



AISENBERG VALVE

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|------------------|-----------------|---------------|
| Ball valve | Butterfly valve | Control valve |
| Knife gate Valve | Sanitary valve | Water valve |
| Actuator | Accessories | |

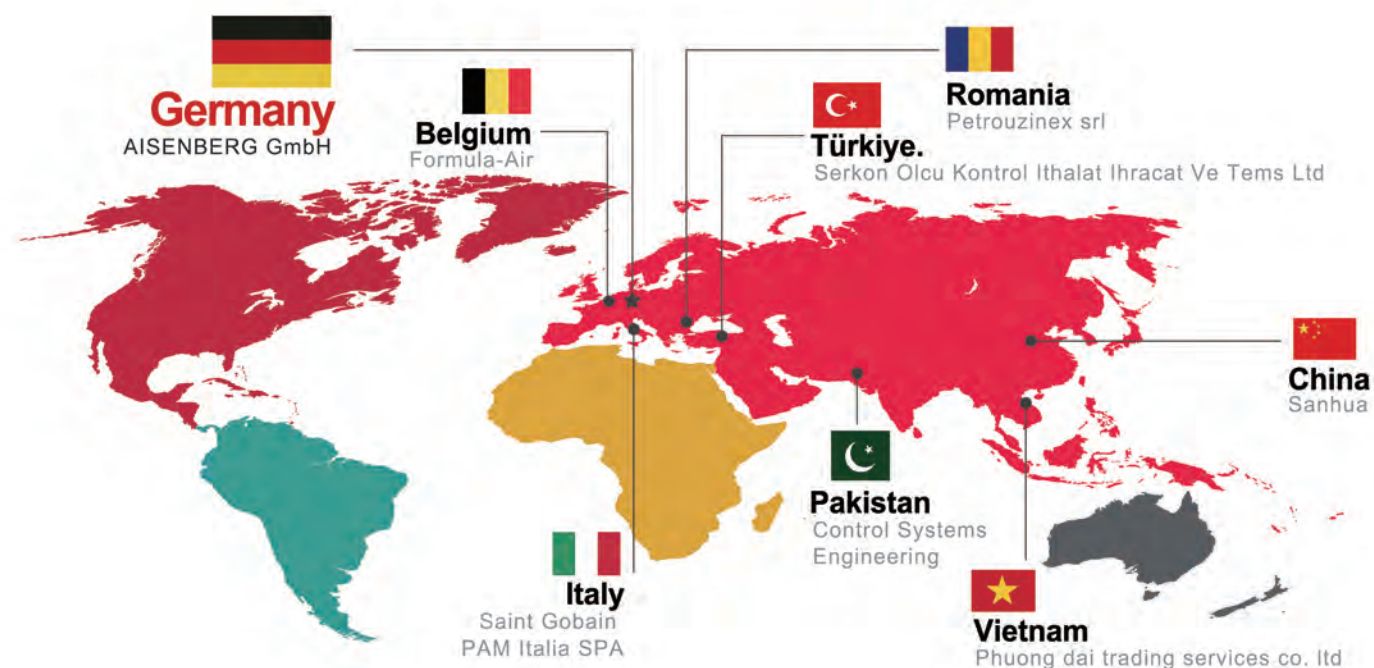




AISENBERG GmbH is mainly engaged in international trade and production in mechanical and electrical products controlled by industrial processes. Aisenberg was founded in 1991 and is headquartered in Cologne, Germany. The business performance of customers is optimized with the most reliable technology and the most convenient trade. Creating a competitive advantage for customers is always the mission of Aisenberg and the core of making Aisenberg the industry leader.

We have been focusing on high-end automatic control valve trade and services. We are professional and enthusiastic just for the ultimate goal. That is, to provide you with cost-effective solutions to fluid control problems and lay a solid foundation for the better development of your company.

AISENBERG grows from a self-controlled valve system integrator to a product and technology provider for industrial automation systems. Fast delivery and convenient service are the foundation of our development.



Aisenberg®

OUR CORE COMPETENCE

25
Global distribution
companies and agencies

115
Product applications cover
countries and regions

36
items
Utility model and
invention patents

150
persons
Service team

3
years
General product warranty

5000
More than
Served customers

WE CAN DO IT

0.01
Min CV0.01

PN800
Maximum pressure

1200 °C
Maximum temperature

80HRC
Unique diamond spray hardness

DN3000
Maximum aperture

1,000,000
Double eccentric butterfly valve
opening and closing times



CATALOG



Aisenberg products cover chemical industry, mineral processing, power station ,desulfurization and denitrification, water treatment, desalination, iron and steel smelting, food and beverage, brewing, pharmaceutical, food processing, petroleum refining, electronic semiconductors, Marine, paper, irrigation, building HVAC, powder transportation and other industrial fields.

Butterfly valve

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B100/B110/B120 Concentric butterfly valve

B100/B110/B120 series Concentric soft seal butterfly valve has the advantages of simple structure, small flow resistance coefficient, no retention of debris, light weight, easy installation, and small driving torque. It can be used to cut off the medium and adjust the flow of the medium.



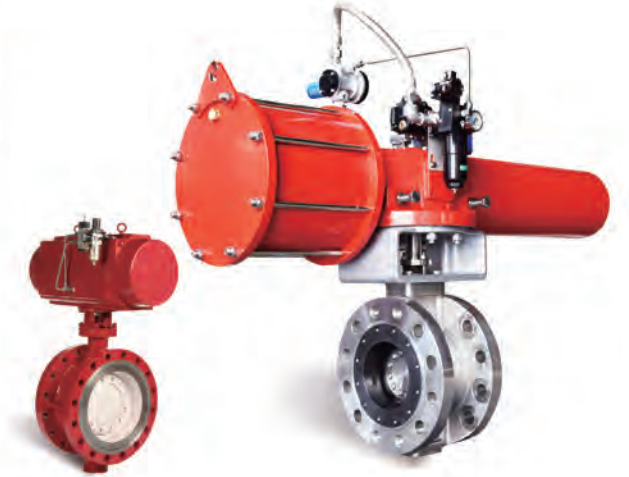
B200/B210/B220 Double eccentric butterfly valve

B200/B210/B220 series high performance double eccentric butterfly valve plate and seal ring with a unique eccentric structure, offset stem, eccentric butterfly plate, valve seat using lip seal to compensate for temperature changes and pressure changes, with compact structure, high flow capacity, reliable and durable sealing, good cutting performance and other characteristics, combining adjustment with cutting off two functions.



B300/B310/B320 Triple eccentric butterfly valve

B300/B310/B320 series Triple eccentric butterfly valve design advanced, no mechanical wear and abrasion, its closing torque is small, good cutting performance, widely used in petroleum, chemical, electric power, metallurgy and other industrial automation control system. The series of triple eccentric butterfly valves have FM/FN series multi-level metal sealed triple eccentric butterfly valves and FU/FV series all-metal hard sealed triple eccentric butterfly valves.



B400/B410/B420 Lined butterfly valve

B400/B410/B420 series lined butterfly valves are soft sealed butterfly valves with concentric sealing structure. The inner cavity and butterfly plate of the valve are lined with corrosion-resistant and age-resistant fluorine plastic FEP or RPTFE or PFA by high pressure injection molding process, which has reliable corrosion resistance and sealing property.



B900/B920 Low load butterfly valve

B900/B920 series low load butterfly valve body, valve plate are welded by steel plate, is a light weight, simple structure, low cost butterfly valve. Suitable for low pressure air or other gas flow, pressure control, but also suitable for high temperature gas.



B100/B110/B120

ISO 5211 platform design for a wide range of operations.



Valve seat adopts tongue-and-groove type design, imported rubber, exclusive formula, wear resistance



Seat materials are available in 5 basic materials and more than 16 specifications.



No pin shaft structure, stable connection, low wear;

Valve stem adopts multiple bearing+seal ring design, high positioning accuracy;



Disc edge spherical processing+mirror polishing, stable torque, long switching life time;

Simple structure, economy and durability;

The disc can be made of a variety of materials and coating structures, suitable for various working conditions;



Wafer concentric butterfly valve



Flange concentric butterfly valve



Specification

Size: DN40~DN2000

Pressure: PN6~25, 150Lb

Body material: GGG40, WCB, CF8, CF8M, CF3M, DP steel, aluminum alloy, etc.

Seal: NBR/EPDM/PTFE

Working temperature: -40~150°C

Working pressure: Max. 25bar

Vacuum pressure: Absolute pressure 1KPa(customized)

LUG type concentric butterfly valve



Application Industry:



Chemical



Mining



Desulfurization and denitrification



Desalination



Water Treatment



Steel smelting



Petroleum refining



Electronic semiconductor



Marine



Paper



Irrigation



HVAC



Power plant



Food and beverage



Brewing



Pharmaceutical



Powder transportation



Solar energy

B200/B210/B220

ISO 5211 platform design for a wide range of operations.

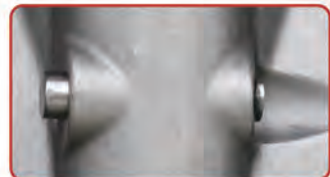


Inserts: prevent valve seat wear and corrosion; There are two kinds of clamping spring fixing and hex bolt fixing;

Stainless steel bushing with PTFE lining above and below valve stem;



The stem and butterfly valve are welded and fixed to prevent choke and eddy current and minimize valve strength;



Offset stem and eccentric plate design;

1,000,000
Valve opening and closing

Valve stem upper circlip :
Blowout prevention design;

Valve stem adopts 17-4PH
precipitation hardening stainless
steel, high strength, corrosion
resistance;



Bidirectional leak-free sealing lip
valve seat design, reliable closing,
can automatically compensate for
wear resistance;



Special structure:

Oxygen special double eccentric butterfly valve:

- (1) No oil degreasing treatment;
- (2) Double packing design;
- (3) Limit external design;

High performance double eccentric butterfly valve:

- (1) The upper and lower parts of the valve stem adopt 316+RPTFE bushing;
- (2) The upper part of the valve stem is designed with a support ring and a detection ring to prevent the side wear of the valve stem and detect leaks;
- (3) The bottom of the valve stem is designed with sliding bearings (to prevent side grinding of the valve stem), thrust bearings (to prevent sinking of the valve plate), and dish-shaped springs (to keep compression deformation).

Lug double eccentric butterfly valve



Technical parameter

Size: Wafer/lug type: DN50~DN600

Flange: DN50~DN1200

Pressure: PN10~40, 150Lb~300Lb

Connection form: Wafer type, lug type

Body material: WCB, CF8, CF8M, DP steel etc.

Seat material: RPTFE, TFM1600, PEEK

Working temperature: -29~250 °C

Vacuum pressure: Absolute pressure 20Pa (customized)

Flange double eccentric butterfly valve



Wafer eccentric butterfly valve



Application Industry:



Chemical industry



Seawater desalination



Mineral processing



Air separation



Oxygen transport



Vacuum conditions



Steam conditions



Steel smelting



HVAC conditions



Brewing



Seawater desalination



Water treatment

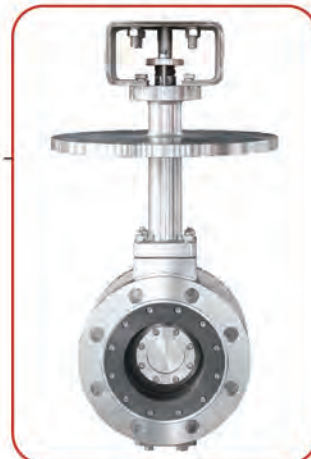
B300/B310/B320



Special structure

Ultra-low temperature three eccentric butterfly valve:

- (1) Low temperature lengthening stem design;
- (2) All parts in contact with the medium are secondary cryogenic treatment;
- (3) The valve cover is designed with a condensing disc.



Pneumatic triple eccentric butterfly valve



Technical parameter

Size: DN80~DN2400

Pressure: PN10~250, 150Lb~1500Lb

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

Body material: WCB, CF8, CF8M, CF3M, DP steel ETC

Seat material : SS+RPTFE, SS+ graphite, all metal + hardening treatment

Electric high temperature triple eccentric butterfly valve



Application Industry:



Chemical



Power station



Seawater desalination



Air separation



LNG



Steam condition



Steel smelting



Heat supply network



Electronic semiconductor



Irrigation



Powder transportation



Solar energy

B400/B410/B420

ISO 5211 platform design is for a wide range of operations.

The inner cavity of the valve body and the butterfly plate are lined with 2.5 ~ 3mm thick RPTFE or PFA, which can resist acid, alkali and strong corrosion;

The upper and lower design of the valve stem has self-lubricating sleeve and blowout prevention design;

The three-stage sealing design of the valve stem and the elastic compensation design of the disc spring make up for the influence of temperature change on the sealing

The valve stem and the butterfly plate are cast as a set, and the lining layer of the butterfly plate is extended to the valve stem;

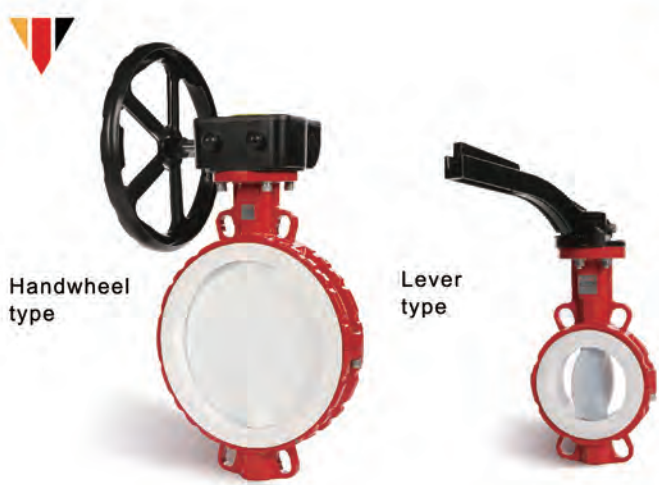
Two-piece valve body structure, precision casting, durable, small starting torque;

All-in-one PTFE seat, back rubber provides uniform elasticity to the seat, tightly fitting to the edge of the disc when the valve is closed

The disc is designed as a hollow hole, and the inner layer is fitted tightly with the metal surface, which is suitable for vacuum conditions;



Manual liner butterfly valve



Pneumatic liner butterfly valve



Technical parameter

Size:DN50~DN1200

Pressure:PN10~16, 150Lb

Connection type: Wafer type, lug type, flange type

Body material:WCB、CF8、CF8M、CF3M、DP steel etc.

Seat material:FEP、RPTFE、PFA

Electric liner butterfly valve



Application Industry:

 Chemical	 Petroleum refining	 Pharmaceutical	 Food and beverage	 Textile	 Shipbuilding	 Hydropower
 Building engineering	 Metallurgy	 Energy	 Urban water supply and drainage	 paper	 sugar	 irrigation

B900/B920

Support shaft structure, the upper platform conforms to ISO 5211 standard, suitable for installation of pneumatic, electric actuators;

Economical low pressure regulation, welded valve body, valve plate using sheet steel, simple structure, especially the regulation of large flow, low pressure air or gas.

Suitable for high temperature condition, suitable for 650℃ or even higher temperature of smoke conditions.

Sealing form, the sealing structure is open (no ring), backseat type (with ring);



External bearing structure design (high temperature type).

Valve stem design DN≥200, valve stem adopts whole axis structure, effectively ensure the coaxiality of large diameter valve;

Stem flush-proof design.

The valve stem and the disc adopt pin + welding structure to ensure that there is no falling off under high-frequency operation;



Sealing performance:
Metal seal standard leakage ≤3%*Cv, customized leakage ≤1%*Cv, soft seal standard leakage ≤0.3%*Cv.



Standard type



High temperature extended type



High temperature heat sink type

Electric three-way reversing low load butterfly valve



Size: DN50 ~ DN2400
Pressure: PN1 ~ 16, 150Lb
Connection type: flange type
Body material: carbon steel, stainless steel
Seal type: no seal, metal seal, soft seal

low load butterfly valve



Technical parameter

Size: DN50 ~ DN2400
Pressure: PN1 ~ 16, 150Lb
Connection type: Wafer type, flange type
Body material: Carbon steel, stainless steel
Seal type: no seal, metal seal, soft seal
Working temperature: -29℃ ~ 800℃

Application Industry:



Chemical



Power plant



Steel smelting



Building engineering



Environmental protection



Marine



electronic semiconductor



Food and beverage



brewing



pharmaceutical



heating pipe network



Biological laboratory

A591/A200 Floating Ball valve

A591/A200 series floating ball valve is a floating ball structure, with large flow capacity, compact structure, good sealing performance, long life and other characteristics, economic, practical, easy to maintain. In addition to controlling gas, liquid and steam media, it is also suitable for controlling sewage and media containing fiber. According to customer needs to choose fire protection type, special hardening treatment type, ultra-low temperature type. A591 is a forged body, A200 is a cast body. The series of ball core has "O" type and "V" type, "O" type ball core is suitable for switch type, as cutting off effect; The "V" type ball core is used for regulating the type, as regulating the flow effect. The "V" type ball core is divided into 15°, 30°, 45°, 60°, 90° etc, according to the different notch angle, which can satisfy the regulation requirements of different working conditions.



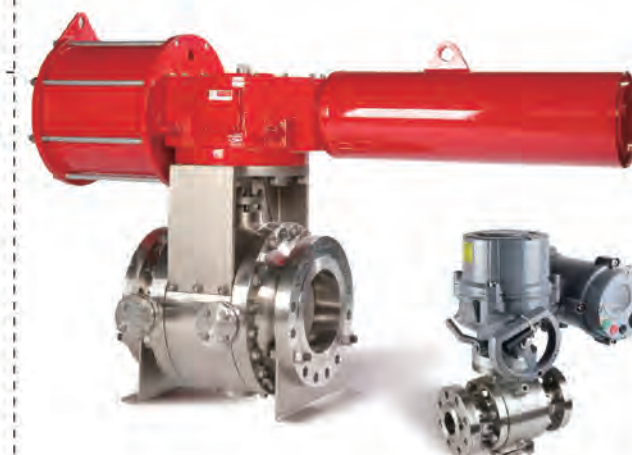
A100 3-PCS Ball valve

A100 series three-piece ball valve is a three-piece valve body floating ball valve structure, full diameter type, with large flow capacity, compact structure, good sealing performance, long life and other characteristics, economic and practical, easy to maintain.



A580/A590 Trunnion Ball valve

A580/A590 series fixed ball valve, the ball is fixed, its floating seat under the pressure of the medium, the seat sealing ring is tightly pressed on the ball to ensure sealing, used to cut off or adjust the medium in the pipeline. The fixed ball valve has small torque, small deformation of the seat, stable sealing performance, long service life, and is suitable for high pressure and large diameter occasions.



A214 V-port Segment Ball valve

A214 series V-port Segment Ball valve is a fixed hemisphere structure, with optimized flow characteristics, can provide a larger valve flow capacity, it is mainly used as a regulating valve, can also be used as a switch valve, the valve core of the ball valve has a V-shaped gap, when the valve is closed, V-shaped gap and the seat produce wedge shear effect. It has the function of self-cleaning and can prevent the phenomenon of sticking between the ball core and the seat due to dirt, especially suitable for controlling the slurry, sewage, medium containing fiber and small solid particles.



A220/A221 3-way Ball valve

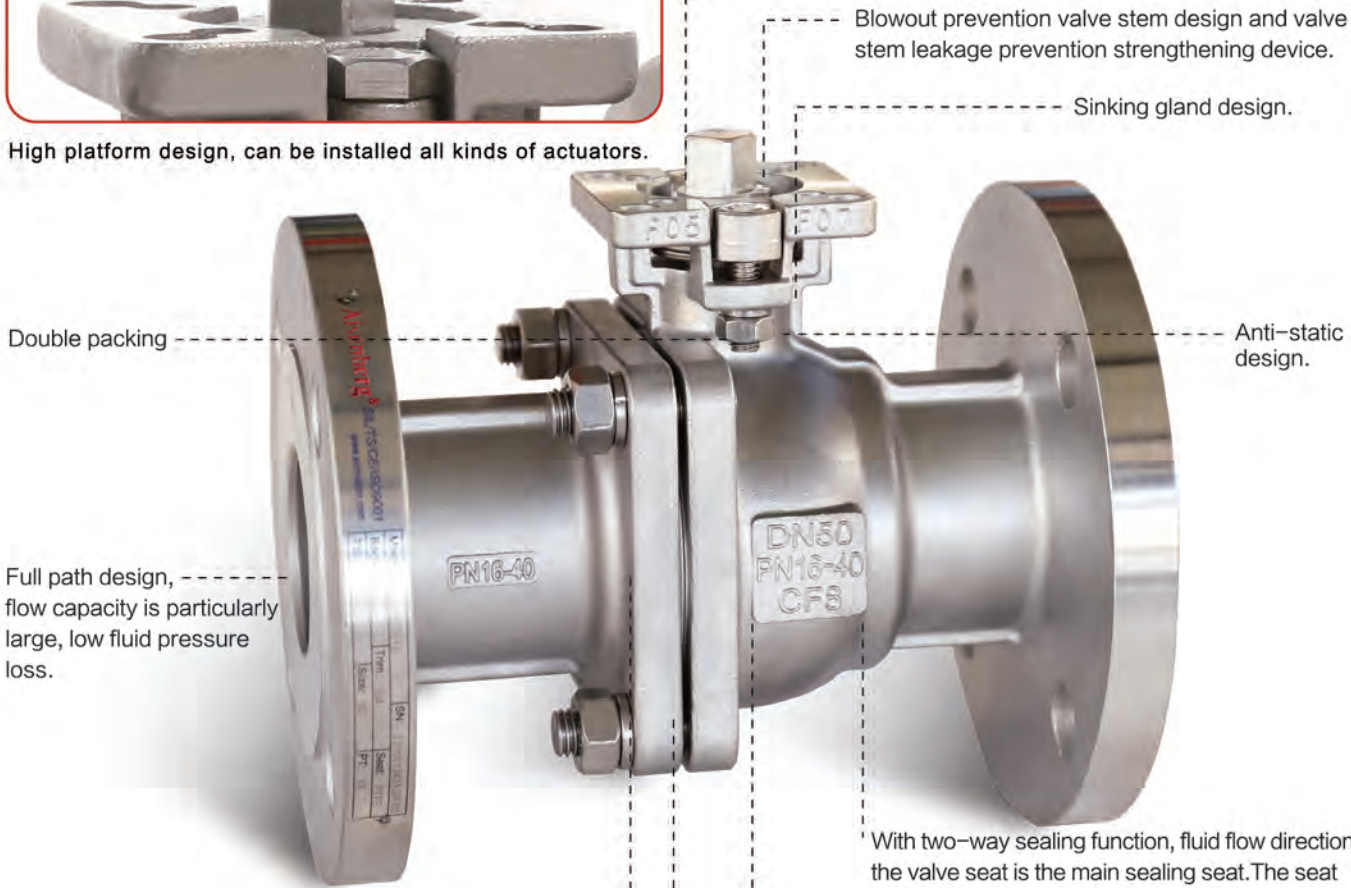
A200/A221 series 3-way ball valve is suitable for the design and development of pipeline flow direction conversion or cycle work, to achieve rapid opening and closing and switching flow direction. According to different requirements, we can provide L-shaped sphere and T-shaped sphere.



A591/A200



High platform design, can be installed all kinds of actuators.



Double packing

Full path design, flow capacity is particularly large, low fluid pressure loss.

fire safety design according with API607

Blowout prevention valve stem design and valve stem leakage prevention strengthening device.

Sinking gland design.

Anti-static design.

With two-way sealing function, fluid flow direction, the valve seat is the main sealing seat. The seat seal is available in a variety of seal forms.

Ball valve core, valve stem only for rotating movement, and the switch rotates the valve core and the valve seat is always in close contact, shearing ability is strong.

Casting valve body for silica sol casting process, good surface quality, compact structure, beautiful appearance.



Pneumatic 2PC flanged ball valve



Electric lined 2PC flanged ball valve



Product parameters

Type: straight O ball, straight V ball

Size: DN15~DN250

Pressure: PN10~420, 150Lb~2500Lb

Connection type: flange type

Body material:

Casting: WCB, WCC, WC6, WC9, C5, LCB, LC2, LC3, CF8, CF8M, CF3M, etc

Forging: A105, F304, F316, F316L, Duplex stainless steel, etc

Seat material: PTFE, TFM1600, TFM4215, RPTFE, PPL, PEEK, etc

Flow characteristics: "O" ball core: quick opening flow characteristics, "V" ball core: approximate equal percentage characteristics

Leakage Class: ASME B16.104 Class IV (Metal seat)

ASME B16.104 Class VI (Soft Seal)

Operating temperature: -196℃~250℃ (Soft seal)

-196℃~600℃ (Metal seat)

Vacuum pressure: Absolute pressure 100Pa

Application Industry



chemical



Petroleum



Natural gas



Water treatment



Food



Biopharmaceutical



Iron and steel metallurgy



Environmental protection



Power plant



Irrigate



Electronic semiconductor



Solar energy

A100

High platform design, can be installed all kinds of actuators.



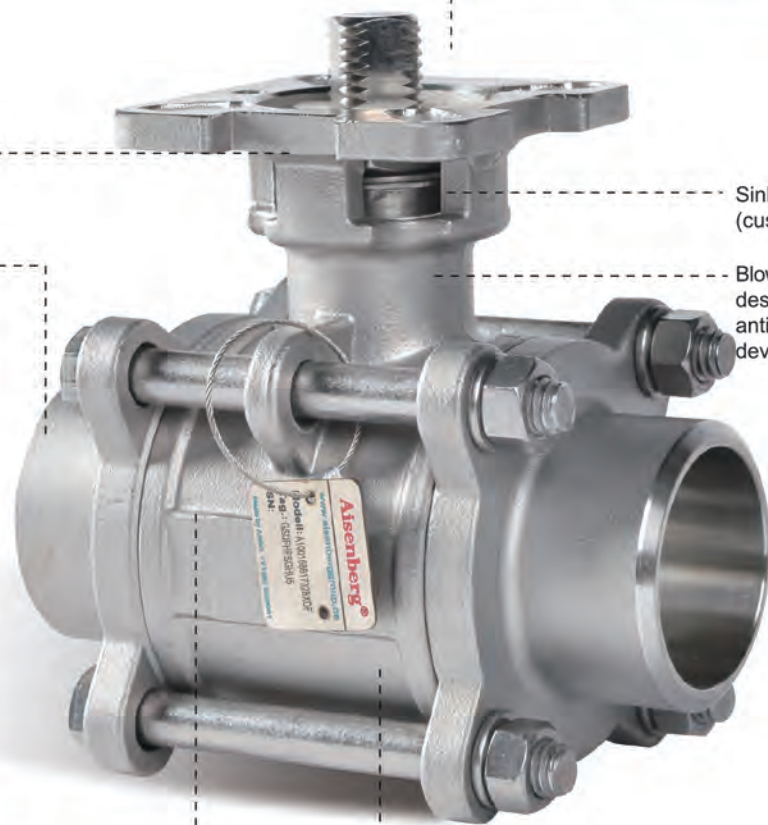
Anti-static design.

Full path design, large flow capacity, low fluid pressure loss.



Sinking gland design (customized).

Blowout prevention valve stem design and valve stem anti-leakage strengthening device.



Two-way sealing function, fluid flow direction, the valve seat is the main sealing seat.

The valve body of the casting is silica sol casting process, which has good surface quality, compact structure and beautiful appearance.

V-shaped ball core



Pneumatic three-piece ball valve



Threaded joint



Welded joint

Electric three-piece ball valve



Technical parameter

Type: straight O ball, V ball

Size: DN15 ~ DN100

Pressure: 1000WOG, 2000WOG

Connection type: internal thread, socket welding, butt welding

Body material:

Casting: WCB, CF8, CF8M, CF3M, etc

Forgings: A105, F304, F316, F316L, Duplex stainless steel, etc

Valve seat material: PTFE, TFM1600, RPTFE, PEEK, etc

Flow characteristics: "O" ball core: fast opening characteristics,

"V" ball core: approximate equal percentage characteristics

Leakage Class: ASME B16.104 Class VI (Soft seal)

Filling material: PTFE V-shaped packing, PPL, flexible graphite, etc.

Application Industry



chemical



Petroleum



Natural gas



Water treatment



Food



Biopharmaceutical



Iron and steel metallurgy



Environmental protection



Power plant



Irrigate



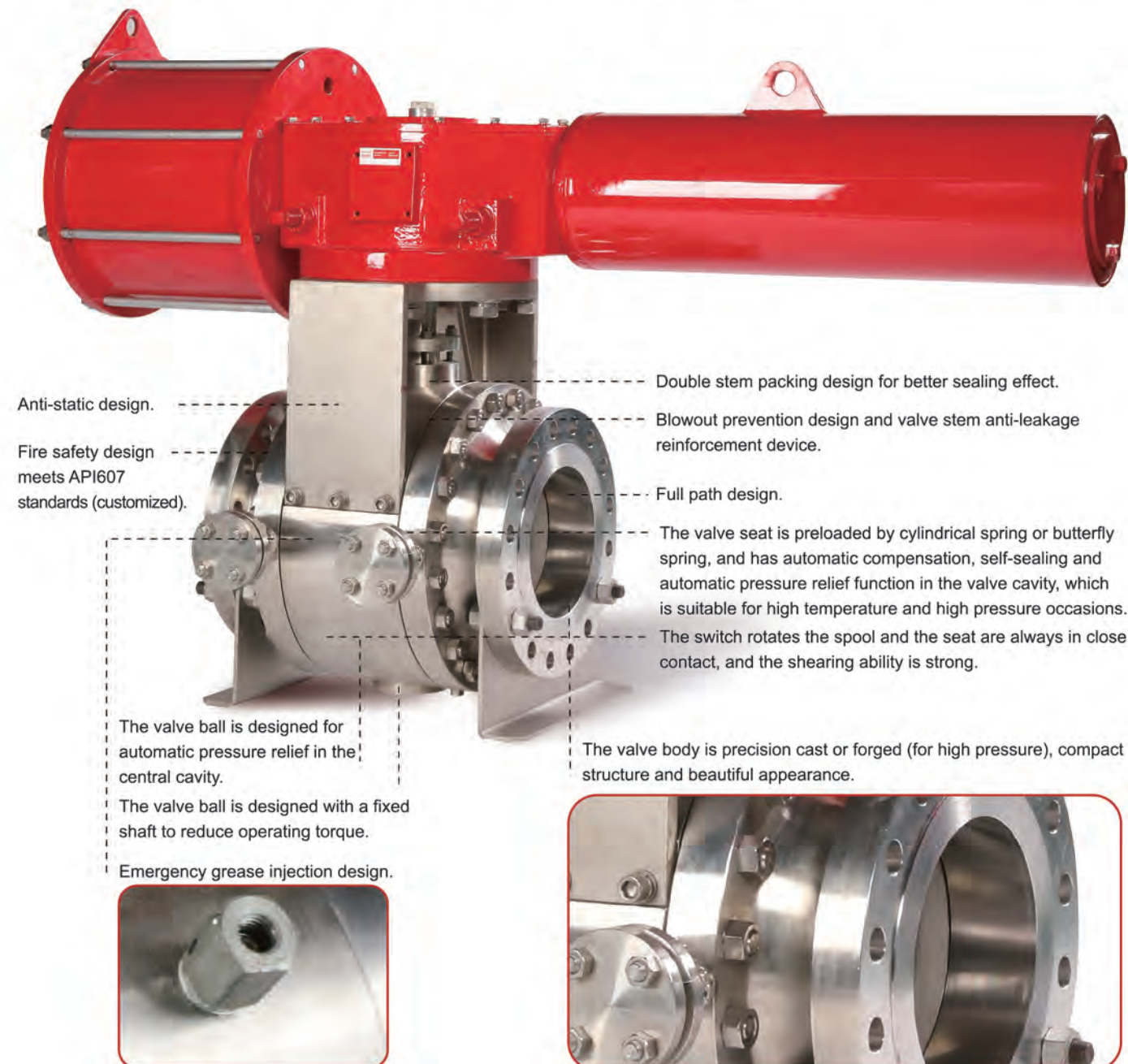
Electronic semiconductor



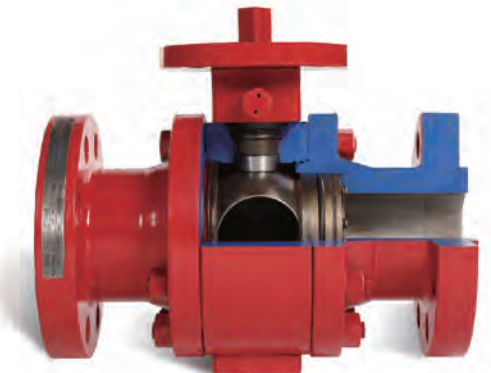
Solar energy

A580/A590

Aisenberg valve seat sealing according to the requirements of the use of PTFE, RPTFE, PPL, NYLON, PEEK and metal hard seal materials, metal sealing surface hardening treatment: Hard chrome plating, spray STL, spray Ni60 (Ni55/Ni65/Ni88), spray WC, etc. A variety of sealing structures can be selected to ensure service life and reliability. The sealing structure can be selected as upstream seat sealing (recommended), downstream seat sealing, or two-way simultaneous sealing (used in specific conditions).



Electric Trunnion ball valve



High platform design can be equipped with various actuators

Technical parameter

Type: Straight O ball

Size: DN50 ~ DN600

Pressure: PN16 ~ 420,150 Lb ~ 2500Lb

Connection type: flange type, butt welding type

Body material:

Casting: WCB, WCC, WC6, WC9, C5, LCB, LC2, LC3,

CF8, CF8M, CF3M, etc

Forging: A105, F304, F316, F316L, DP steel, etc

Flow characteristics: fast opening characteristics

Leakage Class: ASME B16.104 Class IV (Metal seat)

ASME B16.104 Class VI (Soft Seat)

ASME B16.104 Class V (Metal seat, customized)

Filling material: PTFE V-shaped packing, PPL, flexible graphite, etc

Application Industry



Chemical



Petroleum



Natural gas



Water treatment



Food



Biopharmaceutical



Iron and steel metallurgy



Environmental protection



Power plant



Irrigate



Electronic semiconductor



Solar energy

A 214

The outer circle of the valve stem adopts fine grinding technology, and the friction coefficient between the filler and the valve stem is small. The valve stem and the spool are splined, which has good alignment and large bearing torque. The spline connection effectively eliminates the coordination gap between the valve stem and the spool, and improves the valve adjustment accuracy.

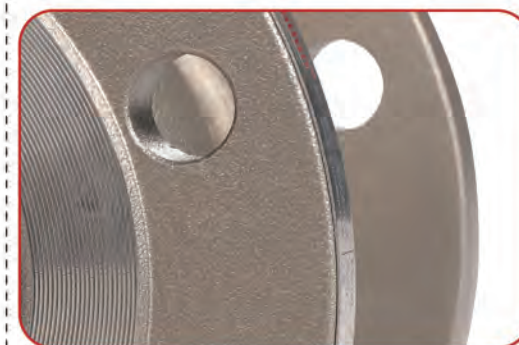
The sealing of the valve seat is made of PTFE, RPTFE and metal hard seal according to the use requirements. The hardening treatment of the sealing surface of the metal seal is: hard chrome plating, STL spraying, WC spraying, etc.

The upper and lower valve stem is fixed with self-lubricating bearings, which has high rotation accuracy and good rotation stability, making the valve run more smoothly.

The valve core is designed with a special shape of V-shaped notch, so that the valve has an approximately equal percentage of flow characteristics, there is a shear between the spherical surface with a notch and the seat, which can cut off and scrape the fluid containing fiber media, high viscosity media, and solid particles, so that it can pass through the valve unimpeded.

Side-mounted seal cover design makes valve maintenance more convenient.

Blowout prevention valve stem design and valve stem anti-leakage strengthening device.



The valve body adopts one-piece valve body design with strong structural rigidity and is not easy to cause deformation and leakage.

Pneumatic trunnion V-port segment ball valve



Trunnion V-port segment ball valve



Technical parameter

Type: Trunnion V-port segment ball valve

Size: DN25 ~ DN300

Pressure: PN10 ~ 100, 150 Lb ~ 600 Lb

Connection type: flange type

Body material: WCB, WCC, WC6, WC9, C5, LCB, LC2, LC3, CF8, CF8M, CF3M, etc

Flow characteristics: approximate equal percentage

Leakage Class:

ASME B16.104 Class IV (Metal seat)

ASME B16.104 Class VI (Soft Seat)

Filling material: PTFE V-shaped packing, PPL, flexible graphite, etc

Application Industry



Chemical



Petroleum



Natural gas



Water treatment



Food



Biopharmaceutical



Iron and steel metallurgy



Environmental protection



Power plant



Irrigate



Electronic semiconductor



Solar energy

A220/A221



Valve seat seal according to the requirements of the use of PTFE, RPTFE, TFM and metal hard seal materials.

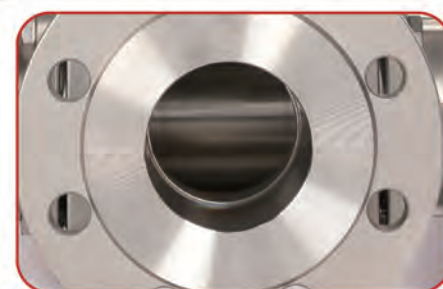
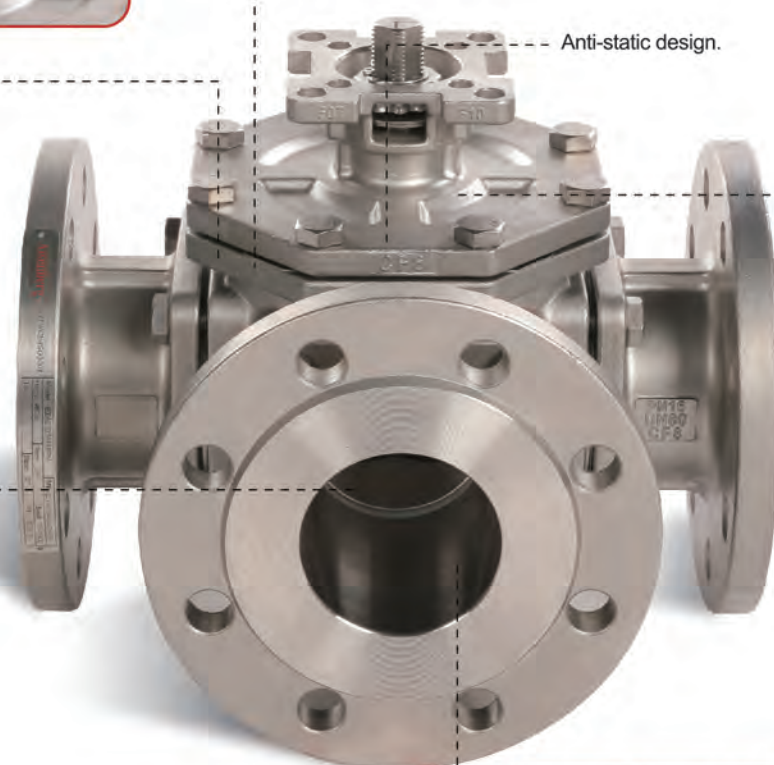


The valve body of the casting is silica sol casting process, which has good surface quality, compact structure and beautiful appearance.

Anti-static design.

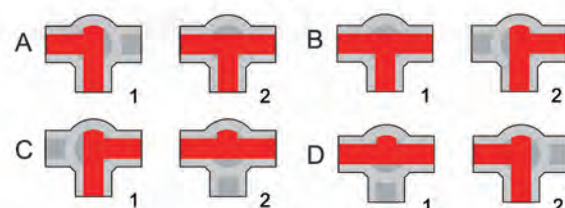
Blowout prevention valve stem design and valve stem leakage prevention strengthening device.

Ball valve core flow path is optional, L type, T type etc.

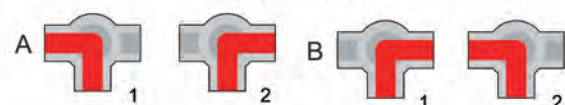


Full path design, especially large flow capacity, low fluid pressure loss.

T-shaped ball core



L-shaped ball core



Pneumatic 3-way flange ball valve



Electric 3-way flange ball valve



Technical parameter

Type: 3-way T, 3-way L

Size: DN15 ~ DN250

Pressure: PN10 ~ 40, 150 Lb ~ 300 Lb

Connection type: flange type

Body material:

Casting: WCB, WCC, WC6, WC9, C5, LCB, LC2, LC3, CF8, CF8M, CF3M, etc

Seat material: PTFE, TFM1600, TFM4215, RPTFE, PPL, PEEK, etc

Leakage Class: ASME B16.104 Class VI (Soft seal)

Operating temperature: -196°C ~ 250°C (soft seal)

Vacuum pressure: Absolute pressure 100 Pa (customized)

Application Industry



Chemical



Natural gas



Power plant



Food and beverage



Steel smelting



Environmental protection



Oil refining



Water treatment



Pharmaceutical



Electronic semiconductor



Heating pipe network



Biological laboratory

Product Overview:

ASL series control valve is a kind of globe valve, is the most commonly used in process control, the most reliable product, variety, structure, suitable for all kinds of different working conditions. Aisenberg ASL series control valve adopts modular design, different structural forms have interchangeability, greatly reducing the maintenance cost of the customer's site later. At present, there are two main types of T series control valves: ASL212 series unbalanced single-seat control valves and ASL416 series balanced sleeve single-seat control valves.

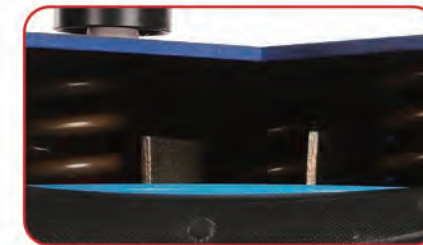
ASL212 series unbalanced single-seat control valve adopts top-oriented unbalanced structure, high strength, heavy load, S streamline channel, small pressure drop loss, large flow coefficient, wide adjustable range, high accuracy of flow characteristics. The valve cage is used to compress tightly the seat design, reduce side load and valve core vibration, reduce friction, and extend the life time of the control valve. Flow open design, the medium flow direction tends to the open direction of the control valve, small flow state is controllable.

ASL416 series balanced sleeve single-seat control valve adopts sleeve guide structure and pressure balanced valve core, which is designed for heavy load condition. The balance sealing ring is used to replace the upper seat and make the double seat become one seat. It is applied to the occasions with high leakage requirements. The valve body is compact, the fluid channel is streamlined, the structure is provided with a guide wing to improve the smooth flow of fluid around the sleeve, the valve core uses the pressure balance structure, been suitable for large pressure difference, and the balanced valve core ensures the minimum thrust of the required actuator, saving costs, and is widely used in the fluid control of the pipeline requiring good dynamic stability, low temperature and low pressure. According to the different structure of the sleeve, the ASL212 series extends the porous low noise control valve, the labyrinth multi-stage pressure reducing control valve, and the combined sleeve multi-stage pressure reducing control valve.



ASL212/ASL416

Using multi-spring pneumatic actuator, the spring range can be adjusted without adding other parts. The positive actuator can implement the gas-closed operation, and the reverse actuator can implement the gas-open operation.



High performance PTFE packing or flexible graphite packing, coupled with dynamic compensation butterfly spring or self-sealing design, greatly reduces the risk of leakage of valve packing box, complying with ISO 15848-1 low leakage specification.

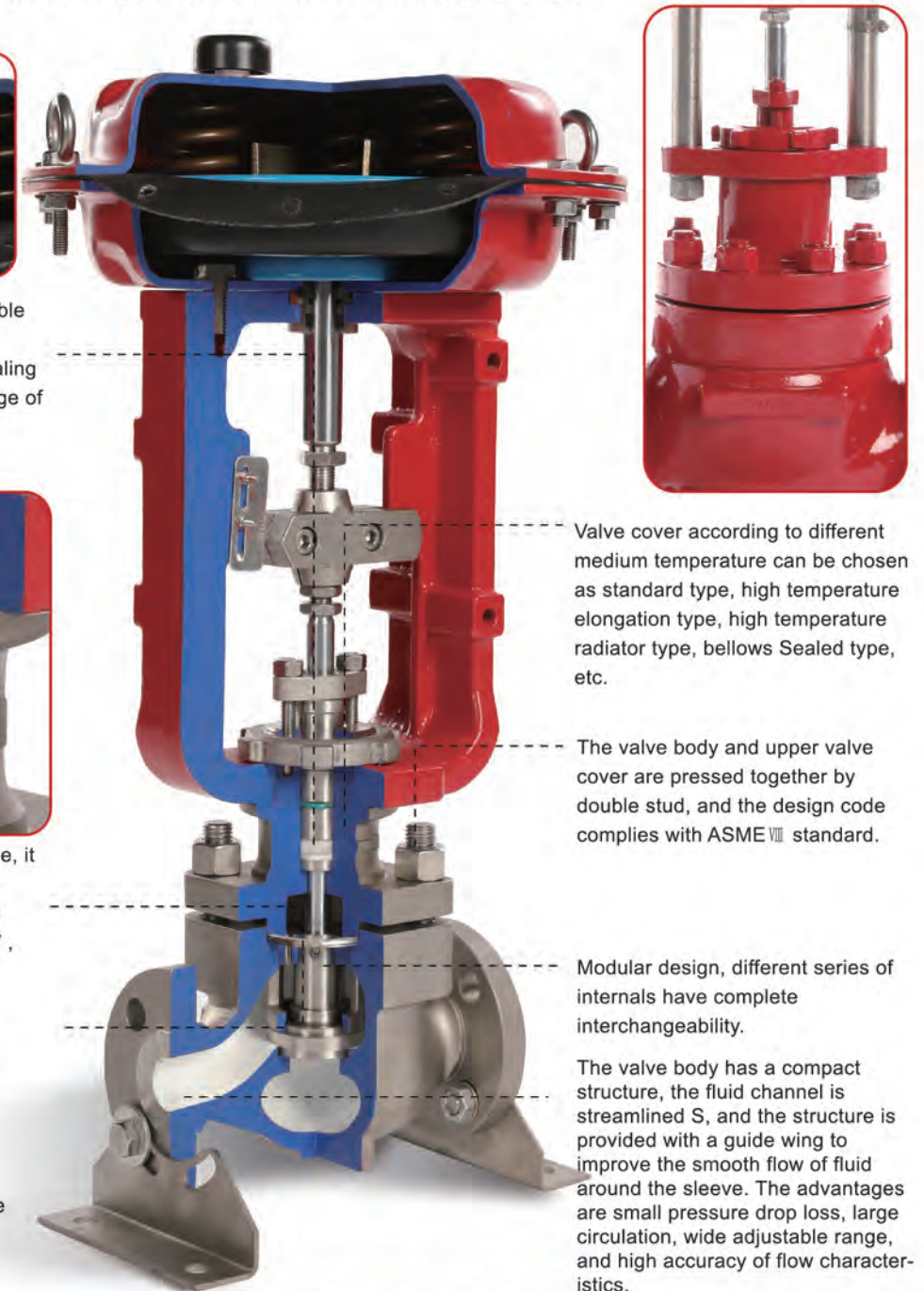


In the whole flow and characteristic range, it has high adjustment performance, good sealing performance, hard seal standard leakage level of IV, can be customized V, soft seal standard leakage level of VI.

Valve core standard adjustable ratio is 50:1, can be customized processing as 100:1.

A variety of valve core structures are optional, the product can be applied to different working conditions.

The balanced sleeve valve core uses the pressure balance structure, and can control the high pressure difference condition through the small actuator thrust, which is widely used in the fluid control of the pipeline requiring good dynamic stability, low temperature and low pressure.



Valve cover according to different medium temperature can be chosen as standard type, high temperature elongation type, high temperature radiator type, bellows Sealed type, etc.

The valve body and upper valve cover are pressed together by double stud, and the design code complies with ASME VIII standard.

Modular design, different series of internals have complete interchangeability.

The valve body has a compact structure, the fluid channel is streamlined S, and the structure is provided with a guide wing to improve the smooth flow of fluid around the sleeve. The advantages are small pressure drop loss, large circulation, wide adjustable range, and high accuracy of flow characteristics.



Balanced single-seat control valve



Technical parameter

Type: straight single seat, Angle single seat

Size: DN15 ~ DN50 unbalanced single-seat control valve

DN50 ~ DN400 balanced single-seat control valve

Pressure: PN10 ~ 250, 150 Lb ~ 1500 Lb

Connection form: flange type, butt welded BW

Body material: WCB, WCC, WC6, WC9, C5, LCB, LC2, LC3, CF8,

CF8M, CF3M, etc

Flow characteristics: equal percentage, linear, fast opening

Adjustable ratio: 50:1 (can be customized 100:1)

Leakage Class: ASME B16.104 Class IV (Metal seat)

ASME B16.104 Class VI (Soft Seat)

Valve cover form:

Standard type: -30 ~ +230°C

Radiation fin type: +230 ~ 600°C

Elongation type: -196 ~ 100°C

Corrugated pipe type: -196 ~ 600°C

Filling material: PTFE V-shaped packing, PPL, flexible graphite, etc

Unbalanced single-seat control valve



Apply



Power plant



Iron and steel metallurgy



Water treatment



Food and beverage



Natural gas



Desulfurization
factory



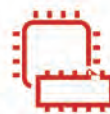
Chemical



Pharmaceutical



Petroleum refining



Electronic semiconductor



Solar energy



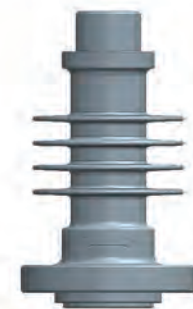
Environmental
protection

Aisenberg control valve valve cover form



Standard type

The standard valve cover is the valve cover at room temperature, and the material of the valve cover is exactly the same as that of the valve body.
Operating temperature: -30°C ~ +230°C



High temperature type

High temperature radiation fin type valve cover is suitable for high temperature medium (steam).
Operating temperature: 230°C ~ +600°C



Bellows type

Isolate the medium from the outside condition, and ensure that the valve stem moves up and down to ensure that the medium does not leak out.
Operating temperature: -196°C ~ +600°C



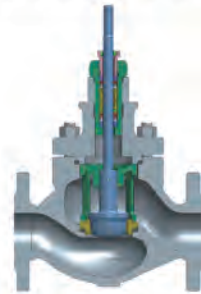
Low temperature elongation type

The low-temperature extended valve cover is suitable for low-temperature media (such as liquid oxygen and liquid nitrogen).
Operating temperature: -196°C ~ +100°C

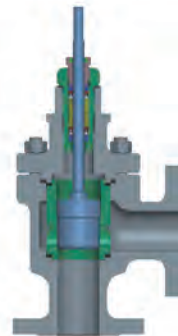
Aisenberg Control valve body



Straight valve body

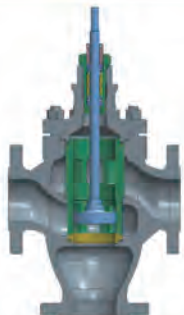


Straight valve body is a streamlined S-channel, the inner wall is smooth and the section is equal. It has the characteristics of small pressure loss, large flow, smooth flow, etc.



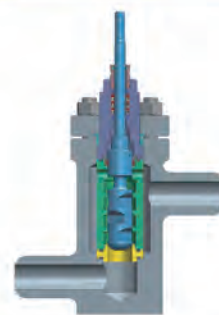
Angle valve body

The Angle valve body is completely universal with the through valve body except for its rectangular shape. Especially suitable for easy coking, easy plugging, high viscosity and other working conditions.



3-way control valve

It is divided into two types of confluence and shunt, mainly used for proportional regulation or bypass regulation, occupying small space and low cost.



Z-valve body

Z-shaped valve body is mainly suitable for high pressure conditions, the internal flow path is simple, not easy to produce whirlpool, reflux and other phenomenon. Reduce the possibility of flash and cavitation in high pressure differential conditions.

Aisenberg control valve trim type

The diversified valve core structure and material of Aisenberg control valve are available on demand.



Equal percentage valve core



Low flow valve core



Linear valve core



Quick opening valve core



Unbalanced internal component combination



Balanced internal assembly



Low noise internals



Labyrinth internals

ASL212

ASL212 series lined control valve in contact with the medium parts are made of high pressure film pressing and injection molding process, lined with corrosion resistant, aging resistant polyperfluoroethylene (F46) or melttable polytetrafluoroethylene (PFA). The packing part is sealed by polytetrafluoroethylene bellows and packing. Therefore, it has strong corrosion resistance. The valve as a whole set has the advantages of good corrosion resistance, long service life, high adjustment accuracy, safety, reliability and easy maintenance. Widely used in chemical, petroleum, metallurgy, medicine, electric power and other industries for acid, alkali and other strong corrosive media and toxic, volatile and other gases, liquid media process control.

Technical parameter

Type: Straight single seat

Size: DN15 ~ DN200

Pressure: PN16, 150Lb

Connection type: flange type

Body material: WCB, CF8, CF8M, CF3M, etc

Flow characteristics: Equal percentage

Leakage Class: ASME B16.104 Class VI (Soft seal)

Filling material: PTFE V-shaped packing, PPL, flexible graphite, etc

Application

Petroleum, chemical industry, power station, iron and steel metallurgy, biopharmaceutical, water treatment, environmental protection, etc.

Structure specification

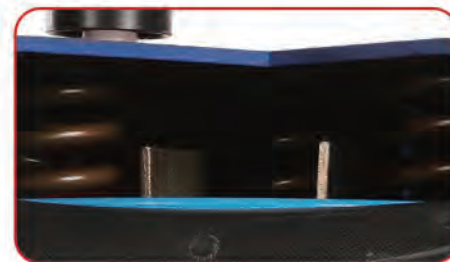
The valve stem seal performance is good, and the valve stem seal adopts PTFE bellows and V-type PTFE packing double sealing structure to ensure no leakage.



The inner cavity of the valve body and the inner parts are lined with F46 or PFA 2.5 ~ 3mm thick, which can resist acid, alkali and strong corrosion.



Using multi-spring pneumatic actuator, the spring range can be adjusted without adding other parts. The positive actuator can realize the gas-closed operation, and the reaction actuator can realize the gas-open operation.



The upper and lower straight design is adopted, the valve seat is designed with hollow hole, the inner wall of the valve body is designed with thread + dovetail groove, and the sealing surface of the flange is also designed with dovetail groove, to ensure that the inner layer is closely fitted with the valve body, which is suitable for vacuum conditions.



The valve body is precision casting, simple structure, easy installation and maintenance. The fluid channel is S-streamlined, with small pressure drop loss, large circulation, wide adjustable range and high accuracy of flow characteristics.

The standard valve core adjustable ratio is 50:1.

ASL218/ASL418

ASL218/ASL418 series labyrinth multi-stage pressure relief control valve adopts labyrinth valve cage design, which is composed of multiple cylindrical discs (layers) with labyrinth curved diameter distributed on the coaxial surface. According to the different process parameters of the medium, a plurality of different labyrinth curved diameter specifications and composite layer array are designed to form the valve cage. The valve cage divides the total flow path into many small and circuitous or even stepped distribution throttling flow paths. Force the fluid to constantly change the flow direction and flow area and gradually reduce the fluid pressure to prevent the occurrence of flash cavitation and extend the service life of the valve internals. The internal structure is suitable for all kinds of process fluids which are easy to produce blocked flow and cause cavitation.

Technical parameter

Type: straight single seat, Angle single seat

Size: DN40 ~ DN300

Pressure: PN63 ~ 420,300 Lb ~ 2500Lb

Connection form: flange type, butt welded BW

Body material: WCB/A105, WC9/F22, CF8/F304, CF8M/F316, etc

Flow characteristics: linear

Leakage Class: ASME B16.104 Class IV (Metal seat)

Filling material: flexible graphite, etc

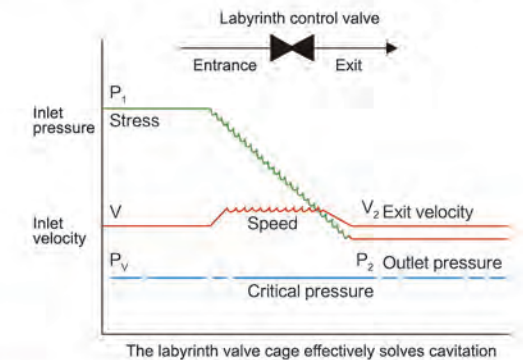
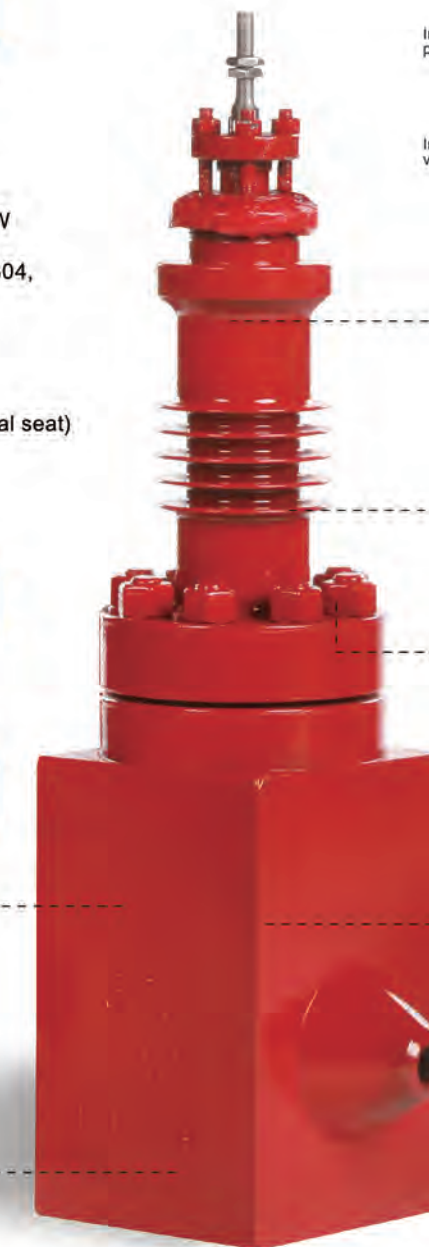
Application

Coal chemical industry, natural gas, power station, iron and steel metallurgy, etc.

Structure specification

The casting valve body is compact, and the fluid channel is S streamline; High pressure adopts the whole forging structure, high strength of the valve body, large circulation, wide adjustable range, high accuracy of flow characteristics.

Multi-stage pressure reduction design, up to 14 step-down stages.



High performance flexible graphite packing, dynamically compensating spring or self-sealing design, reduces the possibility of valve packing box leakage, according to ISO 15848-1 low dissipation specification.

Valve cover according to different medium temperature can choose standard type, high temperature elongation type, high temperature heating radiator type

The valve body and upper valve cover are pressed together by double stud, and the design code complies with ASME VIII standard.

Compared with the mixed channel design, the chip with independent channel design can obtain more accurate regulation performance.

