendations

According to different size, star design can be seven valves almost, besides, star design can consist of two opposed multiport valves, which are connected by public pipe.



## Multi port Diaphragm Valve M-62A

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### Technical Specifications

Multi port Diaphragm Valve M-62A

2 control valves, 6 ports

Dead zone =  $\leq 1D$

Size: 1"-2", DN25-DN50

Material: 316L/1.4404 , 1.4435 NB2 Fe < 0.5%

Temperature: -20°C +150°C

Pressure: 10bar

Inner Surface Treatment: Ra0.4 $\mu$ m, Mechanical polishing, Electro polishing

Diaphragm: Double diaphragm: EPDM+PTFE; Single diaphragm: EPDM, FPM, Silicon

Operations: Manual/Pneumatic

Control: configurable, 1) Control Unit C-TOP, 2) positioner IL-TOP, 3) mechanical valve regulator, 4)

Position Sensor



## Multi port Diaphragm Valve M-32E

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### Technical Specifications

Multi port Diaphragm Valve M-32E

2 control valves, 3 ports

Dead zone =  $\leq 1D$

Size: 1"-2", DN25-DN50

Material: 316L/1.4404, 1.4435 NB2 Fe < 0.5%

Temperature: -20°C +150°C

Pressure: 10bar

Inner Surface Treatment: Ra0.4 $\mu$ m, Mechanical polishing, Electro polishing

Diaphragm: Double diaphragm: EPDM+PTFE; Single diaphragm: EPDM, FPM, Silicon

Operations: Manual/Pneumatic

Control: configurable, 1) Control Unit C-TOP, 2) positioner IL-TOP, 3) mechanical valve regulator, 4)

Position Sensor





## Multi port Diaphragm Valve-M-32A

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### Technical specifications

Multi port Diaphragm Valve-M-32A

2 control valves, 3 ports

Three-way reversing valve

S1 suggested up installation

Dead zone =  $\leq 1D$

Size: 1"-2", DN25-DN50

Material: 316L/1.4404, 1.4435 NB2 Fe < 0.5%

Temperature: -20°C +150°C

Pressure: 10bar

Inner Surface Treatment: Ra0.4 $\mu$ m, Mechanical polishing, Electro polishing

Diaphragm: Double diaphragm: EPDM+PTFE; Single diaphragm: EPDM, FPM, Silicon

Operations: Manual/Pneumatic

Control: configurable, 1) Control Unit C-TOP, 2) positioner IL-TOP, 3) mechanical valve regulator, 4)

Position Sensor



## Multi port Diaphragm Valve M-32H

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### Technical specifications

Multi port Diaphragm Valve M-32H

2 control valves, 3 ports

Dead zone =  $\leq 1D$

Size: 1"-2", DN25-DN50

Material: 316L/1.4404, 1.4435 NB2 Fe < 0.5%

Temperature: -20°C +150°C

Pressure: 10bar

Inner Surface Treatment: Ra0.4 $\mu$ m, Mechanical polishing, Electro polishing

Diaphragm: Double diaphragm: EPDM+PTFE; Single diaphragm: EPDM, FPM, Silicon

Operations: Manual/Pneumatic

Control: configurable, 1) Control Unit C-TOP, 2) positioner IL-TOP, 3) mechanical valve regulator, 4)

Position Sensor



## Multi-channel bottom diaphragm valve MG-32B

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### Technical Specifications

Multi-channel bottom diaphragm valve MG-32B

2 control valves, 3 ports

A water point valve seat

Dead zone =  $\leq 1D$

Size: 1"-2", DN25-DN50

Material: 316L/1.4404, 1.4435 NB2 Fe < 0.5%

Inner Surface Treatment: Ra0.4 $\mu$ m, Mechanical polishing, Electro polishing

Diaphragm: Double diaphragm: EPDM+PTFE; Single diaphragm: EPDM, FPM, Silicon

Operations: Manual/Pneumatic

Control: configurable, 1) Control Unit C-TOP, 2) positioner IL-TOP, 3) mechanical valve regulator, 4) Position Sensor



## Multi port Diaphragm Valve M-53A

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### Technical Specifications

3 control valves, 5 ports

A water point valve seat

Two integrated closed-loop sampling valve seats

Suggest S1 up installation

Dead zone =  $\leq 1D$

Size: 1"-2", DN25-DN50

Material: 316L/1.4404, 1.4435 NB2 Fe < 0.5%

Temperature: -20°C +150°C

Pressure: 10bar

Inner Surface Treatment: Ra0.4 $\mu$ m, Mechanical polishing, Electro polishing

Diaphragm: Double diaphragm: EPDM+PTFE; Single diaphragm: EPDM, FPM, Silicon

Operations: Manual/Pneumatic

Control: configurable, 1) Control Unit C-TOP, 2) positioner IL-TOP, 3) mechanical valve regulator, 4)

Position Sensor



## Mini Pneumatic Diaphragm Valve

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### Technical Specifications

The structures of Mini Pneumatic Diaphragm Valve have T-type, L type, U-type, direct-way, multi-ports way, etc. It is mainly used in liquid sampling, biological systems, laboratories and other projects .

The valve is used in the pharmaceutical filling system with a particular advantage that opening and closing time can be up to 150 million life in 3 bar working pressure.

- Size: 1/4" - 3/4" , DN6-DN15
- Standard: BPE 3A DIN ISO IDF
- Certificate: PED/97/23/EC , 3A/54-04/1580 , FDA.177.2600
- Max Temperature: -30°C to 150°C (Depending on seal material)(Stainless steel actuator)
- Max Temperature: -30°C to 130°C (Depending on seal material)(Plastic actuator)
- Max Pressure: One way (DELTA P=100%)
  - EPDM 8bar, PTFE 6 bar(Option)
  - EPDM 6bar, PTFE 4.5 bar(Option)
  - Double action EPDM 8 bar, PTFE 6 bar
- Assembling different actuators can meet higher pressure rating.
- Forged Body: 1.4404/316L/1.4435 BN2
- Casting Body: 1.4404/316L
- Connection: Clamp, Weld, Thread, Flange
- Pneumatic actuators are suitable for body of direct-way, three way, multiport, weld parts, tank bottom valve



## Mini Manual Diaphragm Valve

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### Technical Specifications

It is mainly used in liquid sampling, biological systems, laboratories and other projects

The valve is used in the pharmaceutical filling system with a particular advantage that opening and closing times can be up to 150 million life in 3 bar working pressure.

- Size: 1/4 "-3/4", DN6-DN15
- Standard: BPE 3A DIN ISO IDF
- Certificate: PED/97/23/EC , 3A/54-04/1580 , FDA.177.2600
- Max Temperature: -30°C to 150°C (Depending on seal material)(Stainless steel actuator)
- Max Temperature: -30°C to 130°C (Depending on seal material)(Plastic actuator)
- Max Pressure: One way (DELTA P=100%)
  - EPDM8bar, PTFE 6 bar(Option)
  - EPDM6bar, PTFE 4.5 bar(Option)
  - Double action EPDM 8 bar , PTFE 6 bar
- Assembling different actuators can meet higher pressure rating.
- Forged Body: 1.4404/316L/1.4435 BN2
- Casting the body: 1.4404/316L
- Connection: Clamp, Weld, Thread, Flange
- Operations: Manual and pneumatic



## Mini Three way Diaphragm Valve

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### Technical specifications

Mini Three way Diaphragm Valve

- Size: 1/4 "-3/4", DN6-DN15
- Standard: BPE 3A DIN ISO IDF
- Certificate: PED/97/23/EC, 3A/54-04/1580, FDA.177.2600
- Max Temperature: -30°C to 150°C (Depending on seal material)(Stainless steel actuator)
- Max Temperature: -30°C to 130°C (Depending on seal material)(Plastic actuator)
- Max Pressure: One way (DELTA P=100%)
  - EPDM8 bar, PTFE 6 bar(Option)
  - EPDM6 bar, PTFE 4.5 bar(Option)
  - Double action EPDM 8 bar, PTFE 6 bar
- Assembling different actuators can meet higher pressure rating
- Forged Body: 1.4404/316L/1.4435 BN2
- Cast Body: 1.4404/316L
- Connection: Clamp, Weld, Thread, Flange
- Operations: Manual and pneumatic



## U-type Three way Mini Diaphragm Valve

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### Technical Specifications

U-type Three way Mini Diaphragm Valve

- Size: 1/4"-3/4", DN6-DN15
- Standard: BPE 3A DIN ISO IDF
- Certificate: PED/97/23/EC , 3A/54-04/1580 , FDA.177.2600
- Max Temperature: -30°C to 150°C (Depending on seal material)(Stainless steel actuator)
- Max Temperature: -30°C to 130°C (Depending on seal material)(Plastic actuator)
- Max Pressure: One way (DELTA P=100%)
  - EPDM8bar, PTFE 6 bar(Option)
  - EPDM6bar, PTFE 4.5 bar(Option)
  - Double action EPDM 8bar, PTFE 6bar
- Assembling different actuators can meet higher pressure rating.
- Forged Body: 1.4404/316L/1.4435 BN2
- Cast Body: 1.4404/316L
- Connection : Clamp, Weld, Thread, Flange
- Operations: Manual and pneumatic





## Mini Multiport Diaphragm Valve

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### Technical Specifications

Mini Multiport Diaphragm Valve is mainly used in liquid sampling, biological systems, laboratories and other projects. Valves have a dead zone =  $\leq 3D$

- Size: 1/4"-3/4", DN6-DN15
- Standard: BPE 3A DIN ISO IDF
- Certificate: PED/97/23/EC , 3A/54-04/1580 , FDA.177.2600
- Certificate: PED/97/23/EC , 3A/54-04/1580 , FDA.177.2600
- Max Temperature: -30°C to 150°C (Depending on seal material)(Stainless steel actuator)
- Max Temperature: -30°C to 130°C (Depending on seal material)(Plastic actuator)
- Max Pressure: One way (DELTA P=100%)
  - EPDM 8 bar, PTFE 6 bar (Option)
  - EPDM 6 bar, PTFE 4.5 bar (Option)
  - Double action EPDM 8 bar, PTFE 6 bar
- Assembling different actuators can meet higher pressure rating.
- Forged Body: 1.4404/316L/1.4435 BN2
- Cast Body: 1.4404/316L
- Connection: Clamp, Weld, Thread, Flange
- Operations: Manual and pneumatic



## Three-way Diaphragm Valve

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### Technical Specifications

Three-way diaphragm valves, manually or pneumatically operated, it is specifically designed for hygienic and aseptic processes in the pharmaceutical industries.

- ⊙ Size: 1"-4", DN25-DN100
- ⊙ Pressure: 10bar (145 PSI)
- ⊙ Material: ASTM 316L, 1.4404,1.4435 NB2 Fe <0.5%
- ⊙ Temperature: -20 °C + 150 °C
- ⊙ Connection: Clamp, Weld, Thread, 3A BPE DIN SMS IDF ISO
- ⊙ Body structure: U type tee + sampling valve; U-type links
- ⊙ Diaphragm material: EPDM + PTFE (double layer) / EPDM / Silicon / FPM (Viton)
- ⊙ Certificate: 3A-54-02 / 1580, PED 97/23 EC, FDA177.2600



## U type Three way Diaphragm Valve U-C

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### Technical Specifications

U-type three-way diaphragm valves, manually or pneumatically operated, It is specifically designed for use on hygienic and aseptic processes in the pharmaceutical industries.

- ⊙ Size: 1"-4", DN25-DN100
- ⊙ Pressure: 10bar (145 PSI)
- ⊙ Material: ASTM 316L, 1.4404,1.4435 NB2 Fe <0.5%
- ⊙ Temperature: -20 °C + 150 °C
- ⊙ Connection: Clamp, Weld, Thread, 3A BPE DIN SMS IDF ISO
- ⊙ Body structure: U type tee + sampling valve; U-type links
- ⊙ Diaphragm material: EPDM + PTFE (double layer) / EPDM / Silicon / FPM (Viton)
- ⊙ Certificate: 3A-54-02 / 1580, PED 97/23 EC, FDA177.2600



## U type Three way Diaphragm Valve U-B

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### Technical Specifications

U type Three way Diaphragm Valve U-B

- ⊙ Size: 1"-4", DN25-DN100
- ⊙ Pressure: 10bar (145 PSI)
- ⊙ Material: ASTM 316L, 1.4404, 1.4435 NB2 Fe <0.5%
- ⊙ Temperature: -20 °C + 150 °C
- ⊙ Connection: Clamp, Weld, Thread, 3A BPE DIN SMS IDF ISO
- ⊙ Body Structure: U type tee + sampling valve; U-type links
- ⊙ Diaphragm Material: EPDM + PTFE (double layer) / EPDM / Silicon / FPM (Viton)
- ⊙ Certificate: 3A-54-02 / 1580, PED 97/23 EC, FDA177.2600



## Pneumatic Diaphragm Valve with Control Unit

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### Pneumatic Diaphragm Valve with Mini C-TOP

- ⊙ Size: 1"-4", DN25-DN100
- ⊙ Pressure: 10bar (145 PSI)
- ⊙ Material: ASTM 316L, 1.4404,1.4435 NB2 Fe <0.5%
- ⊙ Temperature: -20 °C + 150 °C (EPDM) -4 °F + 302 °F (+ 140 °C (SIP, 30) 284 °F)
- ⊙ Connection: Clamp, Weld, Thread, 3A BPE DIN SMS IDF ISO
- ⊙ valve body structure: straight, tee, U-tee, tank bottom valve, multi-channel diaphragm
- ⊙ Diaphragm Material: EPDM + PTFE (double layer) / EPDM / Silicon / FPM (Viton)
- ⊙ Certificate: 3A-54-02 / 1580, PED 97/23 EC, FDA177.2600

### Mini C-TOP

Mini C-TOP is a section control unit, connecting with PLC to achieve automation control.

The valve opens - green light

The valve closes - red light

Design with dynamic button (manual design)

Power Supply: DC 24 V ±10%

Source: M5 / Φ 4



## Electric regulating Diaphragm Valve

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### Electric regulating Diaphragm Valve

Electric regulating Diaphragm Valve has torque, stroke, self adaptive function, freely adjusting the direction of opening and closing.

Power: DC24V / AC110V / 220V

Executive Functions:

Switch Type: input and output signals feedback

Adjustment Type: signal input 0-10V, feedback 2-10V

Self-adaptive Valve Setting

Support for manual operation

Support body sensors or objects sensors, activate valve to open or close

Stroke Time: ON to OFF = 90S, 150S

Size: 1"-4", DN25-DN100

Material: ASME BPE 316L, 1.4404,1.4435 NB2 Fe <0.5%

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