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# **Three-Piece Model Flanged Ball Valve**

# **Technical Specifications**

Specifications: 1/2"-4",DN10-DN100

Material: CF8/304, CF8M/316

Strength Test Pressure: 1000WOG,2000WOG

Sealing Pressure: 1.6Mpa

Applicable Temperature : -40°C-180°C



# **Pneumatic Flanged Ball Valve**

# **Pneumatic Ball Valve Type**

Pneumatic Flanged Ball Valve、Pneumatic Three Pieces of Thread Ball Valve、Pneumatic Three Welded Ball Valve.



# **Leak-Proof Ball Valve**

# **Integral Leak-Proof Ball Valve**

Nominal Pressure: PN1.6, 2.5, 4.0, 6.4MPa Strength Test Pressure: PT2.4, 3.8, 6.0, 9.6MPa

Low Pressure Seal Pressure Test: 0.6MPa Applicable Temperature: -40~180°C

Material: CF8、CF8M



# **Three-Way Ball Valve**

# **Three-Way Female Threaded Ball Valve**

Specifications: DN8-DN50,1/2"-2"

Material:CF8、CF8M

Applicable Temperature : -40~180°C

Nominal Pressure: PN1.6, 2.5, 4.0, 6.4MPa



# **Flanged Ball Valves**

# **Thin Type Flange Ball Valve**

Specifications : DN15-DN100

⊚Nominal Pressure: PT1.6, 2.5, 4.0, 6.4MPa Strength test Pressure: PT2.4, 3.8, 6.0, 9.6MPa 

Q41F-(16-64)P nitric acid Q41F-(16-64)R acetic acid



# **Female Thread Ball Valve**

# **Technical Specifications**

Specifications: 1/2"-4",DN10-DN100

Material: CF8/304, CF8M/316

Strength Pressure: 1000WOG,2000WOG

Sealing pressure: 1.6Mpa

Applicable Temperature : -40°C-180°C



# 2-PCS Ball Valve

#### 2-PCS Ball Valve

Specifications: 1/2"-4",DN10-DN100

Material: CF8/304, CF8M/316

Strength Pressure: 1000WOG,2000WOG

Sealing Pressure: 1.6Mpa

Applicable Temperature : -40°C-180°C



# **3-PCS Ball Valve**

#### 3-PCS Ball Valve

Specifications: 1/2"-4",DN10-DN100

Material: CF8/304, CF8M/316

Strength Pressure: 1000WOG,2000WOG

Sealing Pressure: 1.6Mpa

Applicable Temperature : -40°C-180°C



# Tank bottom ball valve

## **Application**

- The tank bottom ball valve is used for pressure vessels and storage tanks of draining and discharging with the fully inclusive designed ball seat and compensation automatic type sealing. So it has advantage of high pressure, high temperature resistance, small torque, long life and other characteristics to meet CIP and SIP cleaning and sterilization. It is very suitable for the application in high cleanliness requirements in process systems such as pharmaceutical, food and beverage, dairy products, chemical industry etc..
- Tank bottom ball valve can configure a variety of different actuators, electric, pneumatic and manual are interchangeable.

## **Design Features**

•Size: 1"-4",DN25-DN100

Material: 304/1.4301, 316L/1.4404
Max. temperature: -30°C - 130°C
Max.Pressure: Vacuum -10bar
Operating torque is small

Excretable

- •No matter what the flow fluid is, the handle can be mounted on the side of the valve body
- •No matter what kind of connection is, the valve can be replaced without change the length of valve.



### Pneumatic tank bottom ball valve

## **Application**

- •The tank bottom ball valve is used for pressure vessels and storage tanks of draining and discharging with the fully inclusive designed ball seat and compensation automatic type sealing. So it has advantage of high pressure, high temperature resistance, small torque, long life and other characteristics to meet CIP and SIP cleaning and sterilization. It is very suitable for the application in high cleanliness requirements in process systems such as pharmaceutical, food and beverage, dairy products, chemical industry etc..
- •Pneumatic tank bottom ball valve can configure a variety of different actuators, electric, pneumatic and manual are interchangeable.

## **Design Features**

•Size: 1"-4",DN25-DN100

Material: 304/1.4301, 316L/1.4404
Max. temperature: -30°C - 130°C
Max.Pressure: Vacuum -10bar
Operating torque is small

Excretable

- •No matter what the flow fluid is, the handle can be mounted on the side of the valve body
- •No matter what kind of connection is, the valve can be replaced, without change the length of valve



# **Electric butterfly ball valve**

## **Application**

•The Electric butterfly ball valve can be installed in pipeline and equipment with process controller, such as food, beverages, wine, dairy products, pharmaceutical and other high technology requirements of the pipeline.

### **Design Features**

•Size: 1"-4", DN25-DN100

Material: 304/1.4301, 316L/1.4404
Max. temperature: -30°C - 130°C
Max. pressure: Vacuum to 10bar

Small torque moment

Excretable(Washable CIP) (option)

•Handle can be installed on the side of the valve body, no matter what the flow direction is.

• Valve body can be replaced in any connections. And the length will not change.

### **Electric Actuator**

Electric actuator: switch type, regulating type, passive contact

Power Supply: DC 24V AC 110V 220V Opening and closing time: 10/S-100/S

Torque: 6N.M - 2000N.M Protection grade: IP67

Explosion-proof: EX DII BT4 (option)



# Horizontal pneumatic butterfly ball valve

## **Application**

•Horizontal pneumatic butterfly ball valve can be installed in pipeline and equipment with process controller, such as food, beverages, wine, dairy products, pharmaceutical and other high technology requirements of the pipeline.

### **Design Features**

•Size: 1"-4", DN25-DN100

Material: 304/1.4301, 316L/1.4404
Max. temperature: -30°C - 130°C
Max. pressure: Vacuum to 10bar

•Small torquemoment

- Excretable(Washable CIP) (option)
- •Handle can be installed on the side of the valve body, no matter what the flow direction is.
- Valve body can be replaced in any connections. And the length will not change.



# pneumatic butterfly type ball valve with C-TOP

# **Application**

•Pneumatic butterfly type ball valve with C-TOP can be installed in pipeline and equipment with process controller, such as food, beverages, wine, dairy products, pharmaceutical and other high technology requirements of the pipeline.

### **Design Features**

•Size: 1"-4", DN25-DN100

Material: 304/1.4301, 316L/1.4404
Max. temperature: -30°C - 130°C
Max. pressure: Vacuum to 10bar

Small torquemoment

- Excretable(Washable CIP) (option)
- •Handle can be installed on the side of the valve body, no matter what the flow direction is.
- Valve body can be replaced in any connections. And the length will not change.

#### **Control Unit**

•Control unit: DC 24V±10%

- •Single-acting (standard), double acting (option)
- Self-adjusting valves feature feedback
- •Supports analog signal (4-20mA) & amp; electrical signal (DC24V) Output
- •Support AS-I BUS bus
- Supports manual and automatic operation



# Pneumatic butterfly type ball valve

# **Application**

•Pneumatic butterfly type ball valve can be installed in pipeline and equipment with process controller, such as food, beverages, wine, dairy products, pharmaceutical and other high technology requirements of the pipeline.

### **Design Features**

•Size: 1"-4", DN25-DN100

Material: 304/1.4301, 316L/1.4404
Max. temperature: -30°C - 130°C
Max. pressure: Vacuum to 10bar

Small torquemoment

- Excretable(Washable CIP) (option)
- •Handle can be installed on the side of the valve body, no matter what the flow direction is.
- Valve body can be replaced in any connections. And the length will not change.



# **Butterfly type ball valve**

# **Application**

•Butterfly type ball valve can be installed in pipeline and equipment with process controller, such as food, beverages, wine, dairy products, pharmaceutical and other high technology requirements of the pipeline.

## **Design Features**

•Size: 1"-4",DN25-DN100

Material: 304/1.4301, 316L/1.4404
Max. temperature: -30°C - 130°C
Max. pressure: Vacuum to 10bar

•Small torquemoment

- Excretable(Washable CIP) (option)
- •Handle can be installed on the side of the valve body, no matter what the flow direction is.
- Valve body can be replaced in any connections. And the length will not change.



# Horizontal pneumatic non-retention ball valve

### Horizontal pneumatic non-retention ball valve

Horizontal pneumatic non-retention ball valve is full inclusive ball seat design that solves the problem of the liquid holdup of the valve cavity. The ball valve is suitable for bio pharmaceutical engineering. Stem seal in patent design and spring in compensation type design have advantage of long life, low torque, long-term use under high temperature 150 °C

### **Design Features**

Size : 1/2"-4",DN10-DN100 Temperature : -30°C - 150°C

pressure: 10bar

Material: 304/1.4301,316L/1.4404

Surface : Ra≤0.5µm Gasket:FDA 177.1550

Connection: Clamp, weld, thread, DIN, SMS, ISO, IDF, BPE, RJT

### **Electric Actuator**

Function: switch type, adjustment type, passive contact

Power supply: DC 24V AC 110V 220V

The opening and closing time: 10/S-100/S

Torque: 6N.M to 2000N.M Protection: IP67 grade

Explosion-proof: EX DII BT4 (option)



# **Electric non-retention ball valve**

## **Application**

Electric non-retention ball valve is mainly used in the processing and beverage, wine, oil refining, cosmetics and chemical industries.

### **Design Features**

•Body Structure: straight way,3 way

•Size : 1"-4",DN25-DN100 •Temperature : -20°C - 120°C

•Pressure: 10-bar

Material : AISI 304 316LCertificate : PED , 97/23EC

### **Electric Actuator**

Function: switch type, adjustment type, passive contact

Power supply: DC 24V AC 110V 220V

The opening and closing time: 10/S-100/S

Torque: 6N.M to 2000N.M Protection: IP67 grade

Explosion-proof: EX DII BT4 (option)



# Clamp non-retention ball valve

## **Application**

Clamp non-retention ball valve is in full inclusive ball seat design that solves the problem of the liquid holdup of the valve cavity The ball valve is suitable for bio-pharmaceutical engineering.

### **Design Features**

•Size: 1/2"-3",DN10-DN80

•Material: 304/1.4301,316L/1.4404

•Surface : Ra≤0.5µm

●Temperature: -30°C - 150°C

• Pressure: 10bar

• Valve combination clamp connection

•Without professional tools that disassembling the valve

•Small operating torque

•Gaskets:FDA 177.2600

•Connection: Clamp, weld, thread, DIN、SMS、ISO、IDF、BPE、RJT

•No matter what the connection mode is, the valve body can be replaced without changing the length of valve



## Manual non-retention ball valve

#### Manual non-retention ball valve

Manual non-retention ball valve is full inclusive ball seat design that solves the problem of the liquid holdup of the valve cavity. The ball valve is suitable for bio pharmaceutical engineering. Stem seal in patent design and spring in compensation type design have advantage of long life, low torque, long-term use under high temperature 150 °C

### **Design Features**

Size: 1"-4", DN25-DN100

Material: 1.4301/304,316L/1.4404 Gasket: PTFE,TFM(FDA 177.1550)

Max. temperature : -20°C - 150°C(Standard)-30°C - 200°C(Option) Pressure:10-30bar(Depending on seal material and temperature)

Manual, pneumatic, electric Exchange

- •Without professional tools that disassembling the valve
- Small operating torque
- •Gaskets:FDA 177.2600
- •Connection : Clamp, weld, thread, DIN、SMS、ISO、IDF、BPE、RJT
- •No matter what the connection mode is, the valve body can be replaced, the total length without changing the valve

Certificate: 3-A-68-00, PED/97/23/EC



## Proportional regulating ball valve

### Proportional regulating type ball valve

Proportional regulating ball valve with a variety of structures, such as 3way, straight way, butterfly design, no dead angle design, can be applied to work in high requirements of clean environment, such as pharmaceutical, food and beverage, wine, chemical industry etc. The ball valve meets operating temperature up to 150°C, pressure up to 10bar, innersurface roughness Ra0.5  $\mu$  m and 3A standards and ASME BPE high purity requirements

## **Design Features**

Signal Input: 0/4-20mA, 0-5/10V

Signal feedback output: 0/4-20mA, 0-5/10V

Supports bus: DEVICE NET BUS

Support manual operation
Single key self-tuning function
Power Supply: DC 24V ±10%
Size: 1/2"-4",DN10-DN100
Temperature: -30 ℃-150℃

Pressure: 10bar

Material: 304/1.4301,316L/1.4404

Surface : Ra≤0.5µm Gaskets:FDA 177.1550

Connection: Clamp, weld, thread, DIN, SMS, ISO, IDF, BPE, RJT

No matter what the connection mode is, the valve body can be replaced

Certificate: 3-A-68-00, PED/97/23/EC



## Non-retention ball valve

#### Non-retention ball valve

Non-retention ball valve is full inclusive ball seat design that solves the problem of the liquid holdup of the valve cavity, the ball valve is suitable for bio pharmaceutical engineering. Stem seal in patented design and spring in compensation type design, have advantage of long life, low torque, long-term use of high temperature 150 °C

### **Design Features**

Size: 1"-4", DN25-DN100

Material: 1.4301/304,316L/1.4404 Gasket: PTFE,TFM(FDA 177.1550)

Max. temperature : -20°C - 150°C(Standard)-30°C - 200°C(Option) Pressure:10-30bar(Depending on seal material and temperature)

Manual, pneumatic, electric Exchange

- •Without professional tools that disassembling the valve
- Small operating torque
- •Gaskets:FDA 177.2600
- •Connection: Clamp, weld, thread, DIN, SMS, ISO, IDF, BPE, RJT
- •No matter what the connection mode is, the valve body can be replaced and the total length won't chang

Certificate: 3-A-68-00, PED/97/23/EC



## No retention ball valve

#### No retention ball valve

No retention ball valve is an all-inclusive ball seat design that solves the problem of the ball valve liquid retention valve cavity. This ball valve is suitable for biopharmaceutical engineering. Patented stem seal design, spring-compensated design, long life, low torque, long-term high temperature 150 °C.

## **Design and features**

Specifications: 1/2"-4", DN10-DN100

Temperature: -30 to 150 ° C

Pressure: 10bar

Material: 304/1.4301, 316L/1.4404

Surface: Ra≤0.5µm

Manual, pneumatic, electric interchange

Disassemble the valve dimension without disassembling the pipe

Low steering torque

Washers according to FDA 177.1550

Connection: clamp, welding, thread, DIN, SMS, ISO, IDF, BPE, RJT

The valve body can be replaced regardless of the connection method.

Certification: 3-A-68-00, PED/97/23/EC



# Appearance & internal non retention ball valve

## **Appearance & internal non retention ball valve**

Appearance & internal non retention ball valve is an all-inclusive ball seat design that solves the problem of the ball valve liquid retention valve cavity. The ball valve is suitable for biopharmaceutical engineering.

Patented stem seal design, spring-compensated design, long life, low torque, long-term high temperature 150  $^{\circ}$ C.

### **Design and features**

Specifications: 1/2"-4", DN10-DN100

Temperature: -30 to 150 ° C

Pressure: 10bar

Material: 304/1.4301, 316L/1.4404

Surface: Ra≤0.5µm

Manual, pneumatic, electric interchange

Disassemble the valve dimension without disassembling the pipe

Low steering torque

Washers according to FDA 177.1550

Connection: clamp, welding, thread, DIN, SMS, ISO, IDF, BPE, RJT

The valve body can be replaced regardless of the connection method.

Certification: 3-A-68-00, PED/97/23/EC



# Appearance & internal non-retaining ball valve

## **Appearance & internal non-retaining ball valve**

Appearance & internal non-retaining ball valve is an all-inclusive ball seat design that solves the problem of the ball valve liquid retention valve cavity. The ball valve is suitable for biopharmaceutical engineering.

Patented stem seal design, spring-compensated design, long life, low torque, long-term high temperature 150  $^{\circ}$ C.

### **Design and features**

Specifications: 1/2"-4", DN10-DN100

Temperature: -30 to 150 ° C

Pressure: 10bar

Material: 304/1.4301, 316L/1.4404

Surface: Ra≤0.5µm

Manual, pneumatic, electric interchange

Disassemble the valve dimension without disassembling the pipe

Low steering torque

Washers according to FDA 177.1550

Connection: clamp, welding, thread, DIN, SMS, ISO, IDF, BPE, RJT

The valve body can be replaced regardless of the connection method.

Certification: 3-A-68-00, PED/97/23/EC



# **Electric ball valves**

## **Application**

Electric ball valves is mainly used in the processing of beverages, wine, oil, cosmetics and chemical industry.

# **Design Features**

Body Structure: straight, 3 way
Size: 1"-4",DN25-DN100
Temperature: -20°C - 120°C

•Pressure: 10-bar

Material : AISI 304 316LCertificate : PED , 97/23EC

#### **Electric Actuator**

Function: switch type, adjustment type, passive contact

Power supply: DC 24V AC 110V 220V The open and close time: 10/S-100/S

Torque: 6N.M to 2000N.M Protection: IP67 grade

Explosion-proof: EX DII BT4 (option)



# **Electric regulating valve**

## **Electric regulating ball valve**

- Standard switching type (B-type) makes valves on/off by switching circuit with outputing active contacts signal to show a fully open or fully closed state of valve.
- Smart modulating type (A-type) realizes intelligent regulation and control through receiving a standard output signal 4-20mA.DC, 0-10V.DC or 1-5V.DC from computer or industrial instrument as well as outputs 4-20mA.DC standard feedback signal.
- Torque from 6N.M to 2000N.M
- Operating time from 7s to 100S

## **Technical specifications**

Size: 1 "-4", DN25-DN100

Material: 304 / 316L

Pressure: 10bar

Temperature: -30 to 150 °C



# Horizontal pneumatic straight ball valve

## **Applications**

Horizontal pneumatic straight ball valve, Both manually and automatically operated ball valve are mainly used in processing beverages, wine, oil refining, cosmetics and chemical industries.

### **Design Features**

•Size : 1"-4",DN25-DN100 •Temperature : -20°C - 120°C

•Pressure: 10-bar

Material: AISI 304 316LGaskets: PTFE FDA 177.1550

- •No matter what kind of liquid flow is, the handle can be mounted on the side of the valve body
- •Whatever the connection is, it does not change the total length of the valve
- •Connection : Clamp, weld, thread, flange, DIN、SMS、RJT、FIL
- Material contact partsAISI 304/316L

Other parts AISI 304

•Certificate: PED, 97/23EC



# Ball valve with thermal insulation jacket

## **Applications**

Ball valve with thermal insulation jacket, both manually or automatically operated valve are mainly used in processing beverages, wine, oil refining, cosmetics and chemical industries.

Thermal insulation ball valve, the valve housing is designed with a jacket in order to achieve optimum heat transfer. It can protect the easy solidification sensitive medium from solidation, such as chocolate, margarine or similar media.

### **Design Features**

•Size : 1"-4",DN25-DN100 •Temperature : -20°C - 120°C

•Pressure: 10-bar

Material: AISI 304 316LGaskets: PTFE FDA 177.1550

- •No matter what kind of liquid flow is, the handle can be mounted on the side of the valve body
- •Whatever the connection is, it does not change the total length of the valve
- •Connection: Clamp, weld, thread, flange, DIN、SMS、RJT、FIL
- •Material contact parts AISI 304/316L

•Other parts AISI 304

•Certificate: PED, 97/23EC



### Pneumatic ball valve with C TOP

### **Applications**

Pneumatic ball valve with C TOP, Both manually and automatically operated valve are mainly used in processing beverages, wine, oil refining, cosmetics and chemical industries.

### **Design Features**

•Size: 1"-4",DN25-DN100 •Temperature: -20°C - 120°C

• Pressure : 10-bar

Material: AISI 304 316LGaskets: PTFE FDA 177.1550

- •No matter what kind of liquid flow is, the handle can be mounted on the side of the valve body
- •Whatever the connection is, it does not change the total length of the valve
- •Connection : Clamp, weld, thread, flange, DIN、SMS、RJT、FIL
- •Material contact partsAISI, 304/316L

Other parts AISI 304

•Certificate: PED, 97/23EC

#### **Control Unit**

Power supply : DC 24V±10%

- •Single-acting (standard), double acting (option)
- •Self-adjusting valves feature feedback
- •Supports analog signal (4-20mA) & amp; electrical signal (DC24V) Output
- •SupportsAS-I BUS
- Supports manual and automatic operation



# Pneumatic straight ball valve

## **Applications**

Pneumatic straight ball valve, both manually and automatically operated valve are mainly used in processing beverages, wine, oil refining, cosmetics and chemical industries.

Thermal insulation ball valve, the valve housing is designed with a jacket, in order to achieve optimum heat transfer. It can protect the easy solidification sensitive medium from solidation, such as chocolate, margarine or similar media.

### **Design Features**

Size: 1"-4",DN25-DN100Temperature: -20°C - 120°C

•Pressure: 10-bar

Material: AISI 304 316LGaskets: PTFE FDA 177.1550

- •No matter what kind of liquid flow is, the handle can be mounted on the side of the valve body
- •Whatever the connection is, it does not change the total length of the valve
- •Connection : Clamp, weld, thread, flange, DIN、SMS、RJT、FIL
- •Material contact partsAISI, 304/316L
- •Other parts AISI 304
- •Certificate: PED, 97/23EC



# Proportional regulating ball valve

## **Applications**

Regulating type ball valve is divided into two way, three way, tank bottom ball valveand so on, flow control device is design for dairy, food processing industry, beverage manufacturing, pharmaceutical and fine chemical industry. The most important application is pressure control, flow control, liquid level, etc.

### **Working principle**

- Pneumatic regulating type ball valve controlled by positioner to achieve flow control (PD) may also adopt self position and flow adjustment (PID) by intelligent process controller.
- Size: 1 "-4", DN25-DN100
- Material: 304 / 1.4301,316L / 1.4404
- Maximum temperature: -30 to 150 ℃
- Maximum pressure: vacuum to 10bar
- 0/4 ... 20mA to 0 ... 5 / 10V (basic type)
- 0/4 ... 20mA position feedback output (option)
- Device NET bus control (option)
- Single action / double action (option)
- Connection: clamp, thread, weld, flange, DIN SMS RJT ISO
- Certificate: 3-A-68-00, FDA 177.1550, PED / 97/23 / EC



# **Straight Ball valve**

## **Applications**

Straight Ball valve, both manually and automatically operated valve are mainly used in processing beverages, wine, oil refining, cosmetics and chemical industries.

### **Design Features**

•Size : 1/2"-4",DN10-DN100 •Temperature : -20°C - 120°C

•Pressure: 10-bar

•Material: AISI 304 316L

•Smaller and lighter than the other valve

Operating torque is small

•Gaskets:PTFE FDA 177.1550

•Whatever the connection is, it does not change the total length of the valve

•Connection : Clamp, weld, thread, Flange, DIN、SMS、RJT、FIL

•Can be equipped with pneumatic actuators, electric actuators

•Material contact parts:AISI, 304/316L

•Certificate: PED/97/23/EC

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