COMMITTITTED TO MAKING SECURITY ETERNAL

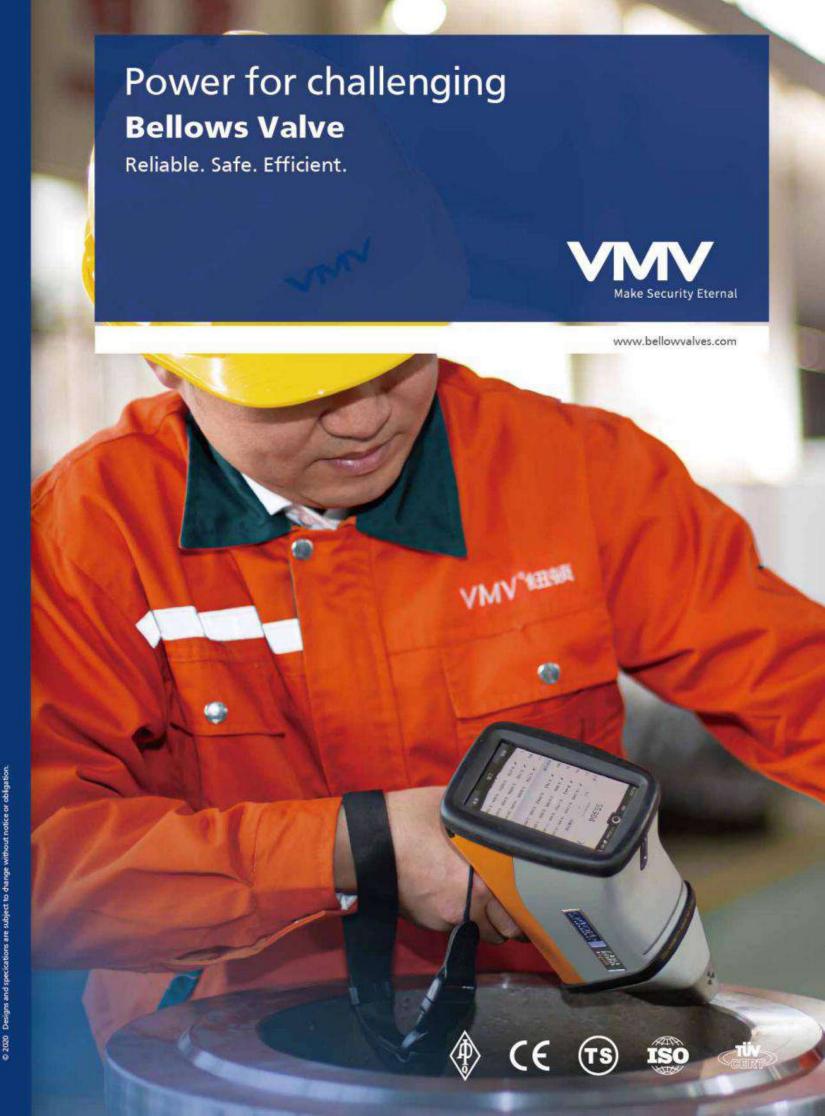
We adhere to our commitment to customers, the environment and society, we make our products stand the test of time. That's what we call making security eternal.

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Fax: +86-577-67376711 E-mail: vmv@vmv-valve.com Website: www.bellowvalves.com





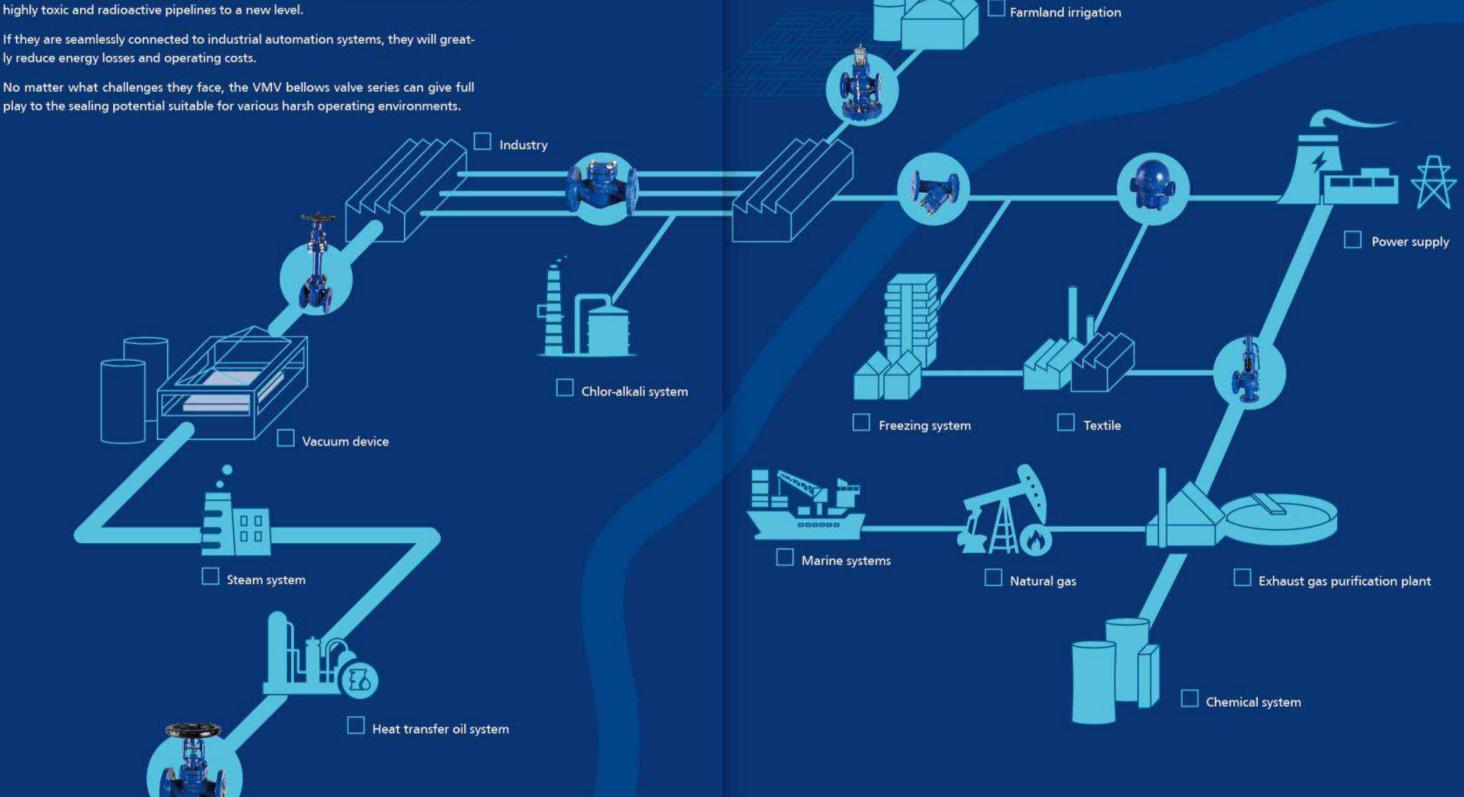


VMV Bellows Seal Valve Series: Covers All Safety Requirements

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.

play to the sealing potential suitable for various harsh operating environments.



Make Security Eternal



Trust: It's what our brand's about

Founded in 2005, Newton is headquartered in Oubei, Wenzhou. It is an enterprise specialized in bellow 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 sery products enjoy a high reputation, especially in the applications of heat transfer oil, steam, chloral-kali, 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

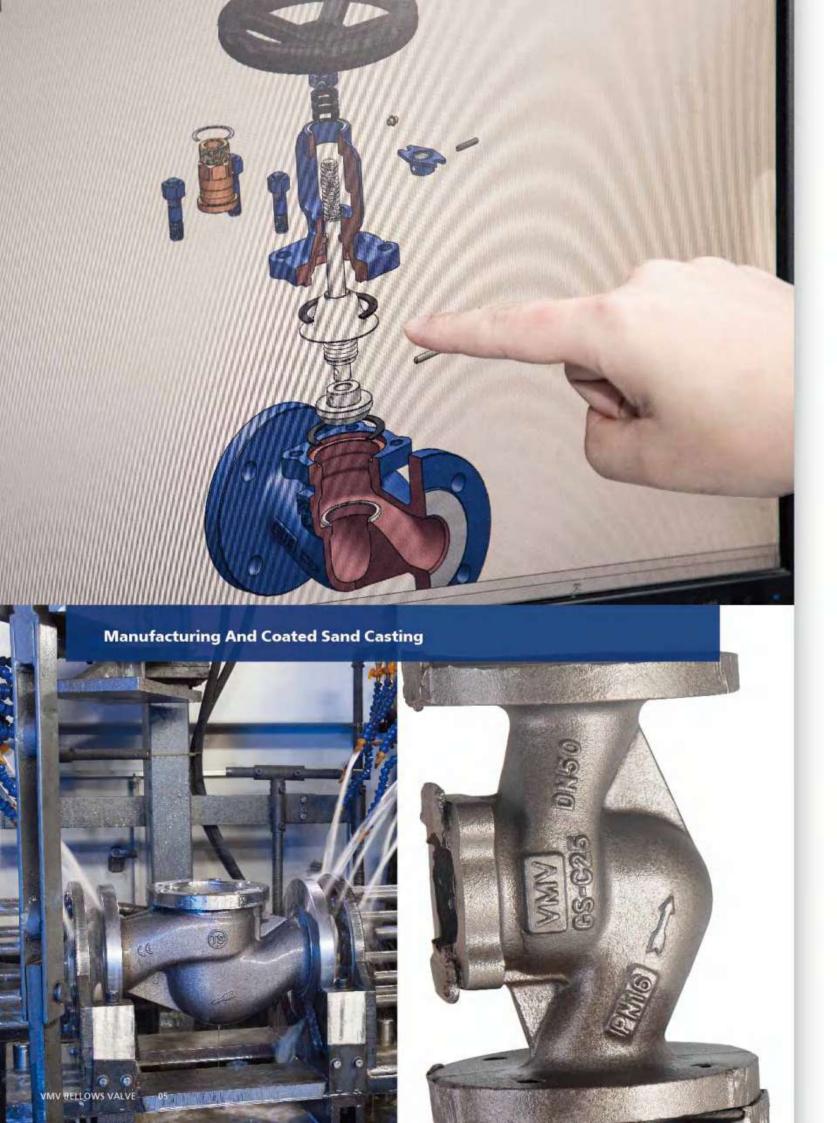
When users describe their needs, we listen carefully. We know almost every dangerous transportation safety scheme with extreme temperature and pressure requirements, and provide the right valves and services for each application. Sometimes this means a standard product, sometimes a complete customized 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.









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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.





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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, multi-wall, 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)

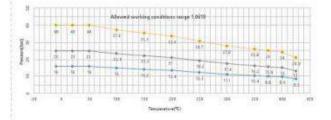
Leakage

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.

ISO15848 A

Technical Analysis







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.









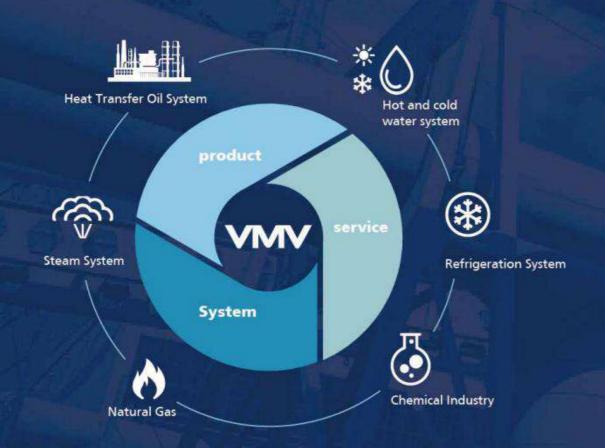




Professional products and applications suitable for various occasions

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.



| Type of product | Page | Temperature | Pressure class | Application | |
|--|------|---------------|----------------|--|--|
| DIN STANDARD BELLOW SEAL GLOBE VALVE(PLUS) | 15 | -196°C~ 600°C | PN16~PN40 | | |
| DIN STANDARD BELLOW SEAL GLOBE VALVE(DUCTILE IRON) | 16 | -10°C~ 350°C | PN16 | Hot Oil System, Steam System, Hot And Cold Water System Etc. | |
| DIN STANDARD BELLOW SEAL GLOBE VALVE(EXTEND) | 17 | | PN16~PN40 | | |
| DIN STANDARD BELLOW SEAL GLOBE VALVE(SUPER) | 18 | | 71410 71410 | Petroleum, Chemical Industry, Pharmacy, Fertilizer, Power Industry Etc. | |
| ANSI STANDARD BELLOW SEAL GLOBE VALVE | 19 | | 150~300LB | | |
| Y TYPE BELLOW SEAL GLOBE VALVE | 20 | | 150~300LB | Hot Oil System, Steam System, Hot And Cold Water System Etc. | |
| ANGLE TYPE BELLOW SEAL GLOBE VALVE | 21 | | | | |
| FORGED STEEL BELLOW SEAL GLOBE VALVE | 22 | -196°C~ 600°C | PN16~PN40 | Petroleum, Chemical Industry, Pharmacy, Fertilizer, | |
| FORGED STEEL BELLOW SEAL GATE VALVE | 23 | 120 0 0000 | 1110 11140 | Power Industry Etc. | |
| ANSI STANDARD BELLOW SEAL GATE VALVE | 24 | | 150~300LB | Hot Oil System, Steam System, Hot And Cold Water System Etc. | |
| DIN STANDARD BELLOW SEAL GATE VALVE | 25 | | 150~300LB | Steam, Thermal Oil, highy toxic and corrosive Gas & Liquid Medium. Petroleum, Chemical Industry, Pharmacy, Fertilizer | |
| BELLOW GLOBE VALVE | 26 | | 150~300LB | | |
| DIN STANDARD Y STRAINER | 27 | | | Power Industry Etc. | |
| DIN STANDARD LIFT CHECK VALVE | 28 | | PN16~PN40 | Steam, Heat Transfer Oil, Chemical, Molten Salt, Water. | |
| DIN STANDARD SAFETY VALVE | 29 | | | Steam, Heat Transfer Oil, Chemical, Water | |
| PILOT OPERATED PRESSURE REDUCING VALVE(DP17) | 30 | | PN16~PN25 | Steam, Heat Transfer Oil, Chemical, Petroleum Pipeline, Oil Refining Equipment, Toxic And Hazardous Substances, Strong Penetrating Medium. | |
| LEVER BALL FLOAT TYPE STEAM TRAP | 31 | | | Steam, Heat Transfer Oil, Chemical, Water. | |
| FREE FLOAT BALL TYPE STEAM TRAP | 32 | | | Steam, Heat Transfer Oil, Chemical, Natural Gas, Water. | |
| THERMODYNAMIC STEAM TRAP | 33 | | | Steam, Heat Transfer Oil Chemical Natural Gas | |
| STEAM-WATER SEPARATOR | 34 | | | Water. | |
| DIN STANDARD BELLOW SEAL GLOBE CHECK VALVE | 35 | -196°C~ 600°C | | Hot Oil System, Steam System, Hot And Cold Water System Etc. | |
| CHLORINE VALVE | 36 | -49°C~ 120°C | PN16~PN40 | Chlorine, Liquid Chlorine, Alkali, Ammonia, Hydrogen, NitroGen. | |
| SELF SEALING FOR HIGH PRESSURE BELLOWS GLOBE VALVE | 37 | -196°C~ 600°C | 0007777000 | Flammable, Explosive, Toxic, Strong Permeable, | |
| SELF SEALING FOR HIGH PRESSURE BELLOWS GATE VALVE | 38 | -196°C~ 600°C | 900~2500LB | Radioactive , Precious, High Purity Media, Etc. | |
| CONTROL VALVES | 39 | | | | |
| STEAM SYSTEM DIAGRAM | 41 | | | | |
| THERMAL OIL SYSTEM | 42 | | | | |
| CUSTOMIZED BELLOWS VALVES | 43 | | | | |

DIN STANDARD BELLOW SEAL GLOBE VALVE^(PLUS)



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 | |
|------------------|---------------|-------|-----|
| _ | Shell test | 1.5PN | |
| Test Pressure | Sealing test | 1.1PN | Mpa |
| | Air test | 0.6 | |
| | Bellows test | 1.1PN | |
| Suitable temp | -196°C~ 600°C | | |

Product Advantages



Double Seal Design Coated Sand Casting Technology

- Conical disc design. Benefit from the cone and streamline shape design, the disc can remove the impurity, keep valve in reliable seal and longer service life.
- Double seal design(bellows+packing). Bellow form a metal seal to prevent leakage, and packing can provide seal if the bellow failed.
- Patented central locate design. It can protect stem from tremble and lower noise, so the bellow 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 pore, trachoma and cracks, and better tensile strength.

Material of Main Parts and Components

| Body | 1.0619+N(GS-C25) 1.4301、1.4408 | |
|--------------------|-------------------------------------|--|
| Seat | 1.4301 Stellite | |
| Disc | 1.4021、1.4401+Stellite | |
| Pin | 1.4301 - 1.4401 | |
| Bellows | 1.4301、1.4401 | |
| Stem | 20Cr13、F304、F316 | |
| Gasket | Flexible graphite + stainless steel | |
| Bonnet | 1.0619+N(GS-C25)、1.4301、1.4408 | |
| Nut | ASTM 194-2H、A194-8 | |
| Double-headed Bolt | ASTM 194-87、A193-88 | |
| Packing | Flexible graphite | |
| Gland | 1C25、1.4301、1.4401 | |
| Locator | 1C25 | |
| Stem nut | Copper alloy D2 BL2 | |
| Hand Wheel | 1025/KTH330 | |
| Сар | 1C45 | |
| | | |

DIN STANDARD BELLOW SEAL GLOBE VALVE(DUCTILE IRON)



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

Ftc.

PERFORMANCE SPECIFICATION

| Nominal Pressure | | PN | |
|------------------|--------------|-------|-----|
| | Shell test | 1.5PN | |
| Test Pressure | Sealing test | 1.1PN | Mpa |
| | Air test | 0.6 | |
| | Bellows test | 1.1PN | |
| Suitable temp | -10°C∼ 350°C | | |

Product Advantages



Double Seal Design Coated Sand Casting Technology

- Conical disc design. Benefit from the cone and streamline shape design, the disc can remove the impurity, keep valve in reliable seal and longer service life.
- Double seal design(bellows+packing). Bellow form a metal seal to prevent leakage, and packing can provide seal if the
- Patented central locate design. It can protect stem from tremble and lower noise, so the bellow 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 pore, trachoma and cracks, and better tensile strength.

Material of Main Parts and Components

| Body | JS1049 (GGG40) |
|--------------------|-------------------------------------|
| Seat | 1.4301 Stellite |
| Disc | 1.4021、1.4401+Stellite |
| Pin | 1.4301 1.4401 |
| Bellows | 1.4301、1.4401 |
| Stem | 20Cr13、F304、F316 |
| Gasket | Flexible graphite + stainless steel |
| Bonnet | JS1049(GGG40) |
| Nut | ASTM 194-2H、A194-8 |
| Double-headed Bolt | ASTM 194-B7、A193-B8 |
| Packing | Flexible graphite |
| Gland | 1C25、1.4301、1.4401 |
| Locator | 1C25 |
| Stem nut | Copper alloy- D2- BL2 |
| Hand Wheel | 1025/KTH330 |
| Сар | 1C45 |
| | |

DIN STANDARD BELLOW SEAL GLOBE VALVE(EXTEND)



Specifications

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

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

PERFORMANCE SPECIFICATION

| Nominal Pressure | | PN | |
|------------------|---------------|-------|-----|
| | Shell test | 1.5PN | |
| Test Pressure | Sealing test | 1.1PN | Mpa |
| | Air test | 0.6 | |
| | Bellows test | 1.1PN | |
| Suitable temp | -196°C∼ 600°C | | |

Product Advantages



Triple Seal Design



- 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 the pressure and temperature of medium will not affect the bellow and it will have a longer service life.
- The seal element of titanium is a reliable material for high temperature and corrosion condition, which will form a triple seal. It provides more reliable performance.

Material of Main Parts and Components

| Body | 1.0619+N(GS-C25) 1.4301、1.4408 | |
|----------------------|--------------------------------|--|
| Seat | 1.4301 Stellite | |
| Disc | 1.4021 - 1.4401 | |
| Pin | 1.4301、1.4401 | |
| Stem | 1.4021 - 1.4401 | |
| Gasket | PTFE Flexible graphite | |
| Seal bowl | 1.4301 - 1.4401 | |
| Seal element | Titanium | |
| Stud | ASTM 193-B7、A193-B8 | |
| Hex nuts | ASTM 194-2H、A194-8 | |
| Bellows | 1.4301 - 1.4401 | |
| Bonnet | 1.0619+N(GS-C25)、1.4301、1.4408 | |
| Packing | PTFE Flexible graphite | |
| Platen | G5-C25、1.4301 | |
| Extremely heavy bolt | ASTM 193-B7、A193-B8 | |
| Hex nuts | ASTM 194-2H、A194-8 | |
| Stem guide | 1C45 | |
| Stem nut | Copper alloy D2 BL2 | |
| Hand wheel | 1025/KTH330 | |
| Locknut | 1C45 | |

DIN STANDARD BELLOW SEAL GLOBE VALVE (SUPER)



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 | |
|------------------|---------------|-------|-----|
| | Shell test | 1.5PN | |
| Test Pressure | Sealing test | 1.1PN | Mpa |
| | Air test | 0.6 | |
| | Bellows test | 1.1PN | |
| Suitable temp | -196°C~ 600°C | | |

Product Advantages



Hardened Sealing Surface

Different Function Disc Design

- with wear-resisting material and amti-corrosion material, meeting the requirement of wear and corrosion resistance.
- Hardened sealing surface. Disc is made of chromium steel 1.4021/AISI 420, or with stellite 6. Seat is with stainless steel 1.4370/AISI 307 or stellite 21.
- Different function disc design. According to different requirement, the disc can be designed with regulating disc, check-alobe disc etc.

| Body | 1.0619+N(GS-C25) 1.4301、1.4408 |
|-------------------------|-------------------------------------|
| Seat | 1.0619、1.4301、Stellite |
| Disc | 1.0619 + 1.4021 + 1.4401+ Stellite |
| Сар | 1.0619 1.4021 1.4401 |
| Bellows Protection unit | 1.0619 . 1.4021 . 1.4401 |
| Gasket | Flexible graphite + stainless steel |
| Bonnet | 1.0619+N(GS-C25) 1.4301 · 1.4408 |
| Bolt | ASTM 194-87、A193-88 |
| Nut | ASTM 194-2H - A194-8 |
| Lower stem | 1.4021、1.4401 |
| Bellows | 1.4301 · 1.4404 · 1.4571 · HC |
| Stuffing Box | 1.0619+N - 1.4401 |
| Packing | Flexible graphite |
| Gland | 1.0619 - 1.4301 |
| Jack Bolt | ASTM 194-B7、A193-B8 |
| Jack Nut | ASTM 194-2H - A194-8 |
| Friction plate | 1.4201 |
| Locator | 1.0619 . 1.4301 |
| Stem nut | 1.0619 - 1.4301 |
| Handwheel | 1025/KTH330 |
| Nut | ASTM 194-2H - A194-8 |
| Spring gasket | CK60、1.4301 |
| Strut Nut | ASTM 194-2H - A194-8 |
| Spring gasket | CK60、1.4301 |
| Upper stem | 1.4201 |
| Strut | 1.4201 |

ANSI STANDARD BELLOW SEAL GLOBE VALVE



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.

PERFORMANCE SPECIFICATION

| Nomina | al Pressure | PN | |
|---------------|---------------|-------|----|
| | Shell test | 1.5PN | |
| Test Pressure | Sealing test | 1.1PN | LB |
| | Air test | 0.6 | |
| | Bellows test | 1.1PN | |
| Suitable temp | -196°C~ 600°C | | |

Product Advantages



Cone And Streamline Shape Design

Double Seal Design

- · 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.
- · Benefitted from the cone and streamline shape design, the disc has reliable sealing performance and longer service life.
- Double seal design(bellows+packing). Bellow and packing can protect from leakage and provide excellent sealing
- · Grease nipple. It can directly lubricate the stem, nut and
- · Ergonomic hand wheel. It provides longer service life and easier operation.

Material of Main Parts and Components

| Body | WCB、CF8、CF3 |
|--------------------|------------------------------------|
| Seat | 304. Stellite |
| Disc | 13Cr、F304、F316 |
| Pin | 5.5304、5.5316 |
| Bellows | 5.5304、5.5316L |
| Stem | 13Cr、F304、F316 |
| Gasket | Stainless steel+ Flexible graphite |
| Bonnet | WCB、CF8、CF3 |
| Nuts | ASTM 194-2H、A194-8 |
| Double-headed bolt | ASTM 193-B7、A194-B8 |
| Packing | Flexible graphite |
| Gland | WCB、CF8、CF3 |
| Jack bolt | ASTM 193-87、A194-88 |
| Nut | ASTM 194-2H、A194-8 |
| Locator | 1045 |
| Stem nut | Copper alloy、B2、BL2 |
| Hand wheel | 1025/KTH330 |
| Сар | 1025 |
| | 1023 |

Y 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

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

DEDECORMANICE SPECIFICATION

| Nominal Pressure | | PN | |
|------------------|--------------|-------|-----|
| Test Pressure | Shell test | 1.5PN | Mpa |
| | Sealing test | 1.1PN | |
| | Air test | 0.6 | |
| | Bellows test | 1.1PN | |
| Suitable temp | -196℃~ 600℃ | | |

Product Advantages



Double Seal Design



- · 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.
- · Benefitted from the cone and streamline shape design, the disc has reliable sealing performance and longer service life.
- · Double seal design(bellows+packing). Bellow and packing can protect from leakage and provide excellent sealing
- · Grease nipple. It can directly lubricate the stem, nut and
- · Ergonomic hand wheel. It provides longer service life and easier operation.

| Body | GS-C25、1.4301、1.4408 | |
|------------|-----------------------------------|--|
| Seat | 1.4301、Stellite | |
| Disc | 1.4021 - 1.4401 | |
| Pin | 1.4301 1.4401 | |
| Stem | 1.4201、1.4401 | |
| Bellows | 1.4021 1.4401 | |
| Gasket | Stainless steel+Flexible graphite | |
| Bonnet | G5-C25、1.4301、1.4408 | |
| Hex nuts | ASTM 194-2H、A194-8 | |
| Stud | ASTM 193-B7、A194-B8 | |
| Packing | Flexible graphite | |
| Platen | 1C25、1.4401 | |
| Stem guide | 1C25 | |
| Stem nut | Copper alloy D2 BL2 | |
| Hand wheel | 1025/KTH330 | |
| Locknut | 1C45 | |

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

| Nomina | al Pressure | PN | |
|---------------|--------------|-------|----|
| Test Pressure | Shell test | 1.5PN | TB |
| | Sealing test | 1.1PN | |
| | Air test | 0.6 | |
| | Bellows test | 1.1PN | |
| Suitable temp | -196℃~ 600℃ | | |

Product Advantages



Double Seal Design



- 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.
- Benefitted from the cone and streamline shape design, the disc has reliable sealing performance and longer service life.
- Double seal design(bellows+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.

Material of Main Parts and Components

| Body | GS-C25、1.4301、1.4408 |
|------------|-----------------------------------|
| Seat . | 1.4301、Stellite |
| Disc | 1.4021 1.4401 |
| Pin | 1.4301、1.4401 |
| Stem | 1.4201、1.4401 |
| Bellows | 1.4021 1.4401 |
| Gasket | Stainless steel+Flexible graphite |
| Bonnet | GS-C25、1.4301、1.4408 |
| Hex nuts | ASTM 194-2H、A194-8 |
| Stud | ASTM 193-B7、A194-B8 |
| Packing | Flexible graphite |
| Platen | 1C25、1.4401 |
| Stem guide | 1C25 |
| Stem nut | Copper alloy D2 BL2 |
| Hand wheel | 1025/KTH330 |
| Locknut | 1C45 |
| | |

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

| Nomina | al Pressure | PN | |
|---------------|--------------|----------|-----|
| Test Pressure | Shell test | 1.5PN | |
| | Sealing test | 1.1PN | Мра |
| | Air test | 0.6 | |
| | Bellows test | 1.1PN | |
| Suitable temp | -196° | C~ 600°C | |

Product Advantages



Double Seal Design



- 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.
- Benefitted from the cone and streamline shape design, the disc has reliable sealing performance and longer service life.
- Double seal design(bellows+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.

Material of Main Parts and Components

| Body | A105N、F304、F316 | |
|-------------|-------------------------------------|--|
| Seat | 304、Stellite | |
| Disc | 2Cr13、F304、F316 | |
| Pin | 5.5304、5.5316 | |
| Bellows | 5.5304、5.5316L | |
| Stem | 2Cr13、F304、F316 | |
| Gasket | Flexible graphite + stainless steel | |
| Bonnet | A105N、F304、F316 | |
| Headed bolt | ASTM 193-B7、A193-B8 | |
| Packing | Flexible graphite | |
| Gland | A105N、F304、F316 | |
| Jack bolt | ASTM 193-B7、A193-B8 | |
| Nut | ASTM 194-2H、A194-8 | |
| Stem nut | Copper alloy D2 | |
| Hand wheel | Carbon steel | |
| Сар | 45# | |

FORGED STEEL BELLOW SEAL GATE VALVE



Specifications

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

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

PERFORMANCE SPECIFICATION

| Nomina | al Pressure | PN | |
|---------------|--------------|-------|-----|
| Test Pressure | Shell test | 1.5PN | |
| | Sealing test | 1.1PN | 1 |
| | Air test | 0.6 | Mpa |
| | Bollows test | 1.1PN | |
| Suitable temp | -196℃~ 600℃ | | |

Product Advantages



Double Seal Design



- 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.
- Double seal design(bellows+packing). Bellow and packing can protect from leakage and provide excellent sealing
- · Grease nipple. It can directly lubricate the stem, nut and
- · Ergonomic hand wheel. It provides longer service life and

Material of Main Parts and Components

| Body | A105N、F304、F316 | |
|-----------------|------------------------------------|--|
| Seat | 5.5304、Stellite | |
| Disc | A105N+2Cr13/304 | |
| Stem | 2Cr13、F304、F316 | |
| Bellows | 5.5304、5.5316 | |
| Gasket | Flexible graphite+ stainless steel | |
| Packing | Flexible graphite | |
| Bolt | ASTM 193-B7、A193-B8、A193-B8M | |
| Jack pin | 45#、F304、F316 | |
| Jack bolt | ASTM 193-B7、A193-B8、A193-B8M | |
| Jack stem nut | ASTM 194-2H、A194-8、A194-8M | |
| Packing bushing | 2Cr13、F304、F316 | |
| Packing gland | A105N、F304、F316 | |
| Stem nut | Copper alloy、D2 | |
| Hand wheel | 1025/KTH330 | |
| Сар | 45# | |
| Bonnet | A105N F304 F316 | |
| | | |

ANSI STANDARD BELLOW SEAL GATE VALVE



Specifications

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

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

PERFORMANCE SPECIFICATION

| Nomina | al Pressure | PN | |
|---------------|--------------|----------|-----|
| Test Pressure | Shell test | 1.5PN | Mpa |
| | Sealing test | 1.1PN | |
| | Air test | 0.6 | |
| | Bollows test | 1.1PN | |
| Suitable temp | -196° | C~ 600°C | |

Product Advantages



Double Seal Design



- 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
- Double seal design(bellows+packing). Bellow and packing can protect from leakage and provide excellent sealing
- · Grease nipple. It can directly lubricate the stem, nut and
- · Ergonomic hand wheel. It provides longer service life and

| Body | WCB、CF8、CF8M | |
|----------------------|-------------------------------------|--|
| Seat | 304, Stellite | |
| Disc | WCB+13Cr、CF8、CF8M | |
| Stem | 13Cr、F304、F316 | |
| Bellows | 5.5304、5.5316L | |
| Screw nut | ASTM A194-2H - A194-8 - A194-8M | |
| Stud | ASTM A193-B7、A193-B8、A193-B8M | |
| Nut | ASTM A194-2H、A194-8、A194-8M | |
| Gasket | Stainless steel + Flexible graphite | |
| Yoke | WCB、CF8、CF8M | |
| Nut | ASTM A194-2H - A194-8 - A194-8M | |
| Stud | ASTM A193-B7、A193-B8、A193-B8M | |
| Nut | ASTM A194-2H . A194-8 . A194-8M | |
| Gasket | Stainless steel + Flexible graphite | |
| Seal bowl | 5.5304、5.5316 | |
| Packing | Flexible graphite | |
| Extremely heavy pin | 1045 \$ 5.5304 \$ 5.5316 | |
| Extremely heavy bolt | ASTM A193-87、A193-88、A193-88M | |
| Extremely heavy nut | ASTM A194-2H+ A194-8+ A194-8M | |
| Gland | WCB、CF8、CF8M | |
| Stem nut | Copper alloy D2 BL-2 | |
| Bearing nut | 1045 - 5.5304 - 5.5316 | |
| Hand wheel | 1025/KTH330 | |
| Locknut | 1045 | |

DIN STANDARD BELLOW SEAL GATE VALVE



Specifications

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

Application

Steam, Thermal Oil, higly toxic and corrosive Gas & Liquid Medium.

PERFORMANCE SPECIFICATION

| Nomina | al Pressure | PN | |
|---------------|---------------|-------|-----|
| Test Pressure | Shell test | 1.5PN | |
| | Sealing test | 1.1PN | Mpa |
| | Air test | 0.6 | |
| | Bellows test | 1.1PN | |
| Suitable temp | -196°C~ 600°C | | |

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
- Double seal design(bellows+packing). Bellow and packing can protect from leakage and provide excellent sealing
- Grease nipple. It can directly lubricate the stem, nut and
- Ergonomic hand wheel. It provides longer service life and

Material of Main Parts and Components

| Body | GS-C25、1.4301、1.4408 |
|--------------------|------------------------------------|
| Disc | G5-C25+1.4201/1.4301 |
| Seat | 1.4301、Stellite |
| Stem | 1.4021、1.4301、1.4401 |
| Bellows | 1.4301 . 1.4401 |
| Double-headed bolt | ASTM 193-B7 A193-B8 |
| Nut | ASTM 194-2H、A194-8 |
| Gasket | Flexible graphite+ Stainless steel |
| Nut | ASTM 194-2H - A194-8 |
| Middle yoke | GS-C25、1.4301、1.4408 |
| Double-headed bolt | ASTM 193-B7、A193-B8 |
| Nut | ASTM 194-2H - A194-8 |
| Gasket | Flexible graphite+ stainless steel |
| Bonnet | GS-C25、1.4301、1.4401 |
| Nut | ASTM 194-2H、A194-8 |
| Packing | Flexible graphite |
| Gland | G5-C25、1.4301 |
| Nut | ASTM 194-2H、A194-8 |
| Jack bolt | ASTM 193-B7、A193-B8 |
| Stem nut | Copper alloy D2 BL2 |
| Oil cup | Assemble |
| Сар | 1C45、1.4301、1.4401 |
| Hand wheel | 1025/KTH330 |

DIN STANDARD 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.

DEDECORMANICE SPECIFICATION

| Nomina | al Pressure | PN | |
|---------------|--------------|-------|-----|
| Test Pressure | Shell test | 1.5PN | Мра |
| | Sealing test | 1.1PN | |
| | Air test | 0.6 | |
| | | - | |
| Suitable temp | -196℃~ 600℃ | | |

Product Advantages







- The valve body adopts German coated sand manufacturing technology, which is more advanced, filling up the disadvantages of easy leakage and high pollution of the traditional casting process, ensuring the valve zero leakage.
- The valve disc adopts a tapered design. The sealing surface and the medium are streamlined, with better sealing performance and longer service life.
- Treated by quenching and tempering and surface nitriding, the stems have good performance of anti-corrosion and
- · Ergonomically designed handwheel is with the advantages of long service life, easy and conven ient operation. It is safer and more reliable.

| Body | GS-C25、1.4301、1.4408 |
|--------------------|-----------------------------------|
| Seat | 1.4301 Stellite |
| Disc | 1.4021 • 1.4301+ Stellite |
| Сар | 1C45、1.4301、1.4401 |
| Stem | 1.4021 1.4301 1.4401 |
| Gasket | Stainless steel+Flexible graphite |
| Packing | Flexible graphite |
| Nut | ASTM 194-2H、A194-8 |
| Double-headed bolt | ASTM 193-B7、A193-B8 |
| Bonnet | G5-C25、1.4301、1.4408 |
| Gland | G5-C25、1.4301 |
| Jack bolt | ASTM 193-B7、A193-B8 |
| Nut | ASTM 194-2H、A194-8 |
| Stem nut | Copper alloy D2 BL2 |
| Hand wheel | 1025/KTH330 |
| Nut | A194-2H、A194-8 |

DIN STANDARD Y STRAINER

Product Advantages



Separate The Impurity of Media

Stainless Steel Filter Traps Maintenance Easy

- DIN Y type strainer is used to separate the impurity of media. It can protect other equipment for a regular service.
- Stainless steel filter traps make a better performance and corresion-resistance
- Maintenance is easy. All you need is just to clean the filter trans.

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

PERFORMANCE SPECIFICATION

Application

| Nomina | al Pressure | PN | |
|---------------|-------------|-----------|-----|
| Test Pressure | Shell test | 1.5PN | |
| | - | - | Mpa |
| | | | |
| | * | - | |
| Suitable temp | -196 | °C~ 600°C | |

Specifications

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

Material of Major Parts and Components

| Body | G5-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 - A194-8 |
| Double-headed bolt | ASTM 193-B7、A193-B8 |

DIN STANDARD LIFT CHECK VALVE

Product Advantages



Sealing

Reliable

Reasonable Structure Excellent Performance

- DIN lift check valve is self-sealing valve. The disc can be acted by the flow which can avoid against the media flow back
- The disc with spring can keep the valve work in any direction.
- Reasonable structure, reliable sealing, excellent performance and attractive appearance.

Specifications

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

PERFORMANCE SPECIFICATION

Application

| Nomina | al Pressure | PN | |
|---------------|--------------|---------|-----|
| Test Pressure | Shell test | 1.5PN | |
| | Sealing test | 1.1PN | Mpa |
| | - | 1 | |
| | - | * | |
| Suitable temp | -196° | C~ 600℃ | |

Steam, Heat Transfer Oil, Chemical, Molten Salt, Water.

Material of Main Parts and Components

| Body | GS-C25、1.4301、1.4408 | |
|---------------------|-------------------------------------|--|
| Seat | 1.4301 - Stellite | |
| Disc | 1.4021 - 1.4301+Stellite | |
| 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 193-87、A193-88 | |

DIN STANDARD SAFETY VALVE



Application

Steam, Heat Transfer Oil, Chemical, Water.

PERFORMANCE SPECIFICATION

| Nomin | al Pressure | PN |
|---------------|--------------|--------|
| Test Pressure | Shell test | 1.5PN |
| | Sealing test | 1.1PN |
| | Air test | 0.6 |
| Maximum out | out pressure | PN |
| Output pressu | re range | 0.2-PN |

Product Advantages







 Installed in the commutation of the pipeline to reduce the welding of the pipeline.

Specifications

- Design standard :DIN 3320
- Face to face dimension: DN3202
- Flange standard : DIN 2543-2545
- Test & inspection :DIN3230

Material of Major Parts and Components

| Body | GS-C25、1.4301、1.4401 | |
|---------------------|-------------------------------------|--|
| Seat | 1.4301 Stellite | |
| Disc | 1.4021、1.4301+Stellite | |
| Spring | 1.4301 - 1.4401 | |
| Copper guide sleeve | Copper alloys D2s BL2 | |
| Gasket | Stainless steel + Flexible graphite | |
| Cover | G5-25、1.4301、1.4401 | |
| Nut | ASTM 194-2H A194-8 | |
| Double-headed bolt | ASTM 193-87、A193-88 | |
| | | |

PILOT OPERATED PRESSURE REDUCING VALVE (DP17)



Application

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

PERFORMANCE SPECIFICATION

| Nomin | al Pressure | PN | |
|---------------|--------------|----------|-----|
| Test Pressure | Shell test | 1.5PN | |
| | Sealing test | 1.1PN | Mpa |
| | Air test | 0.6 | |
| | | *. | |
| Suitable temp | -196° | C~ 600°C | |

Product Advantages

Max Inlet Pressure
16 bar ,25 bar

Diameter 15-200mm



- Especially suitable for steam and water
- . Max inlet pressure: 16 bar ,25 bar.
- Outlet pressure (Springs pressure setting range) Yellow: 1-3bar ;Blue: 2-8bar; Red: 7-12bar.
- Diameter : 15-200mm.
- Media temperature: 0-285 C.
- Max rate inlet pressure / outlet pressure: 10: 1.
- · DIN, ANSI, GB

Specifications

- Design standard: GB12244
- Flanged ends: DIN
- Test & inspection: GB-12244-46

Material of Main Parts and Components

| MCB |
|--------------|
| 2Cr13 |
| 2Cr13 |
| 2Cr13 |
| 1Cr 18Ni 97i |
| 60Si2Mn |
| |



LEVER BALL FLOAT TYPE STEAM TRAP



Application

Steam, Heat Transfer Oil, Chemical, Water.

Material of Main Parts and Components

| MCB |
|-------------------------------------|
| Stainless Steel |
| Stainless Steel |
| Stainless Steel |
| Kazak alloy |
| Stainless steel + Flexible graphite |
| |

Product Advantages

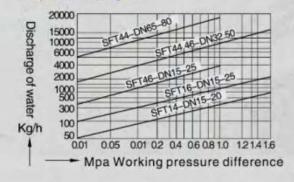
balanced

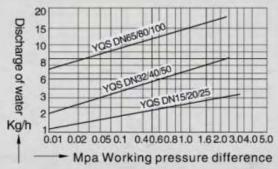
Stainless Stee Structures

Automatic Gas Discharging

- · Two balanced valve bases increase the area of flux and acquire large amount of dischargedwater.
- · Automatic gas discharging mixture inside can discharge the gas in time while rapidly opening the equipment.
- · Stainless steel structures provide perfect anti-corrsoive performances

Displacement Diagram





FREE FLOAT BALL TYPE STEAM TRAP

Product Advantages



Small Rate Of Steam Leakage

High Rate Black Pressure

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

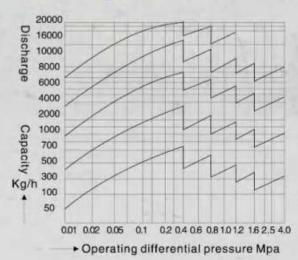
Application

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 Stainless Steel |
| Internal Filters | Stainless Steel |
| Gasket | Stainless steel + Flexible graphite |

Displacement Diagram



THERMODYNAMIC STEAM TRAP

Product Advantages









- 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.

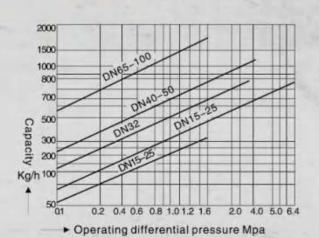
Application

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 | 420 stainless steel |
| Welded pipe | 20# steel/stainless steel |
| Flange | Steel/stainless steel |
| Filter | 304 stainless steel |

Displacement Diagram



STEAM-WATER SEPARATOR

Product Advantages



Improve Steam Dryness



Prevent Water Beating

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

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

Main Diamensions

| 13531 | | Connection | | | External dimensions(mm) | | | |
|-------|---------------------|------------|--------------------|-----------------------|-------------------------|-----|-----|--------|
| Model | Nominal diameter DN | | Pressure range Mpa | Max allowable Temp(C) | L | Н1 | H2 | D |
| 15720 | 15720 | Theresal | 0.01~2.5 | 350 | 130 | 115 | 156 | Thread |
| CF11 | 25 | Thread | | | 150 | 155 | 222 | |
| CF41 | 20~32 | Flange | 0.01~2.5 | 350 | 320 | 65 | 100 | Thread |
| CF41 | 40~50 | Flange | 0.01~2.5 | 350 | 460 | 80 | 260 | Thread |
| Crai | 50~65 | | | | 490 | 90 | 275 | Inreau |
| CF41 | 80~100 | Flange | 0.01~2.5 | 350 | 510 | 110 | 190 | Thread |
| CF41 | 125~150 | Flange | 0.01~2.5 | 350 | 590 | 145 | 200 | Thread |

DIN STANDARD BELLOW SEAL GLOBE CHECK VALVE



Specifications

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

Applicatio

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

PERFORMANCE SPECIFICATION

| Nominal Pressure | | PN | | |
|------------------|--------------|-------|-----|--|
| | Shell test | 1.5PN | | |
| | Sealing test | 1.1PN | | |
| Test Pressure | Air test | 0.6 | Мра | |
| | Bellows test | 1.1PN | | |
| Suitable temp | -196℃~ 600℃ | | | |

Product Advantages



Higher Security Prevent The Media Back Flow

- The Bellow sealed globe check valve is a valve with two functions, which is globe and check valve. The stem and disc is designed to be open structuro. The stem can withstand the movement of the valve disc when it close valve, which can combine the disc sealing and seat sealing surface to achieve close status. In the meanwhile, the valve can shut off the media in pipeline when opening the valve is open stem and disc is disengaged. It plays the role of a check valve to prevent the media back flow.
- The valve has dual functions , which is of can cost saving and higher security.
- Especially suitable to applied to special occasions with installation location restrictions.

Material of Main Parts and Components

| Body | GS-C25、1.4301 1.4408 |
|----------------|-----------------------------------|
| Seat | 1.4301 Stellite |
| Disc | 1.4021 1.4401+Stellite |
| Stem | 1.4021 1.4401 |
| Bellows | 1.4301、1.4401 |
| Gasket | Flexible Graphite+stainless steel |
| Bonnet | G5-C25、1.4301 1.4408 |
| Bolt | A193-B7、A193-B8 |
| Nut | A194-2H、A194-8 |
| Packing | Flexible graphite |
| Packing Gasket | 1.4021、1.4401 |
| Gland | 1C45、1.4401 |
| Locator | 1C25 |
| Pin | 1C35 |
| Stem nut | Alloy steels Copper alloy |
| Handwheel | 1025/KTH330 |
| Сар | 1C35 |

CHLORINE VALVE



Specifications

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

Application

Chlorine, Liquid Chlorine, Alkali, Ammonia, Hydrogen, NitroGen.

PERFORMANCE SPECIFICATION

| Nominal Pressure | | PN | |
|------------------|--------------|-------|-----|
| Test Pressure | Shell test | 1.5PN | Мра |
| | Sealing test | 1.1PN | |
| | Air test | 0.6 | |
| | Bellows test | 1.1PN | |
| Suitable temp | -49°C~ 120°C | | |

Product Advantages



Multilayer PTFE Design



- With it can be applied to transportation of chlorine ,liquid chlorine .with good performance in corrosion resistance.
- The up sealing with multilayer PTFE design ensures the packing with zero leakage.
- Two-part Stem. It's combine with upper-stem and lower-stem, with wear-resisting material and anti-corrosive material, meeting the requirement of wear and corrosion resistance.

Material of Main Parts and Components

| Body | LCB, LCC |
|----------------|------------------------------|
| Seat | Stellite |
| Disc | SS316L+ Stellite |
| Cap | SS316L |
| O Ring | PTFE、 PPL |
| Sealing sleeve | \$5316L |
| Gasket | Graphite+SS316L 、 PTFE 、 PPL |
| Bonnet | LCB, LCC |
| Bolt | A193-B7、L7 |
| Nut | A194-2H- Gr4 |
| Lower stem | SS316L |
| Bellows | SS316L、Hastelloy |
| Stuffing Box | 55316L |
| Packing | Flexible graphite PTFE |
| Gland | LCB |
| Jack Bolt | A193-87、L7 |
| Jack Nut | A194-2H、Gr4 |
| Friction plate | 20Cr13 |
| Locator | WCB |
| Stem nut | A105 |
| Handwheel | 1025/KTH330 |
| Nut | A194-2H |
| Spring gasket | 65Mn |
| Strut Nut | A194-2H |
| Spring gasket | 65Mn |
| Upper stem | 20Cr13 |
| Strut | 20Cr13 |
| Back Sealing | \$\$316L |

SELF SEALING FOR HIGH PRESSURE BELLOWS GLOBE VALVE



Specifications

- Design and Manufacture : API600, API6D, GB/T12235
- Flange ends :ASMEB16.5,JB/T79,GB9113
- Pressure Temperature : ANSI16.34 JB/T74 GB9131
- Face to face : ASME16.10, GB12221
- Test & inspection: API598, JB/T9092, GB13927

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

PERFORMANCE SPECIFICATION

| Nomina | al Pressure | PN | | |
|---------------|--------------|-------|-----|--|
| | Shell test | 1.5PN | | |
| 4.002 | Sealing test | 1.1PN | 1 | |
| Test Pressure | Air test | 0.6 | Mpa | |
| | Bellows test | 1.1PN | | |
| Suitable temp | -196℃~ 600℃ | | | |

Product Advantages

Radial Packing

Inverted Stem Design

Carbide Surfacing

- Radial packing design adopts plaiting graphite, flexible graphite with metal filler combination plus ends. It can be ensure the valve zero leakage, which complys with environ-
- Inverted stem design allows change packing replacement in
- · Seat sealing is surfaced carbide, which guarantees safety and reliability in long working hours.

Material of Major Parts and Components

| Body | A105、F304、F316 |
|------------------|-------------------------------------|
| Seat | 13Cr. 316. Stellite |
| Disc | 13Cr. 304. 316 |
| Two open loop | 13Cr. 304. 316 |
| Disc cap | 1035、304、316 |
| Protection block | 1035、304、316 |
| Stem | 1.0619+N+ 1.4401 |
| Bellows | 304、316L |
| Stuffing Box | 1035、304、316 |
| Gasket | Flexible graphite + stainless steel |
| Packing | Flexible graphite + stainless steel |
| Packing gasket | 1035、304 |
| Four open loop | 13Cr - 304 |
| Blocking ring | 1035、304 |
| Guide plate | 1035、304 |
| Gland sleeve | 1035 - 304 |
| Gland | A105、304 |
| Jack Bolt | B7、B8、B8M |
| Jack Nut | 2H、8、8M |
| Bolt | B7. B8. B8M |
| Nut | 2H、8、8M |
| Locator | 1035、304 |
| Pin | 13Cr - 304 |
| Bonnet | A105、F304、F316 |
| Stem nut | Copper alloy D2 |
| Bearing | Bearing steel |
| Bearing cap | 1035 - 304 |
| Handwheel | 1025/KTH330 |
| Сар | 1035 |

SELF SEALING FOR HIGH PRESSURE BELLOWS GATE VALVE



Specifications

- Design and Manufacture : API600, API6D, GB/T12234
- Flange ends : ASME B16.5, JB/T79, GB9113
- Pressure Temperature : ASME B16.34, JB/T74, GB9131
- Face to face :ASME B16.10, GB12221
- Test & inspection: API598, JB/T9092, GB13927

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

PERFORMANCE SPECIFICATION

| Nominal Pressure | | PN | |
|------------------|--------------|----------|-----|
| Test Pressure | Shell test | 1.5PN | Mpa |
| | Sealing test | 1.1PN | |
| | Air test | 0.6 | |
| | Bellows test | 1.1PN | |
| Suitable temp | -196° | C~ 600°C | |

Product Advantages

Reliable Sealing





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

| Body | A105、F304、F316 | |
|------------------|-------------------------------------|--|
| Seat | 13Cr 316 Stellite | |
| Disc | 13Cr、304、316 | |
| Protection block | 1035、304、316 | |
| Bellows | 304、316L | |
| Stem | 1.0619+N - 1.4401 | |
| Stuffing Box | 1035、304、316 | |
| Gasket | Flexible graphite + stainless steel | |
| Four open loop | 13Cr > 304 | |
| Blocking ring | 1035、304 | |
| Packing | Flexible graphite + stainless steel | |
| Packing gasket | 1035、304 | |
| Guide plate | 1035, 304 | |
| Gland sleeve | 1035, 304 | |
| Gland | A105、304 | |
| Jack Bolt | B7. B8. B8M | |
| Jack Nut | 2H · 8 · 8M | |
| Bolt | B7、B8、B8M | |
| Nut | 2H · 8 · 8M | |
| Bonnet | A105、F304、F316 | |
| Stem nut | Copper alloy D2 | |
| Bearing | Bearing steel | |
| Bearing cap | 1035、304 | |
| Handwheel | Carbon steel | |
| Cap | 1035 | |
| | | |









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 50:1Provide a variety of forms of stem seal. Mainte-
- · 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 1p65.
- Be connected with various types of bus system.

PRODUCT WARRANTY

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.

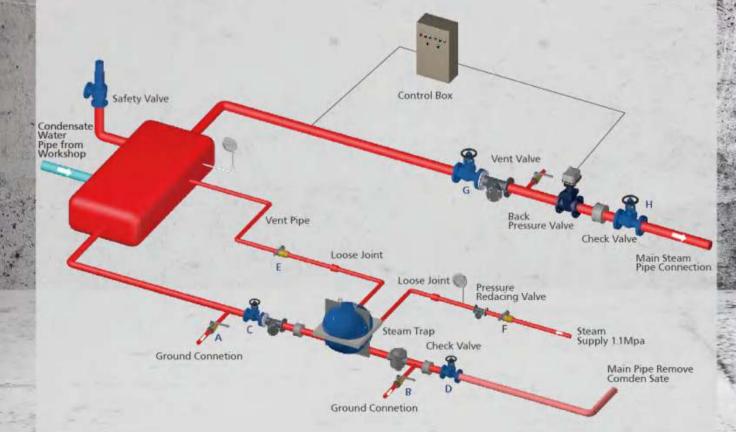




STEAM SYSTEM DIAGRAM

STEAM SYSTEM DIAGRAM

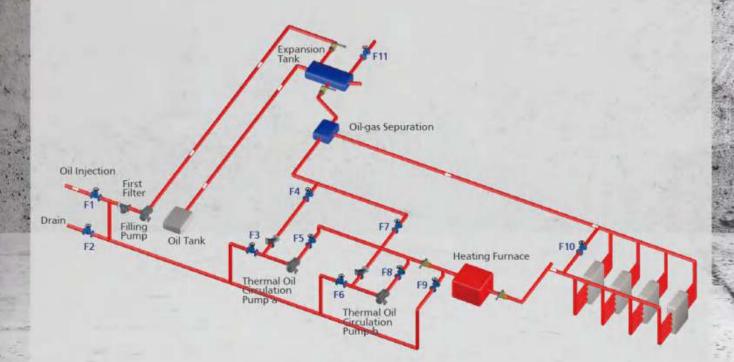
- A Drain bellows valve before pump
 B Drain bellows valve after pump
 C Globe bellows valve before pump
 D Globe bellows valve after pump
 E Ball bellows valve in vent pipe
 F Power steam ball bellows valve
- G Globe bellows valve before back pressure valve
 H Globe bellows valve after back pressure valve



THERMAL OIL SYSTEM

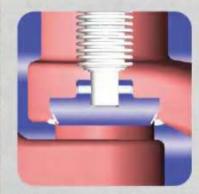
THERMAL OIL SYSTEM

- F1 Drain bellows valve before pump
- F2 Drain bellows valve after pump
- F3 Globe bellows valve before pump
- F4 Globe bellows valve after pump
- F5 Ball bellows valve in vent pipe
- F6 Power steam ball bellows valve
- F7 Globe bellows valve before back pressure valve
- F8 Globe bellows valve after back pressure valve

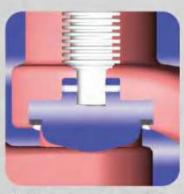


CUSTOMIZED BELLOWS VALVE

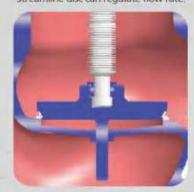
CUSTOMIZED BELLOWS VALVE



1.Conical sealing surface will remove impurity automatically.



4 Soft sealing surface can prevent sparks when opening and closing. Streamline disc can regulate flow rate.



7.Central locate structure is good for sealing and lower noise.



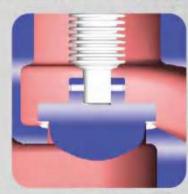
2. Streamline design disc has better tolerance to waterhammer



5. Globe-check disc with spring, it can be installed in any position.



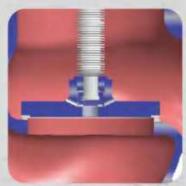
8.Streamline disc with central locate structure can prevent water hammer and lower noise.



3 Flat sealing surface and streamline disc, with better tolerance to water hammer, and can be installed in any position.

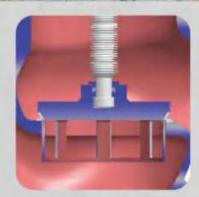


6.Soft sealing surface can prevent sparks, and easy for replacement.

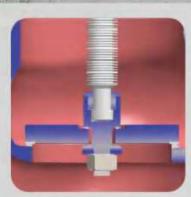


9.Double disc design, the second disc can relief pressure and easy for opening and closing.

CUSTOMIZED BELLOWS VALVE



 Window shape regulating disc, control the flow rate precisely.



11.Balance type disceasy for opening, with good sealing, applied when dimension bigger than Dni200.

Please confirm the detailed requirements as below

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

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