

CATALOGUE



Originated in Germany
源自德国

我们一直专注于高端控制阀门研发和服务。我们专业、热情，只为了最终目标——为您提供高性价比流体控制问题的解决方案，为您公司更好发展奠定坚实的基础。

We have been focused on high-end control valves development and services. We are professional, enthusiastic, providing cost-effective solutions fluid control problem for you only for the ultimate goal, to lay a solid foundation for the better development of your company.



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AISENBERG GmbH

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公司简介

Company profile

德国埃森博格位于德国科隆，主要从事苛刻工况阀门的生产和贸易，40年来，凭借优质的产品和服务，我们的业务范围不断扩大，围绕着高端阀门气控装置技术，德国埃森博格发展为流体控制行业的佼佼者。

The german AISENBERG in cologne, is mainly engaged in rigorous condition of the valve production and trade, in 40 years, with high quality products and good service, our business scope is expanding constantly, around the high-end valve pneumatic control device technology, the German leader Aisenberg development for fluid control industry.

您的满意，我们的荣耀！
Your satisfaction, our glory!

公司简介 Company profile



随着市场份额增加，为了更好的服务客户，2015年我们将在上海和天津成立独资的子公司，在成都、济南、南京、深圳、沈阳等地设有销售服务中心，目前埃森博格在大中华地区设有四个销售公司和两个OEM授权生产工厂。

With the increase in market share, in order to better serve customers, in 2015 we will set up wholly-owned subsidiaries in shanghai and tianjin, with sales and service center in chengdu, ji'nan, nanjing, shenzhen, shenyang and other places, at present Aisenberg in the greater china region, with four sales companies and two OEM authorized production factory.

2005年我们凭借在中国的合作伙伴进入中国市场，凭借高性价比的产品和迅捷的服务得到了国内的客户一致认可。

In 2005, with our partners in China to enter the Chinese market, by virtue of cost-effective products and fast service by domestic customers unanimous endorsement.

锻钢结构球阀
Forged construction
ball valve

高性能High performance

AISENBERG高性能的锻钢球阀适用于最苛刻的工况。这些产品专为特定应用而设计。

AISENBERG's high performance severe service forged steel ball valves are suitable for the harshest applications.

These products are customized as required for specific applications.

每个AISENBERG阀门均根据用户的特定应用而设计，并由经过专门培训的服务部门提供技术支持。

Each AISENBERG valve is engineered for the customer's specific application and is backed by a specialized and trained service department.



零泄漏设计
Zero leakage design

恶劣工况 Severe service

● **连接方式**
Connection

焊接 Weld
法兰 Flange

● **工作温度**
Temperature

金属密封最高可至593°C
Metal seal up to 593°C

A590系列AISENBERG不仅采用了浮动式球阀设计，具有降低扭矩。还提供独特的固定式设计，此设计能防止阀座受损并支撑球体，可确保磨损小，操作扭矩小。两款设计都具有延长使用寿命、极大的提高了阀门性能的特点。但较固定式连接浮动式的设计要经济实用。

A590 series of AISENBERG not only adopts the type of ball valve design of floating, with reduced torque. Also provides fixed the unique design, the design can prevent seat damage and support sphere, can ensure the abrasion is small, the operation torque is small. Two designs are to extend the service life, greatly improves the characteristics of valve performance. But compared with the fixed connection floating design should be economical and practical.

锻钢球阀设计特点

Design features of ball valve forged steel

采用先进的球体和阀座硬化技术

The use of advanced the ball and seat hardening technology

AISENBERG金属硬密封球阀的球体和阀座针对用户的不同使用工况和要求，可以采用多种先进的硬化技术，包括超音速喷涂、镍基喷涂、等离子堆焊、表面特殊硬化等，球体和阀座的表面硬度可以达到HRC42-68。AISENBERG metal hard seal ball valve ball and seat for users of the different operating conditions and requirements, we can use a variety of advanced hardening technology, including supersonic spray coating, nickel base spray coating, plasma welding, special surface hardening, the surface hardness of the ball and seat can be up to HRC42-68.

防止阀门在高温型的胀死

To prevent the valve in the high temperature type bulging die

高温工况下由于热膨胀而容易引起球体与阀座的胀死，从而导致阀门的无法开启。AISENBERG金属硬密封球阀采用了板簧加载的密封结构，在高温下零件的热膨胀可以被板簧所吸收，故能够保证阀门在高温下不会被胀死，并能够灵活启闭。

High temperature due to thermal expansion and easy to cause the ball and valve seat of the bulging die, causing the valve can not open. Sealing structure is adopted spring loaded AISENBERG metal hard seal ball valve, the parts in the high temperature thermal expansion can be absorbed by the spring, so it can ensure the valve is not bulging die under high temperature, and can be flexibly opened and closed.

优异的密封性能

Excellent sealing performance

采用下游端密封的单向密封结构，灵活独特的球体研磨工艺，通过球体与研磨器具在空间不同方位的旋转，使球体表面达到极高的圆度和光洁度，阀门的密封性能完全达到或超过标准要求。

Using one-way sealing structure of the downstream end seal, flexible ball lapping process unique, pass the ball and grinding apparatus in different spatial rotation, so that the surface of the sphere to achieve the high roundness and surface finish of the sealing performance of the valve fully meet or exceed the requirements of the standard.



设置驱动装置安装平台

Set the drive device installation platform

阀体带坚固的大型安装法兰，可以承受较重的安装人员操作并在传动系统密封功能中发挥关键作用，可以方便的安装蜗轮蜗杆传动装置、气动装置或电动装置。

Large mounting flange valve body with strong, can bear heavy installation personnel to operate in the transmission system and the sealing function play a key role, can install the worm gear and worm transmission device, convenient pneumatic and electric device.

锁紧弹簧

Locking spring

阀座通过大型弹簧垫圈锁固到位。这些弹簧在整个阀座环四周产生均匀载荷，并通过其将主阀座环压紧在阀体上来保持密封。
A large spring washer stabilizes and locks the seat in place. These springs uniformly produce a consistent load around the entire seat ring and maintain a seal by loading the primary seat ring to the valve body.

阀体接合

Body joint

采用螺栓式连接设计，满足甚至超过ASME Section VIII, Div1, Appendix 2标准。

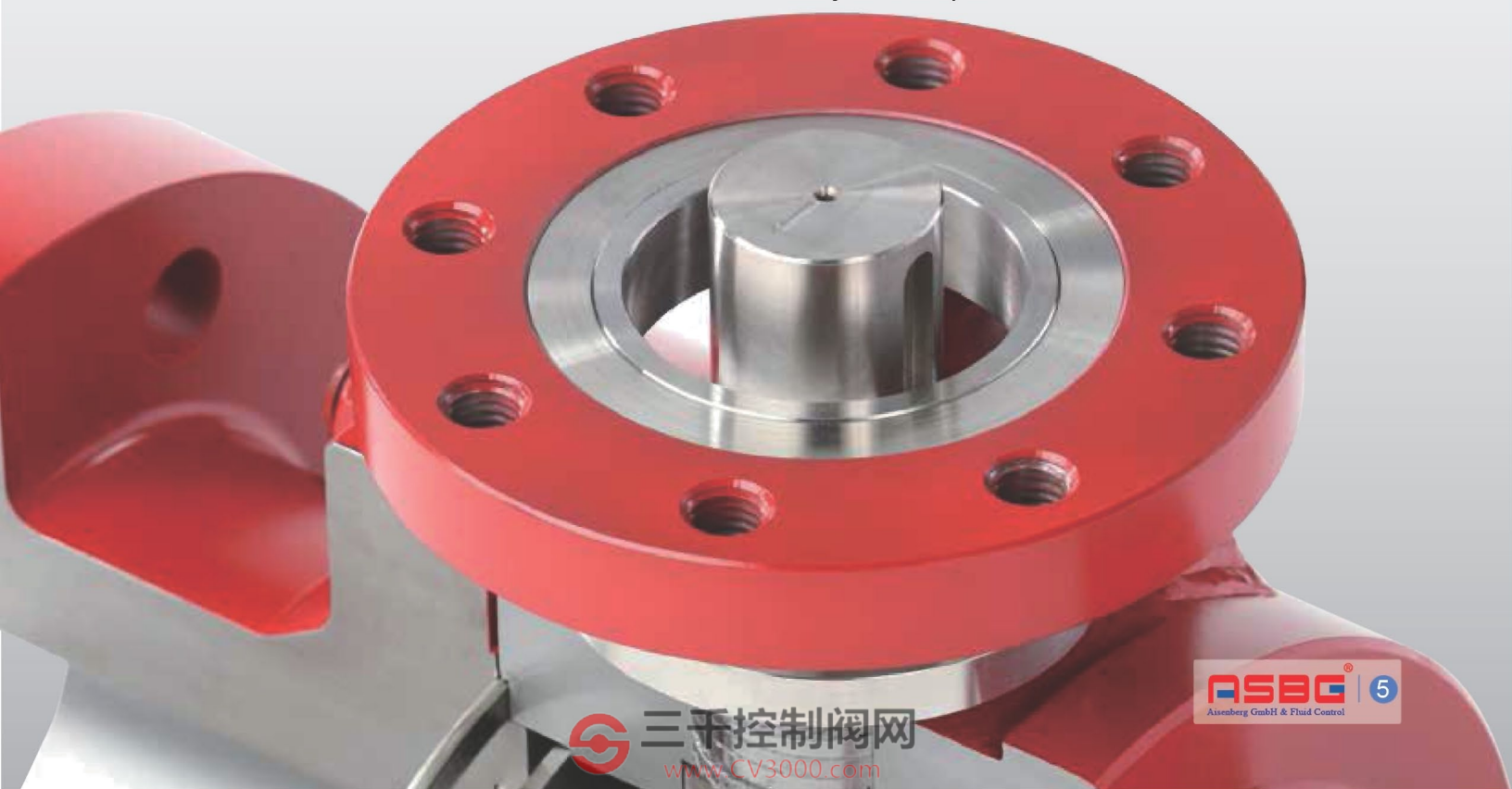
- 压力等级不超过ASME 1500的型号采用一个大截面螺旋缠绕垫片。
- 压力等级ASME 2500及以上型号采用我们专利的密封圈。

The bolted connection is designed to meet and exceed ASME Section VIII, Div 1, Appendix 2 criteria.

- Valves rated up to ASME 1500 utilize a large cross-sectional spiral wound gasket.
- Valves rated ASME 2500 and higher utilize our proprietary seal ring.

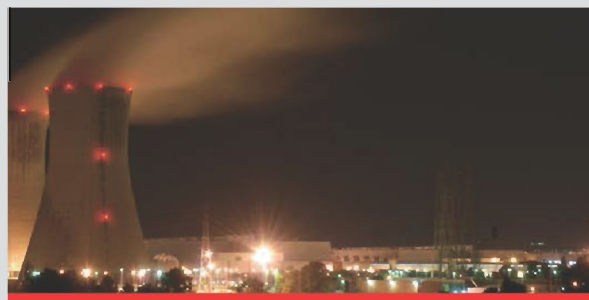
生产理念 Production concept

确保产品安全性能是我们立足市场的根本。因此我们要求产品的每个关键零部件都具有可追溯源，确保性能可靠，让用户放心。
We recognize that the safety performance of our product is critical to our customers, therefore, all major part components are traceable to reassure our customers of consistent reliability throughout its life cycle



应用行业

Industrie serverd



炼油 Refining

重油升级及氢化裂解 Above & Below Seat Drains

- 催化阿基添加和回收
Catalyst Addition & Withdrawal
- 泵隔离
Pump Isolation
- 塔顶蒸汽隔离和控制
Overhead Vapor Isolation & Control
- 低,中,高压控制减压站
Low,Medium, & High Contro Letdown Stations

延迟焦化 Delayed Coking

- 焦炭塔进料隔离
Coke Drum Feed Isolation
- 塔顶蒸汽管路
Overhead Vapor Line
- 切割水泵隔离
Cutting Water Pump Isolation
- 旁通
Bypass

重整 Reforming (CCR)

- 闭锁料斗
Lockhopper

液化催化裂化 Fluidized Catalytic Cracking (FCC)

- 催化剂处理
Catalyst Handling
- 灰浆隔离和控制蒸汽
Slurry Isolation & Control Steam
- 再生转储
Regeneration Dump
- 重油
Heavy Oil

电力 Powergeneration

- 上下游阀座排水
Above & Below Seat Drains
- 灰尘处理
Ash Handling
- 减温器喷洒控制
Attemperator Spray Control
- 锅炉排水
Boiler Drains
- 锅炉给水泵隔离
Boiler Feed Pump Isolation

- 连续锅炉排污
Continuous Boiler Blowdown
- 再循环
Recirculation
- 给水隔离
Feedwater Isolation
- 主流截止阀
Main Steam Stop
- 吹灰器
Soot Blower

- 气动通风/排水
Startup Vents/Drains
- 蒸汽排放
Steam Dump
- 涡轮旁路系统
Turbine Bypass Systems
- 涡轮排水
Turbine Drain

采矿 Mining

高压泥浆输送系统 High Pressure slurry transportation systems

- 泵排放隔离
Pump Discharge Isolation
- 管道隔离站
Pipeline Isolation Stations
- 仪表隔离
Instrument Isolation
- 通风和排水
Vents & Drains
- 清管道
Pigging Stations

高压酸浸&加压氧化 Pressure acidleach & Pressure oxidation

- 高压灭菌器
Autoclaves
- 注酸
Acid Injection
- 注气
Gas Injection
- 注汽
Steam Injection
- 容器补料和排放
Vessel Feed & Discharge

石化 Chemical / Petro- Chemical

- 聚乙烯
Polyethylene
- 乙烯
Ethylene

合成燃料 Synfuels

- 煤气化
Coal Gasification
- 煤液化
Coal Liquefaction

产品简介 Product introduction

本产品流量阻力小，具有最低的流阻、密封性能好、寿命长。

The product flow resistance, having a long life lowest flow resistance, sealing performance.

设计和特点 Design and Features

操作:手把式、气动、电动

连接标准:德标法兰、美标法兰、焊接

压力范围:PN16/150LB、PN40/300LB、PN100/600LB、PN150/900LB
PN250/2500LB、PN420/2500LB

Operation:Handle,Pneumatic,Electric

Connection standard:DIN Flange,ANSI Flange,Weld

Pressure range:PN16/150LB,PN40/300LB,PN100/600LB,
PN150/900LB,PN250/2500LB,PN420/2500LB



选项 Options

球体类型:固定球,浮动球

阀体材质: A105,F304,F316

内件材质: F304,F316

阀座密封: RPTFE,PEEK,金属密封,316SS+STL,316SS+WC

阀杆填料: RPTFE,PEEK,柔性石墨

Ball type: Mounted ball, Floating ball

Body: A105,F304,F316

Trim: F304,F316

Seat: RPTFE,PEEK,Metal,316SS+STL,316SS+WC

Packing: RPTFE,PEEK,Graphite

气动执行器 Pneumatic actuator

缸体: 铝合金 (其他请咨询)

气源压力: 4-8 bar

环境温度: -20°C+ 80°C (其他请咨询)

气源介质: 过滤后的压缩空气或者其他惰性气体

选项: 两位三通或两位五通电磁阀, 电子或物理指示器,
定位器, 过滤减压阀, 手动离合器

Body:Aluminum alloy(Others on request)

Pilot pressure:4-8 bar

Temperature of the environment:-20°C up to+ 80°C(Others on request)

Pilot media:Filtered compressed air or other inert gases

option:3/2-ways or 5/2-ways solenoid valve,electronic or physical
indicators,locator,filter pressure reducer,manual clutch



电动执行器 Electric actuator

可选电压: 220VAC,380VAC,24VDC (其他请咨询)

环境温度: -20°C+ 60°C

防护等级: IP67

标准设备:两限位开关, 物理指示器, 手动控制, 开关型+干接点

选项: 除湿加热器, 过力矩保护, 4-20mA调节,Exd II BT 4,更多要求请咨询

Optional voltage:220VAC,380VAC,24VDC(Others on request)

Temperature of the environment:-20°C up to+ 80°C

Protection:IP 67

Standard equipment:2 additional limit switches, optical position

indicator, manual override, On/Off+Limit switch

option:Dehumidification heater,overtorque protection,modulante type

4-20mA,Exd IIB T4,more requests please contact

● 以上信息仅供参考，本公司保留修改的权利，恕不另行通知。

The above information is intended for guidance only and the company reserves the right to change any date herein without prior notice

选型说明 Model code

1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10
A590 B D 6 6 R R C D 20

1. 产品类型 Product

A590	锻钢固定球阀 Forged steel mounted ball valve
A591	锻钢浮动球阀 Forged steel floating ball valve

2. 控制方式 Control

A	手动控制 Manual
B	气动角行程活塞式铝缸体标准型 Pneumatic aluminum cylinder
P	电控基本型角行程 The basic type rotary electric control

3. 驱动形式 Type of actuator

L	手把式 Lock lever
W	手轮式 Handwheel
D	双动 Double acting
S	单动常闭 Single acting normally close
P	单动常开 Single acting normally open
E	220VAC电动开关 Electric ON/OFF
F	24VDC电动开关 Electric ON/OFF
M	380VAC电动开关 Electric ON/OFF
G	220VAC电动调节 Electric modulante
H	24VDC电动调节 Electric modulante
J	380VAC电动调节 Electric modulante
K	220VAC电动开关防爆 Explosion-proof electric ON/OFF
N	24VDC电动开关防爆 Explosion-proof electric ON/OFF
Q	380VAC电动开关防爆 Explosion-proof electric ON/OFF
R	220VAC电动调节防爆 Explosion-proof electric modulante
T	24VDC电动调节防爆 Explosion-proof electric modulante
V	380VAC电动调节防爆 Explosion-proof electric modulante

4. 阀体材质 Body

2	A105
4	F304
6	F316

5. 内件材质 Trim

2	A105
4	F304
6	F316

6. 密封材质 Seat

R	RPTFE	L	316SS+STL
K	PEEK	W	316SS+WC
D	金属密封 Metal		

7. 填料材质 Packing

R	RPTFE
K	PEEK
H	柔性石墨 Graphite

8. 设计压力 Pressure

B	PN16/150LB	E	PN150/900LB
C	PN40/300LB	F	PN250/1500LB
D	PN100/600LB	G	PN420/2500LB

9. 接口形式 Connection

D	德标法兰 DIN Flange
A	美标法兰 ANSI Flange
B	对焊 Weld

10. 阀门口径 Caliber

18	2"	25	10"
19	2 1/2"	26	12"
20	3"	27	14"
21	4"	28	16"
22	5"	29	18"
23	6"	30	20"
24	8"	31	24"

1. 阀杆填料材质一般和球面密封材料一致，在选择金属密封阀座时候填料密封采用柔性石墨。
2. DN100以上手动固定球阀建议采用手轮驱动方式。
3. PN40/300LB以上建议采用固定球阀。
4. The stem packing material is generally consistent and spherical sealing materials, metal sealing seat in the choice of when using flexible graphite packing.
5. DN100 mounted ball valve above the manual hand wheel drive mode is recommended.
6. PN40 / 300LB above recommended mounted ball valve.

● 以上为标准选型，特殊要求请咨询本公司技术部。

The above is the standard selection, special requirements, please contact our technical department.

系列 Series
B300

ASBG[®]
Aisenberg GmbH & Fluid Control

三偏心蝶阀适用严格工况

The Ultimate Critical Service TRIPLE OFFSET valve

连接方式
Connection

- 对夹式 Wafer
- 凸耳式 LUG
- 焊接 Weld
- 双法兰 Double Flange

工作温度
Temperature

- -29°C--+450°C

三 偏 心 蝶 阀

Triple eccentric butterfly valve

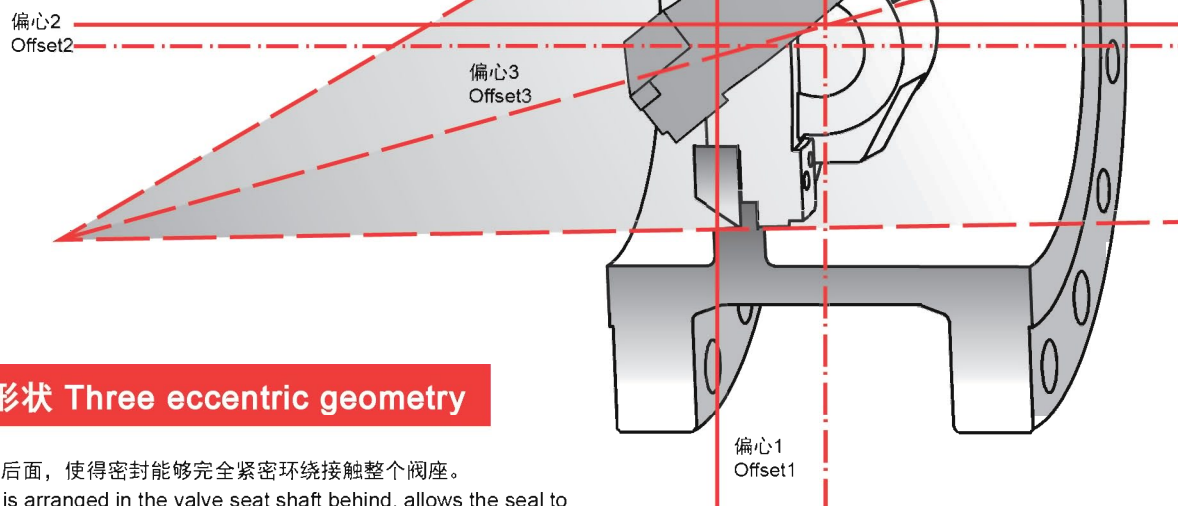


三千控制阀网
www.CV3000.com

工作原理 Principle of operation

AISENBERG 三重偏心蝶阀具有双向无气泡紧密关闭性能。这种几何形状保证阀瓣密封只是在关闭位置才与阀体阀座接触，因此不会产生摩擦或磨损，并且产生一种扭矩使得弹性密封具有足够的“焊接”性能，确保密封接触的均匀一致性。

AISENBERG three eccentric butterfly valve with a bi-directional bubble tight shut-off. This geometry to ensure the valve sealing is in the closed position with body seat contact, therefore, does not produce friction or wear, and generates a torque makes the elastic seal with sufficient "welding" performance, to ensure a uniform seal contact.



三重偏心几何形状 Three eccentric geometry

偏心1 阀轴位于阀座轴后面，使得密封能够完全紧密环绕接触整个阀座。

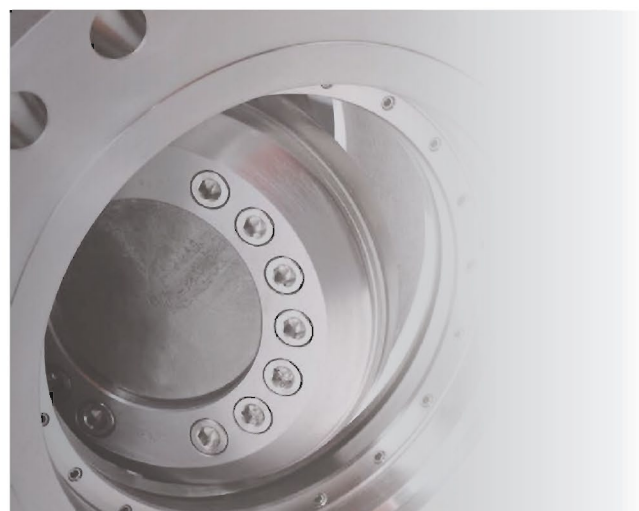
Offset 1 The valve shaft is arranged in the valve seat shaft behind, allows the seal to fully contact around the entire seat.

偏心2 阀轴中心线偏离管道和阀门中心线，这就免受阀门开启和关闭的干扰。

Offset 2 The valve shaft center line from the pipe and the central line of the valve, the valve opening and closing from interference.

偏心3 阀座锥体轴偏离阀轴中心线，这样可以关闭和开启过程中消除摩擦作用，并且实现环绕整个阀座的均匀一致的压缩密封效果。

Offset 3 Valve cone axis is offset from the shaft center line, so you can open and close the elimination of the role of friction in the process, and the realization of uniform compressive sealing around the entire seat.



三偏心技术应用

Triple offset technology application

同口径和同等级的闸阀，截止阀和球阀相比，AISENBERG在尺寸，重量和安装要求都大大缩减，从而降低客户的建造和维护成本。AISENBERG系列蝶阀适用于从真空到高压，从超低温到超高温的各种应用。标准的弹性金属硬密封系统本身就是防火安全的，在要求零泄漏密封的应用场合中，现在有种阀门可以实现，那就是AISENBERG。Compared to gate, globe or ball valves of the same size and pressure class, Aisenberg provides space and weight savings while minimizing installation and maintenance costs.

AISENBERG is a premier isolation valve, well suited for operation in light vacuum to high pressure applications. The standard, non-rubbing, metal-to-metal sealing system is inherently firesafe. Applications requiring absolute zero leakage are ideally suited for triple offset technology.

填料 Packing

可调节的填料系统（填料压盖）减小了管道中介质散出的几率并且易于填料的现场更换。
Fully adjustable stem seal system (packing gland) eliminates fugitive emissions and is also field replaceable.

阀杆 Stem

AISENBERG三偏心蝶阀采用整体式阀杆，并且在填料上方带有防吹出环使得阀杆在工况压力下完全符合国际标准。
AISENBERG features a one piece stem with a blow out prevention ring located above the packing box, outside the pressure boundary, in accordance with international standards.

轴承 Bearings

作为标准配置，有效防止破坏性颗粒进入阀杆轴承，从而延长使用寿命。阀体凸台使轴承长度增加提供了对阀杆最大程度的支撑。

阀座/密封圈 Seat/Sealing

AISENBERG阀门完全可更换阀座和阀板密封圈系统延长了整个使用寿命，减少了维护时间和成本。

Fully replaceable seat and seal ring system extends the overall life of every Tri Lok valve minimizing downtime, without the need for costly offsite repairs or total replacement.

可更换阀座密封系统 Replaceable seat/Seal system

AISENBERG系列阀门特点为在现场可独立更换阀座和密封环。根据工况条件的变化，阀座和密封环材料可替换，无需将整个阀门都更换。维修、停工时间和成本都大大的减少了，从而延长了阀门的使用寿命。

AISENBERG弹性金属硬密封在最低扭矩下提供零泄漏，防火是金属硬密封固有特性。标准的阀座和密封环材料是不锈钢，也可以提供其他材料，包括Stellite覆盖的材质。弹性密封环与阀座形成均匀的外围密封，无论流体流向如何，阀门都能完全关闭。AISENBERG在高温或严格工况应用时提供了可靠地金属阀板密封，确保阀门在使用寿命内、在全压力/温度范围内实现双向密封零泄漏。

AISENBERG Series valves feature independent field replacement of both the seat and the seal ring. Should service conditions change, seat and seal ring materials may be substituted, without replacing the entire valve. Maintenance, downtime and costs are substantially reduced extending the overall service life of the valve.

AISENBERG's non-rubbing metal-to-metal seal delivers zero leakage with a minimal amount of torque and is inherently firesafe. The standard seat and seal ring material is stainless steel with other materials including Stellite overlays available. The resiliency of the seal ring ensures uniform peripheral sealing with the seat, achieving full shutoff regardless of flow direction. Tri Lok offers a solid metal seal ring for high temperature and severe service applications to ensure bi-directional shut-off throughout the full pressure/temperature range.

产品简介 Product introduction

三偏心采用模块化设计原理,该系统可以满足您对于操作可靠性、环保及成本效益方面的要求。压盖式安装的阀座,更换备件方便简单。

Eriple eccentric modular design principle, for the system to meet your operational reliability, environmental protection and to The effectiveness requirements. Gland-mounted seat, convenient and simple replacement of spare parts.

设计和特点 Design and Features

操作:手把式、手轮式、气动、电动

连接:对夹法兰、凸耳式、双法兰、焊接

压力范围:PN16/150LB、PN40/300LB、PN100/600LB (其他请咨询)

Operation:Handle ,Handle Wheel,Pneumatic,Electric

Connection:Wafer flange,Lug,Double flange

Pressure range:PN16/150LB,PN40/300LB,

PN100/600LB(Others on request)

气动执行器 Pneumatic actuator

缸体:铝合金(其他请咨询)

气源压力:4-8 bar

环境温度:-20°C+ 80°C(其他请咨询)

气源介质:过滤后的压缩空气或者其他惰性气体

选项:两位三通或两位五通电磁阀,电子或物理指示器,定位器,过滤减压阀,手动离合器

Body:Aluminum alloy(Others on request)

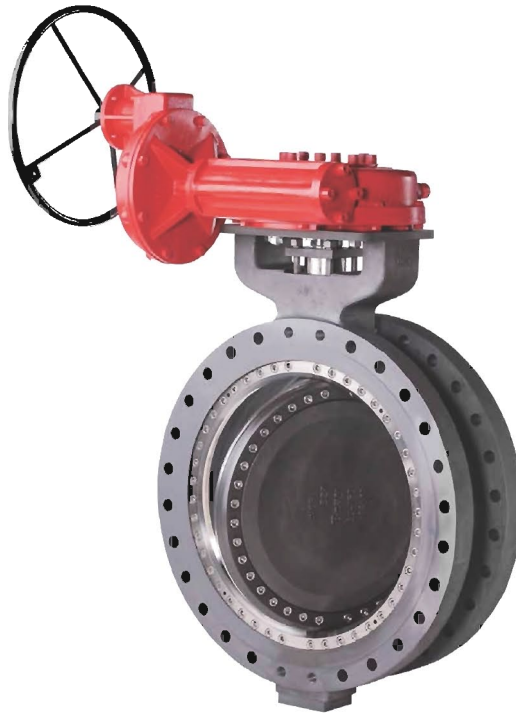
Pilot pressure:4-8 bar

Temperature of the environment:-20°C up to+ 80°C(Others on request)

Pilot media:Filtered compressed air or other inert gases

Option:3/2-ways or 5/2-ways solenoid valve,electronic or physical indicators,locator,filter pressure reducer,manual clutch

● 以上信息仅供参考,本公司保留修改的权利,恕不另行通知。
The above information is intended for guidance only and the company reserves the right to change any date herein without prior notice



选项 Options

阀体材质:WCB,304SS,316SS(其他请咨询)

内件材质:304SS,316SS(其他请咨询)

阀座密封:金属密封,316SS+STL,316SS+WC

阀杆填料:PTFE,柔性石墨

Body:WCB,304SS,316SS,(Others on request)

Trim:304SS,316SS(Others on request)

Seat: Metal,316SS+STL,316SS+WC

Packing:PTFE,Graphite

电动执行器 Electric actuator

可选电压:220VAC,380VAC,24VDC(其他请咨询)

环境温度:-20°C+ 60°C

防护等级:IP67

标准设备:两限位开关,物理指示器,手动控制,开关型+干接点

选项:除湿加热器,过力矩保护,4-20mA调节,Exd II BT 4,更多要求请咨询

Optional voltage:220VAC,380VAC,24VDC(Others on request)

Temperature of the environment:-20°C up to+ 80°C

Protection:IP 67

Standard equipment:2 additional limit switches, optical position indicator, manual override, On/Off+Limit switch

option:Dehumidification heater, overtorque protection, modulate type 4-20mA, Exd IIB T4, more requests please contact

选型说明 Model code

1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 10
 B300 B D 6 6 D P B D 18

1. 产品类型 Product

B300	三偏心对夹式蝶阀 Eriple eccentric butterfly valve wafer type
B310	三偏心凸耳式蝶阀 Eriple eccentric butterfly valve LUG type
B320	三偏心双法兰蝶阀 Eriple eccentric butterfly valve double flange type
B330	三偏心焊接蝶阀 Eriple eccentric butterfly valve weld type

2. 控制方式 Control

A	手动控制 Manual
B	气控角行程活塞式铝缸体标准型 Pneumatic aluminum cylinder
P	电控基本型角行程 The basic type rotary electric control

3. 驱动形式 Type of actuator

L	手把式 Lock lever
U	ISO5211
W	手轮式 Handwheel
D	双动 Double acting
S	单动常闭 Single acting normally close
P	单动常开 Single acting normally open
E	220VAC电动开关 Electric ON/OFF
F	24VDC电动开关 Electric ON/OFF
M	380VAC电动开关 Electric ON/OFF
G	220VAC电动调节 Electric modulante
H	24VDC电动调节 Electric modulante
J	380VAC电动调节 Electric modulante
K	220VAC电动开关防爆 Explosion-proof electric ON/OFF
N	24VDC电动开关防爆 Explosion-proof electric ON/OFF
Q	380VAC电动开关防爆 Explosion-proof electric ON/OFF
R	220VAC电动调节防爆 Explosion-proof electric modulante
T	24VDC电动调节防爆 Explosion-proof electric modulante
V	380VAC电动调节防爆 Explosion-proof electric modulante

4. 阀体材质 Body

2	WCB
4	304SS
6	316SS

5. 内件材质 Trim

4	304SS
6	316SS

6. 密封材质 Seat

D	金属密封 Metal
L	316SS+STL
W	316SS+WC

7. 填料材质 Packing

P	PTFE
H	柔性石墨 Graphite

8. 设计压力 Pressure

B	PN16/150LB
D	PN40/300LB
E	PN100/600LB
F	PN250/900LB
G	PN420/2500LB

9. 接口形式 Connection

D	德标法兰 DIN Flange
A	美标法兰 ANSI Flange
B	焊接 Butt weld

10. 阀门口径 Caliber

18	2"	25	10"
19	2 1/2"	26	12"
20	3"	27	14"
21	4"	28	16"
22	5"	29	18"
23	6"	30	20"
24	8"	31	24"

1. 碳钢阀体，阀板为304SS。其他配置阀板和阀体材质保持一致。

2. 工作温度在180℃以上采用石墨填料。

1. Carbon steel body, valve plate for 304SS. Other configurations of the valve plate and valve body material consistent.

2. The operating temperature of 180 °C graphite packing.

● 以上为标准选型，特殊要求请咨询本公司技术部。

The above is the standard selection, special requirements, please contact our technical department.

调节型控制阀 Modulating control valve

恶劣工况 Severe service

多样化内件 Internal parts of diversification

AISENBERG AS系列控制阀配有专门设计的阀内件以满足工厂中的各种工况。阀内件的形式、材质均可按需提供。

AISENBERG AS series control valve with a specially designed valve parts to meet a variety of working conditions in factories. Form and material valve parts can be provided upon.

- **连接方式**
Connection

焊接 Weld
法兰 Flange

- **工作温度**
Temperature

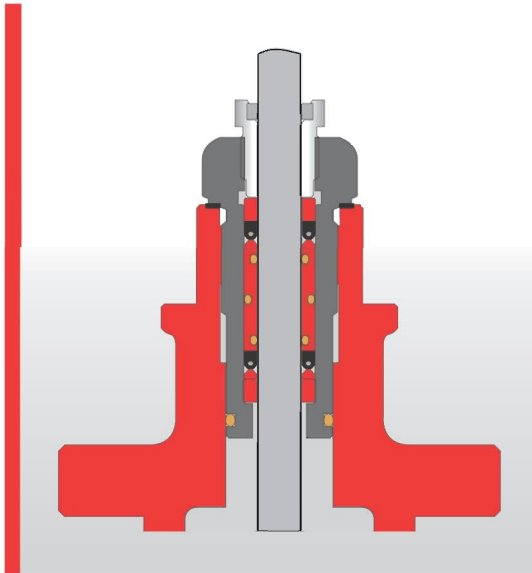
-196℃~+538℃

- **泄漏等级**
Leakage rating

Class VI及以上
Class VI and above



阀杆密封 Stem seals



免维护PTFE V型精密密封环

Precision sealed maintenance-free PTFE V-ring

该填料系统由加强型石墨和PTFE V型环组成，不受操作温度剧烈变化的影响。耐腐蚀的预紧弹簧安装于填料函的下方，即使在低压工况下也能保证足够的密封力。精密的弹性微密封单元安装在填料函上部，以确保密封更加安全，同时装有刮垢环以防止外界污垢进入。

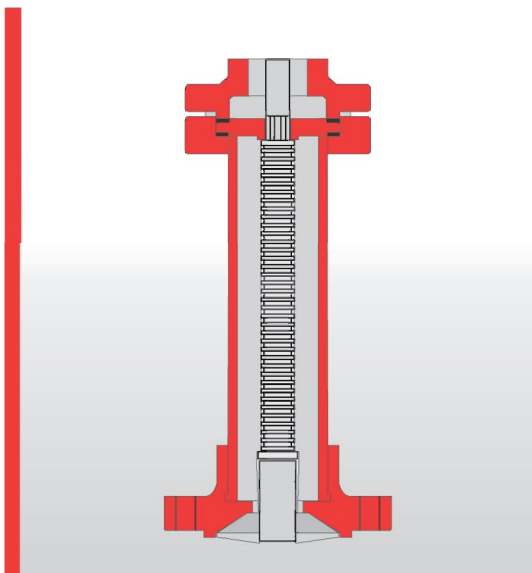
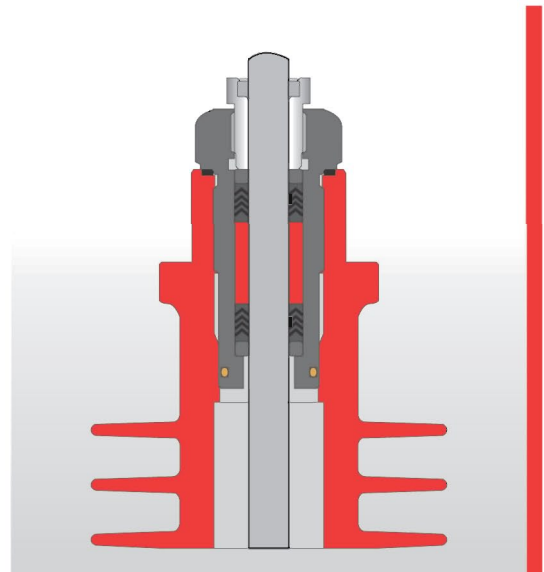
The packing system consists of reinforced graphite and PTFE V-ring composition, dramatic changes in temperature are not operating. Corrosion-resistant spring preload installed in the bottom of the stuffing box, even in low-pressure conditions but also to ensure adequate sealing force. Precision Micro elastic sealing unit mounted on the upper stuffing box to ensure a more secure seal, while scraping dirt ring fitted to prevent dirt entering the outside world.

可调整的填料函和密封环

Adjustable stuffing and sealing ring

可调整的阀杆密封有多种填料材质可选。只有每个单独的填料环都能受到均匀的负载压力，才能保证在长期使用中不会出现由于密封力不均而导致的内漏问题。由于AISENBERG有专利的OPTIPRESS预紧力装置，填料环总是在一个恒定的预紧力下工作，密封力在整个填料函内都是均匀的，这可以保证整个填料长期保持良好的密封效果。

There are a variety of adjustable stem seal packing materials available. Only each individual packing rings can be subjected to a uniform load pressure, in order to ensure that no leakage problems occur due to the uneven sealing force caused in long-term use. Because AISENBERG OPTIPRESS patented preload device, packing ring is always in a constant preload work under seal force is uniform throughout the stuffing, which can guarantee the long-term good of the whole packing seal.



波纹管密封

Bellows seal

在要求零泄漏的场合，AISENBERG专门开发的波纹管密封是最佳解决方案，不锈钢波纹管的底部与阀杆焊接，顶部为波纹管密封固定端，因此波纹管阀门的阀杆密封可实现气密密封。为了安全起见，阀门还额外配有标准的填料函，即使在波纹管失效的情况下也可确保安全可靠运行。在波纹管和填料函之间可选配检测和清洗接口。

Requiring zero leakage occasions, AISENBERG specially developed bellows seal is the best solution at the bottom of the stem welded stainless steel bellows, the top end of the bellows seal is fixed, so the bellows valve stem seal can achieve airtight seal. For security reasons, the valve additionally equipped with standard stuffing, even in the case of failure of the bellows can also ensure safe and reliable operation. Between the bellows and stuffing optional detect and clean interface.

阀内件 Trim

标准抛物线阀芯

The standard parabolic spool

对于层流和湍流的工况，抗杂质的一级单座抛物线阀芯是最理想的选择。阀门的流量特性可以根据要求调整。标准的阀座为金属材质，阀座环为旋转对称形式，可以双面使用。当一面损坏的时候可以简单的翻转阀座继续使用，这无需特殊工具即可在现场便利的操作。为了防止因高压和气蚀产生的对阀内件的冲蚀损害，可选用一级或多级的阀芯（逐级降压）。打孔的低噪音阀笼可以有效地降低噪音。

For the laminar and turbulent flow conditions, a single seat valve core anti impurity level of parabola is the most ideal choice. The flow characteristics of the valve can be adjusted according to the requirements. Standard seat is made of metal material, the seat ring is rotationally symmetric form, can use both sides of. The flip side seat when damaged can simply continue to use it without special tools can be convenient in site operation. Erosion damage to the valve parts in order to prevent by high pressure and cavitation, can be selected by the valve core single-stage or multi-stage (stepped down). Low noise valve cage drilling can effectively reduce noise.

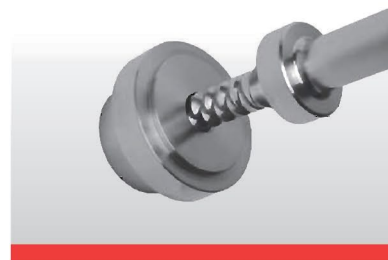


压力平衡式阀芯

Pressure balanced valve

压力平衡式阀内件是减小执行机构推力的最佳选择。通过在阀芯上打孔和加装活塞密封圈来减小不平衡力。即使很小的执行机构也可以驱动配有压力平衡式的AISENBERG控制阀。根据工艺条件，压力平衡式阀门可选择金属的活塞环或弹性密封环来实现密封。

Valve pressure balance internal parts is reduced the best choice actuator thrust. Piston ring to reduce the unbalance force on valve core drilling and installation of the. Even if the actuator is very small also can be driven with pressure balance type AISENBERG control valve. According to the process conditions, pressure balance valve can be selected from metal piston ring or elastic sealing ring to seal.



金属支撑的软密封阀座

Soft sealing valve seat metal support

为了确保软密封阀座在使用大的执行机构情况下长期的密封性能，AISENBERG 创造性的研发了具有金属边保护和O型圈支撑的PTFE软阀座。这样不仅能够保证PTFE软密封的正常密封压力，同时也能够防止PTFE软密封的变形开裂。经过100万次的重负运行，改装置已被证明是极为可靠的。

In order to ensure that the soft sealing valve seat in the use of executive mechanism under the condition of more long-term sealing performance, research and development of AISENBERG creative PTFE with soft seat metal edge protection and O type ring support. This can not only ensure the normal sealing pressure of PTFE soft seal, but also can prevent deformation and cracking of PTFE soft seal. After 1000000 runs of the burden, the modification has been proved to be very reliable.

FLUID CONTROL

AISENBERG 控制阀提供一系列创新设计和及解决方案以满足您的控制需求。
AISENBERG control valve provides a series of innovative design and solutions to meet the needs of your control.

打孔阀芯和阀笼

Drilling spool and valve cage

对于液体和可压缩的介质，打孔的阀芯和阀笼是降噪和防止气蚀的理想解决方案。气蚀所产生的气泡穿过小孔在打孔阀芯的中间破裂，所以不会对阀内件和阀体造成破坏，这种为了应对高压差和特殊工况而设计的控制阀不仅使用寿命长而且可以节约成本、提高效率，同样也能降低噪音。对于更高噪音的工况还可以加装打孔阀笼进一步降低噪音。

For liquid and compressible fluid, perforating the spool and valve cage is to prevent cavitation noise reduction and ideal solution. Cavitation bubbles generated through the holes in the middle hole of the valve core rupture, so will cause the valve parts and valve control valve failure, this in order to cope with the high differential pressure and special working condition and design not only has a long service life and can save cost, improve efficiency, can also reduce the noise. For higher noise condition can be equipped with a perforated cage to further reduce the noise.



双导向抛物线阀芯

Double guide parabolic spool

由于伯努利效应，流体在高压差的情况下会使阀芯震动，双导向的阀芯可以抵消这种现象。该创新设计不会增加额外的密封部分。开放性的底部导向设计能有效地抵抗杂质。由于AISENBERG系列的模块化设计，创新的双导向部件可以应用到每个标准阀门中。

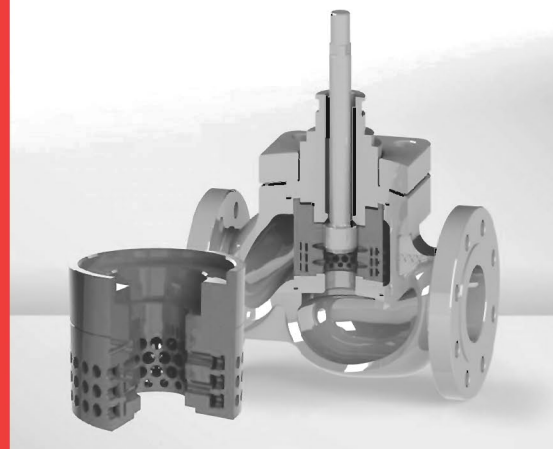
Due to the Bernoulli effect, the fluid will spool vibration in the case of high-pressure differential valve core, double orientation parabolic spool can counteract this phenomenon. The innovative design won't increase additional sealing part. Bottom guide opening design can effectively resist impurities. Due to the modular design of AISENBERG series, double guide parts of innovation can be applied to each standard valve.

危险介质隔膜密封阀

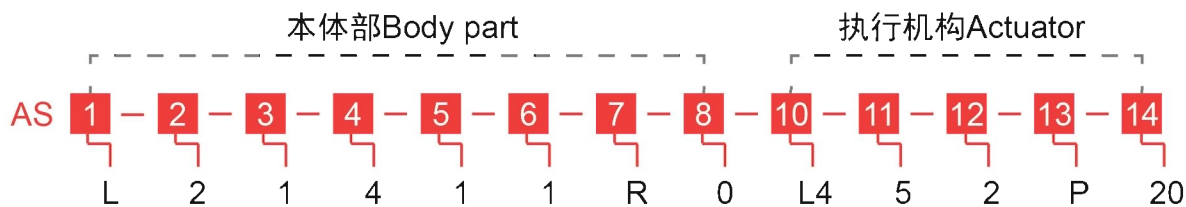
Dangerous medium diaphragm sealed valve

隔膜密封和安全填料函可以有效阻止危险介质的泄露。在复杂的工况下颗粒物可能滞留在金属波纹管的间隙中从而造成波纹管的损坏，这种情况下选择隔膜密封是最理想的。

Diaphragm seal and secure leak stuffing can effectively prevent dangerous medium. Clearance of particulate matter in the complex conditions may be stuck in the metal corrugated pipe to cause damage in a corrugated pipe, sealing the case of optional diaphragm is the most ideal.



选型说明 Model code



1. 产品类型 Product

ASL	直行程调节阀 Straight trip regulating valve
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2. 控制类型 Control

2	不平衡式内件 Unbalanced type internals
4	平衡式内件 Balance type internals

3. 流通型式 Circulation

1	直通结构 Through structure
2	角式结构 Angle type structure
3	Z型结构 Z type structure

4. 内件型式 Inner member

1	螺纹拧入式阀座 Screw in type valve seat
2	笼套压入式阀座 pressing type valve seat
3	双阀芯泄压阀 Dual spool pressure relief valve
4	切断型 Cut off
5	套筒双阀座 Sleeve double seat
6	套筒单座阀 Sleeve single seat
7	多孔式阀笼结构 Porous type valve cage structure
8	迷宫式阀笼结构 Labyrinth valve cage structure
9	多级降压式结构 The multi-stage step-down structure

5. 上阀盖型式 Cover

1	标准型 Standard
2	散热性 Heat dissipation
3	波纹管密封型 Bellows seal type
5	夹套型 Jacket

6. 连接型式 Connection

1	法兰式 Flange
2	对夹式 Wafer
3	对焊式 Weld
4	螺纹式 Thread

7. 密封型式 Seat

1	PTFE
2	金属密封 Metal

8. 多级降压级别 Multistage depressed level

0	无 None
II	2级降压 Two step-down
III	3级降压 Three step-down
IV	4级降压 Four step-down
V	5级降压 Five step-down
VI	6级降压 Six step-down
VII	7级降压 Seven step-down
VIII	8级降压 Eight step-down

10. 执行器类型 Actuator

L4	直行程薄膜式 Straight travel film type
L6	直行程气缸式 Straight stroke cylinde

11. 作用型式 Action

5	单作用常闭 Single acting normally closed
6	单作用常开 Single acting normally open
7	双作用带紧急切断 Emergency cut off with double action
8	双作用带紧急打开 Double acting with emergency opening
9	双作用 Double acting

12. 气缸规格 Cylinder specifications

2	200(薄膜式 Film)
3	210(气缸式 Cylinder)/200(薄膜式 Film)
4	270(气缸式 Cylinder)/255(薄膜式 Film)
5	365(气缸式 Cylinder)/335(薄膜式 Film)
6	460(气缸式 Cylinder)/410(薄膜式 Film)

13. 手轮机构 Handwheel

P	旁式结构 Side type structure
D	顶式结构 Top type structure

14. 阀门口径 Caliber

14	3/4"	21	4"
15	1"	22	5"
16	1 1/4"	23	6"
17	1 1/2"	24	8"
18	2"	25	10"
19	2 1/2"	26	12"
20	3"		

● 以上为标准选型，特殊要求请咨询本公司技术部。

The above is the standard selection, special requirements, please contact our technical department.

三片式球阀

3PC ball valve

系列 Series A100

3片式设计:

此设计可在不拆卸阀盖及阀体的情况下, 仅保持体盖一段的连接, 就可以方便地进行在线维修。还具备多种连接方式的阀盖可供选择。

The 3 Piece design allows the body to swing-out for ease of in-line maintenance. It also makes it possible to offer a wide variety of end connections.



AISENBERG A100系列球阀为3片式的设计形式, 方便用户更灵活地选择连接端、阀座材质。为满足用户的不同要求, 阀门可装上调节阀用的V型球体, 或者有三个端口的球体(用于阀腔排液)。对于特殊用途的球阀, 还可以安装空隙填充阀座。

作为具有互换性阀门的一种品种, 此系列球阀的球体、阀杆、阀杆填料、手柄以及安装平台上装配零件的设计在不同尺寸、不同系列之间具有更广泛的互换性。该设计可减少备品备件库存, 并降低维修费用。

AISENBERG's Series A100 ball valves offer the highest flexibility in selection of endconnections, seat materials and 3 piece design. To meet customer demands for a valve with the widest possible range of applications, these valves can be fitted with control or tri-ported balls (for full cavity drainage), as well as cavity fillers for special service requirements.

The Series A100 is designed with extensive interchangeability of balls, stems, stempacking, handles and mounting hardware between valve sizes and series members. This system reduces parts inventory and maintenance costs.

连接方式 Connection

- G螺纹 G thread
- NPT螺纹 NPT thread
- 对焊 Bult weld
- 承插焊 Socket weld
- 卡箍 Calmp

工作温度 Temperature

- - 40 °C - +250 °C

特点 Feature



手柄 Handle

阀门设有保险扳口可以防止球体位置误移动，操作可有单手方便完成。扳口可将手柄固定在开或关的位置上。如无需使用扳口，可用小销钉将其固定在手柄上。阀门可使用挂锁固定手柄位置，防止误移位。

The valve is provided with a wrench opening can prevent insurance ball position error of mobile, operation can be completed in one hand convenient. Opening of the spanner handle can be fixed in the open or closed position. If no need to use the wrench mouth, can use the small pin which is fixed on the handle. Valve can be used in fixed position of handle padlock, prevent false shift.

阀杆 Stem

AISENBERG 制造能承载重负载，高质量阀杆。阀杆采用双“D”结构连接球体和操作机构。球体与阀杆精确配合，所有AISENBERG阀杆都是有阀体内部装入，可以防止阀杆被吹出，防吹式阀杆的设计增大了安全系数。

AISENBERG manufactures heavy duty, high quality stems with double “D” connection to ball and operator mounting. Stems are mated with the ball to ensure positive contact. All AISENBERG stems are internal entry and blowout proof for maximum safety.

阀杆填料 Stem packing

可调的V型填料密封环，在阀体和阀杆间产生3个或4个环组成(取决于阀门口径)，具有寿命长和抗蠕变、抗冷流的特性。支腿轴承和止推垫圈作为初级密封，减少扭矩和方式咬合。这种设计是AISENBERG产品的特色。

An adjustable V-ring design creates a multiple seal between the stem and body. Each stem assembly is composed of three or four (dependent on valve size) rings providing a very high cycle life by resisting creep and cold flow. The thrust washer and the thrust washer protector combine to provide a primary seal, reduce torque and prevent galling. This design is the AISENBERG product characteristics.

球体 Ball

球体为精密机械加工和镜面抛光，双向零泄露，并降低操作扭矩。球体通道边缘倒成圆角，以减少阀座磨损，延长使用寿命。

Balls are precision machined and mirror finished for bubble-tight shut off with less operating torque. Ball edges have machined curvatures to reduce seat wear and provide a high cycle life.

阀体 Body

阀体为精密铸造并经固溶退火/正火处理，增加强度和高质量。每件阀体铸件都有铸造厂的熔炼炉号以被质量追溯，碳钢阀体表层黑色磷化处理，防腐防锈。

Valve bodies are investment cast and solution annealed/normalized for the highest quality and added strength. Body castings are marked with a foundry heat number for full traceability. Carbon steel bodies are phosphate coated for increased corrosion resistance.

安装平台 Installation platform

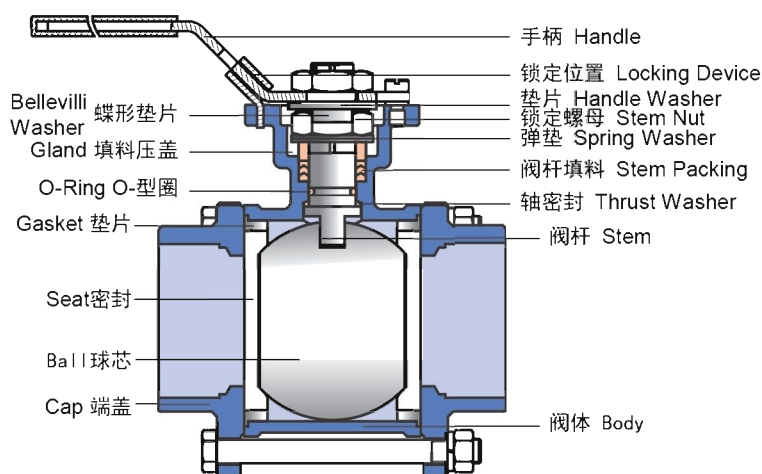
整体铸造的顶部安装平台确保执行器的安装，消除执行器长期持续运行时产生松动，在管道承压状况下可方便安全地拆卸执行器。安装平台设计符合 ISO5211标准。The top integral casting installation platform to ensure that the actuator installation, remove actuator long-term continuous operation of loosening, in the pipeline pressure bearing conditions can be conveniently and safely remove actuator. Installation of platform design conforms to the ISO5211 standard.

双锁定螺母设计 Double lock nut design

双锁定螺母使阀门可在管线承压调节下拆卸手柄，既安全又简单。Standard on the Series 100, the double lock nuts allow handles to be easily and safely removed while the valve is under full line pressure.

阀体铰链 Body hinges

承受达荷载的铰链，可保证阀体与端盖在线维修时能保持铰链。Heavy duty hinges, throughout the entire size range, provide positive alignment of body to end connection during swing-out, in-line servicing.



阀座 Seat

阀座和密封件保证双向密封，零泄漏。此设计可降低摩擦，使阀座磨损达到最小化，以降低操作扭矩。

Seat design ensures bi-directional, bubble-tight sealing while providing the lowest possible torque. This seat design reduces friction, minimizes seat wear and reduces operating torque.

三片式球阀 | A100

3PC Ball valve

www.aisenberd.de

产品简介 Product introduction

三片式球阀，经济、结构简单，适用于绝大多数苛刻工况。
3-PC ball valve, which is economic and simple, applies to most of demanding conditions.

设计 Design

操作:手把式、气动、电动
连接:螺纹、焊接
压力范围:1000PSI、2000PSI
Operation:Handle ,Pneumatic ,Electric
Connection:Thread,Weld
Pressure range:1000PSI、2000PSI



气动执行器 Pneumatic actuator

缸体：铝合金（其他请咨询）
气源压力：4-8 bar
环境温度：-20°C~+ 80°C（其他请咨询）
气源介质：过滤后的压缩空气或者其他惰性气体
选项：两位三通或两位五通电磁阀，电子或物理指示器，定位器，过滤减压阀，手动离合器
Body:Aluminum alloy(Others on request)
Pilot pressure:4-8 bar
Temperature of the environment:-20°C up to + 80°C(Others on request)
Pilot media:Filtered compressed air or other inert gases
option:3/2-ways or 5/2-ways solenoid valve,electronic or physical indicators,locator,filter pressure reducer,manual clutch

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The above information is intended for guidance only and the company reserves the right to change any data herein without prior notice



选项 Options

球芯类型：标准,30°,45°,60°
阀体材质：碳钢,304SS,316SS,316L
内件材质：304SS,316SS,316L
阀座密封：PTFE,TFM,RPTFE（其他请咨询）
阀杆填料：PTFE,TFM,RPTFE
Type of valves：Standard,30°,45°,60°
Body：WCB,304SS,316SS,316L
Trim：304SS,316SS,316L
Seat：PTFE,TFM,RPTFE(Others on request)
Packing：PTFE,TFM,RPTFE



电动执行器 Electric actuator

可选电压：220VAC,380VAC,24VDC（其他请咨询）
环境温度：-20°C~+ 60°C
防护等级：IP67
标准设备:两限位开关,物理指示器,手动控制,开关型+干接点
选项:除湿加热器,过力矩保护,4-20mA调节,Exd II BT 4,更多要求请咨询
Optional voltage:220VAC,380VAC,24VDC(Others on request)
Temperature of the environment:-20°C up to + 80°C
Protection:IP 67
Standard equipment:2 additional limit switches, optical position indicator, manual override, On/Off+Limit switch
option:Dehumidification heater,overtorque protection,modulante type 4-20mA,Exd IIB T4,more requests please contact

选型说明 Model code

1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 10
A100 B D 6 6 P P J G 15

1. 产品类型 Product

A100	三片式球阀 3PC ball valve
A101	三片式V型球阀30° 3PC V-threaded ball valve
A102	三片式V型球阀45° 3PC V-threaded ball valve
A103	三片式V型球阀60° 3PC V-threaded ball valve

2. 控制方式 Control

A	手动控制 Manual
B	气控角行程活塞式铝缸体标准型 Pneumatic aluminum cylinder
P	电控基本型角行程 The basic type rotary electric control

3. 驱动形式 Type of actuator

L	手把式 Lock lever
U	ISO5211手把式 ISO5211 lock lever
D	双动 Double acting
S	单动常闭 Single acting normally close
P	单动常开 Single acting normally open
E	220VAC电动开关 Electric ON/OFF
F	24VDC电动开关 Electric ON/OFF
M	380VAC电动开关 Electric ON/OFF
G	220VAC电动调节 Electric modulante
H	24VDC电动调节 Electric modulante
J	380VAC电动调节 Electric modulante
K	220VAC电动开关防爆 Explosion-proof electric ON/OFF
N	24VDC电动开关防爆 Explosion-proof electric ON/OFF
Q	380VAC电动开关防爆 Explosion-proof electric ON/OFF
R	220VAC电动调节防爆 Explosion-proof electric modulante
T	24VDC电动调节防爆 Explosion-proof electric modulante
V	380VAC电动调节防爆 Explosion-proof electric modulante

4. 阀体材质 Body

2	WCB
4	304SS
6	316SS
8	316L

5. 内件材质 Trim

4	304SS
6	316SS
8	316L

6. 密封材质 Seat

P	PTFE
T	TFM
R	RPTFE

7. 填料材质 Packing

P	PTFE
T	TFM
R	RPTFE

8. 设计压力 Pressure

J	1000PSI
K	2000PSI

9. 接口形式 Connection

G	G螺纹 G thread
B	对焊 Butt weld
N	NPT螺纹 NPT thread
S	承插焊 Socket weld

10. 阀门口径 Caliber

11	1/4"	17	1 1/2"
12	3/8"	18	2"
13	1/2"	19	2 1/2"
14	3/4"	20	3"
15	1"	21	4"
16	1 1/4"		

1. 不锈钢阀门内件与阀体为同一材质。碳钢阀门阀体为碳钢，内件为304SS不锈钢。
2. 阀轴密封一般和球面密封材料一致。
3. 1000PSI, 2000PSI是指球阀的阀体的耐压标准, 而不是阀门的实际工作压力。
4. 2000PSI阀门密封圈选择RPTFE。
5. Stainless steel valve member within the valve body for the same material. Carbon steel valve body is carbon steel, stainless steel trim for 304SS.
6. The valve shaft seals are generally consistent and spherical sealing materials.
7. 1000PSI, 2000PSI pressure refers to the standard ball valve body, rather than the actual working pressure of the valve.
8. 2000PSI valve seats select RPTFE.

● 以上为标准选型，特殊要求请咨询本公司技术部。

The above is the standard selection, special requirements, please contact our technical department.

三片式卫生级球阀

3PC Sanitary ball valve



连接方式

Connection

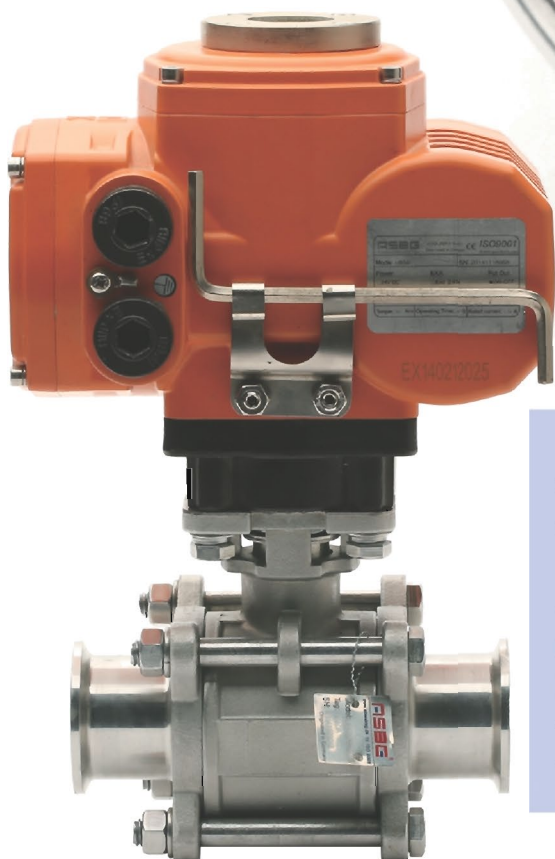
- 对焊 Bult weld
- 卡箍 Calmp

工作温度

Temperature

- - 40 °C - +180 °C

系列Series
A150



AISENBERG的卫生级球阀经过特殊设计，可以满足超清洁应用要求，达到ASME BPEa-2004的指定清洁标准。所有阀的阀体均是不锈钢铸造而成，内表面经过抛光，粗糙度达15Ra-20Ra.还可以提供包括电抛光在内的其他级别处理。

AISENBERG's sanitary ball valves have been specifically designed to meet the requirements of high purity applications in accordance with ASME BPEa specification. All valve bodies are investment cast Stainless Steel with an internal surface finish of 15 Ra with 20 Ra maximum per SFV-1. Other grades of surface finishes, including electropolishing are available.

特点 Feature



阀体 Body

阀体是经过铸造和固溶退火，具有很高的质量和强度。所有阀体上都标有可追溯的熔炼炉号。三片式阀体具有很多优点，安装灵活，不需要法兰，易于在线或非在线检修。
Bodies are investment cast stainless steel and all bodies are solution annealed for the highest quality and added strength. All body castings are marked with a foundry heat number for full traceability. The three piece body design

阀座选择 Seat selection

可供选择的阀座材料例如TFM，能满足许多工况。标准的纯PTFE阀座能满足大多数需求。根据要求也可以选配其他阀座形式
Optional seat materials, such as TFM, are available to meet most applications, with the standard seat being Virgin PTFE. Optional seat designs, are also available upon request.



阀杆密封 Stem seals

止推轴承和止推垫圈组合形成了第一层阀杆密封。可调节的阀体填料和另一个止推轴承在阀杆与阀体间形成了第二层密封。阀杆填料也是有PTFE组成，具有高清洁性和使用寿命。双重阀杆密封式 AISENBERG 独有的产品特点。
The thrust washer provides the primary seal while the live loaded Stem Packing creates a multiple secondary seal between the stem and body. The stem packing is also composed of PTFE providing high purity protection and high cycle life. This dual stem seal arrangement is a AISENBERG exclusive.

连接形式 Connections

卫生级球阀具有两种标准的可互换的连接形式-易于安装快速卡套式连接和适于特殊地点安装的焊接连接。
The sanitary ball valves features two standard inter-changeable end connections – Quick Clamps for ease of installation and Extended Tube Ends for weld in place service.

阀体铰链 Body hinges

承受达荷载的铰链，可保证阀体与端盖在线维修时能保持铰链。
Heavy duty hinges, throughout the entire size range, provide positive alignment of body to end connection during swing-out, in-line servicing.



三片式卫生级球阀 3-PC sanitary ball valve

A 150

www.aisenberd.de

产品简介 Product introduction

三片式球阀，经济、结构简单，适用于绝大多数苛刻工况。
3-PC ball valve, which is economic and simple, applies to most of demanding conditions.

设计 Design

操作:手把式、气动、电动
连接:焊接、卡箍
压力范围:1000PSI、2000PSI
Operation:Handle ,Pneumatic ,Electric
Connection:Weld,Clamp
Pressure range:1000PSI、2000PSI



气动执行器 Pneumatic actuator

缸体：铝合金（其他请咨询）
气源压力：4-8 bar
环境温度：-20°C+ 80°C（其他请咨询）
气源介质：过滤后的压缩空气或者其他惰性气体
选项：两位三通或两位五通电磁阀，电子或物理指示器，定位器，过滤减压阀，手动离合器
Body:Aluminum alloy(Others on request)
Pilot pressure:4-8 bar
Temperature of the environment:-20°C up to+ 80°C(Others on request)
Pilot media:Filtered compressed air or other inert gases
option:3/2-ways or 5/2-ways solenoid valve,electronic or physical indicators,locator,filter pressure reducer,manual clutch

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选项 Options

阀体材质：304SS,316SS,316L
内件材质：304SS,316SS,316L
阀座密封：PTFE,TFM,RPTFE（其他请咨询）
阀杆填料：PTFE,TFM,RPTFE
Body：304SS,316SS,316L
Trim：304SS,316SS,316L
Seat：PTFE,TFM,RPTFE(Others on request)
Packing：PTFE,TFM,RPTFE



电动执行器 Electric actuator

可选电压：220VAC,380VAC,24VDC（其他请咨询）
环境温度：-20°C+ 60°C
防护等级：IP67
标准设备:两限位开关,物理指示器,手动控制,开关型+干接点
选项：除湿加热器,过力矩保护,4-20mA调节,Exd II BT 4,更多要求请咨询
Optional voltage:220VAC,380VAC,24VDC(Others on request)
Temperature of the environment:-20°C up to+ 80°C
Protection:IP 67
Standard equipment:2 additional limit switches, optical position indicator, manual override, On/Off+Limit switch
option:Dehumidification heater,overtorque protection,modulante type 4-20mA,Exd IIB T4,more requests please contact

选型说明 Model code

1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 10
A150 B D 6 6 P P J H 15

1. 产品类型 Product

A150 三片式卫生级球阀 3PC sanitary ball valve

2. 控制方式 Control

A	手动控制 Manual
B	气控角行程活塞式铝缸体标准型 Pneumatic aluminum cylinder
P	电控基本型角行程 The basic type rotary electric control

3. 驱动形式 Type of actuator

L	手把式 Lock lever
U	ISO5211手把式 ISO5211 lock lever
D	双动 Double acting
S	单动常闭 Single acting normally close
P	单动常开 Single acting normally open
E	220VAC电动开关 Electric ON/OFF
F	24VDC电动开关 Electric ON/OFF
M	380VAC电动开关 Electric ON/OFF
G	220VAC电动调节 Electric modulante
H	24VDC电动调节 Electric modulante
J	380VAC电动调节 Electric modulante
K	220VAC电动开关防爆 Explosion-proof electric ON/OFF
N	24VDC电动开关防爆 Explosion-proof electric ON/OFF
Q	380VAC电动开关防爆 Explosion-proof electric ON/OFF
R	220VAC电动调节防爆 Explosion-proof electric modulante
T	24VDC电动调节防爆 Explosion-proof electric modulante
V	380VAC电动调节防爆 Explosion-proof electric modulante

4. 阀体材质 Body

4	304SS
6	316SS
8	316L

5. 内件材质 Trim

4	304SS
6	316SS
8	316L

6. 密封材质 Seat

P	PTFE
T	TFM
R	RPTFE

7. 填料材质 Packing

P	PTFE
T	TFM
R	RPTFE

8. 设计压力 Pressure

J	1000PSI
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9. 接口形式 Connection

B	对焊 Butt weld
H	卡箍 clamp

10. 阀门口径 Caliber

13	1/2"	18	2"
14	3/4"	19	2 1/2"
15	1"	20	3"
16	1 1/4"	21	4"
17	1 1/2"		

1. 不锈钢阀门内件与阀体为同一材质。
2. 阀轴密封一般和球面密封材料一致。
3. 1000PSI是指球阀的阀体的耐压标准,而不是阀门的实际工作压力。

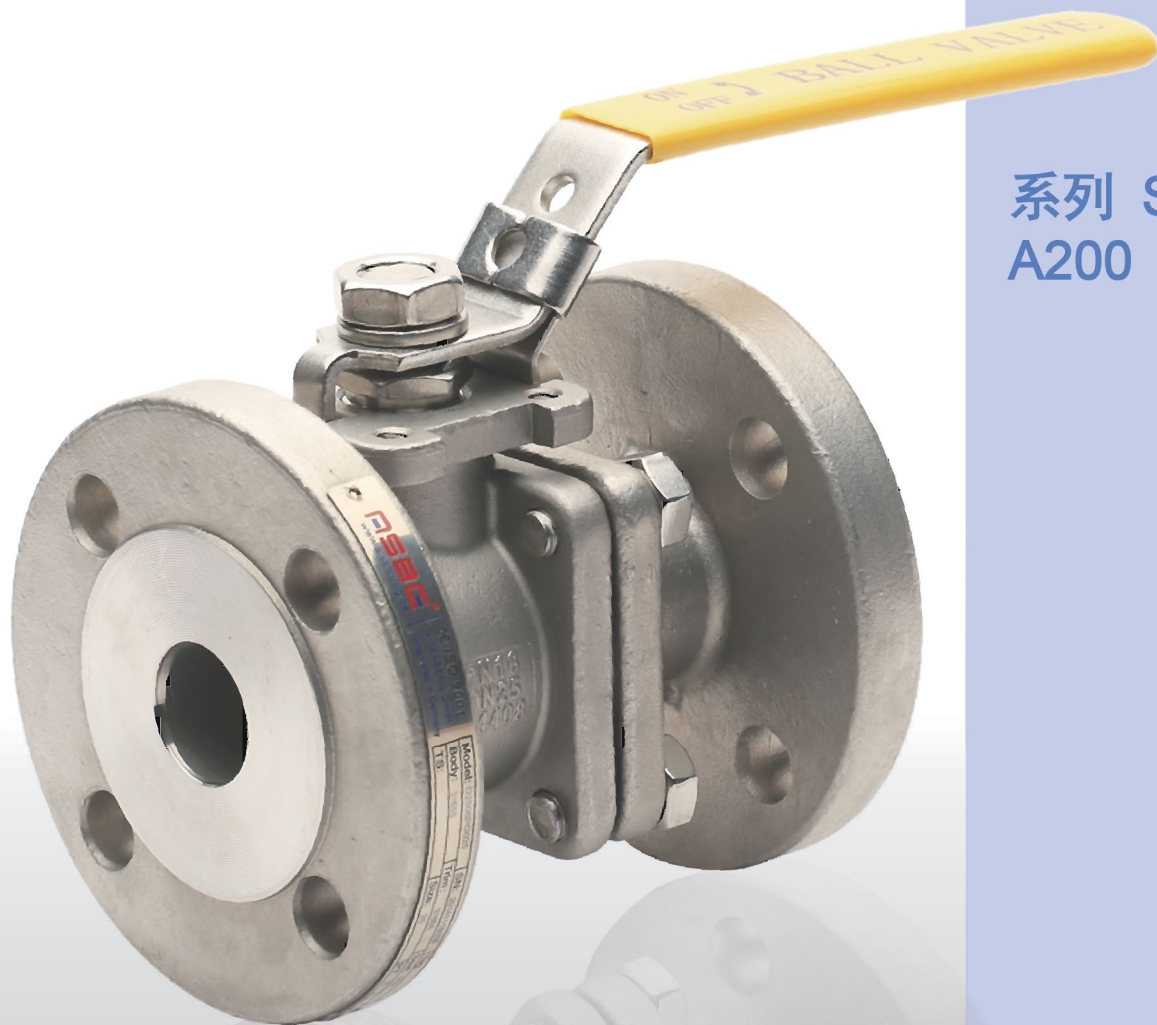
1. Stainless steel valve member within the valve body for the same material.
2. The valve shaft seals are generally consistent and spherical sealing materials.
3. 1000PSI pressure refers to the standard ball valve body, rather than the actual working pressure of the valve.

- 以上为标准选型, 特殊要求请咨询本公司技术部。

The above is the standard selection, special requirements, please contact our technical department.

二片式法兰球阀

2PC Flange ball valve



系列 Series
A200

AISENBERG A200系列法兰式球阀采用浮动式球体，能降低操作扭矩，延长使用期限。此类结实耐用的球阀专用于工业应用。

AISENBERG A200 flanged series ball valves feature a floating ball design for low torque and increased cycle life. These rugged ball valves are ideal for industrial applications.

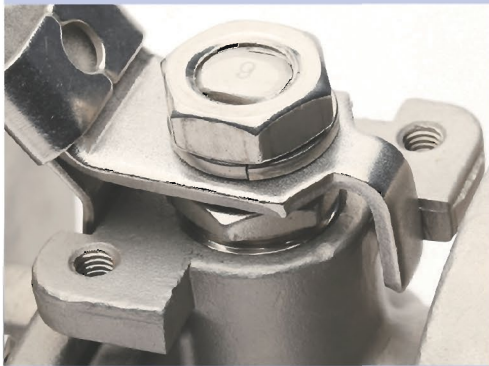
连接方式
Connection

- 德标法兰 DIN Flange
- 美标法兰 ANSI Flange
- 国标法兰 GB Flange

工作温度
Temperature

• - 40 °C - +250 °C

特点 Feature



防火安全型 Fire safe

AISENBERG的法兰式系列阀门提供石墨阀杆填料，在极端环境下，也能达到最高级的防火安全标准。如在烟火中，过高的温度损害了密封弹性阀座，球体会与经书阀体直接接触，行程第二级密封，阀体阀盖之间密封为不锈钢和石墨构成的石墨不锈钢丝缠绕垫圈，能防止泄露。石墨的阀杆填料能防止阀杆泄露。
AISENBERG's flanged series valves with graphite stem packing meet the highest fire safety standards under extreme conditions. In the event of a fire, after heat destroys the primary resilient seat, the ball makes contact with the secondary metal seat, forming a secure seal. The body seal, composed of Stainless Steel and Graphite wound into a spiral, prevents external leakage. The Graphite stem rings prevent stem leakage.

阀杆密封 Stem seals

A200系列阀门提供活动加载式，具有自动调节的双重密封。独有的蝶形垫片设计，使阀杆可自动调整至平衡位置来适应温度的变化和日常的磨损。AISENBERG的阀门专门提供一个单独的填料压盖，不需要重新移动其他部件，就可自动进行调整。填料压盖的设计，能够更均匀分散经过密封圈的流体压力。第一重密封是由轴密封构成。而可调节的阀杆填料在阀杆和阀体之间形成了第二重密封。阀杆填料的标准配置为RPTFE（增强聚四氟乙烯），由一组V型垫圈叠加而成。所有防火型阀门的标准配置是石墨阀杆填料。

A200 Series valves feature live-loaded, self-adjusting primary and secondary sealing. Utilizing belleville washers, the stem seal automatically adjusts to compensate for changes in temperature and normal wear. AISENBERG valves utilize an independent packing gland which can be easily adjusted without removing mounting hardware or operator. The packing gland is contoured to more uniformly distribute the load across the packing.

The primary seal is a thrust washer. An adjustable stem packing creates a secondary seal between the stem and body. The stem packing is composed of RPTFE V-rings as standard – graphite stem packing is standard on all Fire Safe valves.

阀体 Body

不锈钢阀体采用精密铸造工艺，经固溶退火，确保高性能，且能承受更大强度压力。碳钢阀体表面经黑色磷化处理，防腐防锈。每件阀体铸件印有铸造厂的炉号，以备质量追溯。

valve bodies are investment cast and solution annealed/normalized for the highest quality and added strength. All body castings are marked with a foundry heat number for full traceability. Carbon Steel bodies are phosphate coated for increased corrosion resistance.

阀杆 Stem

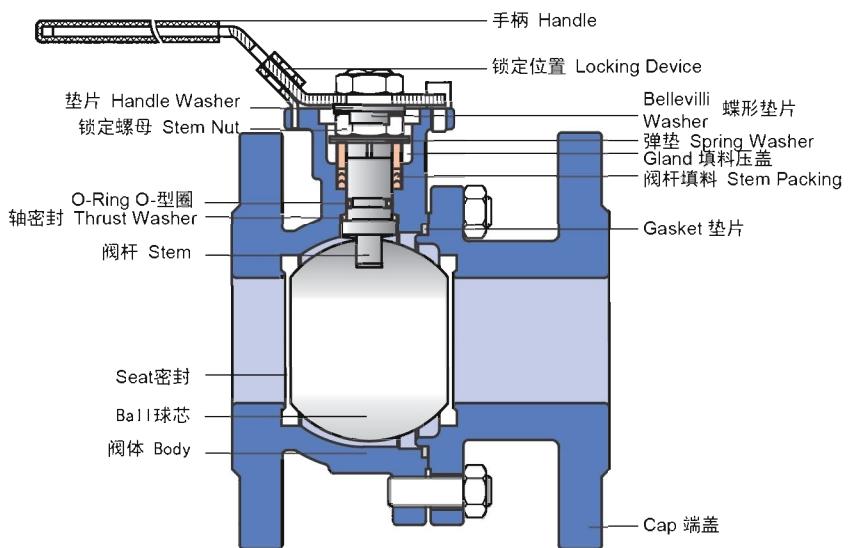
AISENBERG 制造能承载重负载，高质量阀杆。阀杆采用双“D”结构连接球体和操作机构。球体与阀杆精确配合，所有AISENBERG阀杆都是有阀体内部装入，可以防止阀杆被吹出，防吹式阀杆的设计增大了安全系数。

AISENBERG manufactures heavy duty, high quality stems with double “D” connection to ball and operator mounting. Stems are mated with the ball to ensure positive contact. All Aisenberg stems are internal entry and blowout proof for maximum safety.

阀座 Seat

阀座设计在确保操作扭矩的同时，保持双向零泄漏。所有弹性阀座外径上都有泄压槽，来降低经过入口端的流体压力，同事具备良好的预加负荷来保证低压真空密封。

Seat design ensures bidirectional, bubble-tight sealing with low operating torque. All resilient seats feature relief slots or seat O.D. clearance to relieve pressure past the upstream seat, and positive preloading to ensure low pressure/vacuum sealing.

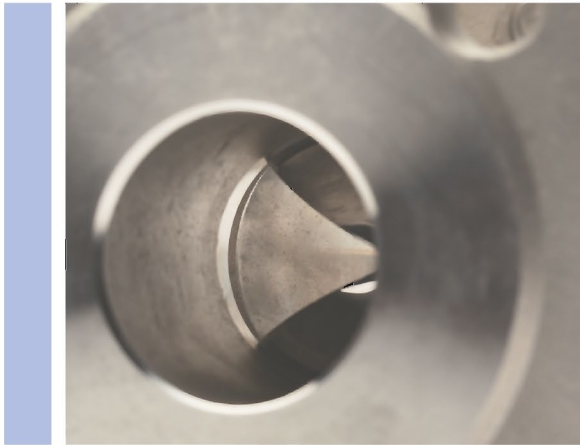


球体 Ball

球体经精密机械加工，且经过镜面抛光。确保零泄漏，操作扭矩小。此外，还有一个额外增加的安全特性，即每个球体阀杆槽中设有一个孔，当阀门处于开启位置时，可使阀腔和流体之间的压力均等。

Balls are precision machined and mirror finished for bubbletight shut off and less operating torque. As an added safety feature, a hole in the stem slot of each ball equalizes pressure between the body cavity and the line media flow.

先进的V形控制球阀 V-Control ball options



标准的圆形通道球阀一直被用于，并将继续被用于多种控制用途，如用于需要适度压降的工况。现在，随着AISENBERG的V形球阀的诞生，已可提供具备出色的流量控制的，全系列的控制球阀。与其他公司提供的同等尺寸的截止阀和分段控制阀相比，这些90°开关控制阀的结构更为紧凑，重量更为轻便，价格更为经济实惠。因装有先进的数控执行机构以及球阀固有的优势，AISENBERGV形球阀对控制指令反应迅速。这些阀门超过了六级密封等级，气泡关闭密封时为零泄漏。其他特点还包括超大的可调范围和重复性能，大流量，能在含有附体和纤维的流体中作业，易于维护，易于PLC界面和计算机指令相兼容等。

Standard round ported ball valves have been used, and continue to be used, for many control applications such as services involving moderate pressure drops. Now, with the development of AISENBERG's characterized V-balls, a full range of control applications is available with superior flow control. These 1/4 turn control ball valves are more compact, lighter weight and much less expensive than comparably sized globe valves and segmented control valves offered by other companies. AISENBERG control valves offer fast response times to control signals due to advanced digital control of actuation and the inherent strengths of ball valves. These valves exceed Class VI offering bubble tight shut off with zero leakage. Other features include superior rangeability and repeatability, high flow capacity, the ability to function with fluids containing solids and fibers, ease of maintenance and exceptional interface with PLCs and computer command signals.

增强的线性反应 Increased linear response

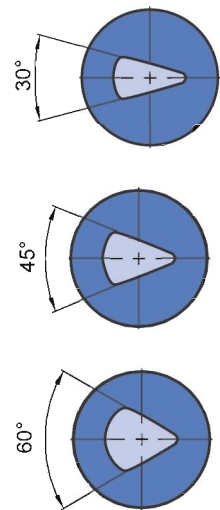
由于线性设计的固有特性配合控阀的特点，管道介质得以呈线性状流管道系统。这种设计增强了对介质的控制，以及对控制指令的快速反应。

Due to the in-line design inherent with characterized control ball valves, line media flows linearly through the piping system. The direct pattern provides increased media control and rapid response times to controller commands.

优良的控制特性 Exceptional characterized Control

AISENBERG的V形球阀能够对球阀下游提供预期的和精确地流量控制。这些切割精确地V形球阀可与截止阀的控制性能媲美，且具有经济实惠，体积小，重量轻的球阀特点。AISENBERG可提供多种V形端口槽形端口的球体。60°端口球体，像标准圆孔球体一样，提供等百分比流量的特点。槽形球体和V形球体有一个小的打开角度，30°球体，具有改进的等百分比流量特性。

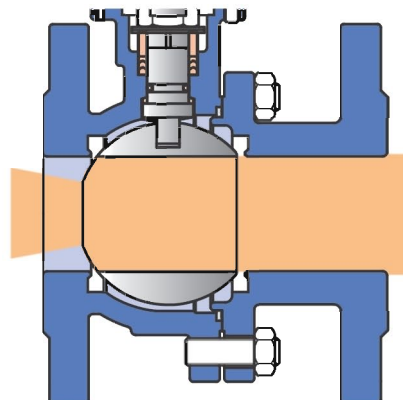
AISENBERG's characterized balls provide predictable and accurate control of downstream flow rates. These precision cut balls match the control performance of globe valves while offering the economy, features and reduced size and weight of ball valves. Aisenberg offers a wide range of V-Port and Slotted Port characterized balls. The 60° balls, like standard round hole balls, offer an equal percentage inherent flow characteristic. A slotted ball and a V-Port ball with a small angle opening. medium angle V-Port valves such as a 30° ball furnish a modified equal percentage inherent flow characteristic.



流量大 High flow capacity

AISENBERG 控制提供最大化流量，与相同尺寸的截止阀比，实际上要大得多。控制球阀固有的形态，能提高流速，在很多应用中，即使球阀口径小于管道尺寸，亦可使用。球阀阀座与球的自洁功能可使球阀被用于泥浆和多纤维介质工况中。

AISENBERG's control ball valves have been designed to offer maximum flow characteristics that are substantially higher than comparably sized globe valves. The inherent flow pattern of ball valves increases flow rates and in many applications valves smaller than pipeline size can be used. The self-cleaning action of the ball against the seat makes the ball valve acceptable for slurry and high fiber media services.



二片式法兰球阀

2-PC Flange ball Valve

A 200

www.aisenberg.de

产品简介 Product introduction

两片式结构漏点少,浮动球芯结构,经济实用,适用于绝大多数工况。

Two structure leak less, floating ball core structure, economical and practical, suitable for most conditions.

设计和特点 Design and Features

操作:手把式、气动、电动

连接标准:德标法兰,美标法兰,国标法兰

压力范围:PN16/150LB,PN25,PN40/300LB

Operation:Handle ,Pneumatic ,Electric

Connection standard:DIN,ANSI,GB

Pressure range:PN16/150LB,PN25,PN40/300LB



气动执行器 Pneumatic actuator

缸体:铝合金(其他请咨询)

气源压力:4-8 bar

环境温度:-20°C+ 80°C(其他请咨询)

气源介质:过滤后的压缩空气或者其他惰性气体

选项:两位三通或两位五通电磁阀,电子或物理指示器,定位器,过滤减压阀,手动离合器

Body:Aluminum alloy(Others on request)

Pilot pressure:4-8 bar

Temperature of the environment:-20°C up to+ 80°C(Others on request)

Pilot media:Filtered compressed air or other inert gases

option:3/2-ways or 5/2-ways solenoid valve,electronic or physical indicators,locator,filter pressure reducer,manual clutch

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选项 Options

球芯类型:标准,30°球芯,45°球芯,60°球芯,半球

阀体材质:碳钢,304SS,316SS,316L

内件材质:304SS,316SS,316L

阀座密封:PTFE,TFM,PEEK(其他请咨询)

阀杆填料:PTFE,TFM,PEEK

Type of valves:Standard,30°ball,45°ball,60°ball,eccentric ball

Body:WCB,304SS,316SS,316L

Trim:304SS,316SS,316L

Seat:PTFE,TFM,PEEK(Others on request)

Packing:PTFE,TFM,PEEK



电动执行器 Electric actuator

可选电压:220VAC,380VAC,24VDC(其他请咨询)

环境温度:-20°C+ 60°C

防护等级:IP67

标准设备:两限位开关,物理指示器,手动控制,开关型+干接点

选项:除湿加热器,过力矩保护,4-20mA调节,Exd II BT 4,更多要求请咨询

Optional voltage:220VAC,380VAC,24VDC(Others on request)

Temperature of the environment:-20°C up to+ 80°C

Protection:IP 67

Standard equipment:2 additional limit switches, optical position

indicator, manual override, On/Off+Limit switch

option:Dehumidification heater,overtorque protection,modulante type

4-20mA,Exd IIB T4,more requests please contact

选型说明 Model code

1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 10
A200 B D 6 6 P P B D 15

1. 产品类型 Product

A200	二片式法兰球阀 2-PC flange ball valve
A201	二片式法兰30°V型球阀 2-PC flange 30 ° V-ball valve
A202	二片式法兰45°V型球阀 2-PC flange 45 ° V-ball valve
A203	二片式法兰60°V型球阀 2-PC flange 60 ° V-ball valve

2. 控制方式 Control

A	手动控制 Manual
B	气控角行程活塞式铝缸体标准型 Pneumatic aluminum cylinder
P	电控基本型角行程 The basic type rotary electric control

3. 驱动形式 Type of actuator

L	手把式 Lock lever
U	ISO5211手把式 ISO5211 lock lever
W	手轮式 Handwheel
D	双动 Double acting
S	单动常闭 Single acting normally close
P	单动常开 Single acting normally open
E	220VAC电动开关 Electric ON/OFF
F	24VDC电动开关 Electric ON/OFF
M	380VAC电动开关 Electric ON/OFF
G	220VAC电动调节 Electric modulante
H	24VDC电动调节 Electric modulante
J	380VAC电动调节 Electric modulante
K	220VAC电动开关防爆 Explosion-proof electric ON/OFF
N	24VDC电动开关防爆 Explosion-proof electric ON/OFF
Q	380VAC电动开关防爆 Explosion-proof electric ON/OFF
R	220VAC电动调节防爆 Explosion-proof electric modulante
T	24VDC电动调节防爆 Explosion-proof electric modulante
V	380VAC电动调节防爆 Explosion-proof electric modulante

4. 阀体材质 Body

2	WCB
4	304SS
6	316SS
8	316L

5. 内件材质 Trim

4	304SS
6	316SS
8	316L

6. 密封材质 Seal

P	PTFE
T	TFM
K	PEEK

7. 填料材质 Packing

P	PTFE
T	TFM
K	PEEK

8. 设计压力 Pressure

B	PN16/150LB
C	PN25
D	PN40/300LB

9. 接口形式 Connection

A	美标法兰 ANSI flange
C	国标法兰 GB flange
D	德标法兰 DIN flange

10. 阀门口径 Caliber

13	1/2"	19	21/2"
14	3/4"	20	3"
15	1"	21	4"
16	1 1/4"	22	5"
17	1 1/2"	23	6"
18	2"	24	8"

1. 不锈钢阀门内件与阀体为同一材质。碳钢阀门阀体为碳钢，内件为304SS不锈钢。
2. 阀杆填料材质和密封材质一致。
3. V型60°球芯球阀开口为最接近等百分比流量曲线。
1. Stainless steel valve member within the valve body for the same material. Carbon steel valve body is carbon steel, stainless steel trim for 304SS.
2. Stem packing material and sealing material consistent
3. V-ball core valve opening 60 ° to the nearest equal percentage flow curve.

● 以上为标准选型，特殊要求请咨询本公司技术部。

The above is the standard selection, special requirements, please contact our technical department.

三通球阀

3-Way ball valve

ASEG[®]
Aisenberg GmbH & Fluid Control

系列 Series
A220/A130

连接方式 Connection

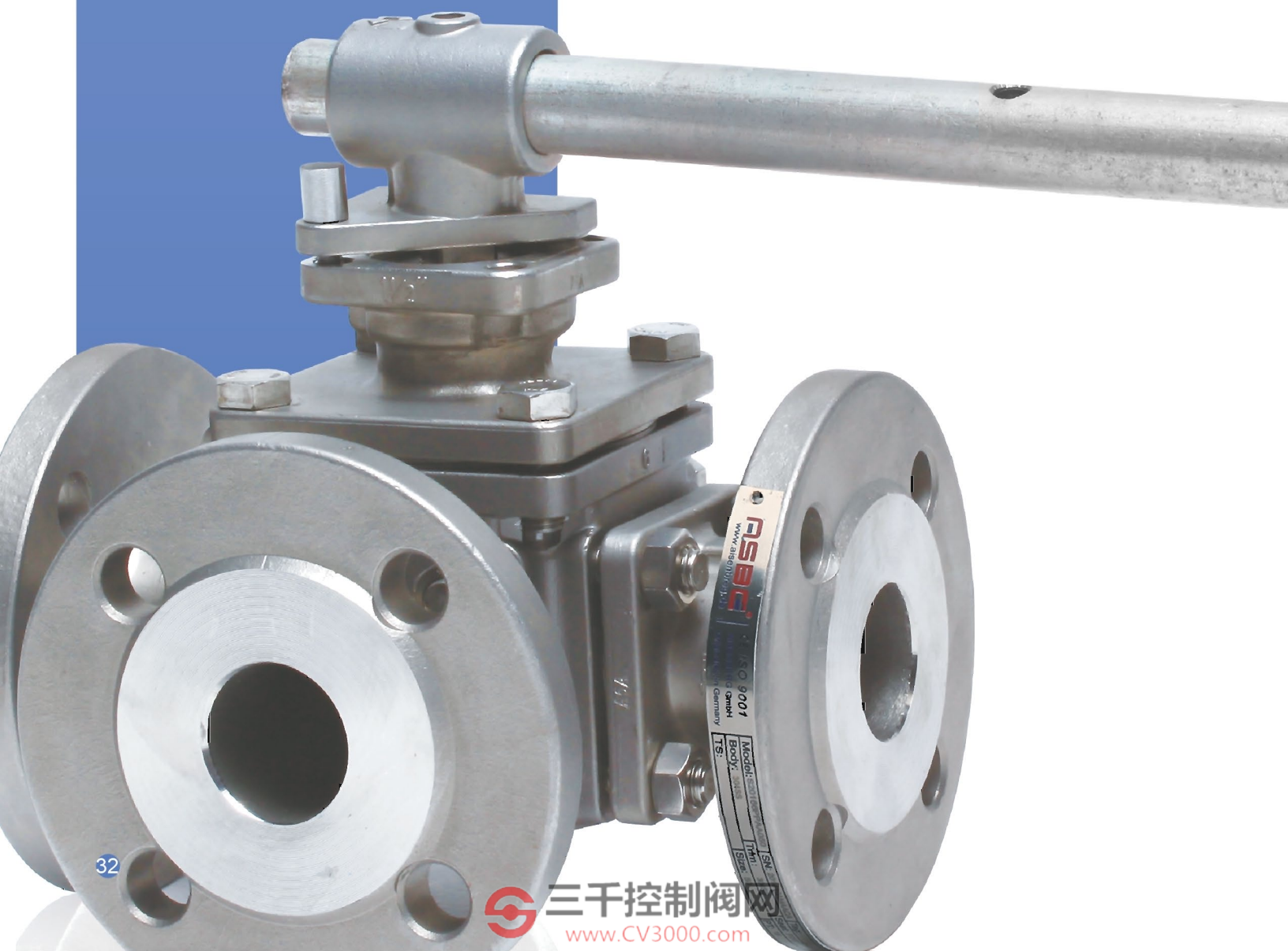
- G螺纹 G thread
- NPT螺纹 NPT thread
- 对焊 Bult weld
- 承插焊 Socket weld
- 法兰 Flange

工作温度 Temperature

- - 40 °C - +250 °C

经济实用的多通径阀门
既具有多流向的控制功能又
具有开关阀的特性，排除了
使用多个阀门和额外的开关
阀的必要性。

Cost effective Multiport
Series ball valves feature
multidirectional control
combined with shutoff
capacity in one valve. Valve
duplication and the need for
an extra shutoff valve are
eliminated.



特点 Feature

标准应用 Standard applications

混合通道介质

介质向不同的方向分流

使介质避开过滤器，仪表，热交换器等

引导介质从储存罐中排出或流进

关闭来自不同流向的介质

Mixing or blending of line medias

Diversion of flow to different locations

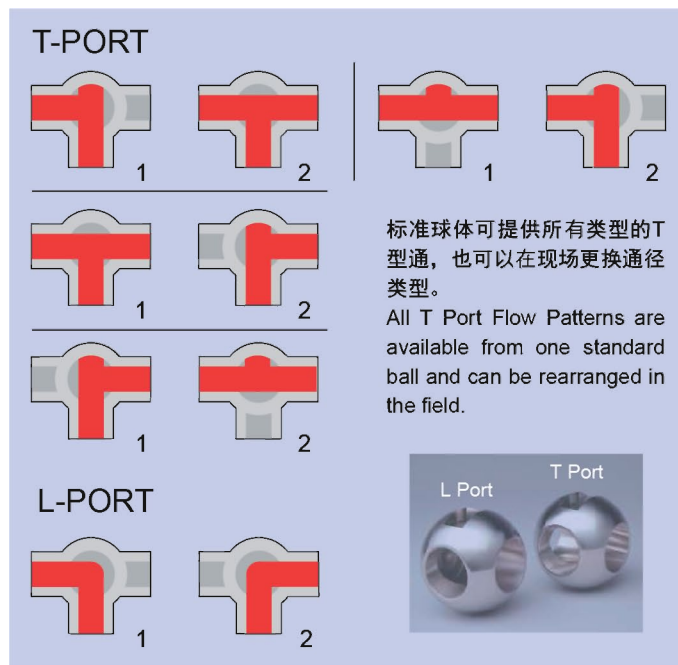
Bypass of flow around strainers, meters, heat exchangers, etc.

Direct flow out of or into storage tanks

Shutoff flow from different directions



球芯类型 Type of valves



互换性特性 Interchangeability

许多部件，包括球，阀杆，阀座，阀杆密封和阀体密封都可以在同一个规格不同类型的阀门中互换。

Many parts including balls, stems, seats, and stem and body seals are interchangeable between different models of the same size valve.

阀座选择 Seat selection

有多种阀座材料可供选择，可以满足绝大多数工况要求。标准阀座配置为PTFE。还可以选择RPTFE，TFM和PEEK。AISENBERG阀座在高温高循环和蒸汽工况中可提供较低的扭矩和较长使用寿命。

A wide range of seat materials are available to meet most applications. The standard seat is PTFE. Options include RPTFE, TFM and PEEK. AISENBERG seats offer reduced torque in high temperature, high cycle, and steam service applications.

阀杆密封 Stem seals

AISENBERG阀门都具有活动加载式阀杆密封以确保密封性。利用蝶型弹簧垫片和阀杆密封可自动调节来适应温度变化和日常磨损。阀门提供一级和二级阀杆密封。第一级密封是由一个止推垫片和氟橡胶O型圈组成的。第二级密封在阀门的上部形成了在阀杆和阀体之间可调节的阀杆密封。AISENBERG valves all feature a live-loaded stem packing assembly for positive stem sealing. Utilizing belleville washers, the stem seal automatically adjusts to compensate for changes in temperature and normal wear. The valves also offer primary and secondary stem sealing. The primary seal is a thrust washer and O-ring assembly. The adjustable stem packing creates a secondary seal between the stem and body in the upper stem journal area.

球体/阀杆 Ball/Stem

球与阀杆的连接方式的设计确保了两者之间的稳固连接。1/4"-2"阀门的阀杆与球有小销钉连接，2-1/2"-6"阀杆和球是固定的一体式结构。所有阀杆提供防吹出保护。球体经精密机加工和抛光，确保气泡级关闭密封和较低的操作扭矩。AISENBERG球体的边缘经机加工，以减少阀座磨损和延长工作年限。

The ball and stem connection is designed to ensure a positive connection. 1/4"-2" valve stems are pinned, 2 1/2"-6" stems and balls are one-piece with trunnion mounting. All stems offer blow-out proof protection. Balls are precision machined and mirror finished for bubble-tight shutoff with less operating torque. AISENBERG balls have machined edges to reduce seat wear providing a high life cycle.



产品简介 Product introduction

三通球阀，适用于介质的分流或者换向。

3-Way ball valve for diversion medium or commutation.

设计和特点 Design and Features

操作:手把式、手轮式、气动、电动

连接标准:德标法兰,美标法兰,国标法兰,螺纹,焊接

压力范围:PN16/150LB,PN25,PN40/300LB,1000PSI

Operation:Handle,Handwheel,Pneumatic,Electric

Connection standard:DIN,ANSI,GB,Thread,Weld

Pressure range:PN16/150LB,PN25,PN40/300LB,1000PSI



气动执行器 Pneumatic actuator

缸体:铝合金(其他请咨询)

气源压力:4-8 bar

环境温度:-20°C+ 80°C(其他请咨询)

气源介质:过滤后的压缩空气或者其他惰性气体

选项:两位三通或两位五通电磁阀,电子或物理指示器,定位器,过滤减压阀,手动离合器

Body:Aluminum alloy(Others on request)

Pilot pressure:4-8 bar

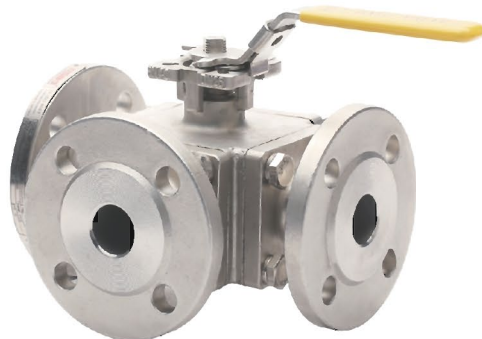
Temperature of the environment:-20°C up to+ 80°C(Others on request)

Pilot media:Filtered compressed air or other inert gases

option:3/2-ways or 5/2-ways solenoid valve,electronic or physical indicators,locator,filter pressure reducer,manual clutch

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选项 Options

球芯类型:L型,T型

阀体材质:碳钢,304SS,316SS,316L

内件材质:304SS,316SS,316L

阀座密封:PTFE,TFM,PEEK(其他请咨询)

阀杆填料:PTFE,TFM,PEEK

Type of valves:L port,T port

Body:WCB,304SS,316SS,316L

Trim:304SS,316SS,316L

Seat:PTFE,TFM,PEEK(Others on request)

Packing:PTFE,TFM,PEEK



电动执行器 Electric actuator

可选电压:220VAC,380VAC,24VDC(其他请咨询)

环境温度:-20°C+ 60°C

防护等级:IP67

标准设备:两限位开关,物理指示器,手动控制,开关型+干接点

选项:除湿加热器,过力矩保护,4-20mA调节,Exd II BT 4,更多要求请咨询

Optional voltage:220VAC,380VAC,24VDC(Others on request)

Temperature of the environment:-20°C up to+ 80°C

Protection:IP 67

Standard equipment:2 additional limit switches, optical position indicator, manual override, On/Off+Limit switch

option:Dehumidification heater,overtorque protection,modulante type 4-20mA,Exd IIB T4,more requests please contact

选型说明 Model code

1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 10
A220 B D 6 6 P P B D 15

1. 产品类型 Product

A220	三通L型法兰球阀 3-way flange ball valve "L" port
A221	三通T型法兰球阀 3-way flange ball valve "T" port

2. 控制方式 Control

A	手动控制 Manual
B	气控角行程活塞式铝缸体标准型 Pneumatic aluminum cylinder
P	电控基本型角行程 The basic type rotary electric control

3. 驱动形式 Type of actuator

L	手把式 Lock lever
U	ISO5211手把式 ISO5211 lock lever
W	手轮式 Handwheel
D	双动 Double acting
S	单动常闭 Single acting normally close
P	单动常开 Single acting normally open
E	220VAC电动开关 Electric ON/OFF
F	24VDC电动开关 Electric ON/OFF
M	380VAC电动开关 Electric ON/OFF
G	220VAC电动调节 Electric modulante
H	24VDC电动调节 Electric modulante
J	380VAC电动调节 Electric modulante
K	220VAC电动开关防爆 Explosion-proof electric ON/OFF
N	24VDC电动开关防爆 Explosion-proof electric ON/OFF
Q	380VAC电动开关防爆 Explosion-proof electric ON/OFF
R	220VAC电动调节防爆 Explosion-proof electric modulante
T	24VDC电动调节防爆 Explosion-proof electric modulante
V	380VAC电动调节防爆 Explosion-proof electric modulante

4. 阀体材质 Body

2	WCB
4	304SS
6	316SS
8	316L

5. 内件材质 Trim

4	304SS
6	316SS
8	316L

6. 密封材质 Seat

P	PTFE
T	TFM
K	PEEK

7. 填料材质 Packing

P	PTFE
T	TFM
K	PEEK

8. 设计压力 Pressure

B	PN16/150LB
C	PN25
D	PN40/300LB

9. 接口形式 Connection

A	美标法兰 ANSI flange
C	国标法兰 GB flange
D	德标法兰 DIN flange

10. 阀门口径 Caliber

13	1/2"	19	21/2"
14	3/4"	20	3"
15	1"	21	4"
16	1 1/4"	22	5"
17	1 1/2"	23	6"
18	2"		

1. 不锈钢阀门内件与阀体为同一材质。碳钢阀门阀体为碳钢，内件为304SS不锈钢。
2. 阀杆填料材质和密封材质一致。
1. Stainless steel valve member within the valve body for the same material. Carbon steel valve body is carbon steel, stainless steel trim for 304SS.
2. Stem packing material and sealing material consistent.

● 以上为标准选型，特殊要求请咨询本公司技术部。

The above is the standard selection, special requirements, please contact our technical department.

选型说明 Model code

1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 10
A130 B D 6 6 P P J G 15

1. 产品类型 Product

A130	三通L型球阀 3-way thread ball valve "L" port
A131	三通T型球阀 3-way thread ball valve "T" port

2. 控制方式 Control

A	手动控制 Manual
B	气控角行程活塞式铝缸体标准型 Pneumatic aluminum cylinder
P	电控基本型角行程 The basic type rotary electric control

3. 驱动形式 Type of actuator

L	手把式 Lock lever
U	ISO5211手把式 ISO5211 lock lever
D	双动 Double acting
S	单动常闭 Single acting normally close
P	单动常开 Single acting normally open
E	220VAC电动开关 Electric ON/OFF
F	24VDC电动开关 Electric ON/OFF
M	380VAC电动开关 Electric ON/OFF
G	220VAC电动调节 Electric modulante
H	24VDC电动调节 Electric modulante
J	380VAC电动调节 Electric modulante
K	220VAC电动开关防爆 Explosion-proof electric ON/OFF
N	24VDC电动开关防爆 Explosion-proof electric ON/OFF
Q	380VAC电动开关防爆 Explosion-proof electric ON/OFF
R	220VAC电动调节防爆 Explosion-proof electric modulante
T	24VDC电动调节防爆 Explosion-proof electric modulante
V	380VAC电动调节防爆 Explosion-proof electric modulante

4. 阀体材质 Body

2	WCB
4	304SS
6	316SS
8	316L

5. 内件材质 Trim

4	304SS
6	316SS
8	316L

● 以上为标准选型，特殊要求请咨询本公司技术部。

The above is the standard selection, special requirements, please contact our technical department.

6. 密封材质 Seat

P	PTFE
T	TFM
R	RPTFE

7. 填料材质 Packing

P	PTFE
T	TFM
R	RPTFE

8. 设计压力 Pressure

J	1000PSI
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9. 接口形式 Connection

G	G螺纹 G thread
B	对焊 Butt weld
N	NPT螺纹 NPT thread
S	承插焊 Socket weld

10. 阀门口径 Caliber

11	1/4"	17	1 1/2"
12	3/8"	18	2"
13	1/2"		
14	3/4"		
15	1"		
16	1 1/4"		

1. 不锈钢阀门内件与阀体为同一材质。碳钢阀门阀体为碳钢，内件为304SS不锈钢。
2. 阀轴密封一般和球面密封材料一致。
3. 1000PSI 是指球阀的阀体的耐压标准,而不是阀门的实际工作压力。
1. Stainless steel valve member within the valve body for the same material. Carbon steel valve body is carbon steel, stainless steel trim for 304SS.
2. The valve shaft seals are generally consistent and spherical sealing materials.
3. 1000PSI pressure refers to the standard ball valve body, rather than the actual working pressure of the valve.

法兰V型半球球阀

Flange ball valve

V-hemisphere



系列 Series
A250

连接方式 • 德标法兰 DIN Flange
Connection • 美标法兰 ANSI Flange
• 国标法兰 GB Flange

工作温度 • -40℃ - +250℃
Temperature

AISENBERG A250是一种多用途V型调节球阀，专门设计用于不同行业内的节流或切断应用，包括造纸、化工、电力、石油和天然气以及采矿等。

AISENBERG A250 is a versatile V type regulating valve, specially designed for throttling the different industries or cut application, including papermaking, chemical, electric power, petroleum and natural gas and mining etc..

特点Feature

A250是独特的V型球体，提供较大的调节范围并采用花键连接阀杆，控制精确，用于易于维护的V型球-阀杆组件、低摩擦的阀杆与滑动轴承结构，使用寿命更长，一体式执行器安装平台以及可互换的阀座。The valve features a characterized ball segment for high rangeability with splined stem connection for precise control, maintenance friendly segment-stem assembly, low friction shaft and thrust bearings for longer life, integral actuator mounting pads, and interchangeable seats.

阀体Body

- 一体式设计，提供了更好的刚性，可承受管道载荷。
- 消除了两体式阀体设计的泄漏问题。
- One-piece body design which offers greater rigidity against fluctuating pipe loads.
- Eliminates the leak path associated with two piece body designs.

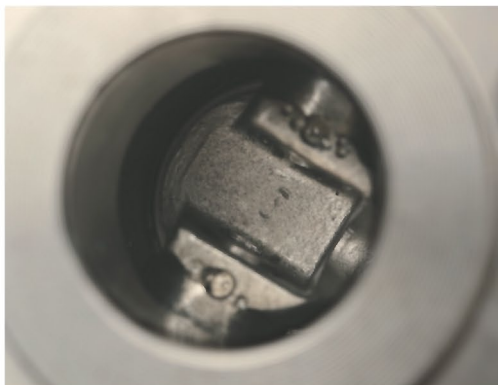
球体-阀杆连接Ball – Stem connection seat

- 阀杆与球体采用花键紧密配合连接，具有高强度，可消除阀杆滞回或死区。
- 完美定向，独特设计的轴销有利于V型球体的自动对准，同时在例行保养过程中简化装配和拆卸操作。
- Close-fit splined connection between stem and the segment offers extra strength with no lost motion or dead band.
- Perfectly oriented, specially designed shaft pin facilitates self- alignment of the ball segment while simplifying the assembly and disassembly during routine maintenance.

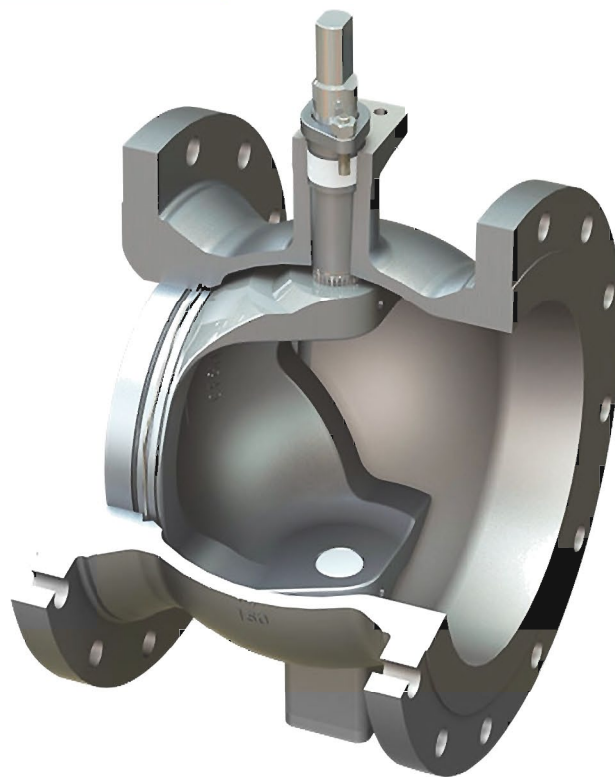
阀座Seat

- 自动预紧阀座设计，即使在非常低的压差下也能提供极好的密封。
- 自动定心阀座不受外部管道负载影响，即使在恶劣工况下也能提供极好的密封。
- 标准金属阀座经硬化处理，在316不锈钢基材上堆焊有硬质合金。
- 标准软密封阀座设计采用PTFE材料，耐化学性和耐热性好。
- Pressure energized seat design offers excellent sealing even at very low differential pressures.
- Self-aligning seat is independent of external pipe loads and offers excellent sealing even in adverse conditions.
- Standard metal seat has hard-faced seat surface with Stellite overlay on 316 SS base material.
- Standard soft seat design uses PTFE® to maintain exceptional chemical and heat resistance.

V型球Ball segment



- 设计精巧，具有独特的V型端口，提供超过300:1的可调范围，是高浓度纸浆或泥浆节流流的理想选择。
- 带圆角的精细研磨球面，降低金属阀座的操作扭矩。
- 硬质涂层球面防止磨损。
- V型球体设计精巧，优化流量。
- 阀座在高开度时支撑稳固，可防止阀门摇摆和故障。
- Carefully designed with characterized V-port to offer rangeability in excess of 300:1, ideal for throttling applications in high consistency pulp services or slurry applications.
- Perfectly ground spherical surface with rounded edges ensure lower operating torques for metal seated valves.
- Hard coated spherical surface prevents galling.
- The segment is carefully designed for optimum flow.
- The seat is supported during higher openings to prevent rocking motion and possible failure of the valve.



产品简介 Product introduction

V型半球球阀采用整体式的设计，结构紧凑，坚固耐用，避免了连接而造成的泄漏。

The V-hemisphere valve adopts the integral design, compact structure, firm and durable, avoids leakage caused by the connection.

设计和特点 Design and Features

操作:手把式、手轮式、气动、电动

连接标准:德标法兰,美标法兰,国标法兰

压力范围:PN16/150LB,PN25,PN40/300LB

Operation:Handle,Handwheel,Pneumatic,Electric

Connection standard:DIN,ANSI,GB

Pressure range:PN16/150LB,PN25,PN40/300LB



选项 Options

球芯类型:半球

阀体材质:碳钢,304SS,316SS,316L

内件材质:304SS,316SS,316L

阀座密封:PTFE,TFM,PEEK(其他请咨询)

阀杆填料:PTFE,TFM,PEEK

Type of valves:Hemisphere ball

Body:WCB,304SS,316SS,316L

Trim:304SS,316SS,316L

Seat:PTFE,TFM,PEEK(Others on request)

Packing:PTFE,TFM,PEEK

气动执行器 Pneumatic actuator

缸体:铝合金(其他请咨询)

气源压力:4-8 bar

环境温度:-20°C+ 80°C(其他请咨询)

气源介质:过滤后的压缩空气或者其他惰性气体

选项:两位三通或两位五通电磁阀,电子或物理指示器,

定位器,过滤减压阀,手动离合器

Body:Aluminum alloy(Others on request)

Pilot pressure:4-8 bar

Temperature of the environment:-20°C up to+ 80°C(Others on request)

Pilot media:Filtered compressed air or other inert gases

option:3/2-ways or 5/2-ways solenoid valve,electronic or physical

indicators,locator,filter pressure reducer,manual clutch

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电动执行器 Electric actuator

可选电压:220VAC,380VAC,24VDC(其他请咨询)

环境温度:-20°C+ 60°C

防护等级:IP67

标准设备:两限位开关,物理指示器,手动控制,开关型+干接点

选项:除湿加热器,过力矩保护,4-20mA调节,Exd II BT 4,更多要求请咨询

Optional voltage:220VAC,380VAC,24VDC(Others on request)

Temperature of the environment:-20°C up to+ 80°C

Protection:IP 67

Standard equipment:2 additional limit switches, optical position

indicator, manual override, On/Off+Limit switch

option:Dehumidification heater,overtorque protection,modulante type

4-20mA,Exd IIB T4,more requests please contact

选型说明 Model code

1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 10
A250 B D 6 6 P P B D 15

1. 产品类型 Product

A250 法兰V型半球球阀 Flange ball valve V-hemisphere

2. 控制方式 Control

A	手动控制 Manual
B	气控角行程活塞式铝缸体标准型 Pneumatic aluminum cylinder
P	电控基本型角行程 The basic type rotary electric control

3. 驱动形式 Type of actuator

L	手把式 Lock lever
U	ISO5211手把式 ISO5211 lock lever
W	手轮式 Handwheel
D	双动 Double acting
S	单动常闭 Single acting normally close
P	单动常开 Single acting normally open
E	220VAC电动开关 Electric ON/OFF
F	24VDC电动开关 Electric ON/OFF
M	380VAC电动开关 Electric ON/OFF
G	220VAC电动调节 Electric modulante
H	24VDC电动调节 Electric modulante
J	380VAC电动调节 Electric modulante
K	220VAC电动开关防爆 Explosion-proof electric ON/OFF
N	24VDC电动开关防爆 Explosion-proof electric ON/OFF
Q	380VAC电动开关防爆 Explosion-proof electric ON/OFF
R	220VAC电动调节防爆 Explosion-proof electric modulante
T	24VDC电动调节防爆 Explosion-proof electric modulante
V	380VAC电动调节防爆 Explosion-proof electric modulante

4. 阀体材质 Body

2	WCB
4	304SS
6	316SS
8	316L

5. 内件材质 Trim

4	304SS
6	316SS
8	316L

6. 密封材质 Seal

P	PTFE
T	TFM
K	PEEK

7. 填料材质 Packing

P	PTFE
T	TFM
K	PEEK

8. 设计压力 Pressure

B	PN16/150LB
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9. 接口形式 Connection

A	美标法兰 ANSI flange
C	国标法兰 GB flange
D	德标法兰 DIN flange

10. 阀门口径 Caliber

15	1"	21	4"
16	1 1/4"	22	5"
17	1 1/2"	23	6"
18	2"	24	8"
19	2 1/2"	25	10"
20	3"		

1. 不锈钢阀门内件与阀体为同一材质。碳钢阀门阀体为碳钢，内件为304SS不锈钢。
2. 阀杆填料材质和密封材质一致。
1. Stainless steel valve member within the valve body for the same material. Carbon steel valve body is carbon steel, stainless steel trim for 304SS.
2. Stem packing material and sealing material consistent.

● 以上为标准选型，特殊要求请咨询本公司技术部。

The above is the standard selection, special requirements, please contact our technical department.

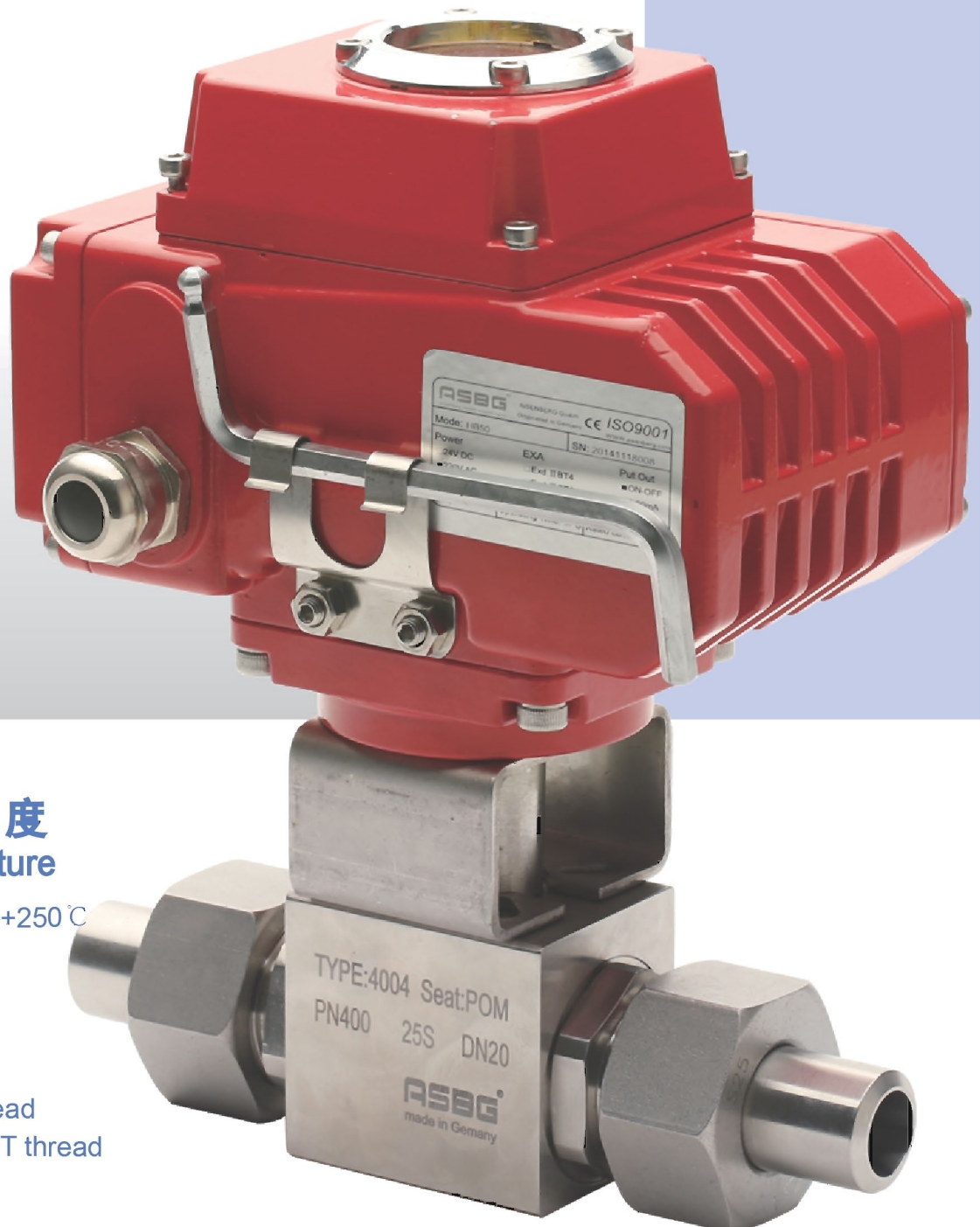
高压球阀

High pressure ball valve

系列 Series A400

A400系列为三片式阀体设计，三片式设计该特点为维护及安装提供了方便。A400的阀体为标准的316不锈钢，符合NACE标准。每个阀体上都铸有一个材料出炉编号可供查询。

A400 series is a three piece body design, the characteristics of three piece design provides convenience for the maintenance and installation. A400 valve is a standard 316 stainless steel, in line with the NACE standard. Every body is cast with a material released number available for query.



工作温度 Temperature

- - 40 °C - +250 °C

连接方式 Connection

- G螺纹 G thread
- NPT螺纹 NPT thread
- 焊接 Weld
- 卡套 Tube

特点 Feature

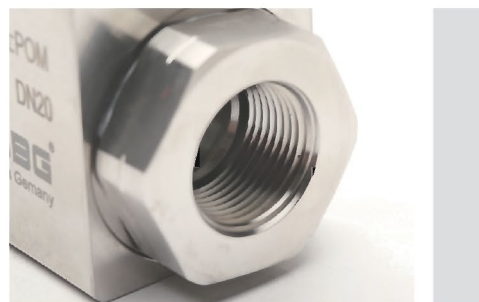


浮动式球芯设计提供了正向气泡级密封，低扭矩平稳的操作。另外还有可选的手柄或指示器，行程限位，可替换的阀座及密封圈的优点。锁定装置可以确保阀保持在任意开度位置。

A floating ball design provides a positive, bubble tight shut off with smooth quarter turn operation at low operating torque. Additional Instrumentation Series advantages include a choice of lever or pointer handles, travel limit stop pins and replaceable seats and seals. Locking kits which secure the valve in a desired position are also available.

连接方式 Connection

此系列阀门提供多种端口的连接，满足客户多样化的安装方式。
This series of valves provide connections to various ports, to meet the diversified customer installation.



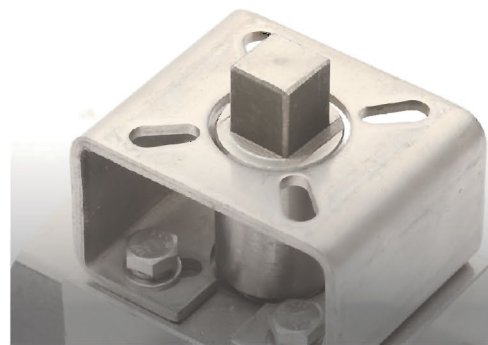
A400系列球阀所有部件均为锻件,采用下装式阀杆,设置倒密封结构,确保填料处可靠密封及防止阀杆脱出。采用镶嵌式阀座。阀座背后设置O型圈,确保介质不外漏。

A400 series valve all components are forging, by downloading the stem, setting back seal structure, to ensure reliable sealing and preventing the valve stem stuffing prolapsed. The use of mosaic type valve seat. A valve seat arranged behind the O - ring, to ensure that the media does not leak.

安装平台 Secure mount

316不锈钢的安装支架确保牢固安装执行机构。控制设备可以简便安全地在阀门全压工作状态下拆除。安装平台设计符合ISO5211标准。

The mounting bracket of 316SS stainless steel ensure firmly installed actuator. The control device can be easily and safely removed at full pressure under the operating state of the valve. Installation of platform design conforms to the ISO5211 standard.



产品简介 Product introduction

用于高压气体或者液压系统。所有高压球阀都满足气泡级关断密封，精密机加工球体和阀座确保阀门绝对不漏。独特的防吹出阀杆设计不会受到高压介质的任何影响。

For the high-pressure gas or hydraulic system. All high-pressure valve are met bubble-off seals, precision machined valve ball and seat to ensure absolutely no leakage. The unique anti-blow-out stem design will not be affected in any high-pressure media.

设计和特点 Design and Features

操作:手把式、气动、电动

连接标准:螺纹、焊接、卡套

压力范围:PN250-500

Operation:Handle ,Pneumatic ,Electric

Connection standard:thread,weld,tube

Pressure range:PN250-500



气动执行器 Pneumatic actuator

缸体：铝合金（其他请咨询）

气源压力：4-8 bar

环境温度：-20°C+ 80°C（其他请咨询）

气源介质：过滤后的压缩空气或者其他惰性气体

选项：两位三通或两位五通电磁阀，电子或物理指示器，定位器，过滤减压阀，手动离合器

Body:Aluminum alloy(Others on request)

Pilot pressure:4-8 bar

Temperature of the environment:-20°C up to+ 80°C(Others on request)

Pilot media:Filtered compressed air or other inert gases

option:3/2-ways or 5/2-ways solenoid valve,electronic or physical indicators,locator,filter pressure reducer,manual clutch

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The above information is intended for guidance only and the company reserves the right to change any date herein without prior notice



选项 Options

阀体材质：碳钢,304SS,316SS

内件材质：304SS,316SS

阀座密封：POM,PEEK

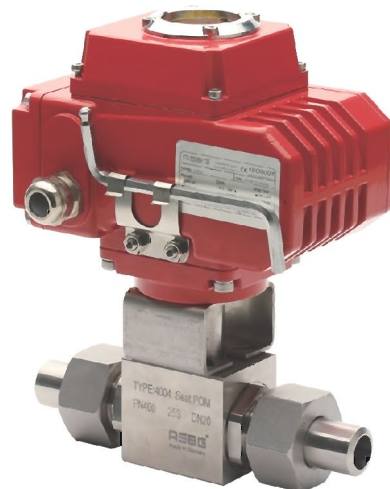
阀杆填料：POM,PEEK

Body：A105,304SS,316SS

Trim：304SS,316SS

Seat：POM,PEEK

Packing：POM,PEEK



电动执行器 Electric actuator

可选电压：220VAC,380VAC,24VDC（其他请咨询）

环境温度：-20°C+ 60°C

防护等级：IP67

标准设备:两限位开关, 物理指示器, 手动控制, 开关型+干接点

选项: 除湿加热器, 过力矩保护, 4-20mA调节, Exd II BT 4, 更多要求请咨询

Optional voltage:220VAC,380VAC,24VDC(Others on request)

Temperature of the environment:-20°C up to+ 80°C

Protection:IP 67

Standard equipment:2 additional limit switches, optical position indicator, manual override, On/Off+Limit switch

option:Dehumidification heater,overtorque protection,modulante type 4-20mA,Exd IIB T4,more requests please contact

选型说明 Model code

1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 10 — 11
A400 B D 6 6 M M M B 15 38S*7-SS

1. 产品类型 Product

A400 高压球阀 High pressure ball valve

2. 控制方式 Control

A	手动控制 Manual
B	气控角行程活塞式铝缸体标准型 Pneumatic aluminum cylinder
P	电控基本型角行程 The basic type rotary electric control

3. 驱动形式 Type of actuator

L	手把式 Lock lever
U	ISO5211
D	双动 Double acting
S	单动常闭 Single acting normally close
P	单动常开 Single acting normally open
E	220VAC电动开关 Electric ON/OFF
F	24VDC电动开关 Electric ON/OFF
M	380VAC电动开关 Electric ON/OFF
G	220VAC电动调节 Electric modulante
H	24VDC电动调节 Electric modulante
J	380VAC电动调节 Electric modulante
K	220VAC电动开关防爆 Explosion-proof electric ON/OFF
N	24VDC电动开关防爆 Explosion-proof electric ON/OFF
Q	380VAC电动开关防爆 Explosion-proof electric ON/OFF
R	220VAC电动调节防爆 Explosion-proof electric modulante
T	24VDC电动调节防爆 Explosion-proof electric modulante
V	380VAC电动调节防爆 Explosion-proof electric modulante

4. 阀体材质 Body

2	A105
4	304SS
6	316SS

5. 内件材质 Trim

4	304SS
6	316SS

6. 密封材质 Seat

M	POM
K	PEEK

7. 填料材质 Packing

M	POM
K	PEEK

8. 设计压力 Pressure

G	PN250
M	PN350
H	PN420
N	PN500

9. 接口形式 Connection

G	G螺纹 G thread
B	对焊 Butt weld
N	NPT螺纹 NPT thread
K	卡套 Tube

10. 阀门口径 Caliber

11	1/4"	15	1"
12	3/8"	16	1 1/4"
13	1/2"	17	1 1/2"
14	3/4"	18	2"

1. 不锈钢阀门内件与阀体为同一材质。碳钢阀门阀体为碳钢，内件为304SS不锈钢。
2. 阀杆填料材质和密封材质一致。
3. 接管为卡套或者焊接时，需要确认接管连接尺寸。后缀带SS焊接管为316SS，后缀带S焊接管为304SS，无后缀则为碳钢焊接管。焊管标准尺寸见“焊管/卡套选型”
1. Stainless steel valve member within the valve body for the same material. Carbon steel valve body is carbon steel, stainless steel trim for 304SS.
2. Stem packing material and sealing material consistent.
3. Takeover of card sets or welding is required to confirm takeover dimensions. Suffix with SS welded pipe for 316SS, with the S suffix welded pipe for 304SS, carbon steel welded pipe, compared with no suffix. Standard pipe dimensions, see "Pipe/Tube selection "

● 以上为标准选型，特殊要求请咨询本公司技术部。

The above is the standard selection, special requirements, please contact our technical department.

焊管/卡套选型 Pipe/Tube selection

口径	球阀 型号	接管型号	带螺母接管型号	工作压力bar	螺母尺寸
DN6	8L	SKV08*1.5	SKVM-L08*1.5	400	M14*1.5
		SKV08*2.0	SKVM-L08*2.0		
	10S	SKV10*1.5	SKVM-S10*1.5		M18*1.5
		SKV10*2.0	SKVM-S10*2.0		
DN8	10L	SKV10*1.5	SKVM-L10*1.5	400	M16*1.5
		SKV10*2.0	SKVM-L10*2.0		
	12S	SKV12*1.5	SKVM-S12*1.5		M20*1.5
		SKV12*2.0	SKVM-S12*2.0		
		SKV12*2.5	SKVM-S12*2.5		
		SKV12*3.0	SKVM-S12*3.0		
DN10	12L	SKV12*1.5	SKVM-L12*1.5	400	M18*1.5
		SKV12*2.0	SKVM-L12*2.0		
	14S	SKV14*2.0	SKVM-S14*2.0		M22*1.5
		SKV14*2.5	SKVM-S14*2.5		
DN13	15L	SKV15*1.5	SKVM-L15*1.5	315	M22*1.5
		SKV15*2.0	SKVM-L15*2.0		
	18L	SKV18*2.0	SKVM-L18*2.0	315	M26*1.5
		SKV18*2.5	SKVM-L18*2.5		
	16S	SKV16*2.0	SKVM-S16*2.0	400	M24*1.5
		SKV16*2.5	SKVM-S16*2.5		
DN16	18L	SKV18*2.0	SKVM-L18*2.0	315	M26*1.5
		SKV18*2.5	SKVM-L18*2.5		
	20S	SKV20*2.0	SKVM-S20*2.0	400	M30*2
		SKV20*2.5	SKVM-S20*2.5		
		SKV20*3.0	SKVM-S20*3.0		
		SKV20*3.5	SKVM-S20*3.5		
DN20	22L	SKV22*2.5	SKVM-L22*2.5	250	M30*2
		SKV22*3.0	SKVM-L22*3.0		
	25S	SKV25*2.5	SKVM-S25*2.5	400	M36*2
		SKV25*3.0	SKVM-S25*3.0		
		SKV25*4.0	SKVM-S25*4.0		
		SKV25*5.0	SKVM-S25*5.0		

口径	球阀 型号	接管型号	带螺母接管型号	工作压力bar	螺母尺寸
DN25	28L	SKV28*2.5	SKVM-L28*2.5	250	M36*2
		SKV28*3.0	SKVM-L28*3.0		
	35L	SKV35*3.0	SKVM-L35*3.0	250	M45*2
		SKV35*4.0	SKVM-L35*4.0		
	30S	SKV30*3.0	SKVM-S30*3.0	400	M42*2
		SKV30*4.0	SKVM-S30*4.0		
		SKV30*5.0	SKVM-S30*5.0		
		SKV30*6.0	SKVM-S30*6.0		
	38S	SKV38*5.0	SKVM-S38*5.0	350	M52*2
		SKV38*6.0	SKVM-S38*6.0		
		SKV38*7.0	SKVM-S38*7.0		
DN32	42L	SKV42*4.0	SKVM-L42*4.0	250	M52*2
		SKV42*5.0	SKVM-L42*4.0		
	38S	SKV38*5.0	SKVM-S38*5.0	350	M52*2
		SKV38*6.0	SKVM-S38*6.0		
DN40	42L	SKV42*4.0	SKVM-L42*4.0	250	M52*2
		SKV42*5.0	SKVM-L42*4.0		

- 接管为焊接时,接管有壁厚区分,如接管型号为SKV08*1.5,则接管的壁厚为1.5。
- 以上为标准选型,特殊要求致电咨询。
- The takeover of welding, to take over the distinction between wall thickness and wall thickness as takeover model SKV08 * 1.5, the takeover was 1.5.
- The above selection criteria, the special requirements call.

系列 Series B100



B100系列阀门不仅拥有卫生级阀门特点，而且具有独特的内在流量特性和能力。AISENBERG B100系列是对夹式带法兰安装孔，B110系列是凸耳式用于管道末端服务和其他法兰要求，B120系列蝶阀是双法兰式设计，能应用于管线末端服务。AISENBERG阀门最主要的设计特点是具有国际化的兼容性。

The Series B100 butterfly valve not only surpasses the high standards required in sanitary valve applications, and inherent flow characteristics and capabilities. Aisenberg's Series B100 valve is a wafer version with flange locating holes, and the Series B110 is the companion lug version for dead-end service and other flange requirements. AISENBERG's Series B120 butterfly valve is a Double Flanged design which can be used for dead-end service. A major design advantage of AISENBERG valve product lines is international compatibility.

- 连接方式**
Connection
- 对夹式 Wafer
 - 凸耳式 LUG
 - 双法兰 Double Flange
 - 单法兰 Single Flange

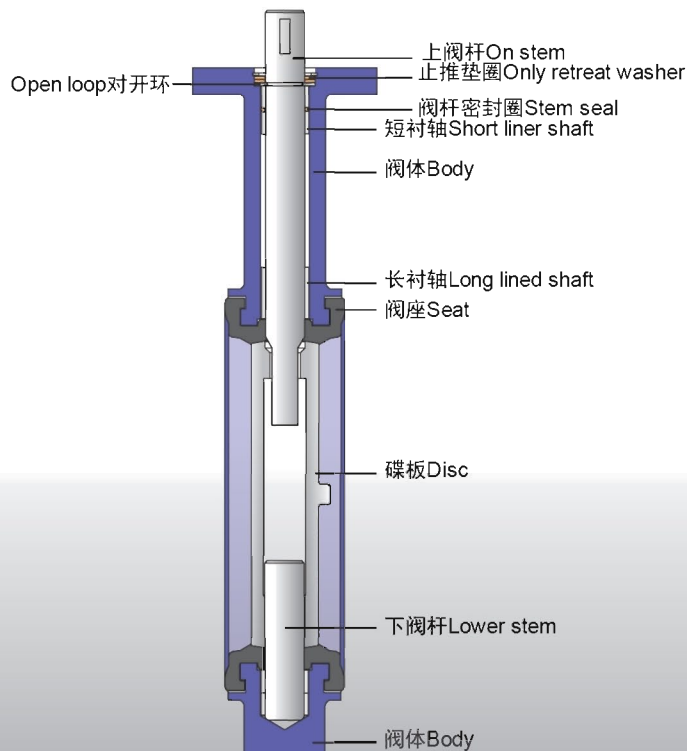


特点Feature

阀板/阀杆设计 Disc/Stem design

一片式设计，阀板边缘经球面加工和手工抛光，具有操作扭矩低、阀座使用寿命长和密封性能好的优点。应用在卫生领域，这样的设计完全防止收藏灰尘颗粒和细菌。阀杆和阀板表面也可以包一层丁腈橡胶或乙丙橡胶，防止金属表面侵蚀和腐蚀。阀板和阀杆的“薄板”设计，可以提高Cv值（比普通心轴穿透阀板高50%）和较大的压力恢复能力，所以具有较小的压力降，是节能阀门。

One-piece design. The disc edge is spherically machined and hand polished to produce a bubble-tight shutoff, minimum torque, and longer seat life. The disc/stem design inherently provides complete protection from particle entrapment and bacterial decay, protection that is required for sanitary performance. For superior erosion and abrasion resistance, the one-piece disc/stem is fully encased in either EPDM or BUNA-N. The thin disc profile provides a much higher Cv (up to 50% greater than most through-stem designs) and greater pressure recovery, thus resulting in lower pressure drops and a more energy-efficient valve.



阀座 Seat

AISENBERG独特的舌槽接合式阀座设计，能够完全把阀体与管内介质隔离。与其他同类阀门比较，它具有：阀座安装牢固，更换方便快捷，扭矩小的优点。阀座表面有模压成一体的O型环，不需要再安装时另加法兰垫片。

AISENBERG's tongue and groove seat design lowers torque and provides complete isolation of flowing media from the body. The seat also features a molded O-ring which eliminates the use of flange gaskets.

阀杆填料 Stem seal

自调式双“U”杯形填料设计，可保证双向绝对密封。防止外来物质进入阀杆腔内。

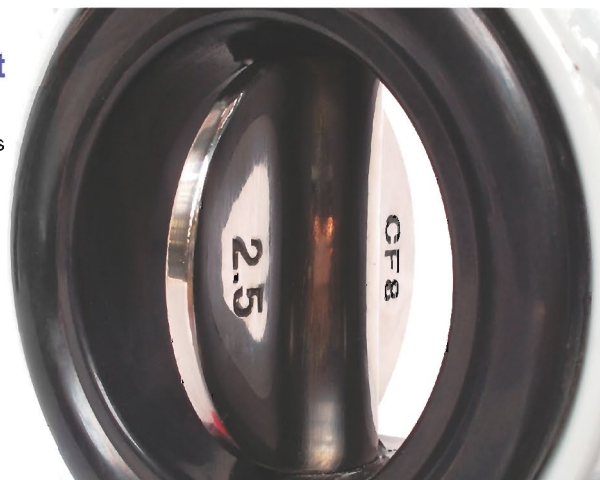
Double "U" cup seal design is self-adjusting and gives positive sealing in both directions and prevents external substances from entering the stem bore.

长/短衬轴 Long/short liner shaft

抗腐蚀。醇缩醛阀杆套能够吸收重负荷时的侧向推力。
Non-corrosive, heavy duty acetal bushing absorbs actuator side thrust.

阀体 Body

阀体分为两半，容易组装和维修。
Two-piece wafer or lug style allows for ease of assembly and maintenance.



中线蝶阀 | Butterfly valve | B100

www.aisenberg.de

产品简介 Product introduction

经济、结构简单。适用于绝大多数工业领域。

Economic, simple structure. Suitable for most industrial applications.

设计和特点 Design and Features

操作:手把式、手轮式、气动、电动

连接:对夹法兰、凸耳式、双法兰、单法兰

压力范围:PN10- PN16/150LB

Operation:Handle ,Handle Wheel ,Pneumatic ,Electric

Connection:Wafer flange,Lug, Double flange, Single flange

Pressure range:PN10- PN16/150LB



选项 Options

阀体材质: 球墨铸铁喷涂聚酯涂层,WCB,304SS,316SS,316L (其他请咨询)

内件材质: WCB表面镀镍,WCB表面镀尼龙,304SS,316SS,316L (其他请咨询)

阀座密封: NBR,EPDM,PTFE,Viton,Silicone

阀杆填料: PTFE

Body : Cast iron lined polyester coating,,WCB,304SS,316SS, 316L(Others on request)

Trim : WCB nickel plated,WCB lined nylon,304SS,316SS, 316L(Others on request)

Seat : NBR,EPDM,PTFE,Viton,Silicone

Packing : PTFE



气动执行器 Pneumatic actuator

缸体: 铝合金 (其他请咨询)

气源压力: 4-8 bar

环境温度: -20°C-+ 80°C (其他请咨询)

气源介质: 过滤后的压缩空气或者其他惰性气体

选项: 两位三通或两位五通电磁阀, 电子或物理指示器, 定位器, 过滤减压阀, 手动离合器

Body:Aluminum alloy(Others on request)

Pilot pressure:4-8 bar

Temperature of the environment:-20°C up to+ 80°C(Others on request)

Pilot media:Filtered compressed air or other inert gases

Option:3/2-ways or 5/2-ways solenoid valve,electronic or physical indicators,locator,filter pressure reducer,manual clutch

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The above information is intended for guidance only and the company reserves the right to change any date herein without prior notice

电动执行器 Electric actuator

可选电压: 220VAC,380VAC,24VDC (其他请咨询)

环境温度: -20°C-+ 60°C

防护等级: IP67

标准设备:两限位开关, 物理指示器, 手动控制, 开关型+干接点

选项: 除湿加热器, 过力矩保护, 4-20mA调节,Exd II BT 4,更多要求请咨询

Optional voltage:220VAC,380VAC,24VDC(Others on request)

Temperature of the environment:-20°C up to+ 80°C

Protection:IP 67

Standard equipment:2 additional limit switches, optical position indicator, manual override, On/Off+Limit switch

option:Dehumidification heater,overtorque protection,modulante type 4-20mA,Exd IIB T4,more requests please contact

选型说明 Model code

1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 10
B100 B D 6 6 P P B D 18

1. 产品类型 Product

B100	中线对夹式蝶阀 Butterfly valve wafer type
B110	中线凸耳式蝶阀 Butterfly valve LUG type
B120	中线双法兰蝶阀 Butterfly valve double flange type
B130	中线单法兰蝶阀 Butterfly valve single flange type

2. 控制方式 Control

A	手动控制 Manual
B	气控角行程活塞式铝缸体标准型 Pneumatic aluminum cylinder
P	电控基本型角行程 The basic type rotary electric control

3. 驱动形式 Type of actuator

L	手把式 Lock lever
U	ISO5211
W	手轮式 Handwheel
D	双动 Double acting
S	单动常闭 Single acting normally close
P	单动常开 Single acting normally open
E	220VAC电动开关 Electric ON/OFF
F	24VDC电动开关 Electric ON/OFF
M	380VAC电动开关 Electric ON/OFF
G	220VAC电动调节 Electric modulante
H	24VDC电动调节 Electric modulante
J	380VAC电动调节 Electric modulante
K	220VAC电动开关防爆 Explosion-proof electric ON/OFF
N	24VDC电动开关防爆 Explosion-proof electric ON/OFF
Q	380VAC电动开关防爆 Explosion-proof electric ON/OFF
R	220VAC电动调节防爆 Explosion-proof electric modulante
T	24VDC电动调节防爆 Explosion-proof electric modulante
V	380VAC电动调节防爆 Explosion-proof electric modulante

4. 阀体材质 Body

0	球墨铸铁喷涂聚酯涂层 Cast iron lined polyester coating	4	304SS
		6	316SS
2	WCB	8	316L

5. 内件材质 Trim

D	WCB表面镀镍 WCB nickel plated	4	304SS
		6	316SS
E	WCB表面镀尼龙 WCB lined nylon	8	316L

6. 密封材质 Seat

N	NBR	F	Viton
E	EPDM	S	Silicone
P	PTFE		

7. 填料材质 Packing

P	PTFE
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8. 设计压力 Pressure

A	PN10
B	PN16/150LB

9. 接口形式 Connection

D	德标法兰 DIN Flange
A	美标法兰 ANSI Flange

10. 阀门口径 Caliber

17	11/2"	25	10"
18	2"	26	12"
19	21/2"	27	14"
20	3"	28	16"
21	4"	29	18"
22	5"	30	20"
23	6"	31	24"
24	8"		

- 工作压力范围, DN40-DN200: PN16, DN250-DN600: PN10。PTFE密封工作压力为PN10。
- DN200以上中线蝶阀一般选用手轮驱动, PTFE密封的中线蝶阀一般在DN100以上选用手轮驱动。
- 阀杆填料为PTFE(双层PTFE的填料,自润滑结构)。
 - The working pressure range, DN40-DN200: PN16, DN250-DN600: PN10. PTFE sealing working pressure PN10.
 - DN200 above butterfly valve is generally used in handwheel drive, PTFE sealed butterfly valve DN100 more general selection handwheel drive.
- The stem packing is PTFE (double PTFE packing, self-lubricating structure).

● 以上为标准选型, 特殊要求请咨询本公司技术部。
The above is the standard selection, special requirements, please contact our technical department.

系列 Series B200

连接方式 Connection

- 对夹式 Wafer
- 凸耳式 LUG
- 双法兰 Double Flange

工作温度 Temperature

- -40 °C - +250 °C

双偏心蝶阀 High performance butterfly valve

AISENBERG很自豪的提供B200系列高性能蝶阀。其独特专利设计，一经推出就立即作为最好的产品应用于化学生产中。简单创新的设计，提供了坚固的可靠性及现场极易维修的性能。

AISENBERG is proud to offer the B200 series high performance butterfly valve. Its unique patented design, once launched immediately as the best product application in chemical production. Simple design innovation, provides performance reliability and field strong easy maintenance.



特点 Feature

阀板和阀杆双重偏心的设计

Double offset stem and disc design



阀板Disc

标准材料316不锈钢阀板，设计为可提供最大的流量，最小的流体阻力和Cv值。

The disc has been engineered to maximize flow and minimize resistance providing a high Cv. Stainless Steel is standard.

阀杆Stem

高强度，整体式阀杆采用17-4PH不锈钢材料。阀杆端部标准化设计，具有能够互换Aisenberg执行机构的特点。

The high-strength, one piece stem is 17-4 PH Stainless Steel. The valve stem is standardized for interchangeability of Aisenberg actuators.

防吹出阀杆Blow-out proof stem

在阀杆凹槽和填料压盖之间装有一个定位丫环，能保持阀杆定位。

A retaining ring is installed between the machined stem groove and gland retainer step.

阀座设计 Seat design

独特的两件式阀座结构，包括有一只弹性能器由阀座整个包裹着，该组件被一个表面修整的阀座定位器销紧在阀体凹槽处，这项简单可靠的设计，提供许多的优点，包括：

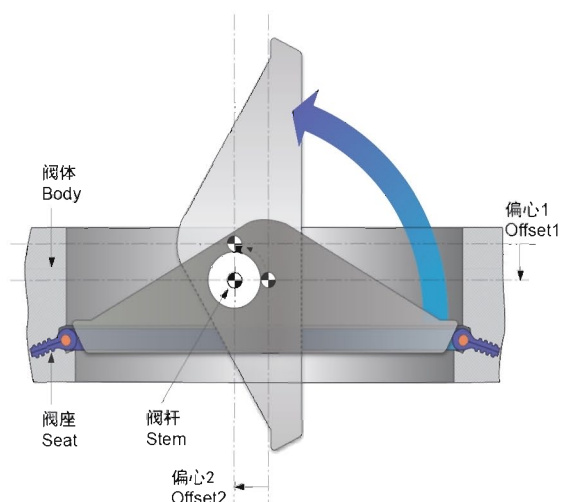
- 增能器被阀座完全隔离了管路介质。
- 无论阀座处于什么位置，阀体凹槽和阀座定位器上的锯齿都能使阀座固定。
- 全表面修整的阀座定位器采用螺栓连接阀体，将阀座锁定在正确的位置上，即使在没有配对法兰时，阀座也固定可靠。
- 密封可靠和具有良好的支撑能力的阀座，通过阀板和管路的压力来激发增能。管路压力越高，密封能力也越好，在较低压力和真空工况，这种增能阀座的设计，能提供更优越的密封性能，而且使用寿命更长。
- 对管路介质流体而言，提供了零泄漏双向密封功能。
- 阀座本身具有对温度变化和磨损情况的自我调节能力。

The unique, two-part seat assembly consists of a resilient energizer which is totally encapsulated by the seat. The assembly is locked in the body recess

AISENBERG 的双重偏心设计减少了阀座的磨损，保证了整个压力范围内的双向气密关闭功能。

在阀座开始的起始点，偏心阀板产生了一个类似凸轮的作用，不要过大的压力，便能牵引阀板离开阀座，阀板在起始位置的这个类似凸轮作用，降低阀座磨损，尽量减少了阀座的变形现象，阀门开启时，由于阀板不接触阀座，因此阀座的寿命延长，操作扭矩很小，阀门关闭时，这个类似凸轮的作用转换的回转运动为直行程运动，有效的推动阀板触及阀座，阀板对阀座的揩拭作用，避免了泥浆及悬浮固体等异物的积聚。

The double offset design of the AISENBERG assures reduced seat wear and bidirectional, zero leakage shut off throughout the full pressure range. At the initial point of disc opening, the offset disc produces a cam-like action, pulling the disc from the seat. This cam-like action reduces seat wear and eliminates seat deformation when the disc is in the open position. When open, the disc does not contact the seat, therefore seat service life is extended and operating torques are reduced. As the valve closes, the cam-like action converts the rotary motion of the disc to a linear type motion to effectively push the disc onto the seat. The wiping action of the disc against the seat prevents undesirable material build-up from slurries or suspended solids.



by a full-faced seat retainer. This simple, reliable and proven combination results in many exclusive advantages including:

- The energizer is completely isolated from all contact with the line media by the seat.
- Serrations in the seat retainer and body recess secure the seat assembly in place regardless of disc position.
- The full-faced retainer is bolted to the body, locking the seat in the correct position. The seat is secured even without the mating flange.
- The closely confined and well supported seat is energized by the disc and line pressure. The higher the pressure, the tighter the seal. In low pressure and vacuum applications, the energized seat offers superior sealing and longer service life than many other designs.
- Line media is sealed to zero-leakage in both directions.
- The seat is self-adjusting for wear and temperature changes.

双偏心蝶阀

HIGH PERFORMANCE BUTTERFLY VALVE

B 200

www.eicmotion.asia

产品简介 Product introduction

双偏心蝶阀采用模块化设计原理，该系统可以满足您对于操作可靠性、环保及成本效益方面的要求。压盖式安装的阀座，更换备件方便简单。唇式结构的弹性密封圈，具有自动补偿的功能，无论介质流动方向如何，偏心蝶阀总能保持优异的密封效果。

High performance butterfly modular design principle, for the system to meet your operational reliability, cost-effectiveness and environmental protection requirements. Gland-mounted seat, convenient and simple replacement of spare parts. Dense elastic lip ring structure, with automatic compensation function, regardless of the medium flow direction, eccentric butterfly can always maintain excellent sealing effect.

设计和特点 Design and Features

操作:手把式、手轮式、气动、电动

连接:对夹法兰、凸耳式、双法兰

压力范围:PN16/150LB、PN40/300LB

Operation:Handle ,Handle Wheel ,Pneumatic ,Electric

Connection:Wafer flange,Lug, Double flange

Pressure range:PN16/150LB、PN40/300LB



气动执行器 Pneumatic actuator

缸体：铝合金（其他请咨询）

气源压力：4-8 bar

环境温度：-20°C-+ 80°C（其他请咨询）

气源介质：过滤后的压缩空气或者其他惰性气体

选项：两位三通或两位五通电磁阀，电子或物理指示器，定位器，过滤减压阀，手动离合器

Body:Aluminum alloy(Others on request)

Pilot pressure:4-8 bar

Temperature of the environment:-20°C up to+ 80°C(Others on request)

Pilot media:Filtered compressed air or other inert gases

Option:3/2-ways or 5/2-ways solenoid valve,electronic or physical indicators,locator,filter pressure reducer,manual clutch

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选项 Options

阀体材质：WCB,304SS,316SS（其他请咨询）

内件材质：304SS,316SS（其他请咨询）

阀座密封：RPTFE,PEEK

阀杆填料：PTFE

Body：WCB,304SS,316SS,(Others on request)

Trim：304SS,316SS(Others on request)

Seat：RPTFE,PEEK

Packing：PTFE



电动执行器 Electric actuator

可选电压：220VAC,380VAC,24VDC（其他请咨询）

环境温度：-20°C-+ 60°C

防护等级：IP67

标准设备:两限位开关, 物理指示器, 手动控制, 开关型+干接点

选项:除湿加热器, 过力矩保护, 4-20mA调节,Exd II BT 4,更多要求请咨询

Optional voltage:220VAC,380VAC,24VDC(Others on request)

Temperature of the environment:-20°C up to+ 80°C

Protection:IP 67

Standard equipment:2 additional limit switches, optical position indicator, manual override, On/Off+Limit switch

option:Dehumidification heater,overtorque protection,modulante type 4-20mA,Exd IIB T4,more requests please contact

选型说明 Model code

1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 10
B200 B D 6 6 R R B D 18

1. 产品类型 Product	
B200	双偏心对夹式蝶阀 High performance butterfly valve wafer type
B210	双偏心凸耳式蝶阀 High performance butterfly valve LUG type
B220	双偏心双法兰蝶阀 High performance butterfly valve double flange type

2. 控制方式 Control	
A	手动控制 Manual
B	气控角行程活塞式铝缸体标准型 Pneumatic aluminum cylinder
P	电控基本型角行程 The basic type rotary electric control

3. 驱动形式 Type of actuator	
L	手把式 Lock lever
U	ISO5211
W	手轮式 Handwheel
D	双动 Double acting
S	单动常闭 Single acting normally close
P	单动常开 Single acting normally open
E	220VAC电动开关 Electric ON/OFF
F	24VDC电动开关 Electric ON/OFF
M	380VAC电动开关 Electric ON/OFF
G	220VAC电动调节 Electric modulante
H	24VDC电动调节 Electric modulante
J	380VAC电动调节 Electric modulante
K	220VAC电动开关防爆 Explosion-proof electric ON/OFF
N	24VDC电动开关防爆 Explosion-proof electric ON/OFF
Q	380VAC电动开关防爆 Explosion-proof electric ON/OFF
R	220VAC电动调节防爆 Explosion-proof electric modulante
T	24VDC电动调节防爆 Explosion-proof electric modulante
V	380VAC电动调节防爆 Explosion-proof electric modulante

4. 阀体材质 Body	
2	WCB
4	304SS
6	316SS

5. 内件材质 Trim	
4	304SS
6	316SS

6. 密封材质 Seat	
R	RPTFE
K	PEEK

7. 填料材质 Packing	
R	RPTFE
K	PEEK

8. 设计压力 Pressure	
B	PN16/150LB
D	PN40/300LB

9. 接口形式 Connection	
D	德标法兰 DIN Flange
A	美标法兰 ANSI Flange

10. 阀门口径 Caliber			
18	2"	25	10"
19	2 1/2"	26	12"
20	3"	27	14"
21	4"	28	16"
22	5"	29	18"
23	6"	30	20"
24	8"	31	24"

1. 碳钢阀体，阀板为304SS。其他配置阀板材料和阀体材料一致。

2. 手动蝶阀口径在DN100以上建议采用手轮驱动。

1. Carbon steel body, valve plate for 304SS. Other configurations of the valve plate material and the body material is consistent.

2. Manual butterfly valve DN100 above recommendations caliber handwheel drive.

● 以上为标准选型，特殊要求请咨询本公司技术部。

The above is the standard selection, special requirements, please contact our technical department.

内衬蝶阀 Lined butterfly valve

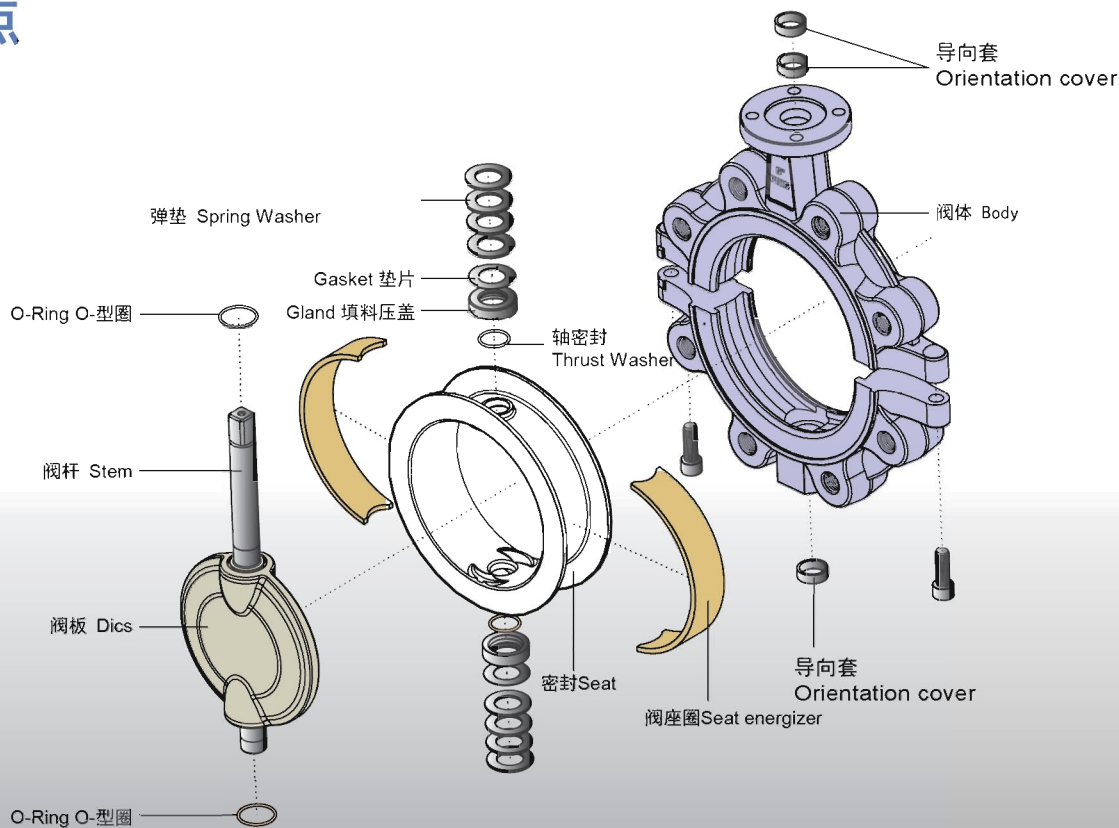
B400系列高性能蝶阀具有广泛的研究领域，提供了良好的密封保护功能和极高的Cv值。可提供的材料种类很多，例如PTFE、不锈钢，超高分子UHMWPE和特殊合金钢，可以满足客户的众多需求。AISENBERG高精度、优质的产品具有极大地使用寿命。

Extensive field research and engineering have developed this state-of-the-art design which provides excellent shut off protection (bubble-tight shut off) and high CV values. The Series B400 butterfly valve is crafted in a variety of materials such as PTFE, Stainless Steel, UHMWPE and special alloys to fit a wide range of customer requirements. As with all AISENBERG's products, precision manufacturing and exceptional quality remain the keys to a proven record of long service life.

- 连接方式**
Connection
- 对夹式 Wafer
 - 凸耳式 LUG
 - 双法兰 Double Flange
 - 单法兰 Single Flange



特点



阀座设计 Seat design

设计独特，具有力矩小，连接部位摩擦小的特性。阀座内部的加工曲面将阀板开、关时阀板和阀座之间的接触力减到最小。这种独特的阀座设计使阀门的力矩较小，同时也减少了阀座的摩擦。

The seat design reduces seating/unseating torque and, at the same time, reduces wear on the contacting parts. Curvatures machined into the inner seat area minimize contact forces between the disc and seat as the disc approaches, or opens from, the closed position. This unique seat geometry permits lower torques and reduces seat wear.

阀体 Body

对夹式和支耳式的两片式阀体结构，表面涂环氧树脂漆。所有阀体满足ASME Class 150和DIN 3840 压力等级流体力学要求。

Bodies are two piece wafer or lug style and are epoxy coated. All bodies meet full ASME Class 150 and DIN 3840 pressure ratings for hydrostatic requirements.



阀板 Disc

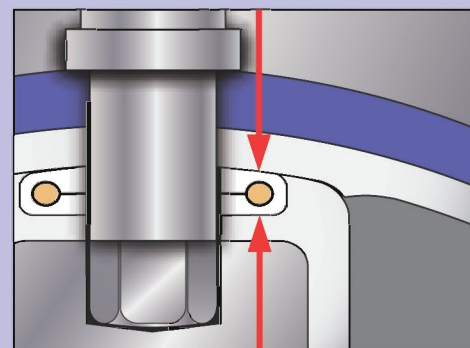
PTFE阀板最小厚度可达到3mm，PFA阀板最小厚度可达到2mm，纯PTFE可包覆不锈钢材料。

The PTFE disc has 3 mm minimum thickness of pure, The PFA disc has 2 mm minimum thickness of pure, virgin PTFE encapsulated over Stainless Steel.

阀座圈 Seat energizer

一个衬胶座圈完全环绕在阀座外面，包括阀板里部，确保阀门关闭时的气泡密封。

A resilient seat energizer extends completely around the seat, including the disc hub. This provides uniform force sufficient for bubble-tight shut off.



密封环 Seal capsule:

完全把流体介质和阀体、阀杆相隔离。密封环是由纯PTFE材料包覆在阀座圈表面。密封环被安装在阀板上下加工处的凹槽内，在阀门装配过程中，密封环受到阀板和阀座表面产生向上向下的压力。

This seal capsule fully isolates the valve body and stem from the line media. The Seal Capsule is made of a virgin PTFE enclosing the internal energizer. The capsule fits into grooves machined in upper and lower disc hubs. When compressed between the disc and seat during assembly, the capsule becomes energized, exerting both upward and downward pressure on disc and seat surfaces.

产品简介 Product introduction

根据ISO 5211独特设计的执行机构法兰面，使得阀门更加贴近执行机构，无阀杆外露。消除了液体或气体从外面渗入自润滑的聚四氟轴承，降低了摩擦和无需维护。

Unique design according to ISO 5211 actuator flange surface, making the valve closer to the implementing agency, no stem exposed. Eliminate infiltration of liquids or gases from the outside PTFE self-lubricating bearings, reducing friction and no maintenance.

设计和特点 Design and Features

操作:手把式、手轮式、气动、电动

连接:对夹法兰、凸耳式、双法兰、单法兰

压力范围:PN16/150LB

Operation:Handle ,Handle Wheel,Pneumatic,Electric

Connection:Wafer flange,Lug,Double flange, Single flange

Pressure range:PN16/150LB,



气动执行器 Pneumatic actuator

缸体:铝合金(其他请咨询)

气源压力:4-8 bar

环境温度:-20°C-+ 80°C(其他请咨询)

气源介质:过滤后的压缩空气或者其他惰性气体

选项:两位三通或两位五通电磁阀,电子或物理指示器,定位器,过滤减压阀,手动离合器

Body:Aluminum alloy(Others on request)

Pilot pressure:4-8 bar

Temperature of the environment:-20°C up to+ 80°C(Others on request)

Pilot media:Filtered compressed air or other inert gases

Option:3/2-ways or 5/2-ways solenoid valve,electronic or physical indicators,locator,filter pressure reducer,manual clutch

● 以上信息仅供参考,本公司保留修改的权利,恕不另行通知。

The above information is intended for guidance only and the company reserves the right to change any date herein without prior notice



选项 Options

阀体材质:WCB,304SS,316SS(其他请咨询)

内件材质:WCB+FPA,WCB+PTFE(其他请咨询)

阀座密封:PTFE

阀杆填料:PTFE

Body:WCB,304SS,316SS,(Others on request)

Trim:WCB+FPA,WCB+PTFE(Others on request)

Seat:PTFE

Packing:PTFE



电动执行器 Electric actuator

可选电压:220VAC,380VAC,24VDC(其他请咨询)

环境温度:-20°C-+ 60°C

防护等级:IP67

标准设备:两限位开关,物理指示器,手动控制,开关型+干接点

选项:除湿加热器,过力矩保护,4-20mA调节,Exd II BT 4,更多要求请咨询

Optional voltage:220VAC,380VAC,24VDC(Others on request)

Temperature of the environment:-20°C up to+ 80°C

Protection:IP 67

Standard equipment:2 additional limit switches, optical position indicator, manual override, On/Off+Limit switch

option:Dehumidification heater,overtorque protection,modulante type 4-20mA,Exd IIB T4,more requests please contact

选型说明 Model code

1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 10
 B400 B D 2 F P P B D 18

1. 产品类型 Product

B400	内衬对夹式蝶阀 Lined butterfly valve wafer type
B410	内衬凸耳式蝶阀 Lined butterfly valve LUG type
B420	内衬双法兰蝶阀 Lined butterfly valve double flange type
B430	内衬单法兰蝶阀 Lined butterfly valve single flange type

2. 控制方式 Control

A	手动控制 Manual
B	气控角行程活塞式铝缸体标准型 Pneumatic aluminum cylinder
P	电控基本型角行程 The basic type rotary electric control

3. 驱动形式 Type of actuator

L	手把式 Lock lever
U	ISO5211
W	手轮式 Handle wheel
D	双动 Double acting
S	单动常闭 Single acting normally close
P	单动常开 Single acting normally open
E	220VAC电动开关 Electric ON/OFF
F	24VDC电动开关 Electric ON/OFF
M	380VAC电动开关 Electric ON/OFF
G	220VAC电动调节 Electric modulante
H	24VDC电动调节 Electric modulante
J	380VAC电动调节 Electric modulante
K	220VAC电动开关防爆 Explosion-proof electric ON/OFF
N	24VDC电动开关防爆 Explosion-proof electric ON/OFF
Q	380VAC电动开关防爆 Explosion-proof electric ON/OFF
R	220VAC电动调节防爆 Explosion-proof electric modulante
T	24VDC电动调节防爆 Explosion-proof electric modulante
V	380VAC电动调节防爆 Explosion-proof electric modulante

4. 阀体材质 Body

2	WCB
4	304SS
6	316SS

5. 内件材质 Trim

F	WCB+PFA
G	WCB+PTFE

6. 密封材质 Seat

P	PTFE
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7. 填料材质 Packing

P	PTFE
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8. 设计压力 Pressure

B	PN16/150LB
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9. 接口形式 Connection

A	美标法兰 ANSI Flange
C	国标法兰 GB Flange
D	德标法兰 DIN Flange

10. 阀门口径 Caliber

17	11/2"	25	10"
18	2"	26	12"
19	2 1/2"	27	14"
20	3"	28	16"
21	4"	29	18"
22	5"	30	20"
23	6"	31	24"
24	8"		

- DN100以上内衬蝶阀一般选用手轮驱动。
 - PFA衬里提供了最强的抗腐蚀性。PFA衬里的厚度是2mm，大大提高了内衬蝶阀的CV值，并且通过30,000伏特的电火花检测，确保PFA衬里均匀性、以保证阀体的抗扩散性和抗腐蚀性。PFA叫做全氟烷氧基树脂，颜色透明，其物理性能和化学性能和PTFE类似，但是PFA有很好的可溶性和高附着性，适用于加工阀板的包覆涂层。
 - DN100 lined butterfly valve is generally used in handwheel drive.
 - PFA lining provides the strongest resistance to corrosion. PFA lining thickness is 2mm, greatly improving the CV value lined butterfly valves, and by 30,000 volt spark testing to ensure uniformity of PFA lining to ensure that the body of proliferation resistance and corrosion resistance. PFA called perfluoroalkoxy resin, a transparent color, is similar to their physical and chemical properties and PTFE, PFA, but have good solubility and high adhesion resistance, suitable for processing the valve plate of the cladding layer.
 - 以上为标准选型，特殊要求请咨询本公司技术部。
- The above is the standard selection, special requirements, please contact our technical department.

气动执行器&附件 Pneumatic actuators & Accessories

系列 Series
DA/SR



气动执行器 Pneumatic actuator

结合独特的风格、简洁的设计和实用性，Aisenberg生产了系列DA双作用和系列SR弹簧复位气动执行机构。

系列DA/SR具有先进的技术，模块化的设计以及精密化的加工制造，经济实用且节省空间。可直接安装在Aisenberg其他配件。既增加了其效率又增加了经济性。

Styling, strength, compactness, and simplicity of design have been combined to produce the Aisenberg Series DA direct acting and the Series SR spring return pneumatic actuators.

Engineering excellence and precision manufacturing has produced a modular product line with reduced overall size requirements and economic savings. In addition all Aisenberg accessories are fully modular and directly mount to the actuator providing flexibility and efficiency at reduced cost.

DA/SR系列的气动执行器是AISENBERG最有优势的产品之一，气动执行器主要用来控制球阀以及蝶阀的自动化工作，分为单动和双动，最大扭矩可以达到：40000NM，工作频率达到100万次。

DA/SR series pneumatic actuator is one of AISENBERG most advantageous products, pneumatic actuator is mainly used to control the ball valve and butterfly valve automation work, divided into single action and double action, maximum torque can reach: 40000NM, frequency reaches 1000000 times.

技术信息 Technology

硬质压铸铝合金或者全不锈钢的缸体。

气缸底部连接依照ISO5211/DIN333标准。

最大的工作压力为：8bar。

标准工作温度

标准（丁腈橡胶）：-25°C to +80°C

高温（氟橡胶）：-20°C to +150°C

电磁阀及限位开关的安装符合NAMUR标准。

AISENBERG的气动执行器可以提供可调节形成的0°、45°、90°或180°三位式的操作方式。

Cylinder hard die casting aluminum alloy or stainless steel.

The cylinder bottom is connected in accordance with ISO5211/DIN333 standard.

Maximum working pressure: 8bar.

Standard working temperature

Standard (NBR): -25 °C to +80 °C

High temperature (FKM): -20 °C to +150 °C

Electromagnetic valve and a limit switch installed in accordance with NAMUR standard.

AISENBERG pneumatic actuators can provide adjustable formed in 0°, 45°, 90° or 180° three type mode of operation.



操作条件 Operating conditions

1. 气源压力范围 Air pressure range

4 bar(58 psi) to 8 bar(116 psi) 双作气缸 Double acting

5 bar(65 psi) to 8 bar(116 psi) 单作气缸 Single acting

2. 工作温度 Working temperature

标准（NBR）：-25°C - +80°C

低温（HNBR）：-40°C - +80°C

高温（FKM）：-20°C - +150°C

Standard (NBR): -25°C to +80°C

Low temperature (HNBR): -40°C to +80°C

High temperature (FKM): -20°C to +150°C

3. 宽大的气缸范围 The range of large cylinder

共有35款不同的气缸型号，在5 bar气源下扭矩范围从8 Nm到110528Nm.

A total of 35 different cylinder type, in the 5 bar source lower torque range from 8 Nm to 110528Nm.

4. 工作介质 Working medium

已过滤干燥或润滑空气，无腐蚀性气体，惰性气体，最大容许颗粒大小不超过30um。

The filtered dry or lubricated air, non corrosive gas, inert gas, the maximum particle size of not more than 30um.

5. 连接方式 Connection

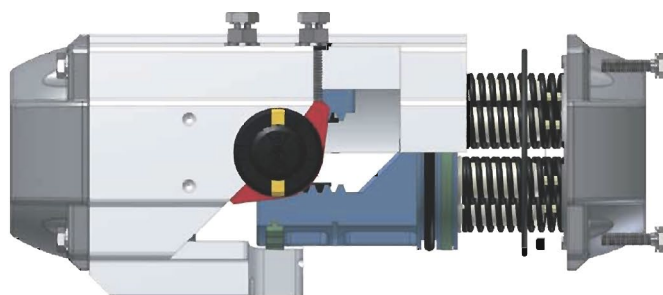
气缸底部连接依照ISO5211/DIN3337标准，电磁阀接口及气缸顶部连接依照VDI/VDE - 3845，NAMUR标准。

The bottom of the cylinder is connected with the electromagnetic valve according to ISO5211/DIN3337 standard, and the top of the cylinder connection interface according to VDI/VDE - 3845, NAMUR standard.

6. 检测 Testing

每一个气缸出厂前都做压力测试，并标示生产编号。并且我们保证每个执行器动作次数500,000次以上。

The stress tests are done before they leave the factory each cylinder, and sign production number. And we ensure that each actuator action number more than 500000 times.



特性 Characteristic

1.指示器 Indicator

位置指示器符合NAMUR标准，所有AISENBERG气动执行器都便于安装相关附件。

Position indicator conforms to the NAMUR standard, all AISENBERG pneumatic actuators are convenient installation and related accessories.

2.输出轴 The output shaft

高精度的镀镍硬质合金（15Nm以上）是输出轴低摩擦及高耐磨的材质保证，且符合ISO5211及DIN3337标准。可提供客户定制尺寸及不锈钢或硬铝合金材料。

Nickel cemented carbide with high accuracy (above 15Nm) is the output shaft low friction and high wear resistant material guarantee, and in accordance with ISO5211 and DIN3337 standard. Can provide customers with customized size and stainless steel or aluminum alloy materials.

3.缸体 Cylinder

挤压铝合金缸体采用硬质氧化处理（30Nm以上），提高了抗磨蚀的性能并降低了活塞和缸体的摩擦。亦可提供镀镍处理或者PTFE（聚四氟乙烯）涂层机环氧树脂喷涂不同处理。

Extruded aluminum alloy body adopts hard oxidation treatment (more than 30Nm), enhanced resistance to abrasion and reduces the friction of piston and cylinder. Can also provide nickel plating or PTFE (polytetrafluoroethylene) coating machine coated with epoxy resin in different treatments.

4.端盖 Cover

环氧树脂喷涂处理（80Nm以上）压铸铝合金端盖提供抗腐蚀性，并可提供镀镍处理及PTFE（聚四氟乙烯）涂层等不同处理方式。

Epoxy resin coating treatment (above 80Nm) die casting aluminum alloy cover to provide corrosion resistance, and can provide a nickel plating and PTFE (polytetrafluoroethylene) coating different processing methods.

5.活塞 Piston

高精度的纳米级硬质氧化处（30Nm以上）的压铸铝合金活塞配以耐磨密封圈及导向板，齿轮齿条设计结构为执行器提供稳定的扭矩输出。Nano hard oxidation at high precision (more than 30Nm) of die casting aluminum alloy piston with the sealing ring and the guide plate with wear-resisting, rack and pinion design structure provides stability for the actuator torque output.

6.行程调节 Stroke adjustment

两个标准限位外部调节螺栓，可以方便的对执行器实现 $\pm 5^\circ$ 开关位置调节。

Two standard limit external adjustment bolt, can be convenient to realize actuator $\pm 5^\circ$ switch position adjustment.

7.高性能弹簧 High-performance spring

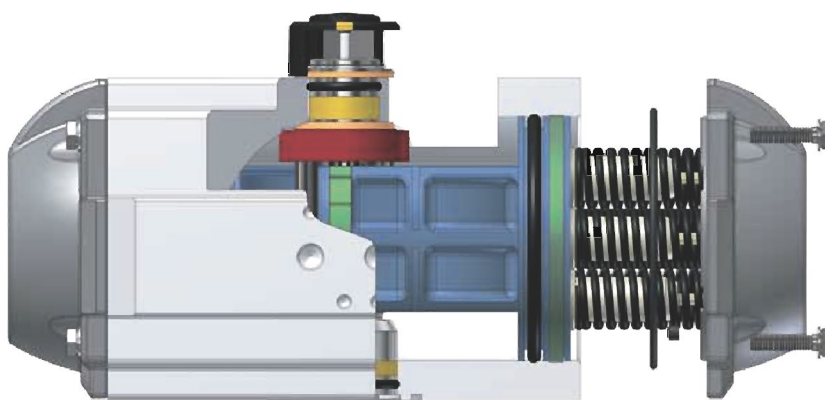
高张力弹簧采用镀锌处理，大大提高了执行器抗腐蚀性和使用寿命。预紧式弹簧可以安全及快速拆卸。

High tension spring made of galvanized processing, greatly improved actuator corrosion resistance and service life. The pre tightening type spring can be safe and quick disassembly.

8.轴承及导向板 Bearings and guide plate

采用长寿命、低摩擦的材料，避免了金属和金属直接接触，从而提高了产品的稳定性和使用寿命。

With long life, low friction material, to prevent direct contact between metal and metal, so as to improve the stability and the service life of the product.



部件与材料 Parts and Materials

双作用执行器 Double-acting actuators

A口进气, 压缩空气推动活塞向外运动, 使执行器输出轴逆时针旋转 ($0^\circ \rightarrow 90^\circ$) B口排气。

B口进气, 压缩空气推动活塞向内运动, 使执行器输出轴顺时针旋转 ($90^\circ \rightarrow 0^\circ$) A口排气。

A mouth intake, compressed air pushes the piston outward movement of the actuator output shaft rotates counterclockwise ($0^\circ \rightarrow 90^\circ$) B vent.

B oral intake, compressed air pushes the piston inward movement of the actuator output shaft clockwise ($90^\circ \rightarrow 0^\circ$) A vent.

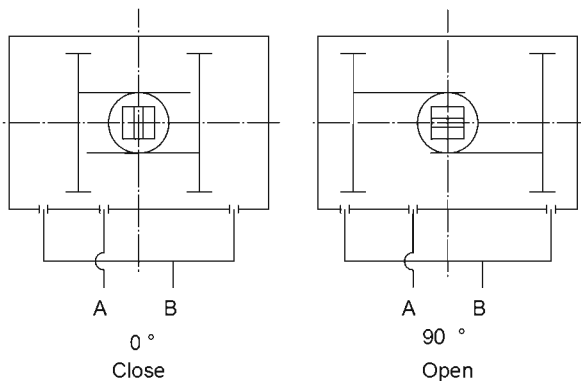
A口进气, 压缩空气推动活塞向外运动, 使执行器输出轴顺时针旋转 ($0^\circ \rightarrow 90^\circ$) B口排气。

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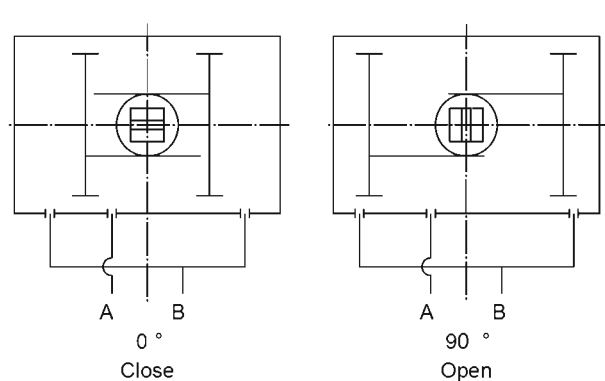
A mouth intake, compressed air pushes the piston outward movement of the actuator output shaft clockwise rotation ($0^\circ \rightarrow 90^\circ$) B vent.

B oral intake, compressed air pushes the piston inward movement of the actuator output shaft rotates counterclockwise ($90^\circ \rightarrow 0^\circ$) A vent.

CCW



CW



单作用执行器 Single-acting actuators

A口进气, 压缩空气克服弹簧力, 推动活塞向外运动, 执行器输出轴逆时针旋转 ($0^\circ \rightarrow 90^\circ$) B口排气。

执行器失气, 活塞在弹簧力作用下像内运动, 执行器输出轴顺时针旋转 ($90^\circ \rightarrow 0^\circ$) A口排气。

A mouth intake, compressed against the spring force, pushing the piston outward movement of the actuator output shaft rotates counterclockwise ($0^\circ \rightarrow 90^\circ$) B vent.

Actuator loss of gas, the piston spring force within the movement as clockwise rotary actuator output shaft ($90^\circ \rightarrow 0^\circ$) A vent.

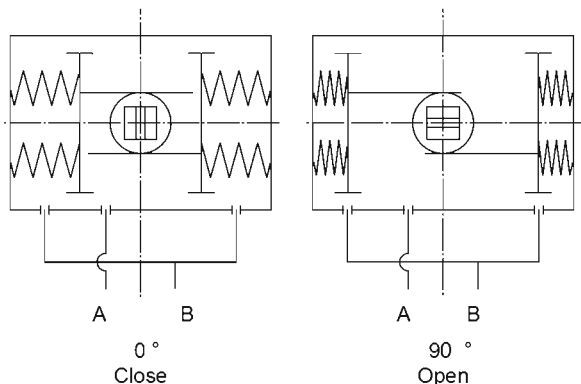
A口进气, 压缩空气克服弹簧力, 推动活塞向外运动, 执行器输出轴顺时针旋转 ($0^\circ \rightarrow 90^\circ$) B口排气。

执行器失气, 活塞在弹簧力作用下像内运动, 执行器输出轴逆时针旋转 ($90^\circ \rightarrow 0^\circ$) A口排气。

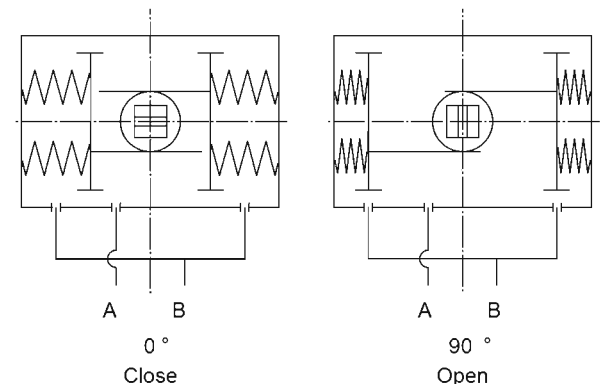
A mouth intake, compressed against the spring force, pushing the piston outward movement of the actuator output shaft clockwise rotation ($0^\circ \rightarrow 90^\circ$) B vent.

Actuator loss of gas, the piston spring force as the movement of the actuator output shaft rotates counterclockwise ($90^\circ \rightarrow 0^\circ$) A vent.

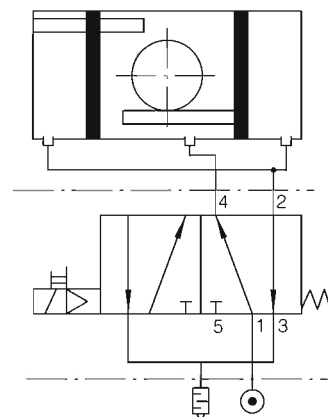
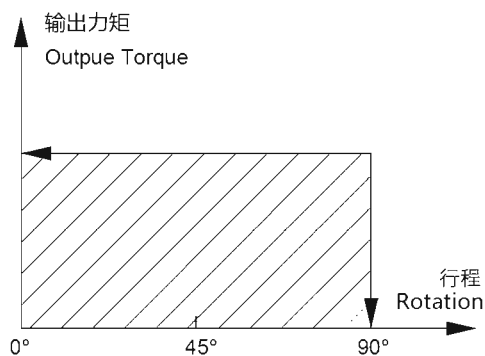
CCW



CW



输出力矩 Output Torque



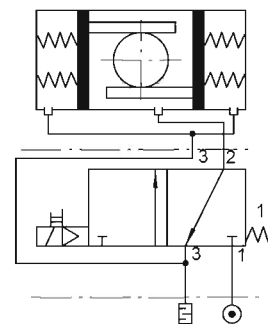
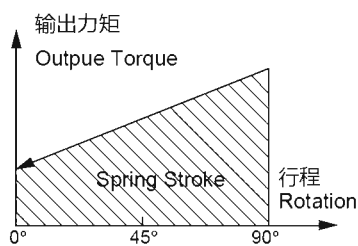
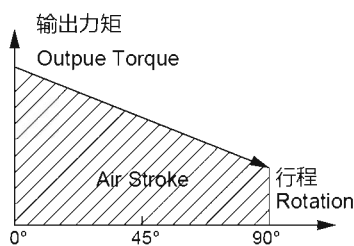
双作用执行器输出力矩
Double acting actuator output torque

DA系列气动执行器双作用输出扭矩表

DA series pneumatic actuator with double function of output torque meter

双 作 用 Double acting						
型号Type	输入气源压力 Input the air pressure (bar)					
	3	4	5	6	7	8
	气源输出扭矩 Air torque output (Nm)					
DA32	4.6	6.1	7.6	9.2	10.7	12.2
DA52	12.0	16.0	20.0	24.0	28.0	32.0
DA63	21.7	28.9	36.0	43.4	50.6	57.8
DA75	30.0	40.0	50.0	60.0	70.0	80.0
DA83	46.8	62.4	78.0	93.6	109.2	124.8
DA92	67.6	90.1	112.6	135.2	157.7	180.2
DA105	97.7	130.3	162.9	195.5	228.0	260.6
DA125	150.5	200.6	250.8	301.0	351.1	401.3
DA140	260.7	347.6	433.8	521.4	608.3	695.2
DA160	397.2	529.6	662.0	794.4	926.8	1059.2
DA190	640.2	853.6	1067.0	1280.4	1493.8	1707.2
DA210	798.0	1064.0	1330.0	1596.0	1862.0	2128.0
DA240	1154.3	1539.0	1923.8	2308.5	2693.3	3078.0
DA270	1755.0	2340.0	2924.0	3510.0	4095.0	4680.0
DA300	2291.4	3055.2	3819.0	4582.8	5346.6	6110.4

输出力矩 Output torque



单作用执行器输出力矩
Single acting actuator output torque

SR系列气动执行器单作用输出扭矩表

SR series pneumatic actuator with single function of output torque meter

单 作 用 Single acting													
型号Type	弹簧 数量 Spring Number	弹簧输出扭矩 Spring torque (Nm)		输入气源压力 Input the air pressure (bar)									
				3		4		5		6		7	
		气源输出扭矩 Air torque output (Nm)											
		0·	90·	0·	90·	0·	90·	0·	90·	0·	90·	0·	90·
SR52	5	4.0	6.2	8.1	5.8	12.1	9.8						
	6	4.7	7.4	7.3	4.6	11.3	8.6						
	7	5.5	8.7	6.5	3.3	10.5	7.3	14.5	11.3				
	8	6.3	9.9			9.7	6.1	13.7	10.1				
	9	7.1	11.2			8.9	4.8	12.9	8.8	16.9	12.8		
	10	7.9	12.4			8.1	3.6	12.1	7.6	16.1	11.6	20.1	15.6
	11	8.7	13.6			7.3	2.4	11.3	6.4	15.3	10.4	19.3	14.4
	12	9.5	14.9					10.5	5.1	14.5	9.1	18.5	13.1
SR63	5	6.8	10.4	14.9	11.3	22.1	18.5						
	6	8.2	12.5	13.5	9.2	20.7	16.4						
	7	9.6	14.6	12.1	7.1	19.3	14.3	26.5	21.5				
	8	10.9	16.7			18.0	12.2	25.2	19.4				
	9	12.3	18.9			16.6	10.0	23.8	17.2	31.1	24.5		
	10	13.7	20.9			15.2	8.0	22.4	15.2	29.7	22.5	36.9	29.7
	11	15.0	22.9					21.1	13.2	28.4	20.5	35.6	27.7
	12	16.4	25.0					19.7	11.1	27.0	18.4	34.2	25.6
SR75	5	10.0	15.0	20.0	15.0	30.0	25.0						
	6	12.0	18.0	18.0	12.0	28.0	22.0						
	7	14.0	21.0	16.0	9.0	26.0	19.0						
	8	16.0	24.0			24.0	16.0	34.0	26.0				
	9	18.0	27.0			22.0	13.0	32.0	23.0	42.0	33.0		
	10	20.0	30.0			20.0	10.0	30.0	20.0	40.0	30.0	50.0	40.0
	11	22.0	33.0			18.0	7.0	28.0	17.0	38.0	27.0	48.0	37.0
	12	24.0	36.0					26.0	14.0	36.0	24.0	46.0	34.0
SR83	5	15.5	23.0	30.5	23.0	46.5	39.0						
	6	18.6	27.6	27.4	18.4	43.4	34.4						
	7	21.7	32.2			40.3	29.8	56.3	45.8				
	8	24.8	36.8			37.2	25.2	53.2	41.2				
	9	27.9	41.4			34.1	20.6	50.1	36.6	65.1	51.6		
	10	31.0	46.0			31.0	16.0	47.0	32.0	62.0	47.0	77.0	62.0
	11	34.1	50.6					43.9	27.4	58.9	42.4	73.9	57.4
	12	37.2	55.2					40.8	22.8	55.8	37.8	70.8	52.8

SR系列气动执行器单作用输出扭矩表

SR series pneumatic actuator with single function of output torque meter

单 作 用 Single acting													
型号Type	弹簧 数量 Spring Number	弹簧输出扭矩 Spring torque (Nm)		输入气源压力 Input the air pressure (bar)									
				3		4		5		6		7	
				气源输出扭矩 Air torque output (Nm)									
	0·	90·	0·	90·	0·	90·	0·	90·	0·	90·	0·	90·	
SR92	5	23.0	33.0	44.6	34.7	67.1	57.2						
	6	27.6	39.5	40.0	28.1	62.5	50.6						
	7	32.2	46.1			57.9	44.0	80.4	66.5				
	8	36.8	52.7			53.3	37.4	75.8	59.9				
	9	41.4	59.3			48.7	30.8	71.2	53.3	93.8	75.9		
	10	46.0	65.9			44.1	24.2	66.6	46.7	89.2	69.3	111.7	91.8
	11	50.6	72.5					62.0	40.1	84.6	62.7	107.1	85.2
	12	55.2	79.1					57.4	33.5	80.0	56.1	102.5	78.6
SR105	5	31.8	49.3	66.0	48.4	98.6	81.0						
	6	38.1	59.2	59.6	38.5	92.2	71.1						
	7	44.5	69.0			85.9	61.3	118.5	93.9				
	8	50.8	78.9			79.5	51.4	112.1	84.0				
	9	57.2	88.7			73.2	41.6	105.8	74.2	138.4	106.8		
	10	63.5	98.6			66.8	31.7	99.4	64.3	132.0	96.9	164.5	129.4
	11	69.9	108.5					93.1	54.4	125.7	87.0	158.2	119.5
	12	76.2	118.3					86.7	44.6	119.3	77.2	151.8	109.7
SR125	5	50.0	78.0	100	72	150	122						
	6	60.0	93.6	90	56	140	106						
	7	70.0	109.2			130	91	181	142				
	8	80.0	124.8			120	75	171	126				
	9	90.0	140.4			110	60	161	110	211	161		
	10	100.0	156.0			100	44	151	95	201	145	251	195
	11	110.0	171.6					141	79	191	129	241	179
	12	120.0	187.2					131	64	181	114	231	164
SR140	5	86.0	129.0	174	131	261	218						
	6	103.2	154.8	157	105	244	192						
	7	120.4	180.6			227	166	314	253				
	8	137.6	206.4			209	141	296	228				
	9	154.8	232.2			192	115	279	202	366	289		
	10	172.0	258.0			175	89	262	176	349	263	436	350
	11	189.2	283.8					245	150	332	237	585	324
	12	206.4	309.6					228	124	315	211	402	298
SR160	5	139.5	192.5	258	205	390	337						
	6	167.4	231.0	230	166	362	298						
	7	195.3	269.5			334	260	467	393				
	8	223.2	308.0			306	221	439	354				
	9	251.1	346.5			278	183	411	316	543	448		
	10	279.0	385.0			250	144	383	277	515	409	647	541
	11	306.9	423.5					355	239	487	371	619	503
	12	334.8	462.0					327	200	459	332	591	464

SR系列气动执行器单作用输出扭矩表

SR series pneumatic actuator with single function of output torque meter

单 作 用 Single acting													
型号Type	弹簧 数量 Spring Number	弹簧输出扭矩 Spring torque (Nm)		输入气源压力 Input the air pressure (bar)									
				3		4		5		6		7	
		气源输出扭矩 Air torque output (Nm)											
		0·	90·	0·	90·	0·	90·		90·	0·	90·	0·	90·
SR190	5	190	320	451	320	664	533						
	6	227	384	413	256	626	469						
	7	265	448			588	405		619				
	8	303	512			550	341		555				
	9	341	576			512	277		491	939	704		
	10	379	640			474	213		427	901	640	1114	853
	11	417	704						363	863	576	1076	789
	12	455	768						299	825	512	1038	725
SR210	5	261	440	619	439	912	732						
	6	313	528	566	351	859	644						
	7	365	616			807	556	1101	850				
	8	417	704			755	468	1049	762				
	9	469	792			703	380	997	674	1290	967		
	10	521	880			651	292	945	586	1238	879	1531	1172
	11	573	968					893	498	1186	791	1479	1084
	12	625	1056					841	410	1134	703	1427	996
SR240	5	389	685	990	694	1449	1153						
	6	467	822	912	557	1371	1016						
	7	545	959			1293	879	1753	1339				
	8	622	1096			1216	742	1676	1202				
	9	700	1233			1138	605	1598	1065	2057	1524		
	10	778	1370			1060	468	1520	928	1979	1387	2439	1847
	11	856	1507					1442	791	1901	1250	2361	1710
	12	934	1644					1364	654	1823	1113	2283	1573
SR270	5	505	960	1434	979	2080	1625						
	6	606	1152	1333	787	1979	1433						
	7	707	1344			1878	1241	2523	1886				
	8	808	1536			1777	1049	2422	1694				
	9	909	1728			1676	857	2321	1502	2967	2148		
	10	1010	1920			1575	665	2220	1310	2866	1956	3513	2603
	11	1111	2112					2119	1118	2765	1764	3412	2411
	12	1212	2304					2018	926	2664	1572	3311	2219
SR300	5	725	1145	1522	1102	2271	1851						
	6	870	1374	1377	873	2126	1622						
	7	1015	1603			1981	1393	2730	2142				
	8	1160	1832			1836	1164	2585	1913				
	9	1305	2061			1691	935	2440	1684				
	10	1450	2290			1546	706	2295	1455				2953
	11	1595	2519					2150	1226				2724
	12	1740	2748					2005	997				2495

标准规范 Standard Specification

- 1.使用介质：压缩空气或者惰性气体
- 2.压力范围：双作用4~8巴 (bar) , 单作用5~8巴 (bar)
- 3.工作温度：标准型 (NBR) -25°C~+80°C
低温型 (HNBR) -35°C~+80°C
高温型 (FKM) -20°C~+150°C
- 4.行程调整：在打开位置有±5°的可调范围
- 5.润滑：在正常工作条件下，不需要添加润滑剂
- 6.安装：适合室内或室外安装
- 7.最高使用压力：输入气压不超过8巴 (bar)
1. Use of media: Compressed air or inert gas
2. Pressure ranges: Double action 4~8 bar, single action 5~8 bar
3. Working temperature: Standard type (NBR) -25°C to +80°C
Low temperature (HNBR) -35°C to +80°C
High temperature type (FKM) -20°C to +150°C
4. Stroke adjustment: In the open position is plus or minus 5° adjustable range
5. Lubrication: Under normal operating conditions, no need to add lubricant
6. Installation: Suitable for indoor or outdoor installation
7. Maximum use of pressure: The input pressure not exceeding 8 bar

耗气量计算 Air consumption calculation

DA/SR系列执行器开向体积和关向体积

DA/SR series actuators to open and shut the volume to volume

(L)

型号 Type	开向体积 Open to the volume	关向体积 Close to the volume
DA32	0.04	0.04
DA52	0.11	0.14
DA63	0.2	0.23
DA75	0.29	0.38
DA83	0.41	0.55
DA92	0.62	0.91
DA105	0.94	1.18

型号 Type	开向体积 Open to the volume	关向体积 Close to the volume
DA125	1.47	1.85
DA140	2.43	3.2
DA160	3.65	5.03
DA190	5.9	7.9
DA210	7.4	9.7
DA240	10.7	14.3
DA270	16.9	22.5
DA300	23.8	29.7

耗气量取决于供气压力、开关行程、体积及动作次数，计算如下：

升/分=气缸体积 (开向体积+关向体积) × [(供气压力 (Kpa) +101.3) +101.3] × 次数/分钟

Gas consumption depends on the gas pressure, the switch stroke, volume and movement frequency, calculated as follows:

L / min = The cylinder volume (open to the volume + close to volume) × [(air pressure (Kpa) +101.3) 101.3] × times / min.

SV100/200 系列电磁阀 SV100/200 series solenoid valve

在要求开或关式电子操作的情况下，电磁阀可与弹簧复位或双作用气动执行机构配套使用。带 1/4"、1/2"NPT 连接，以及 IP65 DIN 带电缆封管 PG9 连接器。线圈经过 UL 和 CSA 认证。所有电磁阀都有 CE 标志。

These units can be used with either spring return or double acting actuators where on/off electrical operation is required. Units have 1/4" and 1/2" NPT conduit connections and IP65 DIN units have cable gland PG9 connectors, also available with 1/4" and 1/2" NPT conduit adapters. The coils are UL recognized and CSA certified. All solenoids carry the CE mark.



SV100

特点 Feature

紧凑型
模块化
线圈控制阀
可转换的3/2通至5/2通
弹簧复位和双作用
Compact
Modular
Pilot Operated
Spool Control Valve
Convertible From 3-Way (3/2) to 4-Way (5/2)
Spring Return or Double Acting

手动操作 Manual override

每个电磁阀包括一个机械手动可操作旋钮安装在阀体上。如果发生断电时，可以通过手动操作完成。转动手动螺钉将使执行机构一个气腔室的气体进入另一个。

Each unit contains as standard a mechanical manual override located on the solenoid valve block. In the event of electrical power failure, over-riding is accomplished by rotating the manual override screw which will divert the air from one chamber of the pneumatic actuator to the other.

阀门设计 Valve design

导向柱塞
Pilot Operated Spool

介质 Media

干燥的或经过润滑的空气或惰性气体
Dry or lubricated air or inert gases

选型说明 Model code

SV 1 - 2 - 3 - 4 - 5 - 6 - 7
100 S N 5 2 2 B

1. 产品类型 Product

SV100	标准换向电磁阀 Standard solenoid valve
SV200	隔爆换向电磁阀 Flameproof solenoid valve

2. 控制方式 Control

S	单电控 Single control
D*	双电控 double control

3. 安装方式 Installation

N	NAMUR 贴面安装 Facing mounting
T	管接式安装 Pipe joint

4. 控制位数 Control digit

5	两位五通 5/2-Way
3	两位三通 3/2-Way

5. 电压 Voltage

1*	12VDC	3	110VAC
2	24VDC	4	220VAC

6. 接口 Interface

1*	1/8"	3*	3/8"
2	1/4"	4*	1/2"

7. 防爆等级 Explosion proof

B*	基本型 Basic
M*	浇封型 Pouring (Exm BT5)
I*	本安型 Intrinsic safety (Ex ia II CT6)
N	隔爆型 Flameproof (Exd II CT6)

带*的为SV200不可选的参数
Parameters for the SV200 is not optional *



SV200

EJAW系列过滤减压器
EJAWseries filter regulators

Aisenberg系列EJAW空气过滤器，设计用于可以过滤压缩空气中大于25μM的固体和液体。
The Aisenberg Series EJAW Filter Regulator is a 25 μM filter designed to provide nominal filtration removal of solids and liquids from the compressed air.

选型说明
Model code

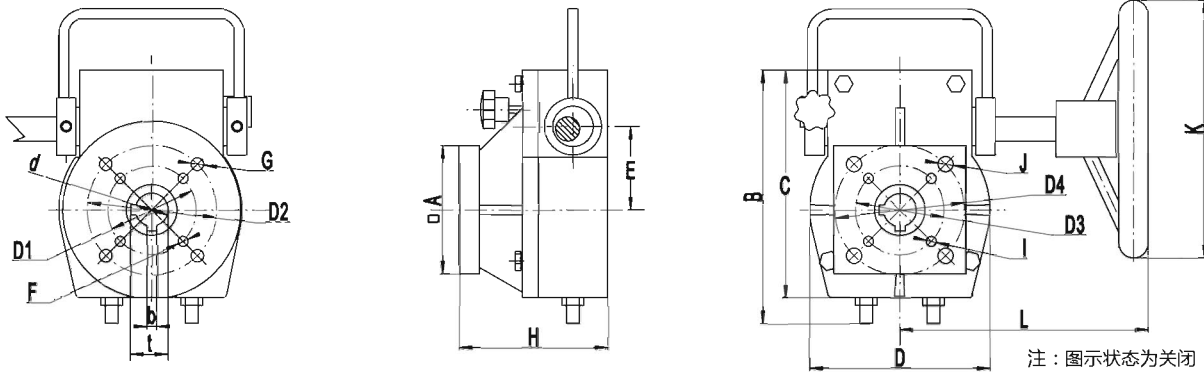
产品 Product	规格 Specifications	接管口径 Caliber
EJAW: 过滤减压器 Filter regulators	2000 3000 4000 5000	01:1/8" 02:1/4" 03:3/8" 04:1/2" 06:3/4" 10:1"



过滤减压器技术参数
Filter regulators, technical parameters

型号 Type	EJAW2000-01	EJAW2000-02	EJAW3000-02	EJAW3000-03	EJAW4000-03	EJAW4000-04	EJAW4000-06	EJAW5000-06	EJAW5000-10
额定流量 rated flow	550	550	2000	2000	4000	4000	4500	5500	5500
接管口径 Caliber	1/8"	1/4"	1/4"	3/8"	3/8"	1/2"	3/4"	3/4"	1"
过滤精度 Filtering precision	25 μM								
工作压力 Working pressure	1.0Mpa								
保证耐压力 Pressure resistance	1.5Mpa								
温度范围 temperature range	5℃ - 60℃								
调压范围 Adjustable pressure range	0.05-0.85Mpa								
容器材料 container material	聚碳酸酯Polycarbonate								
防护罩 Protection cover	无NONE		铁 Iron						
排水器功能 Drainage device function	压差排水、自动排水Differential pressure automatic drainage, drainage								

SL系列离合手轮 SL Series clutch wheel 外形尺寸 Dimension



型号 Type	d	b	t	D1	F	D2	G	A	H	E	D3	I	D4	J	K	L	B	C	D
SL26:1	22	6	25.4			70	M8	70	99	50.5			70	Ø9	Ø200	155	160	145	110
SL38:1	26	8	29.3	40	M8			100	117	65	70	Ø9			Ø200	195	195	175	140
	38	10	41.3			102	M10	110					102	Ø12					
SL54:1	38	10	41.3	125	M12			130	118	85	125	Ø14			Ø300	205	235	215	180
	48	14	51.8			140	M16						140	Ø18					
SL80:1	48	14	51.8	140	M16			156	148	124	140	Ø18			Ø400	245	320	298	250
	60	18	64.4			165	M20						165	Ø22					
SL78:1	60	18	64.4	165	M20			220	150	142	165	Ø22							
	80	18	84.4												Ø600	265	360	340	285
SL98:1	80	18	84.4	165	M20			230	195	229	165	Ø22			Ø800	410	550	530	460
SL100:1	100	20	105.3	254	M16			300	195	258	254	Ø18			Ø800	430	605	585	520
SL118:1	120	32	129.3	356	M30			Ø445	250	391	356	Ø32			Ø1000	550	900	870	800
	180	45	196	483	M30			Ø600	275	390	483	Ø39			Ø600	600	1050	900	850

手轮机构技术参数 Handwheel, technical parameters

序号 NO.	型号 Type	齿轮齿数比 Gear ratio	输入力矩 Input torque	输出力矩 output torque	重量 Weight
1	SL26	26:1	70	300	7.3
2	SL38	38:1	60	550	11.85
3	SL54	54:1	120	1200	17.3
4	SL80	80:1	140	2000	35
5	SL78A	78:1	200	3600	48.2
6	SL98	98:1	300	9000	156
7	SL100	100:1	400	13000	190
8	SL118	118:1	900	22100	540



基本型电动执行器 Basic type electric actuator

系列 Series
H



标准工作温度: -30°C -+60°C
Working temperature: -30°C to +60°C
可选电压: 24VDC、220VAC、380VAC
Optional voltage: 24VDC, 220VAC, 380VAC
Control circuit: ON/OFF, Modulate

Aisenberg 控制通过多年的实践经验和创新设计, 生产了H系列电动执行机构。该系列具有开关和调节控制的特点。

Aisenberg controlled through years of experience and innovation in the design, production of H Series actuators. The series has a switch and adjust control features.

H系列的电动执行器输出扭矩从50Nm至2,500Nm, Aisenberg控制通过多年成功的实践经验和创新设计, 生产了H系列电动执行机构。该系列具有开关或调节控制的特点。

Aisenberg的H系列电动执行机构与其他执行机构比较, 具有许多超越的优点, 包括:

- 通过了UL, CSA和CE认证
- 易于接线且不会干涉其他零部件
- 简单独特的手动操作系统
- 重量轻、外形小
- 凸轮行程限位可以简单地用手指或螺丝刀调节而不影响其他部件
- 高清晰度阀门状态显示

执行器整体设计成类似一个接线盒, H系列是Aisenberg提供类似产品以来最容易通过接线板, 凸轮调节和无关安装。因此, 在现场案卷和高度的时间要求大大的减少, 同时也确保了维护的方便与安全。

Electric actuator output torque of H series from 50Nm to 2500Nm Aisenberg control through the practical experience of many years of successful and innovative design, production of the H series electric actuator. The series has a switch or adjust the control characteristics.

Compared with other enforcement agencies H series electric actuators Aisenberg, has many advantages including Transcendence:

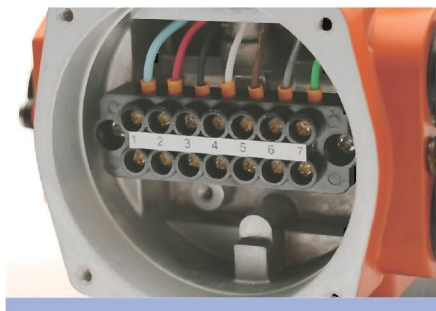
- UL, CSA and CE certification of most units
- Wiring directly to the terminal strip without interference from other components
- Simple and unique manual override handwheel system
- Lowest profile and lightest weight actuator on the market
- Simple finger or screwdriver adjustment of travel limit cams without interference from other components

- Highly visible valve status display on most units

Designed like a junction box, the Series H offers by far the easiest access to terminal block wiring, cam adjustments and switch installation. Therefore, the time required for field start-up and adjustment is greatly reduced, and maintenance can be performed with assured ease and safety.



特点 Feature



端子模块 Terminal block

执行机构开关预先和端子部分用导线连接。端子部分显示清晰易于客户连接。端子模块靠近两个导线接口, 并且留有足够的布线空间。在端盖内有接线图供参考。接地螺钉为绿色, 其位置易于调节。

The actuator switches are pre-wired to an easily accessible terminal block. Terminals are clearly identified for customer wiring. The block has been placed near the two conduit entries with ample room for running wire leads. A wiring diagram is included inside the cover for easy reference. The ground wire screw is plated green and positioned for easy access.

阀门状态显示 Valve status display

采用显著地颜色表示不同状态, 黄色为开启, 红三色为关闭, 显示出阀门的全程位置, 几乎可以从任何角度看清显示。该显示器由很高的耐冲击、耐热、防化学腐蚀性塑料制成。显示器能有效防止被冲刷掉或被腐蚀。由于显示器盖利用一个静态密封而不是动态密封, 因此避免了泄漏问题。

Prominently labeled and color coded – yellow for open, red for closed – the display indicates valve position through the full range of travel. The display can be seen from almost any angle. Made of high impact, heat and chemical resistant clear polycarbonate, this display withstands caustic wash down and offers excellent corrosion protection. Potential leak paths are eliminated since the indicator cover utilizes a static seal, not a dynamic seal.



特点 Feature



手动操作系统Manual override

为了在无电情况下手动旋转阀门，所有型号的H系列都标配了一个手动操作。

In order to under the condition of no power manual rotary valve, all models of the H series come standard with a manual operation.



功能强劲：	智能调节型、开关型、各类信号输出型应有尽有；
体小量轻：	体积和重量仅相当于传统产品的35%左右；
高标防护：	IP68高标准防护等级；
精密耐磨：	蜗轮输出轴一体化特殊铜合金锻造、强度高、耐磨性好；
安全保证：	通过1500V耐压检测，F级绝缘电机，更有CE认证，安全保障；免加油、免点检、防水防锈、任意角度安装
使用方便：	智能控制模块集成于电动执行器本体内，无需外接定位器，数字设定、数字整定、高度精确、自我诊断、一机多能。
智能数控：	Intelligent adjustment type, ON/OFF type, have everything that one expects to find all kinds of signal output type;
Powerful function:	The volume and the weight is only equivalent to the traditional product 35%;
Small size and light weight:	IP68 high standard protection level ;
Protection:	Worm gear output shaft integrated special copper alloy forging, high strength, good abrasion resistance;
Precision wear-resistant:	Through the 1500V voltage detection, insulation class F motors, more CE authentication, security;
Safety assurance:	Oil free, free check, waterproof and antirust and installed at any angle
Easy to use:	The intelligent control module is integrated in the electric actuator body, no external positioner, digital set, digital tuning, highly accurate, self diagnosis, a multi machine.
Intelligent cnc:	

H系列电动执行器选型说明 H series electric actuator selection

HB50:50Nm开关型电动执行器220VAC

HB50:50Nm Electric actuator 220VAC ON/OFF

类型Type	电压/控制方式 Voltage / control mode	防爆类型 Explosion proof type	扭力TorqueNm
H 电动执行器 Electric actuator	B 220VAC开关型 ON/OFF	无None 非防爆 Non explosion proof	50
	H 380VAC开关型 ON/OFF	X 防爆 Exd II BT4(50-600Nm)	100
	G 24VDC开关型 ON/OFF		200
	E 220VAC调节型 Modulante		400
			600
			1000
			2000

非防爆型电动执行器技术参数 Parameters for technical non explosion proof electric actuator

开关型 ON/OFF

型号Type	H50			H100			H200		
电压 Voltage	24VDC	220VAC	380VAC	24VDC	220VAC	380VAC	24VDC	220VAC	380VAC
扭矩Torque(Nm)	45	50		90	100		200	200	
运行时间 Run time(S)	10	30		10	30		10	30	
功率 Power(W)	20	10		40	23		40	40	
额定电流 Rated current(A)	2	0.24	0.15	2.4	0.32	0.19	8	0.48	0.25

型号Type	H400			H600		H1000		H2000	
电压 Voltage	220VAC	380VAC	24VDC	220VAC	380VAC	220VAC	380VAC	220VAC	380VAC
扭矩Torque(Nm)		400			600		1000		2000
运行时间 Run time(S)		30	10		30		50		100
功率 Power(W)		60			90		100		100
额定电流 Rated current(A)	0.48	0.25	8	0.92	0.45	1.2	0.48	1.2	0.48

调节型 Modulante

型号Type	H50	H100	H200	H400	H600	H1000	H2000
电压 Voltage	220VAC	220VAC	220VAC	220VAC	220VAC	220VAC	220VAC
扭矩Torque(Nm)	50	100	200	400	600	1000	2000
运行时间 Run time(S)	30	30	30	30	30	50	100
功率 Power(W)	10	23	40	40	90	100	100
额定电流 Rated current(A)	0.24	0.32	0.48	0.48	0.92	1.0	1.2

防爆型电动执行器技术参数 Parameters for technical explosion proof electric actuator

开关型 ON/OFF

型号Type	H50			H100			H200		
电压 Voltage	24VDC	220VAC	380VAC	24VDC	220VAC	380VAC	24VDC	220VAC	380VAC
扭矩Torque(Nm)		50			100			200	
运行时间 Run time(S)		20			30			30	
功率 Power(W)	13	10	6	25	25	15	35	40	30
额定电流 Rated current(A)	1.28	0.15	0.07	2.03	0.30	0.10	3.57	0.35	0.19

型号Type	H400			H600		
电压 Voltage	24VDC	220VAC	380VAC	24VDC	220VAC	380VAC
扭矩Torque(Nm)		400			600	
运行时间 Run time(S)		30			45	
功率 Power(W)	70	90	40	70	90	40
额定电流 Rated current(A)	5.13	0.64	0.29	6.04	0.67	0.29

调节型 Modulante

型号Type	H50	H100	H200	H400	H600
电压 Voltage	220VAC	220VAC	220VAC	220VAC	220VAC
扭矩Torque(Nm)	50	100	200	400	600
运行时间 Run time(S)	20	30	30	30	45
功率 Power(W)	10	25	40	90	90
额定电流 Rated current(A)	0.15	0.30	0.35	0.64	0.67

球阀系列

Ball Valve Series

www.aisenberg.de

A120

2PC螺纹球阀

Two PC thred ball valve

A100

3PC焊接球阀

Three PC welding ball valve

A210

对夹法兰球阀

Wafer flange ball valve

A350

内衬PFA法兰球阀

Lined with PFA flange ball valve

A400

高压螺纹球阀

High pressure thred ball valve

A410

高压法兰球阀

High pressure flange ball valve

A460

高压对夹法兰球阀

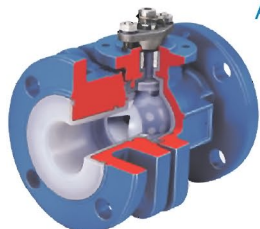
High pressure wafer flange ball valve

A590

大口径固定球阀

Large diameter fixed ball valve

A350



A200

2PC法兰球阀

Two PC flange ball valve

A130

3通螺纹球阀

Three-way thred ball valve

A220

3通法兰球阀

Three-way flange ball valve

A130



A220



A200



A120



A120



A100



A410

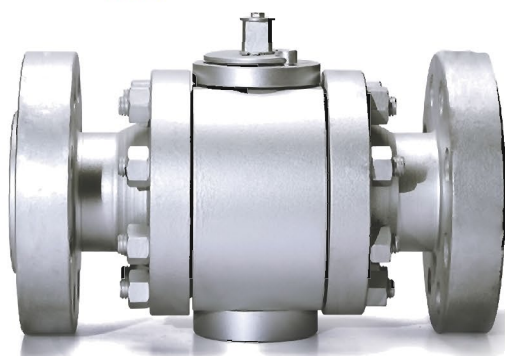


A460

A400



A590



DN 15到DN 600 逆止阀

DN 15 up to DN 600 Check valves



D200



D230



D210



D210

内衬EPDM对夹蝶型止回阀
Lined with EPDM wafer
double disc check valve

D230

不锈钢对夹支耳蝶型止回阀
Stainless steel Lug
double disc check valve

D200

不锈钢对夹蝶型止回阀
Stainless steel wafer
double disc check valve

D220

球墨铸铁支耳法兰蝶型止回阀
GGG40 Lug double disc check valve

D630

薄型对夹旋启式止回阀
Light wafer swing check Valve



D600

D600

螺纹旋启式止回阀
Thread swing check valve

D500

1PC对夹弹簧止回阀
1-PC Spring check valve

D630



D640

对夹旋启式止回阀
Wafer swing check valve

D900

Y型弹簧止回阀
Y Type spring check valve



D640

D620

法兰旋启式止回阀
Flange swing check valve

D720

3PC弹簧止回阀
3-PC Spring check valve

D620



D700

弹簧止回阀
Spring check valve



D500



D900



D720



D700

闸阀 / 截止阀系列

Gate Valve/Globe Valve Series

www.aisenberg.de

G510

200PSI 内螺纹截止阀
200PSI Thread globe valve

G512

300PSI 内螺纹截止阀
300PSI Thread globe valve

PN16 DIN 不锈钢法兰截止阀
DIN PN16 Stainless steel flange globe valve

G512



G510



DN 6到DN 600 截止阀

DN 6 up to DN 600 Globe valves



G610

PN16 DIN 铸钢法兰截止阀
DIN PN16 steel flange globe valve

G620

PN40 DIN 铸钢法兰截止阀
DIN PN40 steel flange globe valve

G630

PN40 DIN 不锈钢法兰截止阀
DIN PN40 Stainless steel flange globe valve

G600



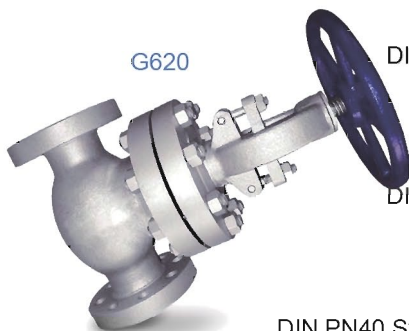
G630



G610



G620



DN 15到DN 1200 闸阀

DN 15 up to DN 1200 Gate valves

C500

200PSI 内螺纹闸阀
200PSI Thread gate valve

C501

300PSI 内螺纹闸阀
300PSI Thread gate valve

C600

PN16 DIN 不锈钢法兰闸阀
DIN PN16 Stainless steel flange gate valve

C610

PN40 DIN 不锈钢法兰闸阀
DIN PN40 Stainless steel flange gate valve

C620

PN16 DIN 铸钢法兰闸阀
DIN PN16 steel flange gate valve

C610



C501



C600



C620



C500



刀闸阀系列

Knife Gate Valve Series

DN 50到DN 1500 刀闸阀

DN 50 up to DN 1500 Knife gate valves

M200



M100

标准型刀闸阀

Basic knife gate valve

M200

穿透型刀闸阀

Continuous knife gate valve

M300

放料型刀闸阀

Special under silo knife gate valve

M400

双向密封型刀闸阀

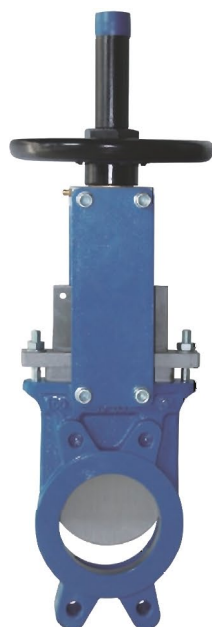
Two-way sealing knife gate valve

M500

闸门

Penstock

M100



M500



M400



M300



安装了位置反馈器的
刀闸阀

Knife valve limit
switch is installed

导流板

Diaphragms





H210

DN 6到DN 300 隔膜阀

DN 6 up to DN 300 Diaphragm valves



H100

标准型隔膜阀

Standard diaphragm valve

H300
内衬PTFE隔膜阀
Lined with PTFE diaphragm valves



H210

气动隔膜阀

Pneumatic diaphragm valve

H110
Stainless steel diaphragm valves



H100



H300

DN 10到DN 100 特殊阀

DN 10 up to DN 100 Special valves

S100
气动梭型阀
Pneumatic shuttle valve

S100



J901
手动角座阀
Manual angle seat valve

J902
气动角座阀
Pneumatic angle seat valve

J903
气动法兰角座阀
Pneumatic flange angle seat valve



J903



J902



J901