

First-class Valve Product Manufacturer
and Service Provider



PRODUCT CATALOGUE

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**SHANGHAI PUDONG
HANWEI VALVE CO., LTD.**

Company Profile

Shanghai Pudong Hanwei Valve Co., Ltd. was established in 1992. Located in the economically active Pudong New Area of Shanghai, adjacent to Shanghai Pudong International Airport and Shanghai Metro Line 2, with very convenient transportation. Since its inception, the company has been committed to the research and development, manufacturing, and sales of high-end valves, especially good at domestic substitution of key position valves imported from abroad.

The company's leading products include: 24-way rotary valves, High performance ball valve, gate, gate, check, butterfly valve, various discharge valves and melt valves, and various special valves customized according to users' common working conditions.

Hanwei Valves has long focused on petrochemicals, offshore project, chemicals, etc., and has good application performance in the PTA and polymerization industries, and aromatics adsorption and separation fields.

The 24-way rotary valve used for simulated moving bed adsorption separation is a core high-tech product with multiple patents. It has won the second prize of the National Science and Technology Progress Award. It is a key equipment for large aromatics and large ethylene combined units. Rotary valve products can be widely used in chemical separation and chromatographic separation processes in bioengineering.



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Enterprise Certification

Customer-oriented:

To customer needs, to create the best quality;

Collaboration and win-win:

Face market competition, seeking win-win situation;

Performance-oriented:

Pursue the concept of performance, the pursuit of operational excellence;

Employees are valued:

To create a growth environment, to achieve common development.



ISO 9001

ISO 14001

ISO 45001

BV

TS



API 607/6FA

API 641

ISO 15848-1

SIL

CE-PED

ISO 10497



API 609

API 6D

API 600

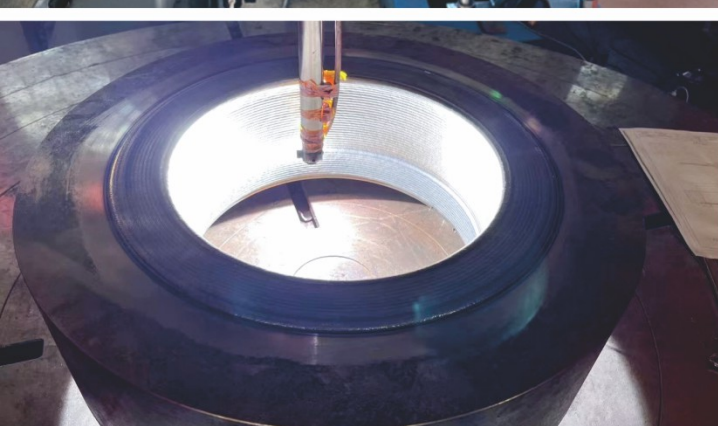
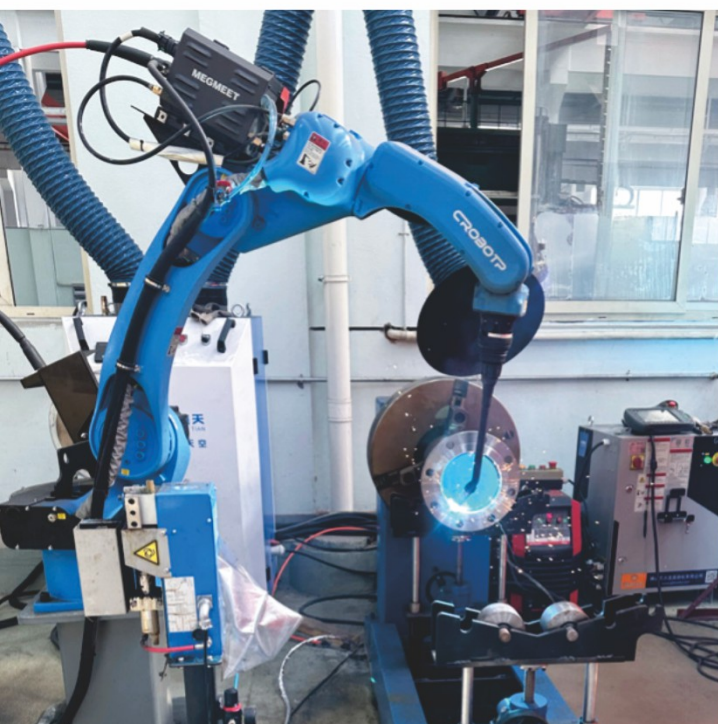


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Production and Manufacturing

Advanced processing equipment is widely used in Hanwei's valve production. The company has CNC machine tools, machining centers, CNC drilling machines, etc. At the same time, the company's large vertical lathes, large floor boring machines, etc. also ensure that Hanwei can produce extra-large diameter valves.

Hanwei has welding equipment such as submerged arc welding machines, internal cavity cladding machines, and robot automatic welding machines, which can meet the welding needs of different products. At the same time, robot welding can be used for batch welding of products. Hanwei's advanced processing equipment and perfect processing technology will ensure stable product quality and on-time delivery.



Quality Control

Hanwei Valve has a strict quality management system, which controls the quality of each link from the production of raw materials to the final product.

Hanwei has advanced testing equipment that enables us to perform Three-coordinate measurement, non-destructive testing, physical and chemical properties testing of materials, material reliability identification (PMI), wall thickness measurement, etc.

Hanwei has complete product performance testing capabilities, allowing us to conduct low temperature tests, high temperature tests, high and low temperature cycle tests, low fugitive emission tests, high pressure gas seal tests, valve life tests, full system paint tests, etc. to verify the performance of each link of the product.





Application Areas

Hanwei valve products are widely used in oil and gas extraction, offshore platforms,FPSO, subsea production systems, refining, coal chemical industry, fine chemicals, LNG, ships, metal smelting, papermaking, water treatment, electricity and oil and gas pipelines. Hanwei can provide customized valve products for different working conditions of customers.

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SHANGHAI PUDONG HANWEI
VALVE CO., LTD.



Floating Ball Valve

Product Overview

Floating ball valves can be designed with split or one-piece valve bodies, in line with ISO 17292 design standards. This series of valves can be widely used in low, medium and high pressure conditions with low torque. All valves in this series adopt fire safe design and are certified by TUV in accordance with API 607 or API 6FA fire safe certification.

Features

1. Full bore or reduced bore design;
2. Stem anti-blowout design, anti-static;
3. Fire safe certification;
4. Integral ISO mounting gasket, used to drive the integral locking device;
5. The top flange can be designed according to ISO 5211;
6. The packing and stuffing box can be designed according to low leakage.

Product Range

End connection: flange, welding, thread

Bore size: 1/4"~8"(DN8~DN200)

Pressure rating: Class 150~300 (PN16~PN40)

Material categories: carbon steel, alloy steel, stainless steel, duplex steel, copper-nickel alloy, nickel-based alloy, titanium, etc.

Sealing form: soft seal, metal seal

Operation mode: handle, gearbox, electric, pneumatic

Side Entry Trunnion Ball Valve

Product Overview

Side entry trunnion ball valves are widely used in the transportation and storage of oil, natural gas and other media as on-off control valves. The valve trim can be designed with fixed plate or upper and lower shafts. All valves in this series are fire safe and are in accordance with API 607 and API 6FA fire test, and TUV certified.

Features

1. Full bore or reduced bore design;
2. Stem anti-blowout design; fire safe and anti-static design;
3. Body exhaust and sewage discharge design;
4. Automatic relief of overpressure in the middle cavity; double block and bleed design function (DBB);
5. The stem and seat can have emergency grease injection and sealing function;
6. Reliable multi-seal seat, single/double piston type and single + double piston type are optional;
7. Flexible switch, small torque, easy to operate, maintenance-free and long service life.

Product Range

Design manufacture and inspection: API 6D

End connection: flange, welding, etc.

Bore size: 1/2"~56" (DN15~DN1400)

Pressure rating: Class 150~2500 (PN16~PN420)

Material categories: carbon steel, alloy steel, stainless steel, duplex steel and other special materials

Operation mode: handle, gear box, electric, pneumatic, hydraulic, gas-hydraulic linkage, electric-hydraulic linkage, etc.



Double Block and Bleed Ball Valve

Product Overview

DBB ball valve is designed with integrated modularity, double block and bleed functions can be implemented, replacing the complex form of traditional pipelines that need to install multiple valves, reducing leakage points in the system, and quickly realizing the cutoff and discharge functions. This series of valves saves installation space to a large extent, simplifies the installation procedure, facilitates instrument cleaning and maintenance, special media sampling and testing, and reduces the cost of use and maintenance.

Features

1. Full bore or reduced bore design;
2. Automatic release of overpressure in the middle cavity, double block and bleed design function;
3. Fire safe design; two-way sealing design;
4. Anti-blowout stem design, anti-static device;
5. Multi-valve combination valve group modular design;
6. The switch is flexible, easy to operate and has a long service life.

Product Range

Design, manufacture and inspection: API 6D

End connection: flange, welding, etc.

Bore size: 1/2"~48" (DN15~DN1200)

Pressure rating: Class150~2500 (PN16~PN420)

Material categories: carbon steel, alloy steel, stainless steel, duplex steel and other special materials

Operation mode: handle, gear box, electric, pneumatic, hydraulic



Top Entry Trunnion Ball Valve

Product Overview

The top-entry trunnion mounted ball valve adopts an integrated top-entry structure design, which complies with API 6D standard. This series of trunnion mounted ball valves has dual blocking and relief functions, and the injection sealant system can ensure that the leakage from the valve stem and seat ring is blocked in an emergency. The overall structural strength of the top-entry structure is higher than that of the side-entry structure, and components can be replaced online, which is convenient for maintenance.

Features

1. Full bore or reduced bore design;
2. Anti-blowout design of stem and anti-static device;
3. Fire safe type test certification;
4. Middle cavity overpressure self-release, double block and bleed design functions;
5. Stem and seat grease injection system;
6. Double piston design is optional.

Product Range

End connection: flange, welding

Bore size: 2"~48"(DN50~DN1200)

Pressure rating: Class150~2500 (PN16~PN420)

Material categories: carbon steel, alloy steel, stainless steel, duplex steel

Operation mode: handle, gearbox, electric, pneumatic



Fully Welded Trunnion Mounted Ball Valve

Product Overview

The body of the fully welded trunnion ball valve is fully welded, and the stem can be extended to be buried according to user requirements. The ball valve with a fully welded body is particularly suitable for oil and gas transportation in long-distance pipelines and is widely used.

Features

1. Full bore or reduced bore design;
2. Stem anti-blowout design; fire safe and anti-static design;
3. Body exhaust and sewage discharge design;
4. Automatic relief of overpressure in the middle cavity; double block and bleed design function (DBB);
5. Reliable multiple sealing seat, single/double piston type and single + double piston type are optional;
6. The Stem and seat can have emergency grease sealing function;
7. Flexible switch, small torque, easy to operate, maintenance-free and long service life.

Product Range

Design manufacture and inspection: API 6D
End connection: flange, welding (can be equipped with Tail pipe)
Bore size: 2"~56" (DN50~DN1400)
Pressure rating: Class 150~2500 (PN16~PN420)
Material Type: Carbon Steel
Operation mode: handle, gear box, electric, pneumatic, hydraulic, gas-hydraulic linkage, electric-hydraulic linkage, etc.

Thermal Pipeline Fully Welded Ball Valve

Product Overview

The body of the fully welded ball valve for thermal pipelines is a welded structure. The valve is light and easy to insulate. The installation of the adjustment mechanism is very simple. It is a leak-free fully welded ball valve. It is widely used in urban thermal pipelines and gas pipelines as a control device for the on/off of the pipeline system.

Features

1. Full bore or reduced bore design;
2. Anti-blowout stem design, anti-static design;
3. The body is made of high-quality forgings or profiles;
4. The seat can be fire safe or metal sealed;
5. Double seats, bidirectional sealing, zero leakage;
6. Automatic release of overpressure in the middle cavity, double block and bleed design function;
7. The switch is flexible and easy to operate.

Product Range

Design manufacture and inspection: EN 488
End connection: flange, welding
Bore size: DN25~DN1500
Pressure rating: PN16~PN25
Material category: Carbon steel and other special materials
Operation mode: handle, gear box, electric, pneumatic, hydraulic



Concentric Butterfly Valve

Product Overview

The soft-sealed elastic seat butterfly valve has the functions of switching and regulating fluids and is widely used in various industrial fluid controls. Compared with traditional globe valves and ball valves, the butterfly valve is light in weight and low in cost. With the rapid development of various artificial rubber industries, the soft-sealed elastic seat butterfly valve can be used not only in traditional water treatment industries, but also in various modern chemical industries.

Features

1. The butterfly plate, stem and body are designed concentrically;
2. Can be installed in both directions; ISO 5211 top flange;
3. Two-way sealing, zero leakage design;
4. Self-cleaning seat; blow-out-proof stem design;
5. Double/single stem design, optional extended stem;
6. Low torque characteristics, easy switching and ultra-long service life.

Product Range

End connections: wafer, lug, double flange
Bore size: 2"~72" (DN50~DN1800)
Pressure rating: Class150(PN6~PN20)
Material categories: ductile iron, carbon steel, stainless steel, copper-nickel alloy, etc.
Sealing material: EPDM, NBR, VITON
Operation mode: handle, gearbox, electric, pneumatic

Double Offset High Performance Butterfly Valve

Product Overview

The double offset high-performance butterfly valve adopts an elastic seat, which can easily achieve zero leakage and more reliable sealing. The elastic seat design can achieve lower torque and reduce the purchase cost of the drive device. PTFE and other soft sealing materials have good adaptability to acid and other media, making it highly adaptable to various working conditions.

Features

1. Frictionless closing; Long service life;
2. Bidirectional sealing with zero leakage and bidirectional blocking function;
3. Anti-blowout stem design;
4. The bracket and stem comply with ISO 5211 top flange standard;
5. It has natural fire resistance;
6. The seat can be fire safe or metal sealed.

Product Range

Bore size: 2"~120" (DN50~DN3000)
Pressure rating: Class 150~600 (PN10~PN100)
Connection type: Wafer, lug, double flange
Material categories: carbon steel, stainless steel, alloy steel, duplex steel, copper-nickel alloy, etc.
Operation mode: handle, gear box, electric, pneumatic, hydraulic, etc.





Triple Offset Butterfly Valve

Product Overview

The triple eccentric high-performance butterfly valve complies with API 609 standards and features light weight, low cost and low torque. The operating temperature can cover -196°C~816°C, and various main body materials are available. In many working conditions, it can be used not only for fluid blocking, but also for fluid process control to replace traditional gate valves, globe valves and ball valves.

Features

1. No friction in the whole switch, high cycle thrust bearing;
2. Elastic metal sealing ring, STELLITE hard surface seat;
3. Enhanced flexible graphite bearing protection ring;
4. Intrinsic fire safety design;
5. External stop anti-blowout stem; two-way sealing design.

Product Range

Bore size: 2"~120" (DN50~DN3000)

Pressure rating: Class 150~600 (PN10~PN100)

Connection type: Wafer, lug, double flange, butt welding

Material categories: carbon steel, stainless steel, alloy steel, duplex steel, copper-nickel alloy, etc.

Operation mode: gearbox, electric, pneumatic

Flue Butterfly Valve

Product Overview

Flue butterfly valve is used for regulating high-temperature catalytic flue gas. The diameter can reach DN2900 and the applicable temperature can reach up to 900°C.

Features

1. The four-bar swing-type connecting rod design can prevent the radial dimension of the butterfly plate sealing surface from expanding due to temperature rise, thereby preventing the butterfly plate and body from getting stuck, effectively solving the problem of high-temperature thermal expansion and seizure of the butterfly valve;
2. The internal parts of the stem are made of high-temperature alloy steel with high-strength design. The surface of the stem is welded with hard alloy, which is corrosion-resistant, scratch-resistant and blow-out-proof.
3. The stem sleeve is designed with a purge hole to prevent solid catalyst particles from entering the gap between the stem and the body;
4. Special design according to user requirements.

Product Range

Bore size: 2"~116" (DN50~DN2900)

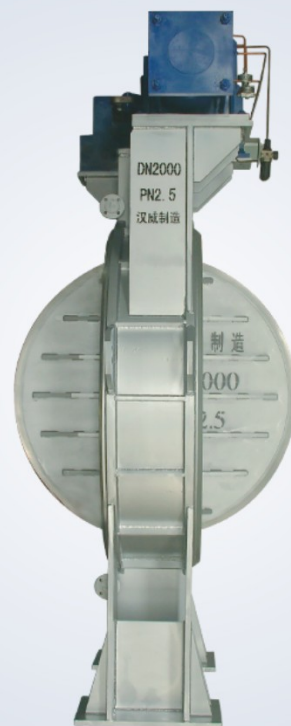
Pressure rating: PN2.5~PN6

Connection type: Wafer, lug type, double flange type, butt welding type

Material type: stainless steel, alloy steel

Sealing material: stainless steel ring

Operation mode: gearbox, electric, pneumatic



Wedge Gate Valve

Product Overview

Wedge gate valves are widely used in the petroleum, chemical, pharmaceutical, fertilizer, power and other industries as on-off control valves to connect or cut off the medium. Hanwei wedge gate valve series meets the design requirements of API 600 and ASME B16.34. Different materials can meet the needs of various working conditions and are suitable for a wide range of media, temperature and pressure.

Features

1. Full bore design, easy to clean pipelines;
2. The stem is equipped with an upper sealing structure with high strength;
3. The low temperature type is designed with an extended stem;
4. Automatic release of overpressure in the middle cavity;
5. Double seats, bidirectional sealing, optional threaded or welded seats;
6. Elastic gate design;
7. The switch is flexible, easy to operate and has a long service life.

Product Range

End connection: flange, welding, thread

Bore size: 2"~64" (DN50~DN1600)

Pressure rating: Class150~2500 (PN16~PN420)

Material categories: carbon steel, alloy steel, stainless steel, duplex steel, nickel-based alloy, copper-nickel alloy, etc.

Operation mode: hand wheel, gear box, electric, pneumatic, hydraulic, etc.

Flat Gate Valve

Product Overview

Slab gate valves are widely used in the field of long-distance oil and natural gas pipelines to cut off or regulate medium fluids. Soft seal and Metal seal series are available.

Features

1. Full bore design, easy to clean pipelines;
2. Automatic release of overpressure in the middle chamber; double block and bleed design function (DBB);
3. Fire safe structure design; Fugitive emission(option);
4. The stem is equipped with an upper sealing structure with high strength;
5. Spring double O-ring design, soft seal and metal seal seat;
6. The seat and stem can have emergency grease sealing function;
7. The gates are available in single/double gates and open gates;
8. The switch is flexible, easy to operate, maintenance-free and has a long service life.

Product Range

Design, manufacture and inspection: API 6D

End connection: flange, welding

Bore size: 2"~48" (DN50~DN1200)

Pressure rating: Class150~2500 (PN16~PN420)

Material categories: carbon steel, alloy steel, stainless steel, duplex steel and other special materials

Operation mode: hand wheel, gear box, electric, pneumatic, hydraulic, etc.





Knife Gate Valve

Product Overview

The knife gate valve is a new type of gate valve with the advantages of small size, light weight, light material saving, etc. It is widely used in sewage, coal slurry, syrup, mud, air, slag-water mixture, water supply, papermaking, mining and other industries.

Features

1. The body is forged or cast.
2. Compact structure and light weight.
3. Metal seal or soft seal structure can be selected according to requirements.
4. Small size and easy installation.
5. The lifting gate structure can automatically scrape off the adhesive on the sealing surface.
6. Simple operation, reliable operation and long service life;
7. The design of the sealing stuffing box makes the upper seal safe and effective.

Product Range

Bore size: 1/2"~60" (DN15~DN1500)

Pressure rating: Class150~300 (PN16~PN50)

Material categories: carbon steel, stainless steel, duplex steel, titanium alloy

Sealing materials: SS, STL, PTFE, PPL, etc.

Operation mode: handle, gearbox, pneumatic, electric, hydraulic

Forged Steel Gate Valve

Product Overview

HW Forged steel gate valve is designed and produced according to API 602/ISO 15761/ASME B16.34 standards, and pressure tested according to API 598 standards. There are three bonnet designs for the forged steel gate valve series, namely bolted bonnet, welded bonnet and pressure self-sealing bonnet. It can meet the ultra-low temperature forged steel gate valve design and fugitive emission(option).

Features

1. Full diameter or reduced diameter, exposed rod bracket type OS&Y;
2. Automatic alignment of gland and gland flange;
3. Bolted/welded bonnet/pressure self-sealing bonnet;
4. Integral upper sealing seat;
5. Ultra-low temperature structure (optional);
6. Fugitive emission(option), certified in accordance with ISO 15848-1 Class B (optional).

Product Range

Bore size: 3/8"~2 1/2"

Pressure rating: Class 150~2500

Material categories: carbon steel, stainless steel, alloy steel, copper-nickel alloy, etc.

Internal material: 13Cr, stainless steel

End connection: flange end, butt welding end, socket welding end, threaded end

Operation mode: hand wheel, electric



Forged Steel Globe Valve

Product Overview

HW Forged steel globe valve is designed and produced according to API 602 /ISO 15761/ASME B16.34 standards, and pressure tested according to API 598 standards. There are three bonnet designs for the forged steel globe valve series, namely bolted bonnet, welded bonnet and pressure self-sealing bonnet. It can meet the requirements of ultra-low temperature forged steel globe valve design, Fugitive emission(option), and Y-type globe valve design.

Features

1. Full diameter or reduced diameter, exposed rod bracket type OS&Y;
2. Self-centering platen sleeve design;
3. Bolted/welded bonnet/pressure self-sealing bonnet;
4. Integral upper sealing seat;
5. The disc structure can be selected from throttling type, needle type, ball type, and check type;
6. Ultra-low temperature structure (optional);
7. Fugitive emission(option), certified in accordance with ISO 15848-1 Class B certification (optional);
8. Y-type globe valve design (optional).

Product Range

Bore size: 3/8"~2 1/2"

Pressure rating: Class 150~2500

Material categories: carbon steel, stainless steel, alloy steel, copper-nickel alloy, etc.

End connection: flange end, butt welding end, socket welding end, threaded end



Cast Steel Globe Valve

Product Overview

Hanwei GL series globe valves are designed and manufactured according to API 623, BS 1873, ASME B16.34 standards. They are forced sealing valves and can be used as media isolation valves.

Features

1. The globe valve is a forced sealing valve.
2. The globe valve structures include straight-through, direct-flow and right-angle types.
3. The sealing surface is not easy to wear and scratch, with good sealing performance and long service life.
4. When opening and closing, the disc stroke is small and the opening and closing force moment is large.
5. The fluid resistance is large because the medium channel in the body is tortuous, the fluid resistance is large, and the power consumption is large.

Product Range

End connection: flange, welding

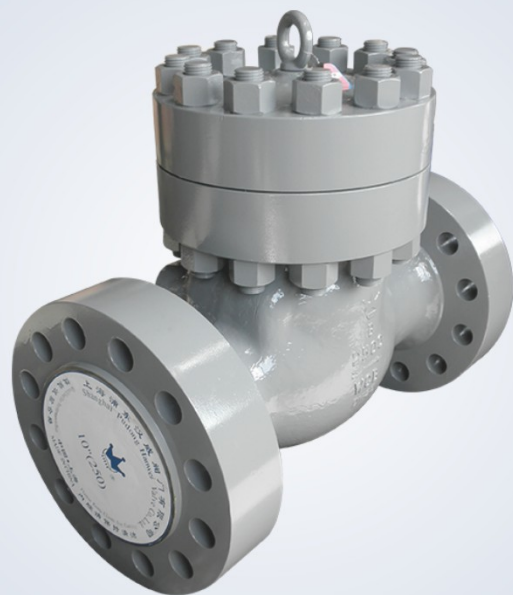
Bore size: 2"~24" (DN50~DN600)

Pressure rating: Class150~2500 (PN16~PN420)

Material categories: carbon steel, alloy steel, stainless steel, duplex steel, nickel-based alloy, copper-nickel alloy, etc.

Operation mode: hand wheel, gear box, electric, etc.





Swing Check Valve

Product Overview

Hanwei H1 series swing check valve is designed and manufactured according to API 594, BS 1868, ASME B16.34 standards, and can meet threaded seat or welded seat, internal pin or external pin design, heavy hammer or damping device design.

Features

1. Simple structure, easy to manufacture and maintain;
2. The swing design can meet the needs of pigging;
3. Optional soft sealing seat or Metal sealing seat design;
4. Internal pin design or external pin design;
5. Optional threaded seat or welded seat;
6. Small working distance and short opening and closing time;
7. Optional weight or damping device;
8. Fully jacketed or semi-jacketed design (optional).

Product Range

Bore size: 2"~48" (DN50~DN1200)

Pressure rating: Class150~2500 (PN16~PN420)

Material categories: carbon steel, stainless steel, alloy steel, duplex steel, nickel-based alloy, copper-nickel alloy, etc.

End connection: flange end, butt welding end

Dual-plate Check Valve

Product Overview

Hanwei H6 series Dual-plate check valve are designed and manufactured in accordance with API 594, ASME B16.34 standards, and product tests are carried out in accordance with API 598.

Features

1. Integral structure, compact and low weight;
2. Double-flap design, body design without external leakage points;
3. Spring-loaded disc, fast closing and low water hammer pressure;
4. Both horizontal and vertical pipelines can be used, easy to install;
5. The flow channel is unobstructed and the fluid resistance is small;
6. Sensitive action and good sealing performance;
7. Optional soft seal or Metal seal design;
8. Long service life and high reliability.

Product Range

Design and manufacturing: API 594, ASME B16.34, API 6D

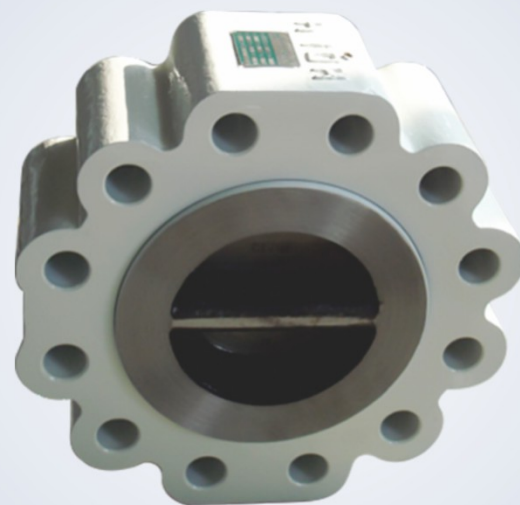
Inspection and testing: API 598, API 6D

End connection: Flange

Bore size: 1/2"~40" (DN15~DN1000)

Pressure rating: Class 150~2500 (PN16~PN420)

Material categories: carbon steel, alloy steel, stainless steel, duplex steel and other special materials



Forged Steel Check Valve

Product Overview

HW Forged steel check valve design according to API 602, ISO 15671, ASME B16.34 Standard design and production, and pressure test according to API 598 standard. Forged steel check valve series has three bonnet designs, namely bolted bonnet, welded bonnet and pressure self-sealing bonnet. It can meet the ultra-low temperature forged steel check valve design, ball lift check valve design, Y-type lift check valve design.

Features

1. Full diameter or reduced diameter design;
2. Bolted connection, welded valve cover, pressure self-sealing valve cover;
3. The socket end complies with ASME B16.11, and the threaded end complies with ASME B1.20.1;
4. Flange dimensions comply with ASME B16.5, butt welding ends comply with ASME B16.25;
5. Integral flange or welding flange;
6. Ultra-low temperature forged steel check valve (optional);
7. Ball/Y-type lift check valve (optional).

Product Range

Bore size: 3/8"~2 1/2"

Pressure rating: Class150~2500

Material categories: carbon steel, stainless steel, alloy steel, copper-nickel alloy, etc.

End connection: flange end, butt welding end, socket welding end, threaded end



Axial Flow Check Valve

Product Overview

Hanwei H4 series axial flow check valve is designed and manufactured according to API 6D, ASME B16.34 standards. It is widely used in oil and natural gas pipeline systems. The specially designed spring can avoid water hammer caused by too fast closing speed, reduce noise and achieve silent effect.

Features

1. Streamlined flow channel design, small fluid resistance and small medium pressure loss;
2. Specially designed multi-seal seat, reliable sealing;
3. Fire safe structure design;
4. Compact structure, small size and easy installation;
5. Precisely designed spring ensures low-pressure sealing and low-pressure opening;
6. No jamming when opening and closing, reliable operation and long service life;
7. Low noise, energy saving and environmental protection.

Product Range

Design, manufacture and inspection: API 6D

End connection: flange, welding

Bore size: 1/2"~72" (DN15~DN1800)

Pressure rating: Class 150~2500 (PN16~PN420)

Material categories: carbon steel, alloy steel, stainless steel, duplex steel and other special materials





Quarter-turn Control Valve

Product Overview

After receiving the control signal, the actuator of the Quarter-turn control valve converts the signal into the displacement thrust or angular torque of the actuator to achieve the purpose of controlling the valve's switch or adjustment. Quarter-turn valves are widely used in industries such as petroleum, chemical industry, electric power and metallurgy. They can be used to cut off or open process pipelines in conjunction with detection instruments. The customized angle-turn control valve can prevent accidents in emergency situations. When the instrument detects a dangerous signal, the Quarter-turn control valve can immediately shutdown the medium supply to prevent serious accidents.

Application Areas

Applicable occasions:
Process switch control, process flow switching, emergency shutdown, emergency Bleed, etc.

Product Range

Valve types: ball valves, butterfly valves and plug valves, etc.
Actuator types: electric, pneumatic, hydraulic, gas-liquid linkage, electro-hydraulic linkage, etc.
Material categories: carbon steel, stainless steel, duplex stainless steel, alloy steel, etc.
Nominal diameter: 1/2"~96"
Pressure level: Class150~2500
Certification level: API, TS, SIL, fire protection certificate, etc.

Choke Control Valve

Product Overview

This product can be used with valve cage, valve sleeve or labyrinth structure valve seat/valve core assembly according to customer working conditions. The product is hardened by advanced HVOF technology, so that it can be used stably and long-term in high-pressure flushing environment. At the same time, this product can also use stepping self-locking pneumatic actuator to make the product run smoothly in unstable high-pressure pipeline flushing to avoid fluctuations.

Application Areas

Applicable occasions: wellhead pipeline throttling, high-pressure water injection pipeline return flow control, precision regulation.

Product Range

Design standards: API 6D, API 6A
Diameter range: 1/2"~24"
Pressure rating: Class150~2500;10000~15000PSI
Material categories: carbon steel, stainless steel, duplex stainless steel, nickel-based materials



On-off Ball Valve

Product Overview

This product is based on the requirements of the API design standards and strictly implements the customer's on-site working conditions, achieving complete adaptability of one valve, one design, and one valve, one working condition. The product is different from the traditional concept of valve plus actuator, and adopts a new design principle of low torque and high life. It adopts advanced sealing structure and imported high-quality sealing materials. Each type of product is tested for more than 30,000 high-frequency actions to ensure that each valve can operate stably online.

Application Areas

Applicable occasions:
Process interlock switch control, process flow switching control.

Product Range

Design standards: API 6D, API 608, GB/T 4213, API 6A
Bore size: 1/2"~48" (DN15~DN1200)
Pressure rating: Class150~2500;10000PSI
Material categories: carbon steel, stainless steel, duplex stainless steel, nickel-based materials, copper alloys

On-off Butterfly Valve

Product Overview

This product is based on the requirements of the API design standards and strictly implements the customer's on-site working conditions, achieving complete adaptability of one valve, one design, and one valve, one working condition. The product is different from the traditional concept of valve plus actuator, and adopts a new design principle of low torque and high life. It adopts double eccentric and triple eccentric structures. Each type of product is tested for more than 10,000 high-frequency actions to ensure that each valve can operate stably online.

Application Areas

Applicable occasions:
Process interlock switch control, process flow switching control.

Product Range

Design standards: API 609, GB/T 12238, etc.
Bore size: 1/2"~96"
Pressure rating: Class150~900
Material categories: carbon steel, stainless steel, duplex stainless steel, nickel-based materials, copper alloys
Certification level: API, TS, SIL, Fire safe certification, etc.





On-off Gate Valve

Product Overview

This product is based on the requirements of the API design standards and strictly implements the customer's on-site working conditions, achieving complete adaptability of one valve, one design, and one valve, one working condition. The product is different from the traditional concept of valve plus actuator, and adopts a new design principle of low thrust and high life. It adopts an advanced parallel double gate valve structure. Each type of product is tested for more than 10,000 high-frequency actions to ensure that each valve can operate stably online.

Application Areas

Applicable occasions:

Process interlock switch control, process flow switching control.

Product Range

Design standards: API 600, GB/T 12234, etc.

Bore size: 1/2"~60"(DN15~DN1500)

Pressure rating: Class150~2500 (PN16~PN420)

Material categories: carbon steel, stainless steel, duplex stainless steel, nickel-based materials, copper alloys

Certification level: API, TS, SIL, Fire safe certification, etc.

ESD Valve

Product Overview

This product is a shut-off valve for the ESD system of petrochemical industry. The product is designed according to API and GB standards and has API, TS, SIL, fire safe and explosion-proof certifications. The product adopts a maintenance-free metal sealing structure, and the sealing materials include HVOF, thermal spraying, cladding, nitriding, etc. The product is equipped with a single-acting pneumatic or hydraulic actuator, and all specifications can quickly close the valve within 10 seconds after the ESD is triggered. The control pipeline of the valve adopts a closed-loop design, and the actuator cylinder wall is completely isolated from the atmosphere. It can be used normally in heavy rain or low temperature environments, achieving true IP56/IP67 level protection.

Features

The product can be equipped with explosion-proof cover, speed controller, PST control module, solenoid valve 1oo2 or 2oo2 redundant configuration according to customer needs.

Product Range

Design, manufacture and inspection: API 6D, ASME B16.34

End connection: flange, welding

Bore size: 1/2"~24"(DN15~DN600)

Pressure rating: Class150~2500 (PN16~PN420)

Material categories: carbon steel, duplex steel, stainless steel, alloy steel and other special materials

Operation mode: electric, pneumatic, hydraulic, gas-hydraulic, electro-hydraulic



HIPPS High Voltage Integrity Protection System

Product Overview

HIPPS refers to High Integrity Pressure Protection Systems. Our company's HIPPS is usually skid-mounted with two SIS cut-off ball valves in series, a set of pressure transmissions, and a multi-redundant high-precision logic controller. The SIS cut-off valve is controlled by a 2*2oo2 solenoid valve, and is equipped with a standard FISHER DVC6200SIS PST module. All circuit designs use a reliable redundant structure.

Features

1. The product adopts a maintenance-free metal sealing structure and is equipped with a detection hole.
2. All dynamic sealing areas are welded with nickel-based alloy to prevent corrosion.
3. The system as a whole reaches SIL3 level through double valve series connection.
4. The transmitter uses 3 SIL3 level products and adopts 2oo3 redundant configuration.
5. The final whole skid PFD verification reaches SIL3 level, and the response time is within 2 seconds.

Product Range

End connection: flange, welding

Bore size: 2"~48" (DN50~DN1200)

Pressure rating: Class150~2500 (PN16~PN420)

Material categories: carbon steel, alloy steel, stainless steel, duplex steel

Operation mode: hydraulic, pneumatic



SIS Shutdown Valves

Product Overview

This product is a shut-off valve suitable for SIS systems in petrochemical industry. The product is designed according to API and GB standards and has API, TS, SIL, Fire safe and explosion protection certifications. All series of products are verified for overall PFD. Under 1oo1 redundancy, the PFDavg value is less than 5E-03, which meets SIL2 as a whole.

Features

1. Adopt maintenance-free metal sealing structure.
2. The product is equipped with single-acting pneumatic or hydraulic actuators, which quickly close the valve 2~3 seconds after SIS is triggered.
3. The valve and the overall control pipeline meet IP56/IP67 protection.
4. The product is equipped with PST test module and speed control module as standard.
5. The main control solenoid valve adopts SIL4 level high-quality brand model.
6. The product can be equipped with explosion-proof cover according to customer needs, and the solenoid valve can be upgraded to 1oo2, 2oo2, 2*2oo2 redundant configuration.

Product Range

Design, manufacture and inspection: API 6D, ASME B16.34

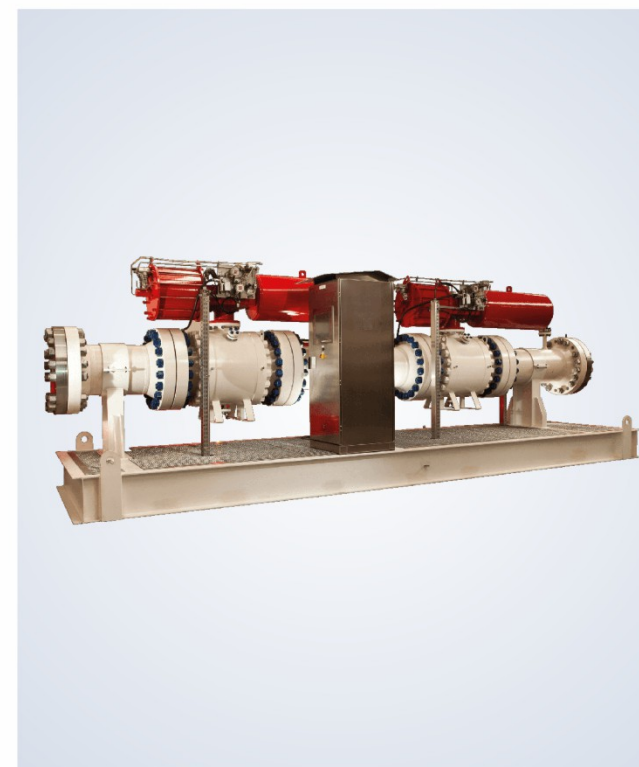
End connection: flange, welding

Bore size: 1/2"~24"(DN15~DN600)

Pressure rating: Class150~2500 (PN16~PN420)

Material categories: carbon steel, duplex steel, stainless steel, alloy steel and other special materials

Operation mode: electric, pneumatic, hydraulic, gas-hydraulic, electro-hydraulic





24-Way Rotary Valve

Product Overview

The 24-way rotary valve is a high-end product with high-tech content produced by Hanwei Company. It is a high-tech special product integrating mechanical, electrical, instrumentation and liquid. It is the key core equipment of the simulated moving bed molecular sieve adsorption separation device.

The simulated moving bed process is an advanced chemical adsorption and separation process. After the adsorbent "molecular sieve" is loaded into the adsorption tower, it is fixed like a fixed bed and does not move. The material inlet and outlet of each bed layer of the adsorption tower are continuously switched by a rotary valve at a certain time interval. This process is equivalent to the adsorbent "molecular sieve" moving in the adsorption tower, so it is called a simulated moving bed.

Therefore, the 24-way rotary valve is mainly used to simulate the moving bed molecular sieve adsorption separation device to achieve a continuous adsorption separation process and produce high-purity products.

At present, the molecular sieve adsorption separation devices that use rotary valves to simulate moving bed processes mainly include: (1) Molecular sieve dewaxing unit: Using the Molex process, normal alkanes (light wax) are separated from camphor oil and kerosene. (2) Paraxylene unit: Paraxylene is separated from the C8 aromatics mixture using the Parex process. Rotary valves can also be used in other adsorption devices: such as olefins (Olex); separation of glucose syrup (Sarex); separation of para- and meta-cresols (Cymex); separation of normal alkanes (Maxene) from naphtha and other process devices.

Features

- 1. It can fully meet the dynamic allocation of seven kinds of materials to 24 beds;
- 2.The sealing performance fully meets the requirements of the simulated moving bed adsorption separation process;
- 3. Flexible installation and replacement of parts, long design life and service life of the device;
- 4. Easy to operate automatically and reliable in operation;
- 5. Special design according to user requirements.

Technical Parameters

Technical parameters	Molecular sieve dewaxing unit	Paraxylene unit	Other adsorption separation devices
Design pressure	3.3MPa(478.6psig)	1.93MPa(275psig)	Other adsorption separation devices Technical parameters by user Need to decide
Strength test pressure	4.95MPa(718psig)	4.95MPa(718psig)	
Design temperature	235℃(455℉)	232℃(450℉)	
Working medium	Straight run kerosene fractions	Mixed xylene	
Number of channels	12-way, 24-way, or customized according to process		
Connection	Flange, Wafer		
Drive mode	Hydraulic, pneumatic, electric		
Control method	Ratchet pawl stepping		
Stepping method	Computer process control		

Model Specifications

Valve No.	Model	Specification
I	RV I-800	Φ800mm (34")
II	RV II-1000	Φ1000mm (40")
III	RV III-1200	Φ1200mm (46")
IV	RV IV-1400	Φ1400mm (54")
V	RV V-1600	Φ1600mm(63")
A	RV A-250	Φ250mm (10")
B	RV B-400	Φ400mm (16")
C	RV C-550	Φ550mm (22")
D	RV D-700	Φ700mm (28")



Subsea Ball Valve

Product Overview

Subsea ball valves are mainly used in subsea manifolds, subsea pipeline terminals and oil and gas pipelines in offshore oil and gas projects. The valve sealing structure adopts a combination of single piston effect (SPE) + double piston effect (DPE) sealing. SPE is set as the upstream seal of the valve, which can realize the function of automatic upstream discharge of overpressure in the valve cavity. The main operating modes of subsea valves include hydraulic control, remote control operation (ROV) and diver operation. The service life of subsea ball valves is required to be relatively long, generally more than 30 years.

Features

1. Full bore or reduced bore design;
2. Sealing form of single piston effect (SPE) + double piston effect (DPE) combination;
3. Automatic release of overpressure in the middle body;
4. Anti-blowout stem and anti-static;
5. Anti-potential difference corrosion design;
6. Anti-seawater corrosion thread design;
7. The switch is flexible, easy to operate and has a long service life.

Product Range

Design, manufacture and inspection: API 6DSS
End connection: flange, welding
Bore size: 1/2"~24" (DN15~DN600)
Pressure rating: Class150~2500 (PN16~PN420)
Material categories: carbon steel, alloy steel, stainless steel, duplex steel and other special materials
Operation mode: hydraulic, ROV and diver operation



Plunger Melt Valve

Product Overview

The multi-way plunger melt valve is used to directly extract high-temperature or vacuum melt or polymer from the pipeline, cut off and divert the pipeline. When the valve is closed, its feed port just matches the inner surface of the pipeline, which does not interfere with the flow of the melt in the pipe.

Various Structural Forms

Three-way valve, four-way valve, five-way valve, jacketed sampling valve, tank bottom valve, flushing valve, cut-off valve, discharge valve, discharge valve, injection valve, regulating valve, Y-type three-way valve, etc., suitable for high-temperature melt media such as PTA, PBT, FDY, polymerization, spinning, staple fiber, filament, etc.

Features

1. Sealing form: plunger type forced seal, safe and reliable.
2. The flow channel is smooth without dead corners to avoid material hanging and accumulation.
3. Jacket design, suitable for heat medium insulation.

Product Range

Design standards: GB/T 12235, ASME B16.34
Pressure rating: Class150~2500(PN16~420)
Jacket tube material: 304/316
Main valve material: 304, 316, F51, Ti or other alloy steel
Applicable medium for jacketed tube: hot media, steam
Main valve applicable media: ester, prepolymer, melt
Operation mode: manual, electric, pneumatic, hydraulic





Discharge Valve

Product Overview

The discharge valve is mainly used to discharge materials from the bottom of storage tanks, reactors and other containers. The valve is connected to the equipment by flange and located at its bottom, eliminating the residual phenomenon of process media at the outlet of the container. According to the actual needs, it is divided into two working modes of valve disc structure: ascending type (HW-FJVS) and descending type (HW-FJVSX); the ascending type is used for the discharge of reactors with agitators (except frame anchor type); and the descending type is used for the discharge of reactors with frame anchor agitators. The sealing surface of the valve disc is welded with hard alloy, and the sealing pair adopts wire sealing. At the same time, the valve disc adopts a short stroke design to ensure the sealing reliability of the valve and effectively prevent the material from scarring. It is widely used in chemical, petroleum, metallurgy, pharmaceutical, pesticide, dye, food processing and other industries.

Features

1. The body is forged or cast;
2. The metal-sealed seat has a wide range of applications and can meet a wider temperature range;
3. The disc can be designed with upward or downward expansion according to actual needs;
4. Simple operation, reliable operation and long service life;
5. The sealing surface is corrosion-resistant and erosion-resistant, and the sealing is reliable.

Product Range

Bore size: 1/2"~12" (DN15~DN300)
Pressure rating: Class150~1500 (PN16~PN250)
Body material: carbon steel, stainless steel, duplex steel, titanium alloy
Sealing material: 13Cr, STL, etc.
Operation mode: handle, gearbox, pneumatic, electric, hydraulic

Choke Valve

Product Overview

1. Improved flow channel characteristics, avoid vibration, reduce erosion, and maximize production stability;
2. Precisely control the static and dynamic media forces of the element (piston) to minimize;
3. Large flow and precise control function make the valve suitable for startup and energy-consuming production conditions;
4. The stem anti-blowout and fire-proof design provides high safety.

Features

1. Accurately calculate the flow channel size according to pipeline parameters;
2. All metal parts such as body and valve trim are forged;
3. Anti-blowout stem, multi-stage sealing of stem;
4. Precise fluid flow hole design;
5. Fire safe and anti-static design;
6. Balanced valve trim design, stem is not subjected to stress;
7. The stem can be equipped with an emergency grease injection sealing device.

Product Range

Bore size: 2"~24" (DN50~DN600)
Pressure rating: Class150~4500 (PN16~PN700)
Body material: carbon steel, stainless steel, duplex steel, alloy steel
Sealing material: STL, tungsten carbide, nickel-based
Operation mode: handle, gearbox, electric, hydraulic



Pig Valve

Product Overview

The pigging valve is a new type of device mainly used for pigging operations in oil, natural gas, chemicals and other liquid transportation pipe-lines. It is used for launching and receiving pigs, mechanically cleaning the inner wall of pipelines (removing dirt, rust, removing foreign objects in pipelines, etc.), and separating different products. It has been widely used in oil and gas fields, chemicals, docks, oil and gas storage and transportation depots and offshore platforms.

Features

1. Full bore design; good sealing performance, zero leakage;
2. A branch pipe is opened on the side of the body, which is convenient for installing quick-opening blind plates and vent valves;
3. Interlocking design ensures the safety of operators;
4. Fire-resistant safety design, anti-static design;
5. The pig is loaded, launched, received and removed by rotating the sphere;
6. The body structure has three-section type and integral type.

Product Range

Design manufacture and inspection: API 6D
End connection: Flange
Bore size: 1/2"~40" (DN15~DN1000)
Pressure rating: Class150~2500 (PN16~PN420)
Material category: carbon steel, low temperature steel, etc.

Linked Three-way Ball Valve

Product Overview

Three-way ball valves are divided into L-type and T-type ball valves, which are used for pipeline process switching, and at the same time, the sealing of the previous process is realized. Hanwei's customized product linkage three-way ball valve is used for safety valve switching in factories and mines. It can synchronously switch two safety valves by operating one stem, which provides convenience for the switching and maintenance of safety valves in the same pipeline.

Features

1. Full bore or reduced bore design;
2. Fire safe design, two-way sealing structure;
3. Anti-blowout stem and anti-static design;
4. Double valve combination design is available;
5. Novel structure, synchronous switching, easy to operate, and reliable operation;
6. Easy to use for automatic control and remote control.

Product Range

Design manufacture and inspection: API 6D/ISO 5208
End connection: Flange
Bore size: 1/2"~8" (DN15~DN200)
Pressure rating: Class 150~600 (PN16~PN100)
Material categories: carbon steel, alloy steel, stainless steel, duplex steel and other special materials
Operation mode: handle, gear box, electric, pneumatic, hydraulic





V-notch Ball Valve

Product Overview

Ball valves are mainly used to shutdown, distribute and change the flow direction of media in pipelines. The V-notch ball valve has the best regulating performance among ball valves, and the flow characteristic is equal percentage. There is a shearing effect between its V-notch cut and the metal seat, which is particularly suitable for media containing fibers, tiny solid particles, slurry, etc.

Product Range

Bore size: 1/2"~24"(DN15~DN600)

Pressure rating: Class150~2500 (PN16~PN420)

Temperature range: -196°C~590°C

Material categories: carbon steel, stainless steel, duplex steel, special alloys

Applicable media: coal chemical industry, petroleum refining, papermaking, polysilicon and other industries

Connection form: flange, welding

Operation mode: manual, electric, pneumatic, etc.

Eccentric C-notch Ball Valve

Product Overview

Top-entry metal-sealed C-notch ball valve is a special product developed for harsh working conditions such as high temperature, ultra-low temperature, high pressure, corrosion resistance, and solid particles. It can achieve high wear resistance, high-frequency switching and tight shutoff, and can be widely used in LNG, catalytic cracking, reforming, air separation, ethylene chemical industry, etc. It is especially suitable for media such as catalysts, molecular sieves, powders and slurries.

Product Range

Bore size: 1/2"~24"(DN15~DN600)

Pressure rating: Class150~2500 (PN16~PN420)

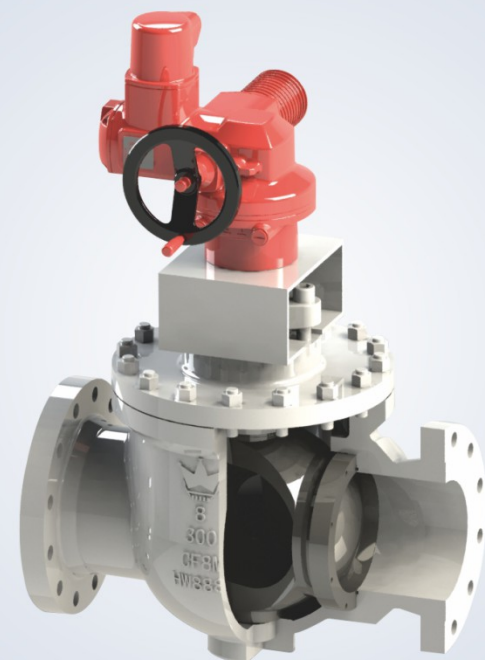
Temperature range: -196°C~590°C

Material categories: carbon steel, stainless steel, duplex steel, special alloys

Applicable media: coal chemical industry, petroleum refining, papermaking, polysilicon and other industries

Connection form: flange, welding

Operation mode: manual, electric, pneumatic, etc.



Automatic Recirculation Valve

Product Overview

Centrifugal pumps require minimum flow protection during startup and at low process flow rates. Automatic recirculation valves are used to prevent various centrifugal pumps from being damaged by overheating, severe noise, instability and cavitation when running below load. As long as the pump flow rate is below a certain value, the bypass return port of the valve will automatically open and circulate through the bypass system. This ensures the minimum flow rate required by the liquid pump. It protects centrifugal pumps working under variable flow conditions in industrial processes.

Features

1. Automatic pump recirculation valve is driven by its own medium, minimum flow protection device of centrifugal pump;
2. Casting steel, Forged steel body;
3. Completely mechanical structure, relying on its own medium to control the valve, energy-saving, and low cost;
4. The main circuit has a check valve function With flow sensor function;
5. The bypass is a multi-stage eddy current decompression structure, which is resistant to cavitation and erosion.

Product Range

End connection: flange, welding

Bore size: 1"~24"

Pressure rating: Class150~4500

Material categories: carbon steel, stainless steel, duplex stainless steel, nickel-based materials, Hastelloy, etc.

Single Flange Double Block And Bleed Valve

Product Overview

The unique combination of single flange double block and bleed valve systems allows for a smooth transition from process piping systems to instrumentation, reducing potential leak points, installation weight and space. Block and bleed valves are designed for process piping isolation points, direct mounting to instrumentation, instrument close coupling, double block and bleed isolation, vents and drains.

Features

1. ASME B16.5 flanged inlet connections;
2. Standard 1/2" NPT female outlet;
3. Bleed port 1/2" NPT female with Hex Plug is standard;
4. OS&Y with graphite packing is standard, optional PTFE;
5. Needle valve with PTFE packing is standard, optional Graphite;
6. Optional fire safe design to BS6755 part 2;
7. Optional NACE certification.

Product Range

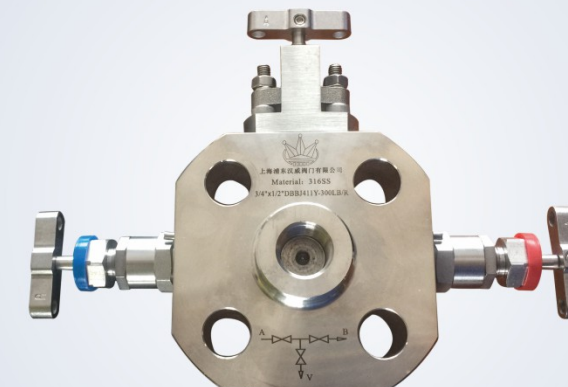
End connection: flange, thread, welding

Bore size: 1/2"~2"

Pressure rating: Class150~4500/6000~10000PSI

Material categories: carbon steel, stainless steel, duplex stainless steel, nickel-based materials, Hastelloy, etc.

Temperature range: -38°C~480°C





Air Release And Vacuum Breaker Valve

Product Overview

Designed to protect pipelines and vertical turbine pump applications from air locks and vacuum collapse, the vent and anti-vacuum valves can remove air and prevent vacuum from forming in the pipeline. During pipeline filling or draining, the large vent orifice plate and large floating gap freely exhaust or accept air.

Typical Applications

1. High point of the transmission pipeline;
2. High points of water treatment plant pipelines;
3. Offshore platforms;
4. Vertical turbine pump discharge.

Product Range

Bore size: 1/2"~10"(DN15~DN250)

Pressure rating: Class 150

Material category: carbon steel, cast iron, stainless steel, copper-nickel alloy

Connection method: thread, flange

Strainer

Product Overview

The strainer is an indispensable device on the pipeline for conveying medium, which can effectively strainer impurities in the pipeline. The production range includes Y-type strainer, basket strainer, T-type strainer, dry gas strainer, etc.

Features

- 1.High straining accuracy, the fineness of the strainer can be configured according to customer needs.
- 2.The working principle is simple and the structure is not complicated. It is easy to install, disassemble and maintain.
- 3.The equipment has few wearing parts, no consumables, low operation and maintenance costs, and simple operation and management.
- 4.Stabilize the production process, protect instruments and mechanical equipment, and maintain the safety and stability of production.
- 5.The core part of the strainer is the strainer core, which is composed of a strainer frame and a stainless steel wire mesh.

Product Range

End connection: flange, welding, thread

Bore size: 1/2"~20"(DN15~DN500)

Pressure rating: Class150~2500 (PN16~PN420)

Material categories: carbon steel, alloy steel, stainless steel, duplex steel, copper-nickel alloy, nickel-based alloy, titanium, etc.

Strainer accuracy: 5-300 (mesh/in)



Service System

Pre-sales Service

Serve as a good advisor and assistant to customers, so that every investment of users can get rich returns.

- (1) Selection of equipment model.
- (2) Design and manufacture products according to customers' special requirements.
- (3) Provide technical training for customers.
- (4) Provide technical consultation on the construction of new, special and difficult projects or formulate appropriate construction plans.

Sales Service

Respect customers; give customers peace of mind, ease and surprise; strive to improve the overall value of customers.

- (1) Delivery during the warranty period.
- (2) Pre-acceptance of products.
- (3) Introduce Hanwei's service system to customers.

After-sales Service

Improve the overall value of customers and let customers have no worries.

- (1) Assist users to formulate the initial construction plan.
- (2) Equipment installation and debugging.
- (3) On-site training of operators.
- (4) Regularly inspect equipment.
- (5) Quick and proactive troubleshooting on site.
- (6) Warranty parts will be delivered to your door.
- (7) Follow-up services for key projects.
- (8) Actively identify potentially dissatisfied users and turn their complaints into resources.
- (9) Provide value-added services.
- (10) Provide opportunities for technical exchanges.
- (11) Carry out major maintenance operations.