

Power for challenging Bellows Valve

Reliable. Safe. Efficient.

VMV
Make Security Eternal

www.bellowvalves.com

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.

Add: Wuxing Industrial Area, Oubei Street, Yongjia County,
Zhejiang, China, 325105
Tel: +86-577-67978268 67978269
Fax: +86-577-67376711
E-mail: vmv@vmv-valve.com
Website: www.bellowvalves.com

VMV
Make Security Eternal

© 2020 Designs and specifications are subject to change without notice or obligation.

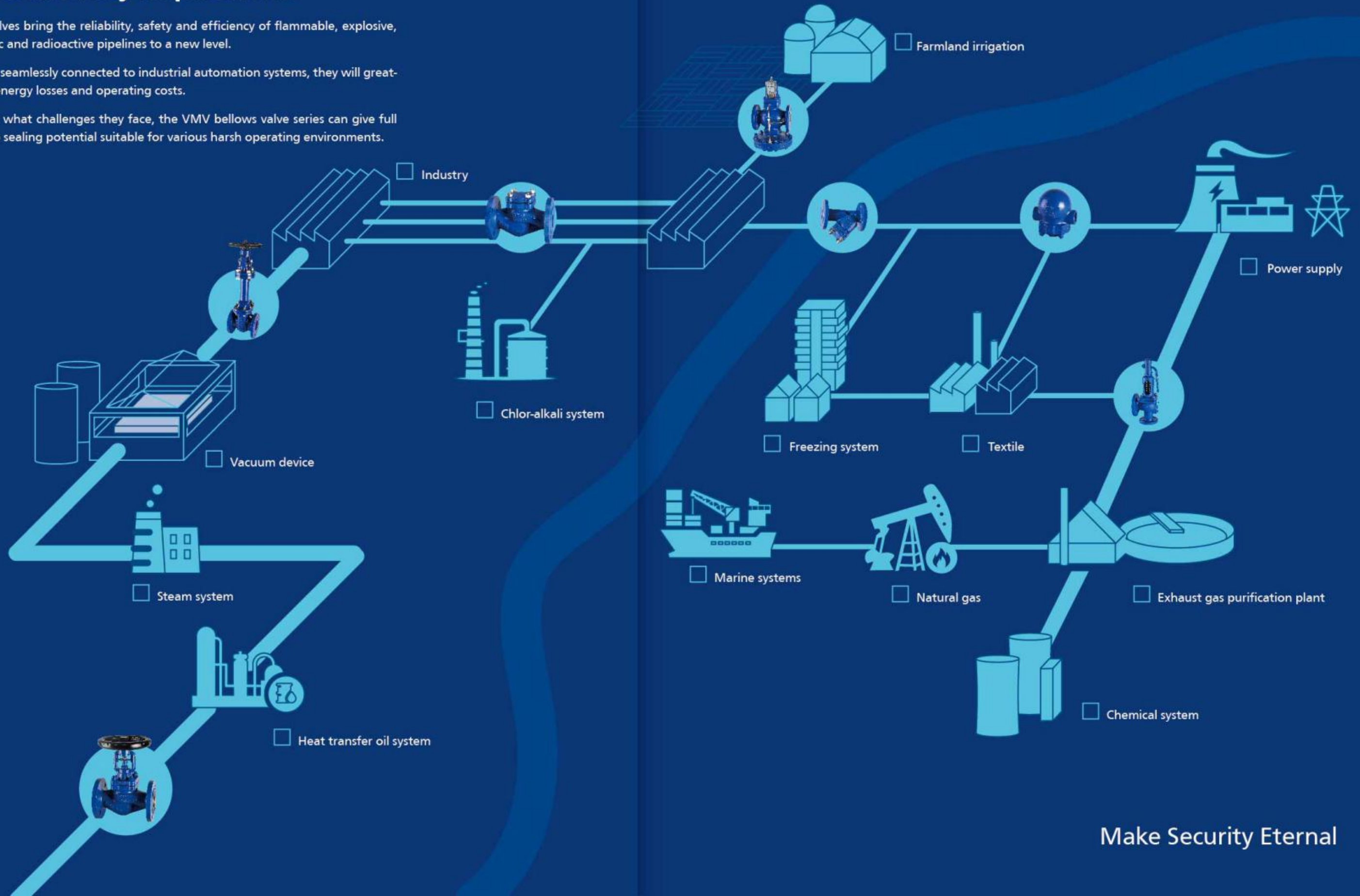


VMV Bellows Seal Valve Series: Covers All Safety Requirements

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

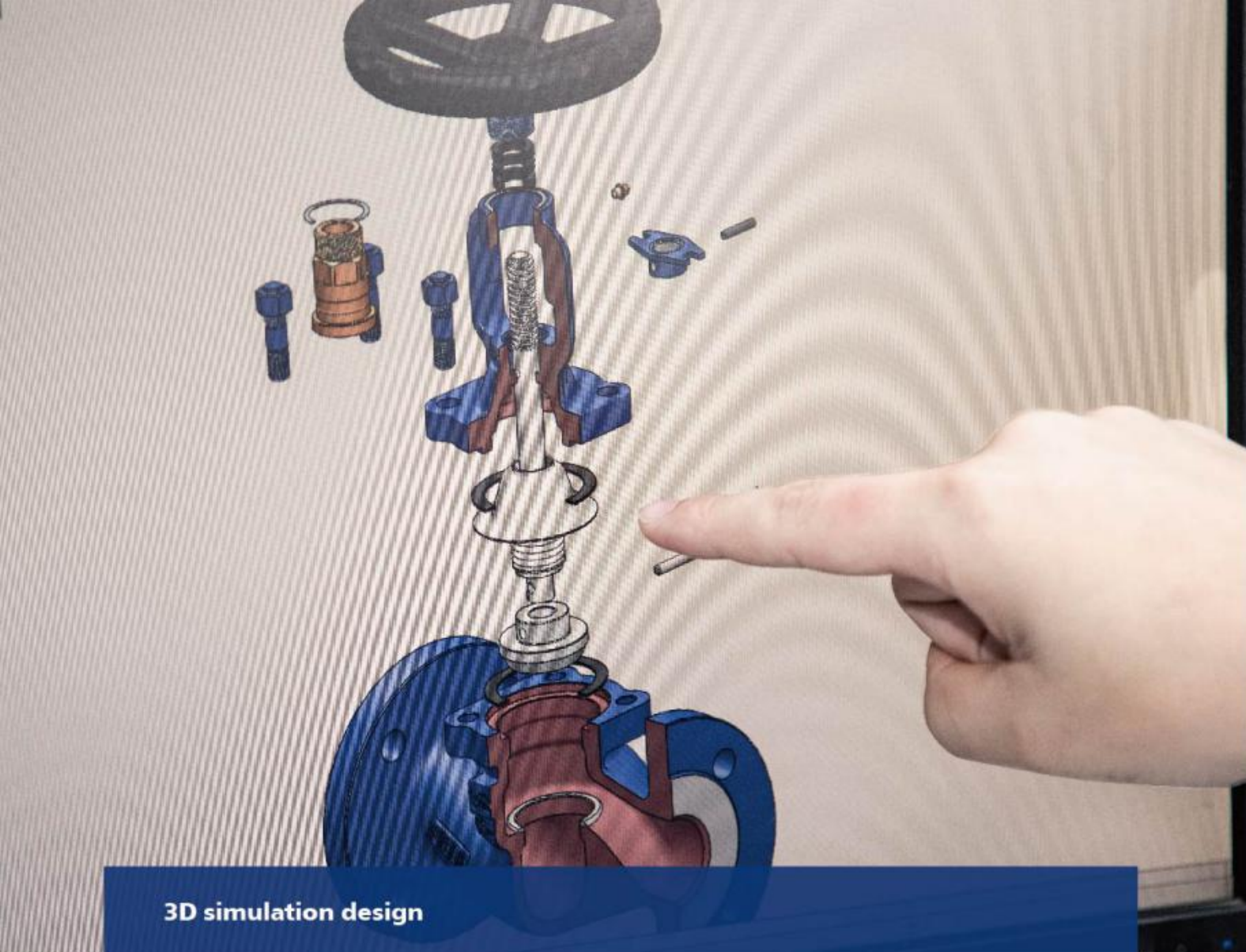
Founded in 2005, Newton is headquartered in Oubei, Wenzhou. It is an enterprise specialized in bellow valve, integrating R&D, production, sales and service. With more 50 million yuan registered capital, Newton now is a no-area limited enterprise, national high-tech enterprise, and industry-specific benchmarking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





3D simulation design

BIM

Introduction

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.

APS Automatic Selection Software



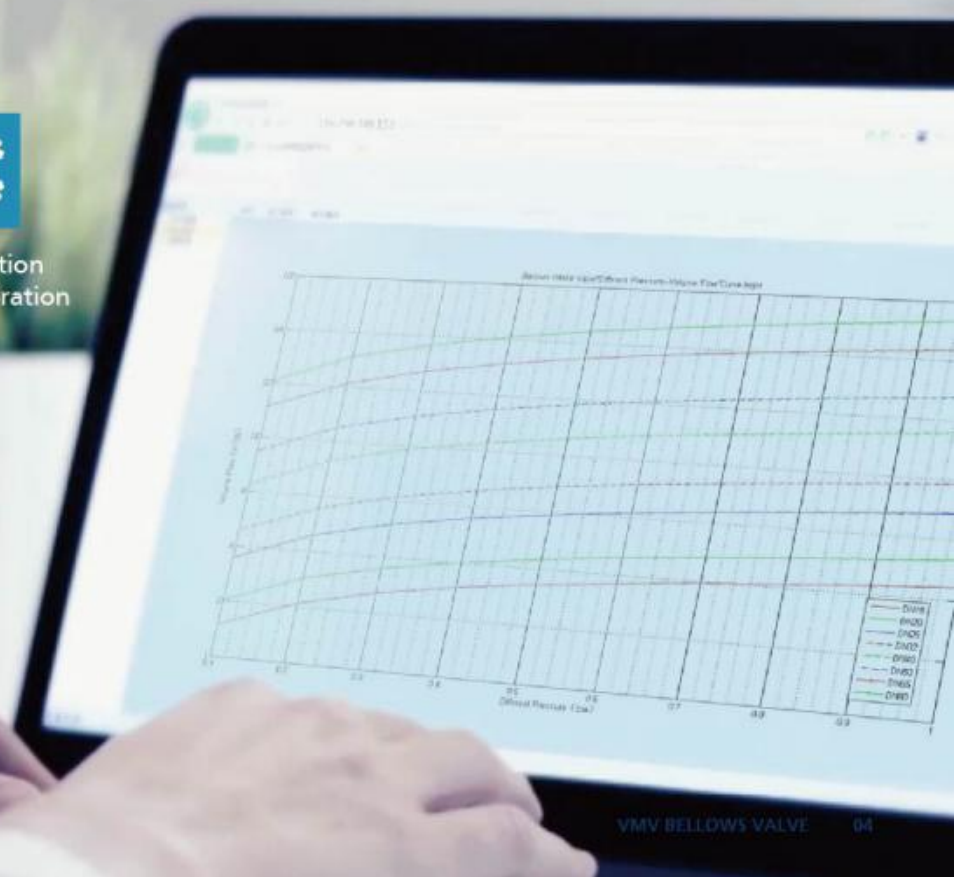
Remote
monitoring

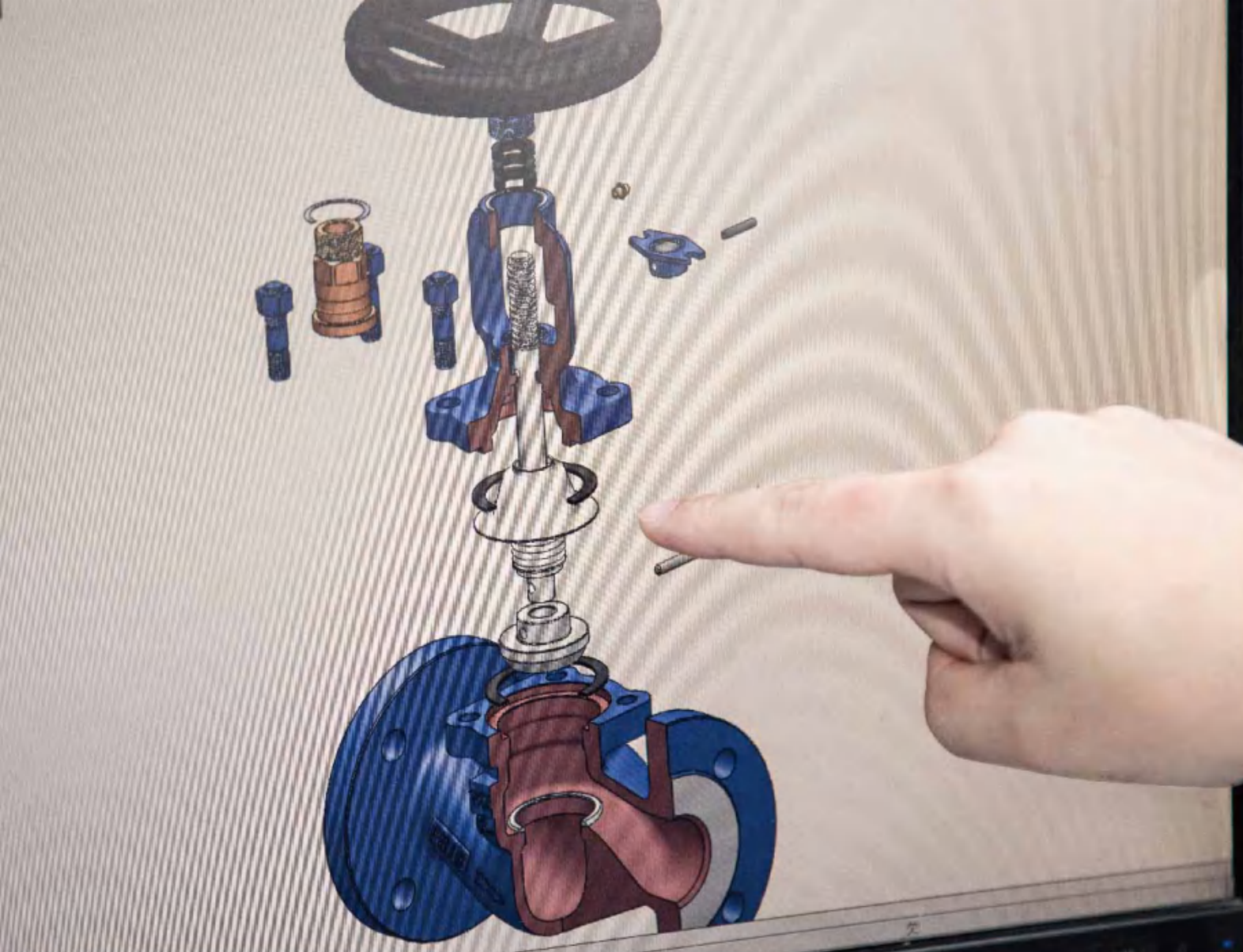


Schedule



Production
collaboration





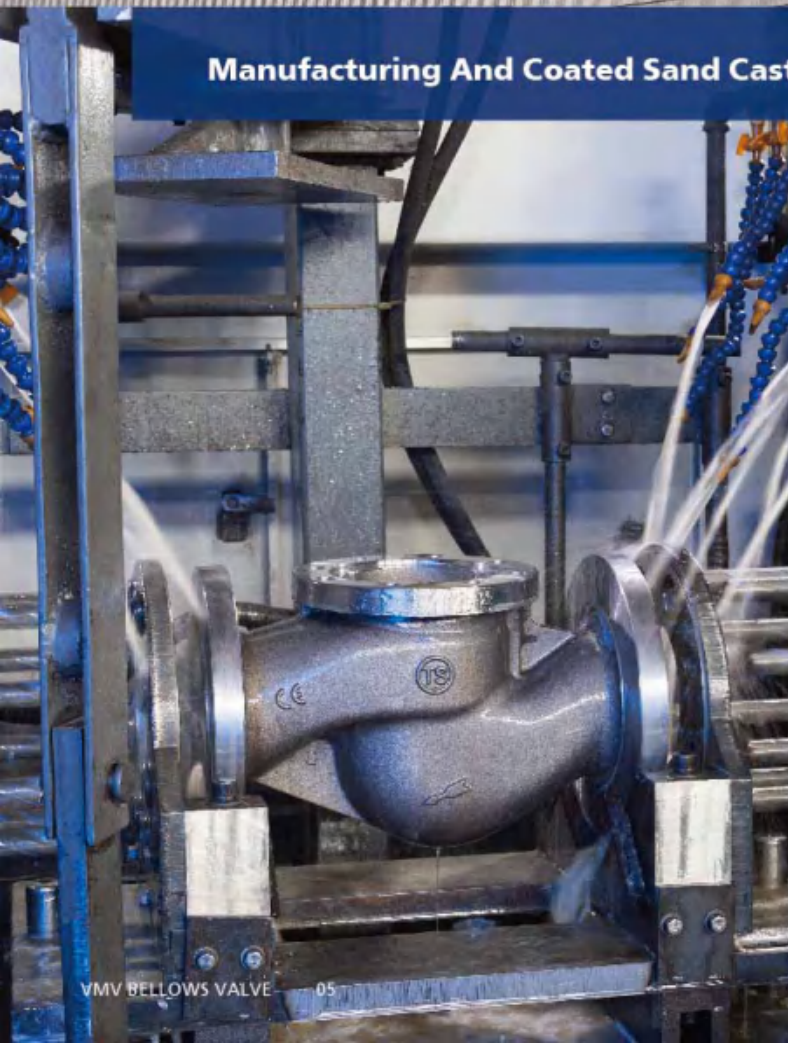
Technical Objectives: Design valves and systems for safe and energy-saving operation

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.

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

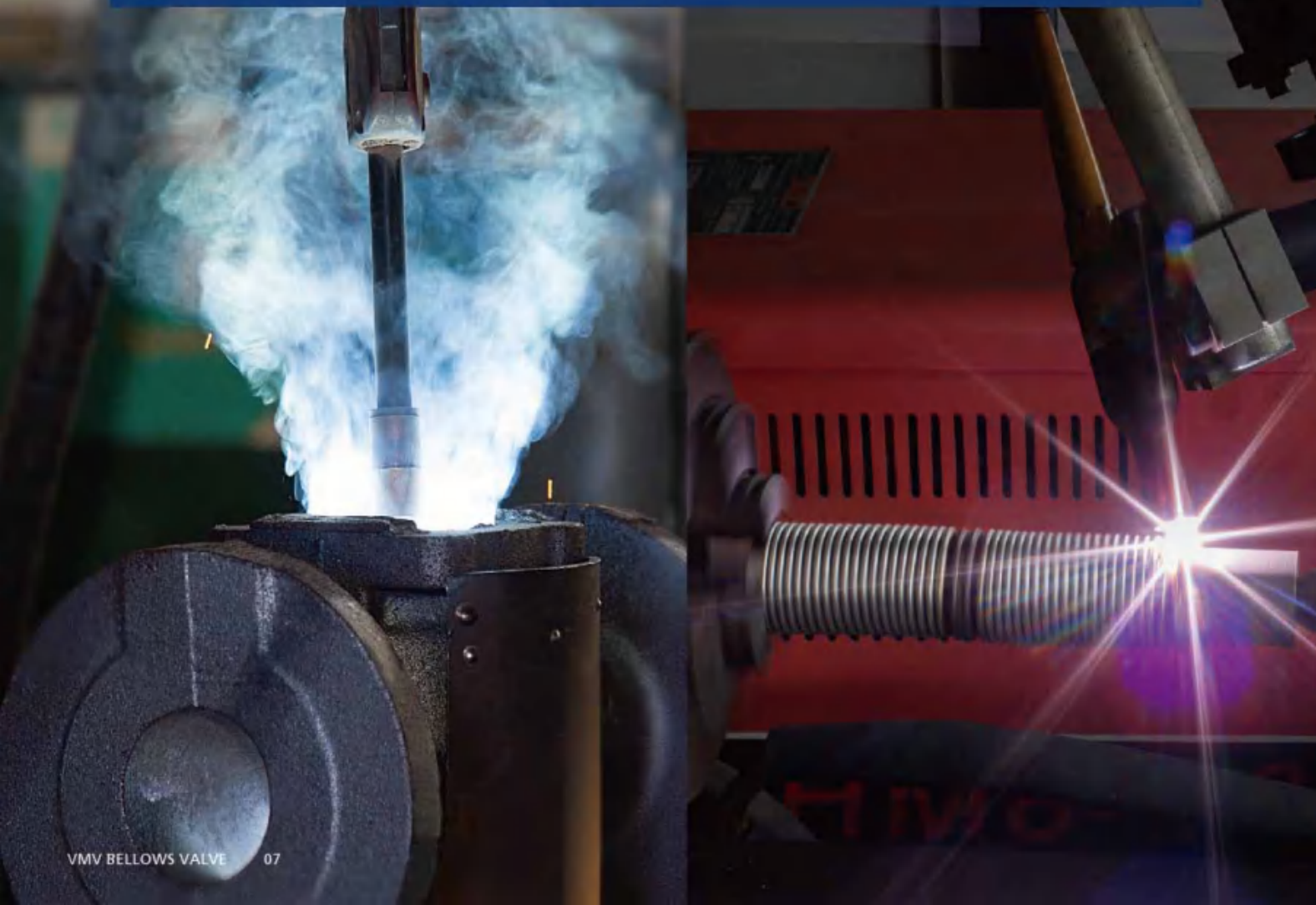
 ↑ 150%



CNC Machine

Auto Welding

Manipulator



Introduction

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.

Hydraulic Test

Auto Test





MES



Introduction

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.

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)

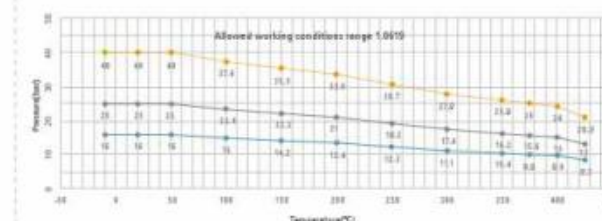
0 Leakage

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





365 **24**
Days hours

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.

service



1

Delivery Time
30 Days

2

Sales Engineer
Professional
Services

3

Foreign
Trade
Experience
12 Years

4

Perfect
After-sales
Service System

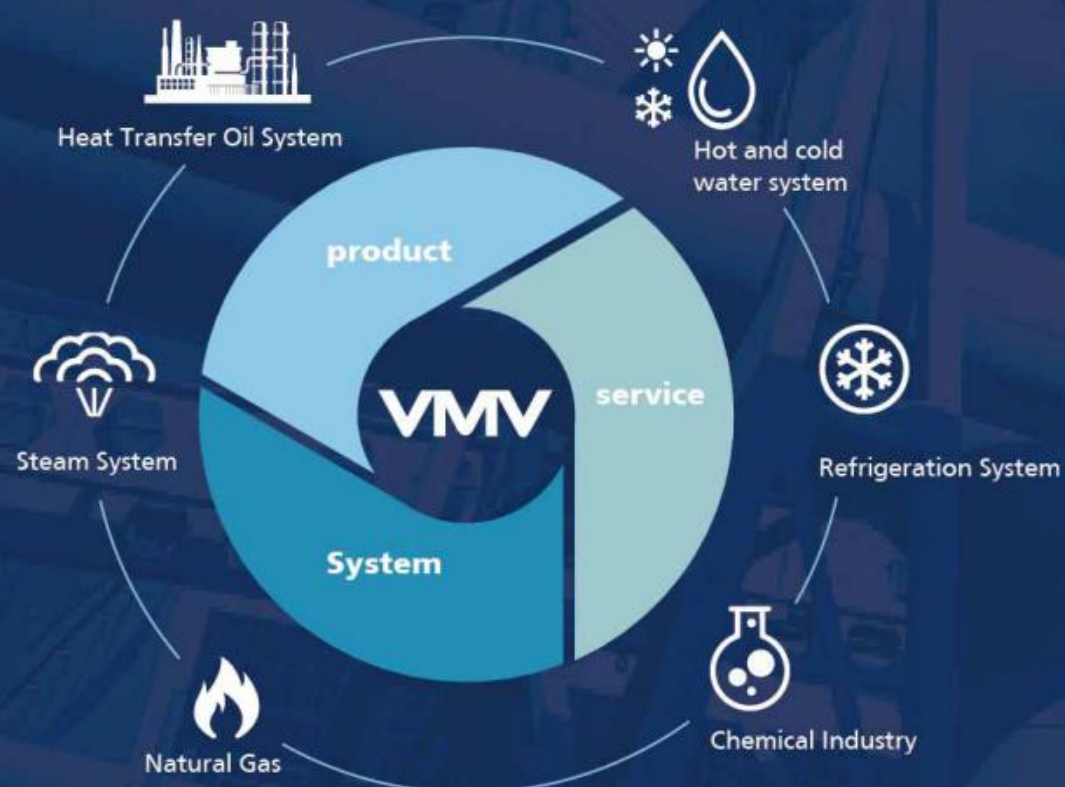
5

Tailored
Service

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.

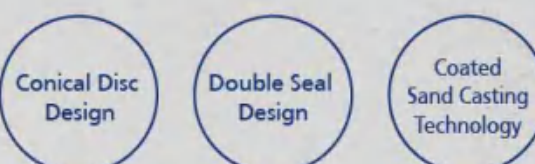


Type of product	Page	Temperature	Pressure class	Application
DIN STANDARD BELLOW SEAL GLOBE VALVE(PLUS)	15	-196°C~ 600°C	PN16~PN40	Hot Oil System, Steam System, Hot And Cold Water System Etc.
DIN STANDARD BELLOW SEAL GLOBE VALVE(DUCTILE IRON)	16	-10°C~ 350°C	PN16	
DIN STANDARD BELLOW SEAL GLOBE VALVE(EXTEND)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

DIN STANDARD BELLOW SEAL GLOBE VALVE^(PLUS)



Product Advantages



- 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.

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

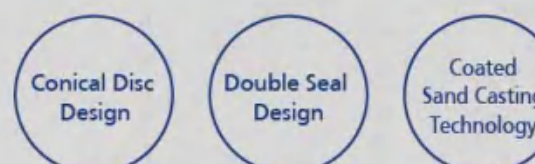
Material of Main Parts and Components

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-B7、A193-B8
Packing	Flexible graphite
Gland	1C25、1.4301、1.4401
Locator	1C25
Stem nut	Copper alloy、D2、BL2
Hand Wheel	1025/KTH330
Cap	1C45

DIN STANDARD BELLOW SEAL GLOBE VALVE^(DUCTILE IRON)



Product Advantages



- 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.

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	Mpa
Test Pressure	Shell test	1.5PN	
	Sealing test	1.1PN	
	Air test	0.6	
	Bellows test	1.1PN	
Suitable temp	-10℃~ 350℃		

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
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 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	GS-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

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.

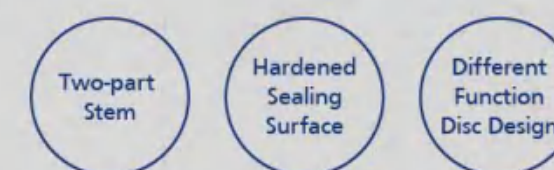
PERFORMANCE SPECIFICATION

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

DIN STANDARD BELLOW SEAL GLOBE VALVE^(SUPER)



Product Advantages



- Two-part Stem. It's combined with upper-stem and lower-stem, with wear-resisting material and anti-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-globe disc etc.

Material of Main Parts and Components

Body	1.0619+N(GS-C25) 1.4301、1.4408
Seat	1.0619、1.4301、Stellite
Disc	1.0619、1.4021、1.4401+ Stellite
Cap	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-B7、A193-B8
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

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.

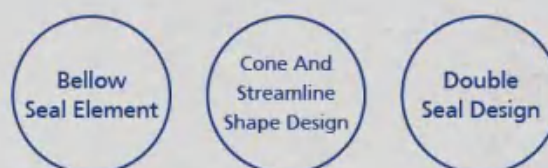
PERFORMANCE SPECIFICATION

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

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.
- 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	WCB、CF8、CF3
Seat	304、Stellite
Disc	13Cr、F304、F316
Pin	S.S304、S.S316
Bellows	S.S304、S.S316L
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-B7、A194-B8
Nut	ASTM 194-2H、A194-8
Locator	1045
Stem nut	Copper alloy、B2、BL2
Hand wheel	1025/KTH330
Cap	1025

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

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

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.
- 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

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.

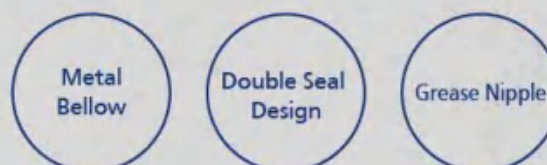
PERFORMANCE SPECIFICATION

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

ANGLE 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.
- 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.

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

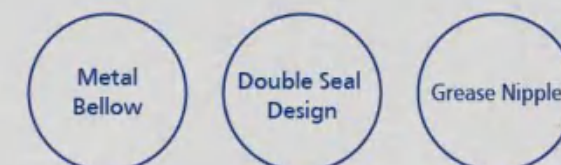
Material of Main Parts and Components

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



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.
- 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.

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

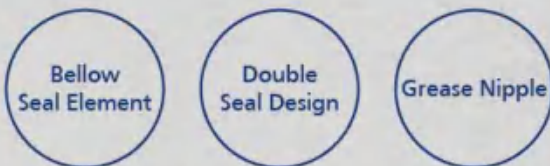
Material of Main Parts and Components

Body	A105N、F304、F316
Seat	304、Stellite
Disc	2Cr13、F304、F316
Pin	S.S304、S.S316
Bellows	S.S304、S.S316L
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
Cap	45#

FORGED STEEL BELLOW SEAL GATE 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.
- 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.

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

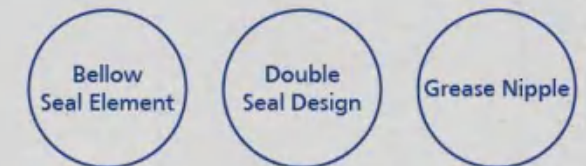
Material of Main Parts and Components

Body	A105N、F304、F316
Seat	S.S304、Stellite
Disc	A105N+2Cr13/304
Stem	2Cr13、F304、F316
Bellows	S.S304、S.S316
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
Cap	45#
Bonnet	A105N、F304、F316

ANSI STANDARD BELLOW SEAL GATE 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.
- 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.

Specifications

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

Application

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

PERFORMANCE SPECIFICATION

Nominal Pressure		PN	
Test Pressure	Shell test	1.5PN	MPa
	Sealing test	1.1PN	
	Air test	0.6	
	Bollows test	1.1PN	
Suitable temp	-196℃~ 600℃		

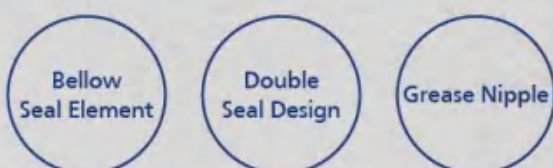
Material of Main Parts and Components

Body	WCB、CF8、CF8M
Seat	304、Stellite
Disc	WCB+13Cr、CF8、CF8M
Stem	13Cr、F304、F316
Bellows	S.S304、S.S316L
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	S.S304、S.S316
Packing	Flexible graphite
Extremely heavy pin	1045、S.S304、S.S316
Extremely heavy bolt	ASTM A193-B7、A193-B8、A193-B8M
Extremely heavy nut	ASTM A194-2H、A194-8、A194-8M
Gland	WCB、CF8、CF8M
Stem nut	Copper alloy、D2、BL-2
Bearing nut	1045、S.S304、S.S316
Hand wheel	1025/KTH330
Locknut	1045

DIN STANDARD BELLOW SEAL GATE 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.
- 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
Disc	GS-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	GS-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
Cap	1C45、1.4301、1.4401
Hand wheel	1025/KTH330

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

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℃		

DIN STANDARD GLOBE VALVE



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 anti-friction.
- Ergonomically designed handwheel is with the advantages of long service life, easy and convenient operation. It is safer and more reliable.

Material of Main Parts and Components

Body	GS-C25、1.4301、1.4408
Seat	1.4301、Stellite
Disc	1.4021、1.4301+ Stellite
Cap	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	GS-C25、1.4301、1.4408
Gland	GS-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

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

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 corrosion-resistance.
- Maintenance is easy. All you need is just to clean the filter traps.

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	
Test Pressure	Shell test	1.5PN	Mpa
	-	-	
	-	-	
	-	-	
Suitable temp	-196℃~ 600℃		

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

DIN STANDARD LIFT CHECK VALVE

Product Advantages



Reliable
Sealing

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

Application

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

PERFORMANCE SPECIFICATION

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

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	GS-C25、1.4301、1.4401
Nut	ASTM 194-2H、A194-8
Double-headed bolt	ASTM 193-B7、A193-B8

DIN STANDARD SAFETY VALVE



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 alloy、 D2、 BL2
Gasket	Stainless steel + Flexible graphite
Cover	GS-25、 1.4301、 1.4401
Nut	ASTM 194-2H、 A194-8
Double-headed bolt	ASTM 193-B7、 A193-B8

Application

Steam, Heat Transfer Oil, Chemical, Water.

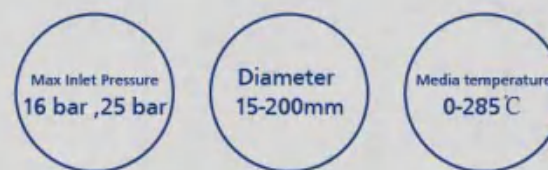
PERFORMANCE SPECIFICATION

Nominal Pressure		PN
Test Pressure	Shell test	1.5PN
	Sealing test	1.1PN
	Air test	0.6
Maximum output pressure		PN
Output pressure range		0.2-PN

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: 1-3bar ;Blue: 2-8bar; Red : 7-12bar.
- Diameter : 15-200mm.
- Media temperature: 0-285℃.
- 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

Body,bonnet	WCB
Seat	2Cr13
Disc	2Cr13
Stem	2Cr13
Diaphragm	1Cr 18Ni 9Ti
Adjustment spring	60Si2Mn

Application

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

PERFORMANCE SPECIFICATION

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

DIN STANDARD BELLOW SEAL GLOBE CHECK VALVE



Product Advantages



- 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 structure. 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 cost saving and higher security.
- Especially suitable to applied to special occasions with installation location restrictions.

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

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	GS-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 steel、Copper alloy
Handwheel	1025/KTH330
Cap	1C35

CHLORINE VALVE



Product Advantages



- 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	SS316L
Gasket	Graphite+SS316L、PTFE、PPL
Bonnet	LCB、LCC
Bolt	A193-B7、L7
Nut	A194-2H、Gr4
Lower stem	SS316L
Bellows	SS316L、Hastelloy
Stuffing Box	SS316L
Packing	Flexible graphite、PTFE
Gland	LCB
Jack Bolt	A193-B7、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	SS316L

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.

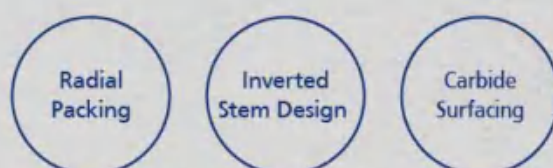
PERFORMANCE SPECIFICATION

Nominal Pressure		PN	Mpa
Test Pressure	Shell test	1.5PN	
	Sealing test	1.1PN	
	Air test	0.6	
	Bellows test	1.1PN	
Suitable temp	-49℃ ~ 120℃		

SELF SEALING FOR HIGH PRESSURE BELLOWS GLOBE VALVE



Product Advantages



- Radial packing design adopts plating graphite, flexible graphite with metal filler combination plus ends. It can ensure the valve zero leakage, which complies with environmental requirements.
- Inverted stem design allows change packing replacement in special conditions.
- 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
Locotor	1035、304
Pin	13Cr、304
Bonnet	A105、F304、F316
Stem nut	Copper alloy、D2
Bearing	Bearing steel
Bearing cap	1035、304
Handwheel	1025/KTH330
Cap	1035

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

Application

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

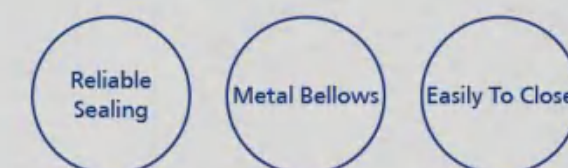
PERFORMANCE SPECIFICATION

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

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 four-ring opening combination. The seal ring deforms at high pressure to achieve reliability. The higher the pressure is the more reliable sealing is.
- 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 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	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

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

Application

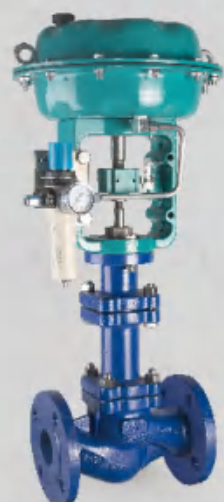
Flammable, Explosive, Toxic, Strong Permeable, Radioactive, Precious, High Purity Media, Etc.

PERFORMANCE SPECIFICATION

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

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 50:1. 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

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.

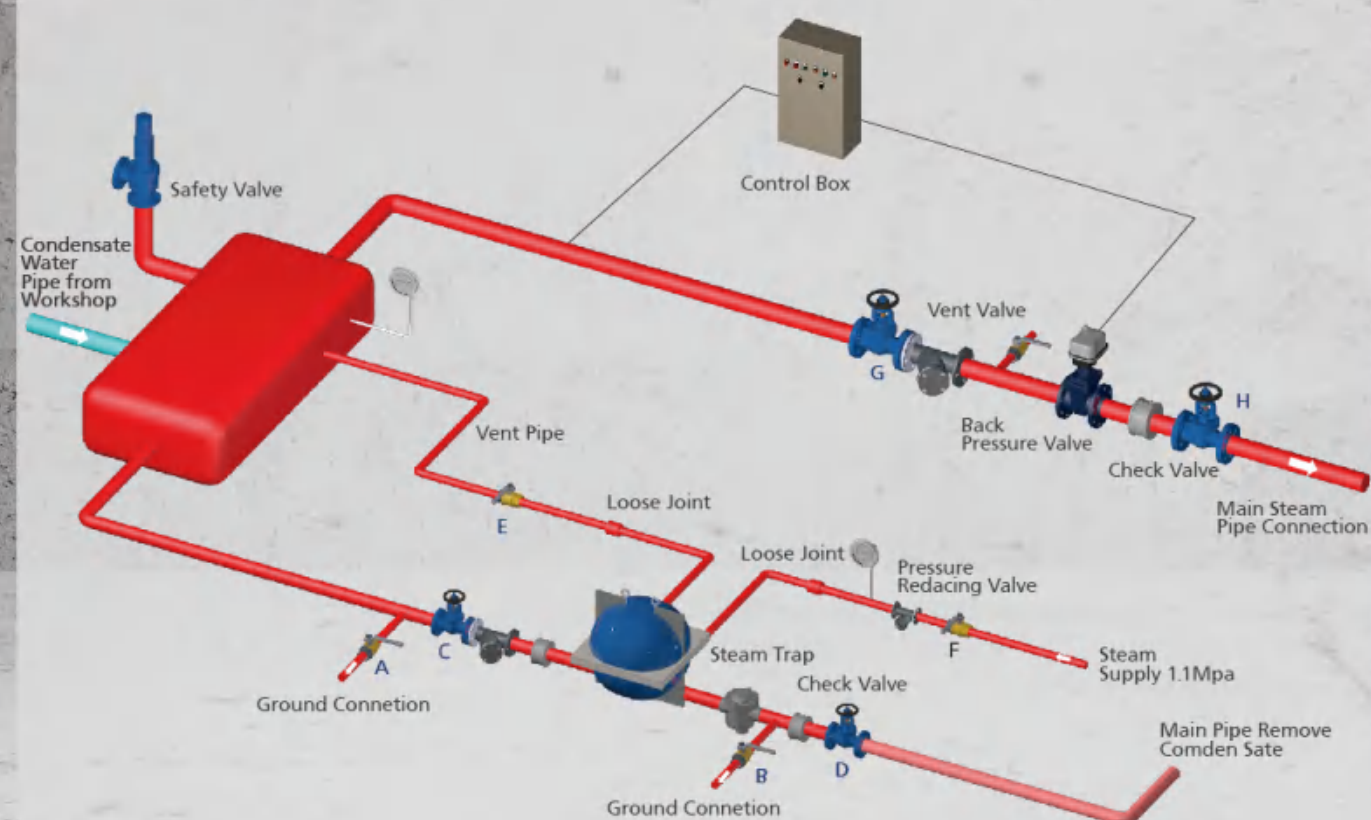
(4) When the product has been subject to cases beyond the control of VMV valve including natural disaster such as wind or flood damage, earthquakes and electrical storm, fire, pollution (special environments), salt damage, war or acts of terror.

(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

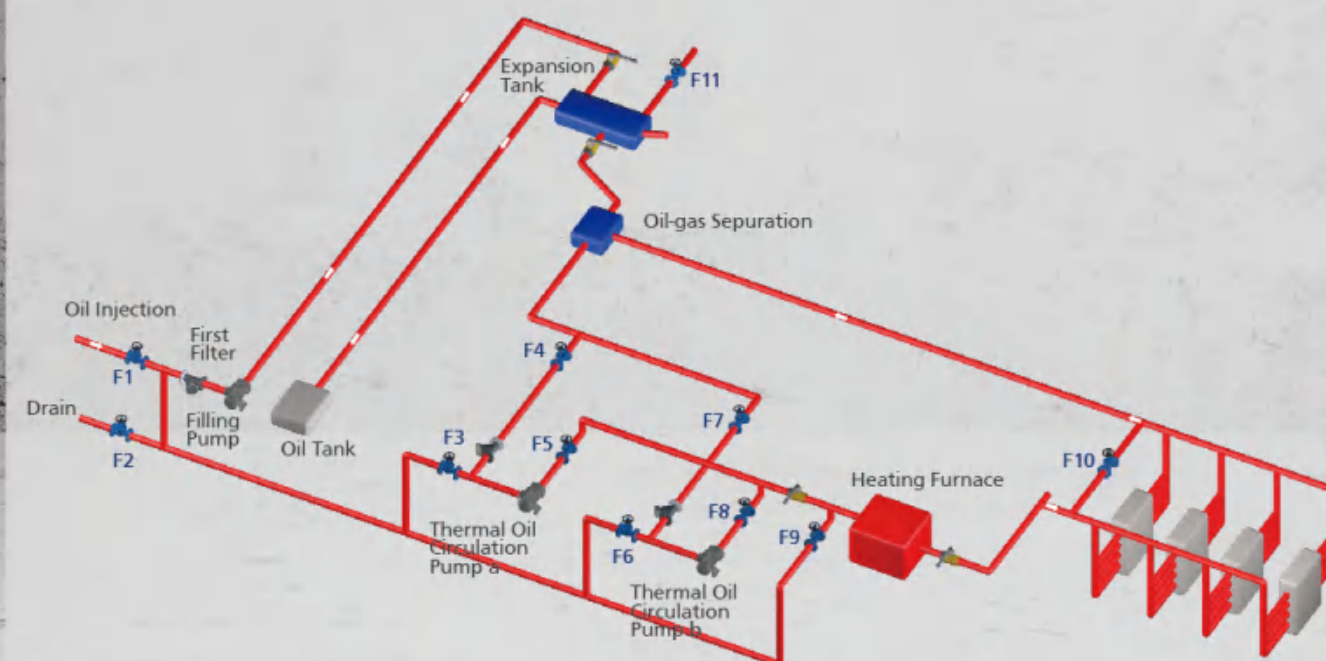
- | | |
|---|--|
| A | Drain bellows valve before pump |
| B | Drain bellows valve after pump |
| C | Globe bellows valve before pump |
| D | Globe bellows valve after pump |
| E | Ball bellows valve in vent pipe |
| F | Power steam ball bellows valve |
| G | Globe bellows valve before back pressure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



THERMAL OIL SYSTEM

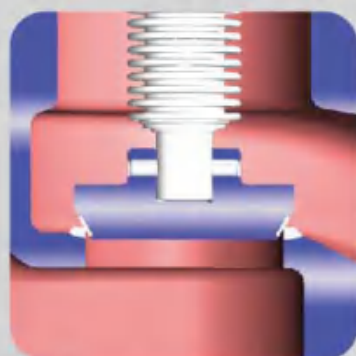
THERMAL OIL
SYSTEM

- | | |
|----|--|
| 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 |

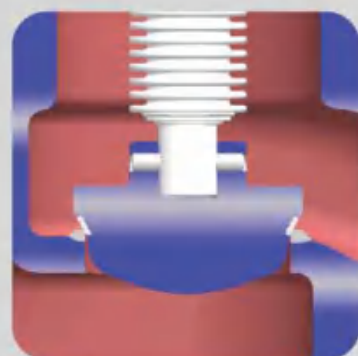


CUSTOMIZED BELLOWS VALVE

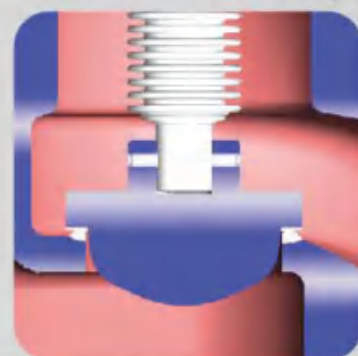
CUSTOMIZED BELLOWS VALVE



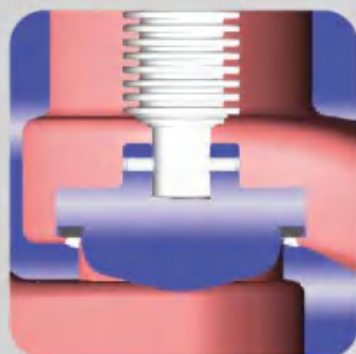
1. Conical sealing surface will remove impurity automatically.



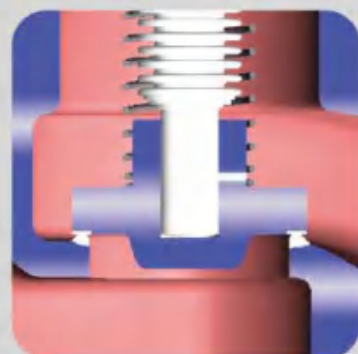
2. Streamline design disc has better tolerance to water hammer.



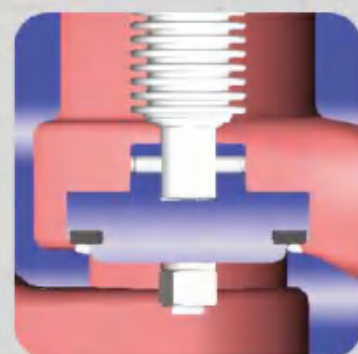
3. Flat sealing surface and streamline disc, with better tolerance to water hammer, and can be installed in any position.



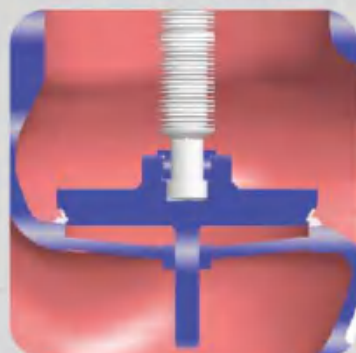
4. Soft sealing surface can prevent sparks when opening and closing. Streamline disc can regulate flow rate.



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



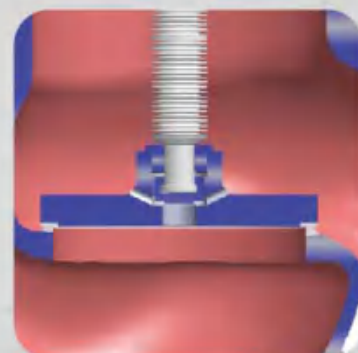
6. Soft sealing surface can prevent sparks, and easy for replacement.



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

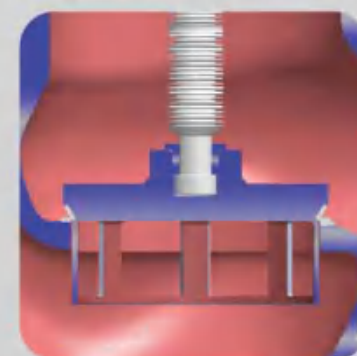


8. Streamline disc with central locate structure can prevent water hammer and lower noise.

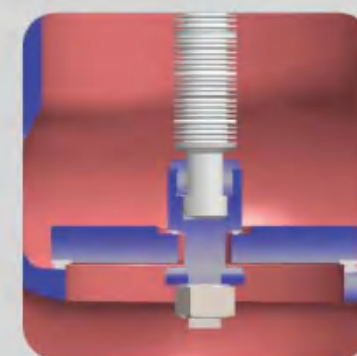


9. Double disc design, the second disc can relief pressure and easy for opening and closing.

CUSTOMIZED BELLOWS VALVE



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 : _____

International Sales Service

Add: Wuxing Industrial Zone, Oubei,
Wenzhou, Zhejiang, China. 325105
Tel : +86-577-67978269
Fax: +86-577-67376711
E-mail: vmv@vmv-valve.com

R&D Center (Shanghai)

Add: 12A Financial Valley, No. 1818,
Chengbei Road, Jiading District, Shanghai
Tel: +86-21-60192015
Fax: +86-21-60192016
E-mail: vmv@bellowvalves.com

R&D Center (Wenzhou)

Add: Wuxing Industrial Zone, Oubei,
Wenzhou, Zhejiang, China. 325105
Tel : +86-577-67978268
Fax: +86-577-67376711
E-mail: newton@bellowvalves.com