VMV Bellows Seal Valve Series: Covers All Safety Requirements

Bellows valves bring the reliability, safety and efficiency of flammable, explosive, highly toxic and radioactive pipelines to a new level.

If they are seamlessly connected to industrial automation systems, they will greatly reduce energy losses and operating costs.

No matter what challenges they face, the VMV bellows valve series can give full play to the sealing potential suitable for various harsh operating environments.
The core theme of VMV is closely connected to Valve (Valve), doing our best (Max), helping customers succeed (Victory). Whenever and wherever special fluids need to be transported, controlled or shut down, the global customers rely on our expertise and products. VMV is committed to providing customers with the best advice, superior quality, highest reliability, as well as the reliable service.

Make security eternal. Welcome to VMV.

Introduction

Trust:
It’s what our brand’s about

Founded in 2005, Newton is headquartered in Oubei, Wenzhou. It is an enterprise specialized in bellows valve, integrating R&D, production, sales and service. With more 50 million yuan registered capital, Newton now is a no-area limited enterprise, national high-tech enterprise, and industry-specific benchmarking enterprise, owning nearly 50 acres of intellectual production bases in Wenzhou and Qingtian.

Newton is fully covered by ISO9001 system and has approved by TS special equipment A-level certification, CE, API and TUV. The main product bellows valves and other sexy products enjoy a high reputation, especially in the applications of heat transfer oil, steam, chlor-alkali, etc., and the popularity and reputation are widely recognized. Products are sold to more than 30 countries and regions in Europe, America, Asia, Africa, and the Middle East.

Newton focuses on intelligent device introduction and information application. It has a CAD valve design center, a 3D simulation manufacturing test design system and a new product development center. It owns special machining equipment such as machining centers, intelligent special CNC machines, welding robots and automatic testing equipment that has been developed together with a European leading intelligent testing equipment company. Newton is one of the first pump and valve enterprises apply Cloud Platform, which owns professional MES system and APS automatic selection software. By integrating R&D, production, logistics, finance, sales and service modules, the Platform can accurately recommend suitable products to customers.

Newton follows the spirit of “profession, integrity, efficiency, innovation”. Newton will never forget our initial intention and forge ahead.
Technical Objectives: Design valves and systems for safe and energy-saving operation

From suppliers to partners: All-round Professional Knowledge Creates Additional Value

When users describe their needs, we listen carefully. We know almost every dangerous transportation safety scheme with extreme temperature and pressure requirements, and provide the right valves and services for each application. Sometimes this means a standard product, sometimes a complete customized solution. It consists of working condition consultation, valves, proven automation and drive technology and a set of services designed to meet each need, which makes VMV one of the best choices for your partners. VMV is designed with conical seal and bellows and packing. Research and development of new experimental materials to provide outstanding wear resistance and corrosion resistance. Advanced hydraulic simulation software helps us optimize the flow process of valves, and our customers benefit from safety cycles, improved energy efficiency and reduced operating costs.
Introduction

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Manufacturing And Coated Sand Casting

Sealing technology

Conical seal design: It can magnify the axial force of valve stem when it is transformed into sealing force. Under the same pressure, greater sealing specific pressure can be obtained. Closing is easier and sealing performance is better.

Double Seal Design: Bellows and packing have double safety, which makes the sealing at the valve stem safer and more reliable, and conforms to international sealing standards.

Protective Space Design of Bellows: Bellows are sealed in a sealed space and are not directly affected by media, pressure and temperature.

Low noise, low flutter: Equipped with special device (Newton Patent), it can effectively reduce the vibration of valve in operation.

< 60 dB

† 150%
Absolute reliability: Bellows Sealed Valve Made by VMV

Not only is it safe, but it is also an efficient energy-saving device in factories.

All over the world, VMV valves are always in operation in the fields of industrial processes, special media transmission or energy conversion.

VMV takes the lead in customizing and introducing valve automatic processing center, Spanish automatic testing equipment, Oxford spectrometer, micro-computer controlled CO2 gas shielded surfacing machine, low temperature impact testing machine, tension testing machine, torque and life testing equipment to ensure quality and safety.

Whenever and wherever we are, we will meet the needs of our customers with the most economical solutions. Our products are in the leading position in the field of energy efficiency, which is the result of precise design and selection. Efficient automatic control system helps customers to play the potential of energy saving, in order to maintain the safe and economic operation of our customers’ factories.
Introduction

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Casting Technology of German Coated Sand

Body Smoothness
12.5 – 25 Micron

>98%
No Stomata, Sand Holes And Cracks

100%
Effective Wall Thickness Up To Standard

Corrugated Pipe

Extended, multivall, anti-torsion and long life bellows can completely refresh the opening and closing life of domestic bellows, up to 10,000 times.

Opening And Closing Life
10,000 (MAX)

100% of bellows pass the fugacity test according to ISO15848A standard when they leave the factory.

100% of all bellows components and valves pass the standard A level test to ensure zero leakage.

Leakage

Technical Analysis
Best support

Throughout the lifecycle of your system, you can count on VMV’s comprehensive product line, second only to engineers’ expertise, comprehensive advice and support. After all, as a reliable partner, we understand your situation, so we offer application solutions tailored to your needs.

For decades, VMV has been thinking and operating globally. We produce in China, with a global network of close distributors and service network support, so no matter where you work, we are at your side.
Professional products and applications suitable for various occasions

When our customers are facing complex conditions, we have been working with them since the first day. Whether they want planning guidance, specially designed components or help with debugging, they will find many reasons to choose VMV.

We produce all kinds of standard bellows sealed valves, each application has ideal materials, hydraulic systems and driving devices, and carefully match the needs of customers. Our high quality products ensure safe, reliable and efficient operation.

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**DIN STANDARD BELLOW SEAL GLOBE VALVE (PLUS)**

**Product Advantages**
- Conical Disc Design
- Double Seal Design
- Coated Sand Casting Technology

**Specifications**
- Design standard: DIN 3356
- Face to face dimension: DIN 3202
- Flanged ends: DIN 2543.2545
- Test & inspection: DIN 3236

**Application**
Hot Oil System, Steam System, Hot and Cold Water System etc.

**PERFORMANCE SPECIFICATION**

<table>
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<th>Nominal Pressure</th>
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<tr>
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<tr>
<td>Sealing test</td>
<td>1.1PN</td>
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<td>Air test</td>
<td>0.6</td>
</tr>
<tr>
<td>Bellows test</td>
<td>1.1PN</td>
</tr>
</tbody>
</table>

Suitable temp: -196°C to 600°C

**Material of Main Parts and Components**
- Body: 1.0669 (SS C25) - 1.4401 - 1.4408
- Seat: 1.4301 - Stellite
- Disc: 1.4021 - 1.4401-Stellite
- Pin: 1.4301 - 1.4401
- Bellows: 1.4301 - 1.4401
- Stem: 20C13 - F904 - F316
- Gasket: Flexible graphite + stainless steel
- Bonnet: 1.0669 (SS C25) - 1.4401 - 1.4408
- Nut: ASTM 19-2H - A194B
- Double-headed Bolt: ASTM 19-47 - A193B

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**DIN STANDARD BELLOW SEAL GLOBE VALVE (DUCTILE IRON)**

**Product Advantages**
- Conical disc design. Benefit from the cone and streamlined shape design, the disc can remove the impurity, keep valves in reliable seal and longer service life.
- Double seal design (bellows packing). Bellows form a metal seal to prevent leakage, and packing can provide seal if the bellows failed.
- Patented internal locate design. It can protect stem from tremble and lower noise, so the bellows is with stable performance and long service life.
- Coated sand casting technology. Sand mixed with binder and other additives, which makes the rough casting with less defects like pores, trachomas and cracks, and better tensile strength.

**Specifications**
- Design standard: DIN 3356
- Face to face dimension: DIN 3202
- Flanged ends: DIN 2543.2545
- Test & inspection: DIN 3236

**Application**
Hot Oil System, Steam System, Hot and Cold Water System etc.

**PERFORMANCE SPECIFICATION**

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<tr>
<td>Bellows test</td>
<td>1.1PN</td>
</tr>
</tbody>
</table>

Suitable temp: -10°C to 350°C

**Material of Main Parts and Components**
- Body: J1904 (GGG40)
- Seat: 1.4301 - Stellite
- Disc: 1.4021 - 1.4401-Stellite
- Pin: 1.4301 - 1.4401
- Bellows: 1.4301 - 1.4401
- Stem: 20C13 - F904 - F316
- Gasket: Flexible graphite + stainless steel
- Bonnet: J1904 (GGG40)
- Nut: ASTM 19-2H - A194B
- Double-headed Bolt: ASTM 19-47 - A193B
- Packing: Flexible graphite
- Gland: 1C25 - 1.4401 - 1.4408
- Locating: 1C25
- Stem nut: Copper alloy - D2 - 6L2
- Hand Wheel: 10239/K71338
- Cap: 1C45
**DIN STANDARD BELLOW SEAL GLOBE VALVE (EXTEND)**

**Product Advantages**

- Extended bellow sealed globe valve is the latest patented product in our company. The key part mental bellow is sealed in the extended space. Consequently pressure and temperature of medium will not affect the bellow and it will have a longer service life.
- The seal element of storage is a reliable material for high temperature and corrosion conditions, which will form a triple seal. It provides more reliable performance.

**Specifications**

- Design standard: DIN 3356
- Face to face dimension: DIN 3202
- Flanged ends: DIN 2543-2545
- Test & inspection: DIN 3230

**Application**

Hot Oil System, Steam System, Hot And Cold Water System Etc.

**Material of Main Parts and Components**

- **Body**: 1.0619+(NGS-GS) 1.4301, 1.4408
- **Seal**: 1.4301, Stellite
- **Dive**: 1.6201, 1.6801
- **Pin**: 1.4301, 1.4401
- **Stem**: 1.6201, 1.6801
- **Gasket**: PTFE, Flexible graphite
- **Seal bowl**: 1.4301, 1.4401
- **Seal element**: Titanium
- **Stud**: ASTM A193 B7, A194 BB
- **Hex nuts**: ASTM A194 2h, A194 BB
- **Bellow**: 1.4301, 1.4401
- **Bonnets**: 1.4301+(NGS-GS) 1.4301, 1.4408
- **Packing**: PTFE, Flexible graphite
- **Platen**: G5-GS, 1.4301
- **Extremly heavy bellow**: ASTM A193 B7, A194 BB
- **Hex nuts**: ASTM A194 2h, A194 BB
- **Stem guide**: TC65
- **Stem nut**: Copper alloy, D2, BL2
- **Hand wheel**: 9032, KTH633
- **Locknut**: TC45

**PERFORMANCE SPECIFICATION**

- **Nominal Pressure**: PN
- **Test Pressure**
  - Shell test: 1.5PN
  - Sealing test: 1.1PN
  - Air test: 0.6
  - Bellow test: 1.1PN
- **Suitable temp**: -196°C ~ 600°C

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**DIN STANDARD BELLOW SEAL GLOBE VALVE (SUPER)**

**Product Advantages**

- Two-part stem. It's combined with upper stem and lower stem, with severe-wearing material and anti-corrosion material, meeting the requirement of wear and corrosion resistance.
- Hardened sealing surface. Disc is made of chromium steel 1.4627/1.4542, or with stainless steel 1.4740/1.4543/07 or stainless 21.
- Different function disc design. According to different requirement, the disc can be designed with regulating disc, checking disc etc.

**Specifications**

- Design standard: DIN 3356
- Face to face dimension: DIN 3202
- Flanged ends: DIN 2543-2545
- Test & inspection: DIN 3230

**Application**

Petroleum, Chemical Industry, Pharmacy, Fertilizer, Power Industry Etc.

**Material of Main Parts and Components**

- **Body**: 1.0619+(NGS-GS) 1.4301, 1.4408
- **Seal**: 1.4301, 1.4401, Stellite
- **Disc**: 1.4301, 1.4401
- **Cap**: 1.4301, 1.4401
- **Bellow Protection shell**: 1.4301, 1.4401
- **Gasket**: Flexible graphite + stainless steel
- **Bonnets**: 1.4301+(NGS-GS) 1.4301, 1.4408
- **Bolt**: ASTM 104.87, A193 BB
- **Nut**: ASTM 104.87, A193 BB
- **Lower stem**: 1.4301, 1.4401
- **Bellow**: 1.4301, 1.4401, 1.4571- HC
- **Stuffing Box**: 1.4301
- **Packing**: Flexible graphite
- **Gland**: 1.0619, 1.4201
- **Jack Bolt**: ASTM 104.87, A193 BB
- **Jack Nut**: ASTM 104.87, A193 BB
- **Precision plate**: 1.4301
- **Locators**: 1.0619, 1.4201
- **Stem nut**: 1.0619, 1.4201
- **Hand wheel**: 1055/151530
- **Nut**: ASTM 155.30.1, 1.4548
- **Spring gasket**: CK60, 1.0901
- **Stud Nut**: ASTM 104.87, A193 BB
- **Spring gasket**: CK60, 1.4543
- **Upper stem**: 1.4201
- **Stud**: 1.4201

**PERFORMANCE SPECIFICATION**

- **Nominal Pressure**: PN
- **Test Pressure**
  - Shell test: 1.5PN
  - Sealing test: 1.1PN
  - Air test: 0.6
  - Bellow test: 1.1PN
- **Suitable temp**: -196°C ~ 600°C
**ANSI STANDARD BELLOW SEAL GLOBE VALVE**

**Product Advantages**
- Bellow seal element: The key part of bellow sealed globe valves is metal bellow. It is the connection between cover and stem by automatic roll welding. The metal bellow can keep the stem part zero leakage.
- Benefited from the cone and streamline shape design, the disc has reliable sealing performance and longer service life.
- Double seal design (bellow+packing). Bellow and packing can protect from leakage and provide excellent sealing performance.
- Grease nipple: It can directly lubricate the stem, nut and sleeve.
- Ergonomic hand wheel: It provides longer service life and easier operation.

**Specifications**
- Design standard: ASME B16.34
- Face to face dimension: ASME B16.10
- Flanged ends: ASME B16.5
- Test & inspection: API 598

**Application**
- Petroleum, Chemical Industry, Pharmacy, Fertilizer, Power Industry Etc.

**Material of Main Parts and Components**
- Body: WC9 - CF8 - CF3
- Seat: 1.4301 - Stainless
- Disc: 1.3Cr - F304 - F316
- Pin: 5.5CrMo - 3.5Cr12
- Bellow: SS304 - SS316L
- Stem: 1.3Cr - F304 - F316
- Gasket: Stainless steel flexible graphite
- Bonnet: WC9 - CF8 - CF3
- Nut: ASTM 194-2H, A194-B
- Double-headed bolt: ASTM 193-B7, A194-8H
- Packing: Flexible graphite
- Gland: WC9 - CF8 - CF3
- Jack bolt: ASTM 193-B7, A194-8H
- Nut: ASTM 194-2H, A194-B
- Locator: 1045
- Stem nut: Copper alloy - B2, B12
- Handle wheel: 1025/KTH330
- Cap: 1025

**PERFORMANCE SPECIFICATION**
- Nominal Pressure: PN
- Test Pressure: Shell test 1.5PN, Sealing test 1.1PN, Air test 0.6, Bellow test 1.1PN, Suitable temp: -196°C ~ 600°C

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**Y TYPE BELLOW SEAL GLOBE VALVE**

**Product Advantages**
- Bellow seal element: The key part of bellow sealed globe valves is metal bellow. It is the connection between cover and stem by automatic roll welding. The metal bellow can keep the stem part zero leakage.
- Benefited from the cone and streamline shape design, the disc has reliable sealing performance and longer service life.
- Double seal design (bellow+packing). Bellow and packing can protect from leakage and provide excellent sealing performance.
- Grease nipple: It can directly lubricate the stem, nut and sleeve.
- Ergonomic hand wheel: It provides longer service life and easier operation.

**Specifications**
- Design standard: DIN 3202
- Face to face dimension: DIN 3202
- Flanged ends: DIN 2543-2545
- Test & inspection: DIN 3202

**Application**
- Hot Oil System, Steam System, Hot And Cold Water System Etc.

**Material of Main Parts and Components**
- Body: G5-C25, 1.4301, 1.4408
- Seat: 1.4301 - Stainless
- Disc: 1.4201 - 1.4408
- Pin: 1.4201 - 1.4408
- Stem: 1.4201 - 1.4408
- Bellow: 1.4201 - 1.4408
- Gasket: Stainless steel flexible graphite
- Bonnet: G5-C25, 1.4301, 1.4408
- Hex nuts: ASTM 194-2H, A194-B
- Stud: ASTM 193-B7, A194-8H
- Packing: Flexible graphite
- Platen: 1Cr2, 1.4401
- Stem guide: 1Cr2
- Stem nut: Copper alloy - B2, B12
- Handle wheel: 1025/KTH330
- Locknut: 1Cr2

**PERFORMANCE SPECIFICATION**
- Nominal Pressure: PN
- Test Pressure: Shell test 1.5PN, Sealing test 1.1PN, Air test 0.6, Bellow test 1.1PN, Suitable temp: -196°C ~ 600°C
ANGLE TYPE BELLOW SEAL GLOBE VALVE

Specifications
- Design standard: DIN 3356
- Face to face dimension: DIN 3202
- Flanged ends: DIN 2543-2545
- Test & inspection: DIN 3230

Application
Hot Oil System, Steam System, Hot and Cold Water System Etc.

Performance Specification
- Nominal Pressure
  | PN     |
  | 1.5PN  |

- Test Pressure
  | Shell test | 1.5PN |
  | Sealing test | 1.1PN |
  | Air test    | 0.6   |
  | Bellows test | 1.1PN |

- Suitable temp
  -196°C ~ 600°C

FORGED STEEL BELLOW SEAL GLOBE VALVE

Specifications
- Design standard: DIN 3356
- Face to face dimension: DIN 3202
- Flanged ends: DIN 2543-2545
- Test & inspection: DIN 3230

Application
Petroleum, Chemical Industry, Pharmacy, Fertilizer, Power Industry Etc.

Performance Specification
- Nominal Pressure
  | PN     |
  | 1.5PN  |

- Test Pressure
  | Shell test | 1.5PN |
  | Sealing test | 1.1PN |
  | Air test    | 0.6   |
  | Bellows test | 1.1PN |

- Suitable temp
  -196°C ~ 600°C
FORGED STEEL BELLOWS GATE VALVE

Product Advantages
- Bellows Element: The key part of bellows sealed globe valves is metal bellows. It is the connection between cover and stem by automatic roll welding. The metal bellows can prevent the stem part zero leakage.
- Double seal design (bellows + packing). Bellows and packing can protect from leakage and provide excellent sealing performance.
- Grease nipple. It can directly lubricate the stem, nut and sleeve.
- Ergonomic hand wheel. It provides longer service life and easier operation.

Specifications
- Design standard: DIN 3356
- Face to face dimension: DIN 3202
- Flanged ends: DIN 2543, 2545
- Test & inspection: DIN 2230

Application

Material of Main Parts and Components
- Body: A105N, F304, F316
- Seat: S 3204, Stellite
- Disc: A156W21, 21-304
- Stem: 2Cr13, F304, F310
- Bellows: S 5304, S 3210
- Gasket: Flexible graphite + stainless steel
- Packing: Flexible graphite
- Bolt: ASTM A193 B7, A193 B8, A193 BM
- Locknut: ASTM A194 2H, A194 8, A194 BM
- Nut: ASTM A193 B7, A193 B8, A193 BM

PERFORMANCE SPECIFICATION
- Nominal Pressure: MPa
- Test Pressure: 1.5PN
- Shell test: 0.6
- Bolts test: 1.1PN
- Suitable temp: -196°C ~ 600°C

ANSI STANDARD BELLOWS GATE VALVE

Product Advantages
- Bellows Element: The key part of bellows sealed globe valves is metal bellows. It is the connection between cover and stem by automatic roll welding. The metal bellows can prevent the stem part zero leakage.
- Double seal design (bellows + packing). Bellows and packing can protect from leakage and provide excellent sealing performance.
- Grease nipple. It can directly lubricate the stem, nut and sleeve.
- Ergonomic hand wheel. It provides longer service life and easier operation.

Specifications
- Design standard: ASME B16.34
- Face to face dimension: ASME B16.10
- Flanged ends: ANSI B16.5
- Test & inspection: API 598

Application
- Hot Oil System, Steam System, Hot And Cold Water System Etc.

Material of Main Parts and Components
- Body: WCB, CF8, CF8M
- Disc: WCB, CF8, CF8M
- Stem: FC, FC6, FC15
- Bellows: S 3204, S 3304
- Screw nut: ASTM A194 2H, A194 8, A194 BM
- Nut: ASTM A193 B7, A193 B8, A193 BM
- Gasket: Stainless steel + Flexible graphite
- Valve: WCB, CF8, CF8M
- Nut: ASTM A194 2H, A194 8, A194 BM
- Stem: ASTM A193 B7, A193 B8, A193 BM
- Nut: ASTM A156 2H, A156 8, A156 BM
- Gasket: Stainless steel + Flexible graphite
- Seals: S 3204, S 3304
- Packing: Flexible graphite
- Ext. stem nut: ASTM A194 2H, A194 8, A194 BM
- Ext. stem nut: ASTM A194 2H, A194 8, A194 BM
- Gland: WCB, CF8, CF8M
- Stem nut: Copper alloy - 02 - 8L-2
- Bearing nut: ASTM A194 2H, A194 8, A194 BM
- Hand wheel: M20X1.5/30
- Locknut: M20

PERFORMANCE SPECIFICATION
- Nominal Pressure: MPa
- Test Pressure: 1.5PN
- Shell test: 0.6
- Bolts test: 1.1PN
- Suitable temp: -196°C ~ 600°C
**DIN STANDARD BELLOW SEAL GATE VALVE**

**Product Advantages**

- **Bellow Seal Element**
- **Double Seal Design**
- **Grease Nipple**

**Specifications**
- Design standard: DIN 3352
- Face to face dimension: DIN 3202
- Flanged ends: DIN 2543-2545
- Test & inspection: DIN 3230

**Application**
Steam, Thermal Oil, highly toxic and corrosive Gas & Liquid Medium.

**PERFORMANCE SPECIFICATION**

<table>
<thead>
<tr>
<th>Nominal Pressure</th>
<th>PN</th>
<th>Test Pressure</th>
<th>1.5PN</th>
<th>Sealing test</th>
<th>1.1PN</th>
<th>Air test</th>
<th>0.6</th>
<th>Bellows test</th>
<th>1.1PN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suitable temp</td>
<td>-196°C ~ 600°C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Material of Main Parts and Components**
- Body GS-C25, 1.4301, 1.4404
- Disc GS-C25, 1.4301, 1.4401
- Seat 1.4301, 1.4404
- Stem 1.4301, 1.4401
- Bellow 1.4301, 1.4401
- Double-headed bolt ASTM 563, 77, A193 B8
- Nut ASTM 564-2H, A194 B8
- Gasket Flexible graphite, Stainless steel
- Not ASTM 564-2H, A194 B8
- Middle pole GS-C25, 1.4301, 1.4404
- Double-headed bolt ASTM 563, 77, A193 B8
- Nut ASTM 564-2H, A194 B8
- Gasket Flexible graphite, Stainless steel
- Bonnet GS-C25, 1.4301, 1.4401
- Packing Flexible graphite
- Gland GS-C25, 1.4301
- Not ASTM 564-2H, A194 B8
- Jack bolt ASTM 564-2H, A194 B8
- Stem nut Copper alloy - D2 - R2.2
- Oil Cap Assembly
- Cap 1.4301, 1.4401
- Hand wheel 1825, K74398

**DIN STANDARD GLOBE VALVE**

**Product Advantages**

- **Metal Bellow**
- **Double Seal Design**
- **Grease Nipple**

**Specifications**
- Design standard: DIN 3356
- Face to face dimension: DIN 3202
- Flanged ends: DIN 2543-2545
- Test & inspection: DIN 3230

**Application**
Petroleum, Chemical industry, Pharmacy, Fertilizer, Power Industry Etc.

**PERFORMANCE SPECIFICATION**

<table>
<thead>
<tr>
<th>Nominal Pressure</th>
<th>PN</th>
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<th>1.5PN</th>
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<th>Air test</th>
<th>0.6</th>
<th>Hand wheel</th>
<th>0.6</th>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Material of Main Parts and Components**
- Body GS-C25, 1.4301, 1.4404
- Seat 1.4301, 1.4401
- Disc 1.4021, 1.4301, 1.4401
- Cap 1.4021, 1.4301, 1.4401
- Stem 1.4021, 1.4301, 1.4401
- Gasket Stainless steel-Flexible graphite
- Packing Flexible graphite
- Nut ASTM 194-2H, A194 B8
- Double-headed bolt ASTM 193 B7, 1.4401
- Bonnet GS-C25, 1.4301, 1.4401
- Gland GS-C25, 1.4301
- Jack bolt ASTM 193 B7, 1.4401
- Nut ASTM 194-2H, A194 B8
- Stem nut Copper alloy - D2 - R2.2
- Hand wheel 1825, K74398
- Nut A194-2H, A194 B8
**DIN STANDARD Y STRAINER**

**Product Advantages**
- Separate the impurity of media
- Stainless steel filter traps
- Maintenance easy

**Specifications**
- **Design standard**: DIN 3356
- **Face to face dimension**: DIN 3202
- **Flanged ends**: DIN 2543-2545
- **Test & inspection**: DIN 3230

**Application**
Petroleum, Chemical Industry, Pharmacy, Fertilizer, Power Industry Etc.

**PERFORMANCE SPECIFICATION**

<table>
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<th>Nominal Pressure</th>
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<tbody>
<tr>
<td>Shell test</td>
<td>1.5PN</td>
</tr>
<tr>
<td>Test Pressure</td>
<td></td>
</tr>
<tr>
<td>Mpa</td>
<td></td>
</tr>
<tr>
<td>Suitable temp</td>
<td>-196°C ~ 600°C</td>
</tr>
</tbody>
</table>

**Material of Major Parts and Components**
- **Body**: GS-C25: 1.4301, 1.4408
- **Filter net**: 1.4301, 1.4401
- **Gasket**: Stainless steel + flexible graphite
- **Bonnet**: GS-C25: 1.4301, 1.4408
- **Nut**: ASTM 194-2H, A194-B
- **Double-headed bolt**: ASTM 193-B7, A193-B8

---

**DIN STANDARD LIFT CHECK VALVE**

**Product Advantages**
- Reliable Sealing
- Reasonable Structure
- Excellent Performance

**Specifications**
- **Design standard**: DIN 3356
- **Face to face dimension**: DIN 3202
- **Flanged ends**: DIN 2543-2545
- **Test & inspection**: DIN 3230

**Application**
Steam, Fuel Transfer Oil, Chemical, Molten Salt, Water

**PERFORMANCE SPECIFICATION**

<table>
<thead>
<tr>
<th>Nominal Pressure</th>
<th>PN</th>
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</thead>
<tbody>
<tr>
<td>Shell test</td>
<td>1.5PN</td>
</tr>
<tr>
<td>Sealing test</td>
<td>1.1PN</td>
</tr>
<tr>
<td>Test Pressure</td>
<td></td>
</tr>
<tr>
<td>Mpa</td>
<td></td>
</tr>
<tr>
<td>Suitable temp</td>
<td>-196°C ~ 600°C</td>
</tr>
</tbody>
</table>

**Material of Main Parts and Components**
- **Body**: GS-C25: 1.4301, 1.4408
- **Seal**: 1.4301, Stainless steel
- **Disc**: 1.4408, Stainless steel + flexible graphite
- **Spring**: 1.4301, 1.4408
- **Copper guide sleeve**: Copper alloy + D2 - BL2
- **Gasket**: Stainless steel + flexible graphite
- **Cover**: GS-C25: 1.4301, 1.4408
- **Nut**: ASTM 194-2H, A194-B
- **Double-headed bolt**: ASTM 193-B7, A193-B8
DIN STANDARD SAFETY VALVE

Product Advantages

- Reduce Welding
- Safety Protection
- Gas Discharge

Specifications
- Design standard: DIN 3320
- Face to face dimension DIN3202
- Flange standard: DIN 2533-2545
- Test & inspection: DIN3230

Application
Steam, Heat Transfer Oil, Chemical, Water.

PERFORMANCE SPECIFICATION

<table>
<thead>
<tr>
<th>Nominal Pressure</th>
<th>PN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Pressure</td>
<td></td>
</tr>
<tr>
<td>Shell test</td>
<td>1.5 PN</td>
</tr>
<tr>
<td>Sealing test</td>
<td>1.1 PN</td>
</tr>
<tr>
<td>Air test</td>
<td>0.6</td>
</tr>
<tr>
<td>Maximum output pressure</td>
<td>PN</td>
</tr>
<tr>
<td>Output pressure range</td>
<td>0.2-2 PN</td>
</tr>
</tbody>
</table>

Material of Major Parts and Components

- Body: G5-C25 - 1.4301 - 1.4401
- Seat: 1.4301 - Stailux
- Disc: 1.4001 - 1.4001 + Stalite
- Spring: 1.4301 - 1.4401
- Copper guide sleeve: Copper alloy - D2 - BL2
- Gasket: Stainless steel + Flexible graphite
- Cover: G5-C25 - 1.4301 - 1.4401
- Nut: ASTM 194-2H - A194-8
- Double-headed bolt: ASTM 193-6H - A193-6B

PILOT OPERATED PRESSURE REDUCING VALVE (DP17)

Product Advantages

- Especially suitable for steam and water
- Max inlet pressure: 16 bar, 25 bar
- Outlet pressure (Springs pressure setting range)
  - Yellow 1-bar blue 2-4 bar red 7-12 bar
- Diameter: 15-200 mm
- Media temperature: 0-285°C
- Max rate inlet pressure / outlet pressure: 10:1
- DIN/LNG, GB

Application
Steam, Heat Transfer Oil, Chemical, Petroleum Pipeline, Oil Refining Equipment, Toxic, and Hazardous Substances, Strong Penetrating Medium.

PERFORMANCE SPECIFICATION

<table>
<thead>
<tr>
<th>Nominal Pressure</th>
<th>PN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Pressure</td>
<td></td>
</tr>
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<td>1.5 PN</td>
</tr>
<tr>
<td>Sealing test</td>
<td>1.1 PN</td>
</tr>
<tr>
<td>Air test</td>
<td>0.6</td>
</tr>
<tr>
<td>Suitable temp</td>
<td>-196°C - 600°C</td>
</tr>
</tbody>
</table>

Material of Main Parts and Components

- Body, stem: WCB
- Seat: 2G-13
- Disc: 2G-13
- Stem: 2G-13
- Diaphragm: TC - IRN 971
- Adjustment spring: 6042-34/51
LEVER BALL FLOAT TYPE STEAM TRAP

**Product Advantages**
- Two balanced valve bases increase the area of flux and acquire large amount of discharged water.
- Automatic gas discharging inside can discharge the gas in time while rapidly opening the equipment.
- Stainless steel structures provide perfect anti-corrosion performance.

**Application**
Steam, Heat Transfer Oil, Chemical, Water.

**Material of Main Parts and Components**
- Body, bonnet: WCB
- Float ball: Stainless Steel
- Seat: Stainless Steel
- Internal filters: Stainless Steel
- Thermal element: Kazak alloy
- Gasket: Stainless steel + Flexible graphite

---

FREE FLOAT BALL TYPE STEAM TRAP

**Product Advantages**
- Stable discharge of water with large amount, small rate of steam leakage, high rate of back pressure.
- The main part holder free ball of steel is finely ground in the trap.
- The structure of stainless steel provide the ability of anti-corruption and longer service life.

**Application**
Steam, Heat Transfer Oil, Chemical, Natural Gas, Water.

**Material of Main Parts and Components**
- Body, bonnet: Cast steel - Stainless steel
- Float Ball: Stainless steel
- Seat: Chromium Manganese Stainless Steel
- Internal filters: Stainless Steel
- Gasket: Stainless steel + Flexible graphite

**Displacement Diagram**
- Operating differential pressure Mpa
- Discharge Kg/h
- Working pressure difference Mpa

---
THERMODYNAMIC STEAM TRAP

Product Advantages

- Solid Structure
- Light Weight
- Small Volume

- This trap is featured with solid structure, light weight, small volume and different pressure without any adjustment.
- Gas discharging equipment for rapidly discharging provide the ability of ability of fast start.
- Excellent ability to keep the steam from freezing.

Application
Steam, Heat Transfer Oil, Chemical, Natural Gas, Water.

Material of Main Parts and Components

| Body, Bonnet | Carbon steel (A105), Stainless Steel |
| Seat Valve plate | Stainless Steel |
| Cap | 304 stainless steel |
| Valve | 320 stainless steel |
| Welded pipe | 208 steel/stainless steel |
| Flange | Stainless steel |
| Filter | 304 stainless steel |

Displacement Diagram

- Operating differential pressure Mpa

STEAM-WATER SEPARATOR

Product Advantages

- Improve Steam Dryness
- High Heating Efficiency
- Prevent Water Beating

- Improve the dryness of the steam to improve the heating efficiency of the equipment and reduce the impact to the pipelines.
- Prevent water beating. The condensed water will be discharged from the trap below the separator.

Application
Steam, Heat Transfer Oil, Chemical, Natural Gas, Water.

Main Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal diameter DN</th>
<th>Connection</th>
<th>Pressure range Mpa</th>
<th>Min allowable Temp(℃)</th>
<th>External dimensions(mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CF11</td>
<td>15-20</td>
<td>Thread</td>
<td>0.01-2.5</td>
<td>350</td>
<td>L: 130, H1: 115, H2: 156, D: 222</td>
</tr>
<tr>
<td>CF41</td>
<td>20-32</td>
<td>Flange</td>
<td>0.01-2.5</td>
<td>350</td>
<td>L: 150, H1: 53, H2: 106, D: 228</td>
</tr>
<tr>
<td>CF41</td>
<td>40-50</td>
<td>Flange</td>
<td>0.01-2.5</td>
<td>350</td>
<td>L: 490, H1: 80, H2: 260, D: 275</td>
</tr>
<tr>
<td>CF41</td>
<td>80-100</td>
<td>Flange</td>
<td>0.01-2.5</td>
<td>350</td>
<td>L: 510, H1: 110, H2: 190, D: 228</td>
</tr>
<tr>
<td>CF41</td>
<td>125-150</td>
<td>Flange</td>
<td>0.01-2.5</td>
<td>350</td>
<td>L: 590, H1: 145, H2: 200, D: 235</td>
</tr>
</tbody>
</table>
DIN STANDARD BELLOW SEAL GLOBE CHECK VALVE

**Product Advantages**
- Cost Saving
- Higher Security
- Prevents the media backflow

**Specifications**
- Design standard: DIN 3356
- Face to face dimension: DIN 3202
- Flanged ends: DIN 2543-2545
- Test & inspection: DIN 3230

**Application**

**Material of Main Parts and Components**
- Body: GS-C25, 1.4301, 1.4401
- Seat: 1.4301, Stainless
- Disc: 1.4621, 1.4401+Stellite
- Stem: 1.4621, 1.4401
- Bellow: 1.4301, 1.4401
- Gasket: Flexible Graphite-stainless steel
- Bonnet: GS-C25, 1.4301, 1.4401
- Bolt: A193-B7, A193-B8
- Nut: A194-2H, A194-8
- Packing: Flexible graphite
- Packing Gasket: 1.4621, 1.4401
- Valve size: 1/2"-6"

**Performance Specification**
- Nominal Pressure: PN
- Test Pressure: 1.5PN, 1.1PN
- Air test: 0.6
- Bellows test: 1.1PN
- Suitable temp: -196°C-600°C

**CHLORINE VALVE**

**Product Advantages**
- Corrosion Resistance
- Multilayer PTFE Design
- Two-part Stem

**Specifications**
- Design standard: DIN 3356
- Face to face dimension: DIN 3202
- Flanged ends: DIN 2543-2545
- Test & inspection: DIN 3230

**Application**
Chlorine, Liquid Chlorine, Alkal, Ammonia, Hydrogen, Nitrogen.

**Material of Main Parts and Components**
- Body: LCR-LCC
- Seat: Stainless
- Disc: SS304L-Stainless
- Cap: SS316L
- O-Ring: PTFE, PPL
- Sealing window: SS316L
- Gasket: Graphite+SS316L, PTFE, PPL
- Bonnet: LCR-LCC
- Bolt: A193-B7, L7
- Nut: A194-2H, G10
- Lower stem: SS316L
- Bellow: SS316L-Fluoropolymer
- Stuffing Box: SS316L
- Packing: Flexible graphite, PTFE
- Gland: LCR
- Lock Bolt: A193-B7, L7
- Jack Nut: A194-2H, G10
- Friction plate: 20G-23
- Locator: WCD
- Stem nut: A105
- Handwheel: 10B10/K11130
- Nut: A194-2H
- Spring gasket: 65Mn
- Valve: A194-2H
- Spring gasket: 65Mn
- Upper stem: 20C-13
- Valve: 20C-13
- Bell Sealing: SS316L

**Performance Specification**
- Nominal Pressure: PN
- Test Pressure: 1.5PN, 1.1PN
- Air test: 0.6
- Bellows test: 1.1PN
- Suitable temp: -49°C-120°C
SELF SEALING FOR HIGH PRESSURE BELLOWS GLOBE VALVE

**Product Advantages**

- Radial packing design adopts packing graphite, flexible graphite with metal filler combination plus ends. It can be ensured that the valve is zero leakage which complies with environmental requirements.
- Inverted stem design allows changing packing replacement in special conditions.
- Seat sealing is surface carbide which guarantees safety and reliability in long working hours.

**Material of Major Parts and Components**

- Body: A351, F304, F316
- Seat: 316L, 304L, Stainless
- Disc: 316L, 304L, 316
- Two open loop: 316L, 304L, 316
- Disc cup: 316L, 316
- Block body: 316L, 316
- Stem: 1.4401, 1.4462
- Ball: 304L, 316L
- Stuffing Box: 316L, 304L, 316
- Gasket: Flexible graphite + stainless steel
- Packing: Flexible graphite + stainless steel
- Packing gasket: 316L, 316
- Four open loop: 316L, 304
- Blocking ring: 316L, 304
- Guide plate: 316L, 304
- Gland sleeve: 316L, 304
- Gland: A351, 304
- Jack bolt: 97, 8R, 8R8M
- Nut: 2H8R, 8R8M
- Seat: 97, 8R, 8R8M
- Nut: A197, F304, F316
- Stem nut: Copper alloy, 82
- Bearing: Bearing steel
- Bearing cup: 316L, 304
- Handwheel: 1365/1370/30

**Application**

- Flammable, Explosive, Toxic, Strong Permeable, Radioactive, Precious, High Purity Media, etc.

**PERFORMANCE SPECIFICATION**

<table>
<thead>
<tr>
<th>Normal Pressure</th>
<th>PN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Pressure</td>
<td>Mpa</td>
</tr>
<tr>
<td>Shell test</td>
<td>1.5PN</td>
</tr>
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<td>Sealing test</td>
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<tr>
<td>Air test</td>
<td>0.6</td>
</tr>
<tr>
<td>Bullows test</td>
<td>1.1PN</td>
</tr>
</tbody>
</table>

**Specifications**

- Design and Manufacture: API600, API6D, GB/T12233
- Flange end: ASME B16.5, JIS 7106.3809
- Pressure Temperature: ANSI 150, 300, 600, 900, 1500, 2500, 3500
- Face to face: ASME B16.18, GB/T12223
- Test & inspection: API578.8, API 7992, GB/T13927

SELF SEALING FOR HIGH PRESSURE BELLOWS GATE VALVE

**Product Advantages**

- Body and bonnet connected by pressure from the tight seal structure, wedge-shaped sealing ring and forming opening combination. The seal ring deforms at high pressure to achieve reliability. The higher the pressure is, the more reliable the seal is.
- Bellows sealed key component—Metal Bellows. The bonnet end and stem assembly with automatic roll welding and the upper end of the connecting plate automatic roll welding. It can form a protected barrier between fluid medium and steam to ensure the steam zero leakage.
- Manual switch component adopts a thrust bearing structure, it is easy to close.

**Material of Main Parts and Components**

- Body: A351, F304, F316
- Seat: 316L, 304L, Stainless
- Disc: 97, 8R, 8R8M
- Protection block: 97, 8R, 8R8M
- Nut: 2H8R, 8R8M
- Lever: A197, F304, F316
- Stem nut: Copper alloy, 82
- Bearing: Bearing steel
- Bearing cup: 316L, 304
- Handwheel: 1365/1370/30
- Cap: 9315

**Application**

- Flammable, Explosive, Toxic, Strong Permeable, Radioactive, Precious, High Purity Media, etc.

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- Test & inspection: API578.8, API 7992, GB/T13927

**Material of Major Parts and Components**

- Body: A351, F304, F316
- Seat: 316L, 304L, Stainless
- Disc: 97, 8R, 8R8M
- Protection block: 97, 8R, 8R8M
- Nut: 2H8R, 8R8M
- Lever: A197, F304, F316
- Stem nut: Copper alloy, 82
- Bearing: Bearing steel
- Bearing cup: 316L, 304
- Handwheel: 1365/1370/30
- Cap: 9315
CONTROL VALVES

Body Structure

- High-strength body and applies to every high-load condition.
- Long distance design and control of high precision, it can be up to 58 T Provide a variety of forms of stem seal. Maintenance-free.
- Optional threaded seat. It can reduce KVS value, which can up to 5 times.
- With standard travel indicator.
- Optional bellow seal.
- Optional V-type/squirrel-cage valve head.

PNEUMATIC ACTUATORS DP32/33/34/34T

- Multi-spring. Compact Actuators.
- Rotary diaphragm with good enhancing features.
- Can choose a different spring closing force.
- The highest inlet pressure can up to 6 Bar.
- Can be equipped with emergency handwheel.

ELECTRIC ACTUATOR PREMIO 2.2KN/5KN/12KN/15KN

- To use synchronous motor to control precisely.
- With standard 2 torque switch and 1 limit switch.
- To adopt technology sealed electronic components and it has good shock resistance.
- High protection class IP65.
- Be connected with various types of bus system.

PRODUCT WARRANTY

Warranty is within eighteen months of final inspection or twelve months after installation. For the faulty components of products, which is caused by inadequate design or manufacturing of VMV, VMV will provide repair or replacement service.

However, repairs or replacements will be charged in any of the following cases. Also note that if a separate agreement is in effect, the agreement shall take precedence.

1. When the product has been used in an incorrect manner which deviates from the catalog or instruction manual.

2. When the product failure is due to careless operation such as jamming with impurity of pipeline.

3. When the product has been disassembled, repaired or altered by a third party other than VMV valve.

4. When the product has been subject to cases beyond the control of VMV valve including natural disaster such as wind or flood damage, earthquakes and electrical storm, fire, pollution (special environments), salt damage, war or acts of terror.

5. When a failure is due to any other factors which are deemed not the responsibility of VMV valve.
CUSTOMIZED BELLOWS VALVE

1. Conical sealing surface will remove impurity automatically.
2. Streamline design disc has better tolerance to water hammer.
3. Flat sealing surface and streamline disc, with better tolerance to water hammer, and can be installed in any position.
4. Soft sealing surface can prevent sparks when opening and closing.
Streamline disc can regulate flow rate.
5. Globe-check disc with spring, it can be installed in any position.
6. Soft sealing surface can prevent sparks, and easy for replacement.
7. Central locate structure is good for sealing and lower noise.
8. Streamline disc with central locate structure can prevent water hammer and lower noise.
9. Double disc design, second disc can relief pressure and easy for opening and closing.
10. Window shape regulating disc, control the flow rate precisely.
11. Balance type disc easy for opening with good sealing, applied when dimension bigger than DN200.

Please confirm the detailed requirements as below

Working temperature:
Pressure:
Medium:
Body material:
Bellow material:
Other parts:
Others:

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Fax: +86-577-67916911
E-mail: vmr@vmv-valve.com

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Fax: +86-21-60919206
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