

# WESDOM



## WESDOM GROUP

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## 控制阀系列

## WESDOM GROUP

# WESDOM GROUP

## Our Value

WESDOM are not only concerned about products, services and solutions.

**WESDOM promise to implement sustainable development and benefit society with energy-saving and environmental protection.**

### Reliable

To provide users with high-quality, safe and reliable fluid control products, by improving technology research and development capabilities, implementing strict product and inspection standards, ensuring product stability and durability, and winning the recognition and trust of users.

### Integrity

Integrity is our foundation, we always keep our promises, adhere to the principles of honesty, integrity and responsibility, actively perform corporate social responsibilities, and act with the highest ethical standards.

### System

Taking user needs as the starting point of planning, focusing on technology integration and the integrity of solutions, through careful thinking and efficient collaboration, we can effectively integrate resources and maximize the effectiveness of the system.

### Innovation

Technological innovation is the key force for the company's development and ensuring future success. By actively exploring the application of energy saving and environmental protection and system integration technology, it pursues new products, services and business methods to better meet user needs.



# WESDOM GROUP

## Development History



### 2010

WESDOM was established

In December 2010, WESDOM was registered with a registered capital of 5 million yuan;

June 2013, WESDOM passed ISO and other international certifications;

### 2015

WESDOM established the first overseas branch

In June 2014, TIANJIN WESDOM VALVE MANUFACTURING CO.,LTD. was established in Tianjin, where the production of butterfly valves is concentrated;

### 2016

WESDOM products are exported to overseas regions and markets

In July 2015, the first overseas branch company WEISIDUN MATERIAL SOLUTION COMPANY was established in the beautiful African continent –Tanzania, and WESDOM began to expand into the international market;

In December 2015, WESDOM established a special foreign trade import and export company in Zhengzhou, the hinterland of the Central Plains HENAN WEISIDUN IMPORT AND EXPORT TRADE CO.,LTD.,to make up for the domestic shortcomings of entering the international market;

In 2016, WESDOM brand products have been exported to Tanzania, Zambia, Egypt, Turkey, Pakistan, Thailand, Indonesia, Vietnam, the Philippines, Saudi Arabia, Mexico and other countries and regions;

In 2017, the company carried out production, procurement adjustments and layouts, expanded product series, initially formed a production and procurement system for water series products (control and connection systems), and established a procurement system for major production clusters across the south and north. ;

### 2018

Zambia branch was established, and the group company expanded its measurement products series

In January 2018, the second exclusive import and export company was established—HENAN WESDOM FLOW CONTROL CO.,LTD.In August of the same year, the second overseas branch company –WESDOM VALVES AND FITTINGS COMPANY LIMITED was established in Zambia, Africa;

In 2020, under the influence of the unfavorable factors of the domestic and foreign epidemic situation, the company has achieved the goal of breaking 100 million yuan in addition to the continuous growth of sales.

### 2019

WESDOM launched a series of plastic materials

In 2018, the series of measurement products (water meters, flow meters) were expanded, and the supply chain system was further enriched and improved;

In April 2021, the Kenya branch WESDOM VALVES AND FITTINGS(K) CO LIMITED was established and operated well, its products occupy the African market successfully.

### 2020

WESDOM sales exceeded 100 million yuan

In 2019, a series of plastic material products were launched; the company's valves and pipe fittings passed the CE certification; WESDOM overall sales performance exceeded 90 million in the same year;

To be continued...

### 2021

Kenya branch is established, WESDOM products occupy the African market

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# WESDOM GROUP

## Enterprise Culture

**Our Purpose:** People-Oriented, Hard Work, Never Forget the Original Intention; Innovation and Forge Ahead.

**Our Mission:** To be a high-quality supplier of fluid control systems and plan maker; To contribute our wisdom and strength to the development of the cutting-edge technology of fluid control systems.

**Our Vision:** Explore the internal innovation spirit and creativity, pursuit, innovation and continuous improvement. Use wisdom, foresight and hard work to make "WESDOM" a world-renowned brand; Make the group company grow into a respectable "Four Satisfaction" enterprise:

**Customer Satisfaction:** Use high-quality products and refined services to add value to customers;

**Employee Satisfaction:** People-oriented, build a platform for all employees to realize their dreams, everyone is the CEO;

**Partner Satisfaction:** Mutual promotion, improvement, mutual benefit and win-win;

**Shareholder Satisfaction:** Enable the company to develop and grow, and return profits.

**Our Values:** Create differentiated value-added services for customers, let everyone in the company has a sense of accomplishment.



## Group Introduction

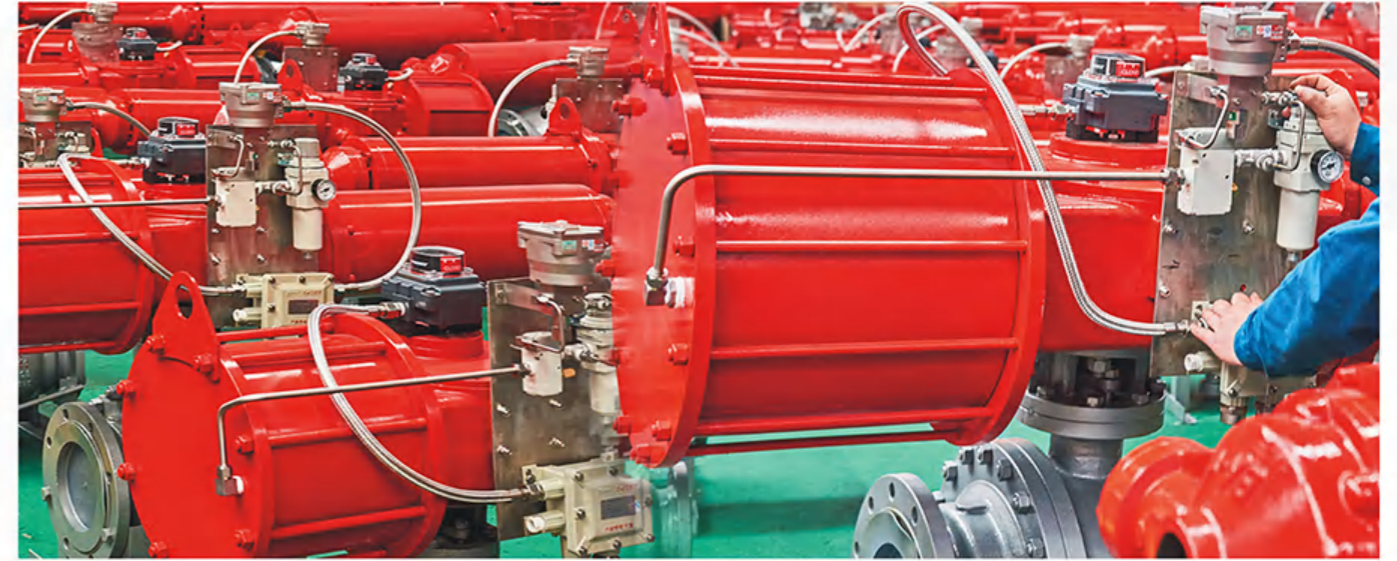
WESDOM Group specializes in pipeline fluid systems: R&D, production and sales of valves, pipe fittings, water meters, flow meters, etc. The products cover cast iron, cast steel, stainless steel, copper, plastics and other materials, which are widely used in hydropower stations, heat, buildings, water supply and drainage, petroleum, chemical industry, electric power, medical and other fields.

In recent years, WESDOM Group has actively embraced the era of Internet of Everything, committed to IOT terminal control and artificial intelligence design, big data mining and development, and promoted smart hardware to move towards big data center and wisdom with excellent market foresight and technological innovation. The smart cities, smart heating, smart water and other fields are in progress.

In the early stage, the Internet of Things smart valves and smart water meters were developed to promote and apply smart control systems such as municipal heating and municipal water supply.

In terms of quality control, we have strict control procedures. From the raw materials entering the factory to the final product leaving the factory, after 24 quality inspection passes, each pass must ensure that the product quality is 100% qualified before it can flow into the next process, thus ensuring that the qualified rate of the finished products. WESDOM products can well meet the Chinese standard like GB, JB, HB; American standard like API, ASME, AWWA; British and EU standards like BS, EN, ISO; German standard DIN; Japanese standard JIS; Russian standard GOST and other standards.





特殊设计、性能可靠，应用于过程控制的完美解决方案

凭借过程行业多年的应用经验，威斯盾可以为您的控制设备提供一整套的解决方案，以保证其可靠、高效的运行。专门为过程应用而开发的控制阀执行机构可以实现精确的驱动和超乎想象的低故障率。

在一个现代化的过程控制工厂，阀门执行机构动作的传动精度和可靠性尤为重要。无论是直行程的阀门还是角行程的阀门，我们都可以提供符合要求的产品。满足各种恶劣工况，危险环境的使用。

以下是我们的解决方案适用的过程行业一览。其中包含用于危险区域的产品。

- 化工和石化行业
- 近海和海洋工业
- 石油和天然气行业
- 制药行业
- 制浆和造纸行业
- 食品和饮料行业
- 水处理和污水处理行业
- 矿产开采和冶金行业



# WESDOM GROUP

## 产品展示



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> AT气动执行器  
 AT Pneumatic Actuator

### 设计及特点 Design and Features

AT系列气动执行器在综合运用国内外新技术、新材料、新工艺和创新观念的基础上进行研制、开发、设计而成，具有以下特点：

- 符合最新的国际规范：ISO 5211、DIN 3337和VDI/VDE3845、NAMUR标准。
- 高强度挤压铝质缸体，内表面经精细研磨及硬质阳极氧化处理，使用寿命长，摩擦系数低，动作迅速。
- 现代化的造型、结构紧凑，更多规格供选择，更经济实惠。
- 新颖独特的设计：独特的外部行程调节机构，方便进行±5°全开或全关的双向位置调整。
- 外部结构一样的执行器，双作用式和单作用式具有良好的互换性。（单作用可选常闭式或常开式）
- NAMUR标准多功能位置指示器，可视指示、方便安装并输出所有附件。
- 预压缩负荷弹簧，安装、拆卸安全方便。
- 活塞和端盖采用压铸铝合金，强度高、重量轻、外形美。
- 密封材料，可选择性，使执行器可应用于高温或低温场合。
- 根据需要可提供多种角行程（例如：120°C、135°C、180°C等）和三位置式气动执行器。
- 标准的气嘴接孔，不需要连接板，就可直接安装电磁阀，方便、高效。

AT series pneumatic actuators are developed, developed and designed on the basis of comprehensive use of new technologies, new materials, new processes and innovative concepts AT home and abroad. They have the following characteristics:

- Comply with the latest international specifications: ISO 5211, DIN 3337 and VDI/VDE3845, NAMUR standards.
- High strength extruded aluminum cylinder block, the inner surface is finely ground and hard anodized, long service life, low friction coefficient and quick movement.
- Modern shape, compact structure, more specifications for choice, more economic benefits.
- Novel and unique design: unique external travel adjustment mechanism, convenient for ±5° fully open or fully closed bidirectional position adjustment.
- Actuators with the same external structure, double-acting type and single-acting type have good interchangeability. (Single action can be normally closed or normally open)
- NAMUR standard multi-function position indicator, visual indication, easy installation and output of all accessories.
- Pre-compressed load spring, safe and convenient to install and remove.
- Piston and end cover are made of die-cast aluminum alloy with high strength, light weight and beautiful appearance.
- Sealing material, optional, so that the actuator can be used in high or low temperature occasions.
- Various angular strokes (For example 120°C, 135°C, 180°C, etc.) and three-position pneumatic actuators are available upon request.
- Standard air nozzle connection hole, without connecting plate, can be directly installed solenoid valve, convenient and efficient.

### 操作条件 Operating Conditions

#### 操作介质 Operating medium

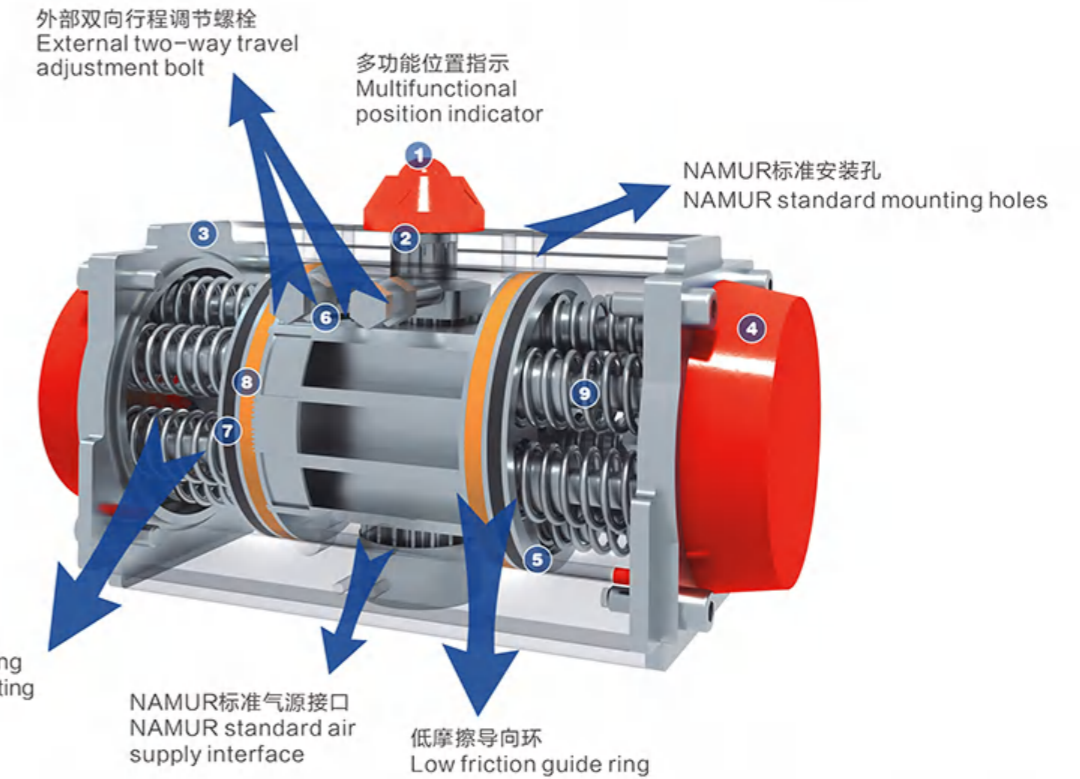
- 干燥清洁的空气或惰性气体，以及与执行器内部零件和润滑剂兼容的非腐蚀性气体。
- 操作介质的露点温度为+20°C。
- 介质中的杂质微粒尺寸不超过30μ。(选用定位器时使用介质中杂质微粒尺寸不超过5μ)。
- Dry clean air or inert gas, and non-corrosive gas compatible with actuator internal parts and lubricants.
- The dew-point temperature of the operating medium is +20°C.
- The size of impurity particles in the medium shall not exceed 30μ. (The size of impurity particles in the medium shall not exceed 5μ when selecting the positioner)

#### 气源压力 Air pressure

- 3bar~8bar(默认选型时，以5bar参考)
- 3bar~8bar(5bar is the reference for default selection)

#### 工作环境温度 Working environment temperature

- 标准型 Standard type: -20°C~+80°C
- 低温型 Low temperature type: -40°C~+80°C
- 高温型 High temperature type: -20°C~+160°C



#### 1. 指示器 (多功能位置指示)

NAMUR标准指示器开关指示的同时，便于安装位置开关、定位器等附件。

#### 2. 输出轴

镀镍合金钢、高精度一体式输出轴，同时符合NAMUR、ISO 5211、DIN 3337标准。可根据客户要求定制尺寸和不锈钢材料。

#### 3. 缸体

ASTM 6005压铸铝合金缸体可以采用硬质氧化、环氧树脂喷涂(根据要求喷涂蓝色、橙色、黄色等)、PTFE涂层或镀镍满足不同要求。

1. Indicator (multi-function position indicator)  
NAMUR standard indicator switch indicates, and it is easy to install accessories such as position switch and positioner.

#### 2. Output shaft

Nickel-plated alloy steel, high-precision one-piece output shaft, also complies with NAMUR, ISO 5211, DIN 3337 standards. Size and stainless steel material can be customized according to customer requirements.

#### 3. Cylinder block

ASTM 6005 die-cast aluminum alloy cylinders can be hard anodized, epoxy sprayed (blue, orange, yellow, etc. upon request), PTFE-coated, or nickel-plated to meet different requirements.

#### 4. 端盖

压铸铝合金表面金粉末喷涂各种颜色、PTFE涂层或镀镍处理。

#### 5. 活塞

双活塞齿条、采用压铸铝硬质氧化或者铸钢镀锌(大规格)处理，安装位置对称、运作迅速、使用寿命长，简单的颠倒活塞可以改变旋转方向。

#### 6. 行程调节(外部双向行程调节螺栓)

两个独立的外部行程调节螺钉，可以进行±5°开、关位置精确限位、方便、可靠的调节。

#### 4. End cap

Die-cast aluminum alloy surface with gold powder coating in various colors, PTFE coating or nickel plating.

#### 5. Pistons

Double-piston rack, with die-cast aluminum hard anodized or cast steel galvanized (large size) treatment, symmetrical installation position, fast operation, long service life, simple reversal of the piston can change the direction of rotation.

Two independent external stroke adjustment screws can perform ±5° opening and closing position precise limit, convenient and reliable adjustment.

#### 7. 密封

在常温工作条件下使用丁腈橡胶、在高温或低温时采用氟橡胶或硅橡胶。

#### 8. 低摩擦导向环

采用低摩擦、长寿命复合材料，避免了金属与金属的直接接触，维修更换简单方便。

#### 9. 高性能弹簧(失气复位弹簧)

采用优质材料、涂层处理，预压装配。具有较强的抗腐蚀性和使用寿命。能够安全、简单的拆卸单作用执行器，通过改变弹簧数量满足不同的力矩输出范围。

#### 7. Seal

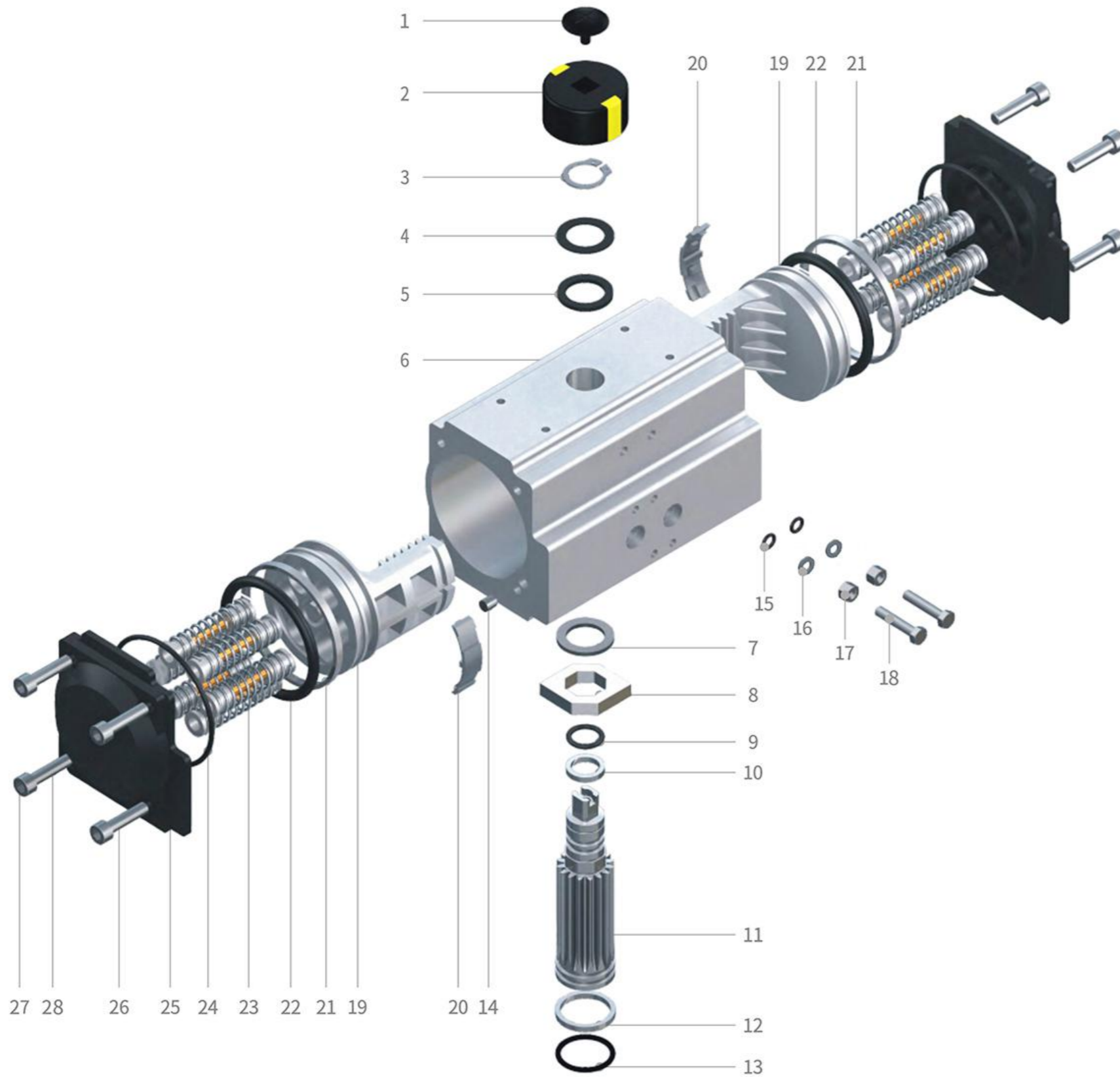
Use nitrile rubber under normal temperature working conditions, and use fluorine rubber or silicone rubber at high or low temperatures.

#### 8. Low friction guide ring

The use of low-friction, long-life composite materials avoids direct metal-to-metal contact, making maintenance and replacement simple and convenient.

9. High-performance spring (deflated return spring)  
Made of high-quality materials, coating treatment, pre-pressed assembly. Has strong corrosion resistance and service life. The single-acting actuator can be disassembled safely and simply, and different torque output ranges can be satisfied by changing the number of springs.





防腐等级 Anticorrosion grade

零件 Component	防腐等级 Anticorrosion grade	
	A	B
缸体 Cylinder	阳极硬化 Anodized	特氟隆涂层+阳极硬化 Teflon coating + anodized hardening
端盖 End cap	金属聚酯涂层 Metal polyester coating	特氟隆涂层 Teoxion coating
输出轴 Output shaft	碳钢化学镀镍 Carbon Steel Electroless Nickel Plating	碳钢化学镀镍或不锈钢 Carbon steel electroless nickel or stainless steel
使用场合 Use occasions	一般场合 General occasion	一般场合或低浓度酸性环境 General occasions or low-concentration acidic environments

零件和材料 Parts and Materials

序号 No.	名称 Name	数量 Quantity	材料 Material	防腐处理 Anticorrosion treatment	可选材料 Optional material
1	指示器螺钉 Indicator screw	1	塑料 Plastic	-	-
2	指示器 Indicator	1	塑料 Plastic	-	-
3	卡簧 Circlip	1	不锈钢 Stainless steel	-	-
4	垫圈 Washer	1	不锈钢 Stainless steel	-	-
5	外垫片 Outer gasket	1	工程塑料 Engineering plastics	-	-
6	缸体 Cylinder	1	铸铝 Cast aluminum	硬质氧化等 Hard oxidation etc	-
7	内垫片 Inner gasket	1	工程塑料 Engineering plastic	-	-
8	凸轮 Cam	1	合金钢 Alloy steel	-	-
9	上轴O圈 Upper shaft O ring	1	丁腈橡胶 Nitrile rubber	-	氟橡胶/硅橡胶 Fluorine rubber/silicon rubber
10	上轴轴承 Upper shaft bearing	1	工程塑料 Engineering plastic	-	-
11	多功能齿轮轴 Multifunctional gear shaft	1	合金钢 Alloy steel	镀镍 Nickel plated	不锈钢 Stainless steel
12	下轴轴承 Lower shaft bearing	1	工程塑料 Engineering plastic	-	-
13	下轴O圈 Lower shaft O ring	1	丁腈橡胶 Nitrile rubber	-	氟橡胶/硅橡胶 Fluorine rubber/silicon rubber
14	堵头 Plug	2	丁腈橡胶 Nitrile rubber	-	氟橡胶/硅橡胶 Fluorine rubber/silicon rubber
15	调节螺钉O圈 Adjusting screw O-ring	2	丁腈橡胶 Nitrile rubber	-	氟橡胶/硅橡胶 Fluorine rubber/silicon rubber
16	调节螺钉垫圈 Adjusting screw washer	2	不锈钢 Stainless steel	-	-
17	调节螺钉螺母 Adjusting screw nut	2	不锈钢 Stainless steel	-	-
18	调节螺栓 Adjusting Bolt	2	不锈钢 Stainless steel	-	-
19	活塞 Piston	2	铸铝/铸钢 Cast aluminum/cast steel	氧化/镀锌 Oxidized/Galvanized	不锈钢 Stainless steel
20	活塞导板 Piston guide	2	工程塑料 Engineering plastic	-	-
21	活塞轴承 Piston bearing	2	工程塑料 Engineering plastic	-	-
22	活塞O圈 Piston O-ring	2	丁腈橡胶 Nitrile rubber	-	氟橡胶/硅橡胶 Fluorine rubber/silicon rubber
23	弹簧 Spring	0~12	弹簧钢 Spring steel	浸漆 Dip paint	-
24	端盖O圈 End cap O-ring	2	丁腈橡胶 Nitrile rubber	-	氟橡胶/硅橡胶 Fluorine rubber/silicon rubber
25	端盖 End cap	2	铸铝 Cast aluminum	粉末喷涂等 Powder coating etc.	-
26	端盖防脱螺栓 End cap anti-drop bolt	8	不锈钢 Stainless steel	-	-
27	限位螺栓 Limit bolt	2	不锈钢 Stainless steel	-	-
28	限位螺母 Limit Nut	2	不锈钢 Stainless steel	-	-

### 双作用执行器 - 工作原理 Double Acting Actuator - Operating Principle

当气源压力从气口(2)进入气缸两活塞之间中腔时,使两活塞分离向气缸两端方向移动,两端气腔的空气通过气口(4)排出,同时使两活塞齿条同步带动输出轴(齿轮)逆时针方向旋转。

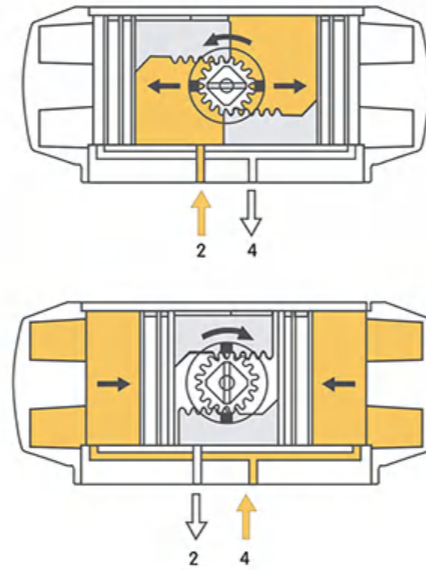
反之气源压力从气口(4)进入气缸两端气腔时,使两活塞向气缸中间方向移动,中间气腔的空气通过气口(2)排出,同时使两活塞齿条同步带动输出轴(齿轮)顺时针方向旋转。

(如果把活塞相对反方向安装,输出轴变为反向旋转)

When the air source pressure enters the middle cavity between the two pistons of the cylinder from the air port (2), the two pistons are separated and moved toward both ends of the cylinder, the air in the air cavities at both ends is discharged through the air port (4), and the two piston racks are synchronized Drive the output shaft (gear) to rotate counterclockwise.

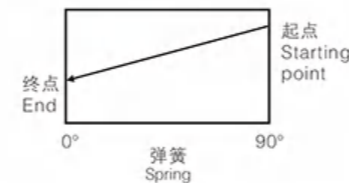
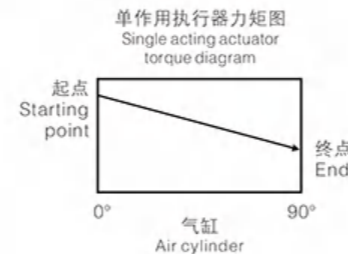
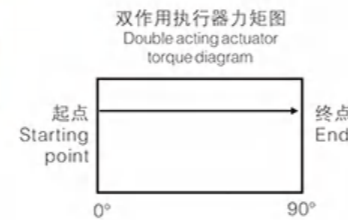
On the contrary, when the air source pressure enters the air chambers at both ends of the cylinder from the air port (4), the two pistons move toward the middle of the cylinder, the air in the middle air chamber is discharged through the air port (2), and the two piston racks simultaneously drive the output shaft (gear). ) rotate clockwise.

(If the piston is installed in the opposite direction, the output shaft will rotate in the opposite direction)



#### AT双作用式执行器输出力矩 AT double-acting actuator output torque

型号 Type	输入气源压力 (单位: bar) Input air supply pressure (Unit: bar)					
	3.0	4.0	5.0	6.0	7.0	8.0
AT032	4.6	6.1	7.6	9.2	10.7	12.2
AT052	12.0	16.0	20.0	24.0	28.0	32.0
AT063	21.7	28.9	36.1	43.4	50.6	57.8
AT075	35.0	46.6	58.3	69.9	81.6	93.2
AT083	42.8	57.0	71.3	85.5	99.8	114.0
AT092	67.6	90.1	112.6	135.2	157.7	180.2
AT105	97.7	130.3	162.9	195.5	228.0	260.6
AT125	173.3	231.0	288.8	346.5	404.3	462.0
AT140	260.7	347.6	434.5	521.4	608.3	695.2
AT160	397.2	529.6	662.0	794.4	926.8	1059.2
AT190	640.2	853.6	1067.0	1280.4	1493.8	1707.2
AT210	879.8	1173.1	1466.4	1759.7	2052.9	2346.2
AT240	1379.0	1838.6	2298.3	2757.9	3217.6	3677.2
AT270	1939.2	2585.6	3232.0	3878.4	4524.8	5171.2



### 单作用执行器 - 工作原理 Single Acting Actuator - Operating Principle

当气源压力从气口(2)进入气缸两活塞之间中腔时,使两活塞分离向气缸两端方向移动,迫使两端的弹簧压缩,两端气腔的空气通过气口(4)排出,同时使两活塞齿条同步带动输出轴(齿轮)逆时针方向旋转。

在气源压力经过电磁阀换向后,气缸的两活塞在弹簧的弹力下向中间方向移动,中间气腔的空气从气口(2)排出,同时使两活塞齿条同步带动输出轴(齿轮)顺时针方向旋转。

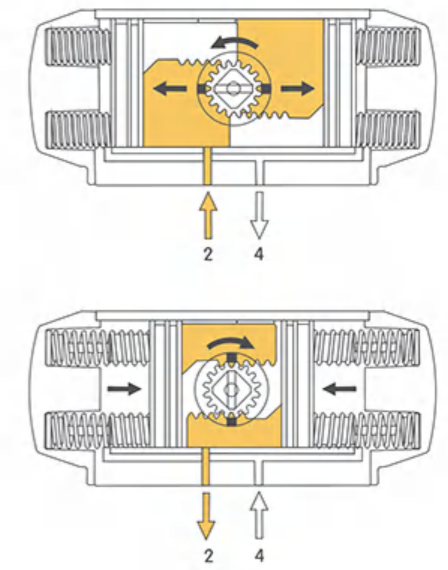
(如果把活塞相对反方向安装,输出轴变为反向旋转)

When the air source pressure enters the middle cavity between the two pistons of the cylinder from the air port (2), the two pistons are separated and moved toward both ends of the cylinder, forcing the springs at both ends to compress, and the air in the air cavities at both ends is discharged through the air port (4), and at the same time The two piston racks are synchronously driven to rotate the output shaft (gear) counterclockwise.

After the air source pressure is reversed by the solenoid valve, the two pistons of the cylinder move to the middle direction under the elastic force of the spring, the air in the middle air cavity is discharged from the air port (2), and the two piston racks simultaneously drive the output shaft (gear). Rotate clockwise.

(If the piston is installed in the opposite direction, the output shaft will rotate in the opposite direction)

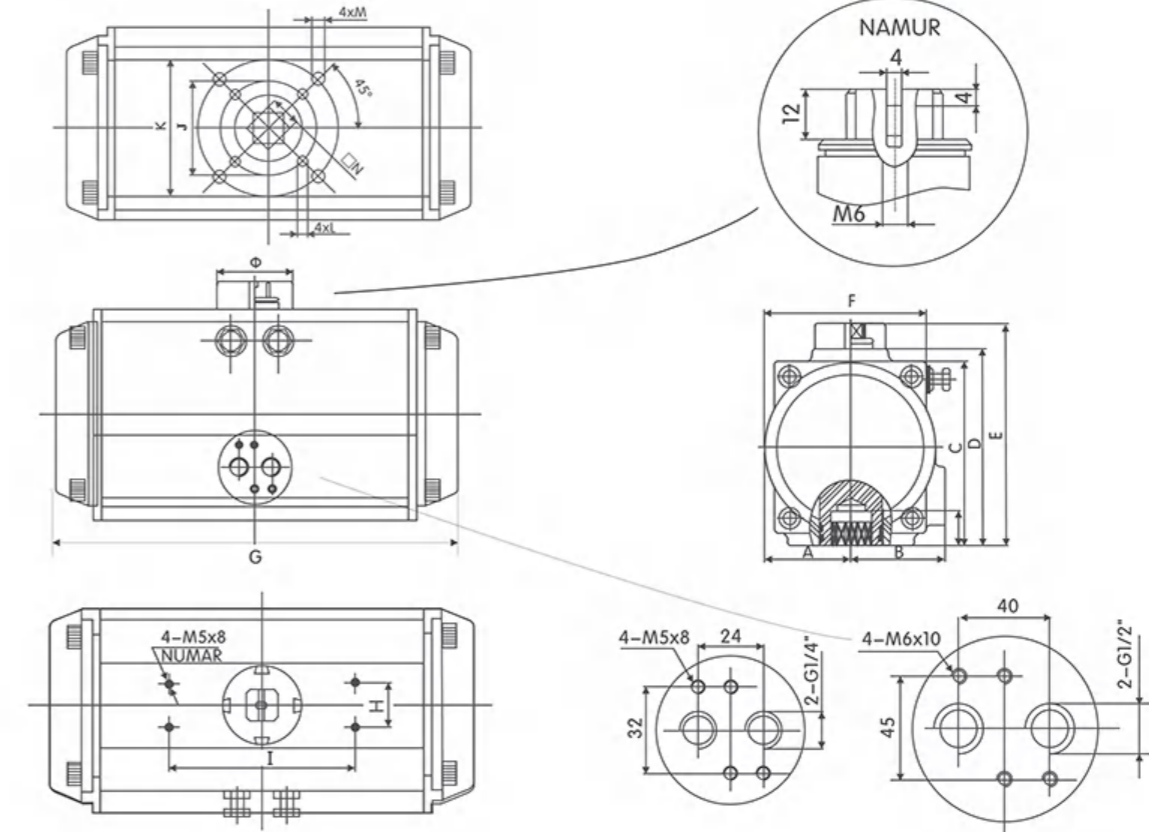
### AT气动执行器 AT Pneumatic Actuator



#### 单作用执行器 - 输出力矩 (单位: 牛米) Single Acting Actuator - Output Torque (Unit: Nm)

气源克服弹簧输出力矩 Air source overcomes spring output torque																弹簧输出力矩 Spring output torque		
输入气源压力 (单位: 巴) Type	2.5Bar		3Bar		4Bar		5Bar		6Bar		7Bar		8Bar		0° Start	90° End		
	弹簧数量 Spring number	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End					
AT52SR	5	5.7	3.8	7.6	5.7											6.2	4.3	
	6	4.9	2.5	6.9	4.5	10.9	8.5									7.4	5.0	
	7	4.0	1.3	6.0	3.3	9.8	7.3	14.0	10.4							8.6	5.9	
	8			5.2	2.0	9.2	6.0	13.2	9.1	17.2	14.1					9.9	6.7	
	9			4.3	0.8	8.3	4.8	12.3	7.9	16.3	12.8	20.3	16.8			11.1	7.6	
	10					7.4	3.6	11.5	6.7	15.5	11.6	19.5	15.6			12.4	8.5	
	11					6.6	2.3	10.6	5.4	14.6	10.4	18.6	14.3	22.6	18.3	13.6	9.3	
	12							9.7	4.2	13.8	9.1	17.8	12.2	21.8	17.1	14.8	10.2	
	AT63SR	5	11.4	7.7	15.0	11.4	22.3	14.9									10.4	6.8
		6	10.1	5.7	13.6	9.3	20.9	16.6	28.3	23.9							12.5	8.2
		7	8.6	3.6	12.5	7.2	19.5	14.5	26.8	21.9							14.6	9.6
		8			10.9	5.1	18.2	12.4	25.5	19.8	32.8	27.0	40.1	34.3			16.7	10.9
9						16.8	10.4	24.1	17.7	31.4	24.9	38.7	32.2			18.8	12.3	
10						1.4	8.2	22.8	15.6	30.0	22.8	37.3	30.1	44.7	37.4	20.9	13.7	
11								21.5	13.5	28.7	20.7	36.0	28.0	43.3	35.3	22.9	15.0	
12								20.0	11.4	27.3	18.6	34.6	25.9	41.9	33.3	25.0	16.4	
AT75SR		5	14.5	10.6	19.4	15.5	29.5	25.7									14.5	10.5
		6	12.4	7.6	17.3	12.6	27.4	22.7	37.5	32.8							17.4	12.7
		7	10.4	4.8	15.2	9.7	25.3	19.9	35.4	29.9							20.3	14.8
		8			13.1	6.8	23.1	16.9	33.3	27.0	43.2	37.0	53.3	47.0			23.2	16.9
	9					21.0	14.1	34.2	24.1	41.1	34.1	51.2	44.2			26.1	19.0	
	10					19.0	11.1	28.8	21.2	39.0	31.2	49.1	41.2	59.1	51.2	29.0	21.1	
	11							27.0	18.3	37.0	28.3	47.0	38.4	57.0	48.4	31.9	23.2	
	12							24.9	15.4	34.9	25.4	44.9	35.4	54.9	45.4	34.7	25.3	
	AT83SR	5	23.3	16.1	31.1	24.0	46.8	39.7									23.0	15.8
		6	20.1	11.5	28.0	19.3	43.7	35.1	59.4	50.7							27.6	19.0
		7	17.0	6.9	24.8	14.8	40.5	30.5	56.2	46.2							32.2	22.1
		8			21.7	10.1	37.4	25.8	53.1	41.5	68.8	57.2	84.5	72.9			36.8	25.3
9						34.2	21.3	49.9	37.0	65.6	52.6	81.2	68.3			41.4	28.5	
10						31.0	16.6	46.7	32.3	62.4	48.0	78.1	63.7	93.8	79.3	46.0	31.6	
11								43.6	27.7	59.3	43.4	75.0	59.1	90.6	74.8	50.6	34.8	
12								40.4	23.2	56.1	38.9	71.7	54.5	87.4	70.2	55.2	38.0	
AT92SR		5	33.1	22.0	44.2	33.2	66.8	55.9									34.4	23.3
		6	28.4	15.2	39.6	26.4	62.2	49.0	84.8	71.6							41.2	28.0
		7	23.8	8.2	34.9	19.4	57.5	42.1	80.2	64.7							48.1	32.7
		8			31.3	12.6	52.9	35.2	75.5	57.9	98.1	80.5	120.7	103.0			55.0	37.3
	9					48.2	28.4	70.9	51.0	93.5	73.6	116.0	96.1			61.9	42.0	
	10					43.6	21.5	66.2	44.1	88.8	66.7	111.3	89.2	134.0	111.8	68.7	46.7	
	11							61.5	37.2	84.1	59.9	106.6	82.4	129.2	105.0	75.6	51.4	
	12							56.8	30.4	79.4	53.0	101.9	75.5	124.5	98.1	82.5	56.0	

气源克服弹簧输出力矩 Air source overcomes spring output torque															弹簧输出力矩 Spring output torque					
输入气源压力 (单位: 巴)		2.5Bar		3Bar		4Bar		5Bar		6Bar		7Bar		8Bar		0°	90°			
型号 Type	弹簧数量 Spring number	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	0° 开始 Start	90° 结束 End	开始 Start	结束 End			
AT105SR	5	51.0	33.4	67.5	49.9	100.6	83.0									49.2	31.6			
	6	44.7	23.5	61.1	40.0	94.2	73.2	127.3	106.2							59.1	38.0			
	7	38.4	13.7	54.9	30.3	87.9	63.4	121.0	96.4							68.9	44.3			
	8					48.5	20.4	81.6	53.5	114.7	86.5	147.7	119.6	180.8	152.7		78.7	50.6		
	9							75.3	43.7	108.4	76.8	141.5	109.8	174.5	142.9		88.6	56.9		
	10							68.9	33.4	102.0	66.5	135.1	99.6	168.2	132.6	201.2	165.7	98.4	63.3	
	11										95.7	57.0	128.7	90.1	161.8	123.1	194.8	156.2	108.3	69.6
	12										89.4	47.5	122.5	80.6	155.5	113.6	188.6	146.7	118.1	75.9
	AT125SR	5	73	47	98	72	148	122									79	52		
		6	63	31	88	56	138	107	188	157							94	63		
		7	52	15	77	40	127	90	178	141							110	73		
		8					67	25	117	75	167	125	217	176	268	226		125	84	
9								107	59	157	109	207	159	257	210		141	94		
10								96	44	146	94	196	144	247	194	297	245	157	105	
11										136	78	186	128	236	178	286	228	173	115	
12										125	63	176	113	226	163	276	213	188	125	
AT140SR		5	128	85	171	127	256	213									129	86		
		6	111	59	154	102	239	187	325	273							155	103		
		7	94	33	137	76	222	162	308	247							181	120		
		8					120	50	205	136	291	221	376	307	462	392		206	137	
	9							187	110	273	196	358	281	444	367		232	155		
	10							170	84	256	169	341	255	427	340	512	426	258	172	
	11									238	143	324	229	409	314	495	400	284	189	
	12									221	118	307	203	392	289	478	374	310	206	
	AT160SR	5	193	124	259	191	392	324									208	140		
		6	165	83	232	149	365	282	498	415							250	168		
		7	137	41	203	107	336	240	469	373							292	196		
		8					176	66	309	199	442	237	575	465	708	598		333	223	
9								280	157	413	290	546	423	679	556		375	251		
10								253	115	386	248	519	381	652	514	785	647	417	279	
11										358	207	491	340	624	473	757	606	458	307	
12										330	165	463	298	596	431	729	564	500	335	
AT190SR		5	332	222	438	329	651	542									309	200		
		6	292	161	398	267	611	480	824	693							371	240		
		7	252	99	358	205	571	418	784	631							433	280		
		8					318	143	531	356	744	569	957	782	1169	995		495	320	
	9							491	295	704	507	917	720	1130	933		557	360		
	10							451	233	664	446	877	658	1090	871	1302	1084	618	400	
	11									624	384	837	597	1050	809	1263	1022	680	440	
	12									584	322	797	535	1010	748	1223	960	742	480	
	AT210SR	5	390	285	523	418	789	684									380	275		
		6	335	209	468	342	734	608	1000	874							456	330		
		7	280	133	413	266	679	532	945	798							532	385		
		8					358	190	624	456	890	722	1156	988	1422	1254		608	440	
9								569	380	835	646	1101	912	1367	1178		684	495		
10								514	304	780	570	1046	836	1312	1102	1578	1368	760	550	
11										725	494	991	760	1257	1025	1523	1292	836	605	
12										670	418	936	684	1202	950	1468	1216	912	660	
AT240SR		5	552	409	744	600	1129	985									554	410		
		6	470	297	662	489	1047	874	1432	1259							665	492		
		7	388	187	580	379	964	764	1349	1149							775	575		
		8					498	268	883	653	1267	1037	1652	1422	2037	1807		886	656	
	9							800	542	1185	926	1569	1311	1954	1696		998	739		
	10							718	431	1103	816	1488	1201	1872	1586	2257	1970	1108	821	
	11									1021	705	1406	1090	1791	1474	2176	1859	1219	903	
	12									939	594	1323	979	1708	1363	2093	1748	1330	985	
	AT270SR	5	903	675	1195	968	1779	1552									787	560		
		6	790	519	1083	811	1667	1396	2252	1981							943	672		
		7	679	361	972	654	1556	1238	2141	1823							1101	783		
		8					860	497	1444	1081	2029	1666	2614	2252	3199	2836		1258	895	
9								1332	923	1917	1509	2502	2094	3087	2678		1416	1007		
10								1220	767	1805	1352	2390	1937	2974	2521	3560	3107	1572	1119	
11										1693	1194	2278	1779	2862	2364	3448	2949	1730	1231	
12										1582	1037	2167	1623	2751	2207	3336	2792	1887	1342	
AT300SR		5	1097	729													1061	730		
		6	935	494	1316	875											1273	876		
		7	772	258	1153	639	1916	1402									1485	1022		
		8					991	403	1754	1166	2517	1929					1697	1168		
	9							1592	930	2355	1693	3118	2456			1909	1314			
	10							1430	695	2193	1458	2956	2221	3719	2984	4482	3747	2122	1460	
	11									2030	1222	2793	1985	3556	2748	4319	3511	2334	1606	
	12									1868	986	2631	1749	3394	2512	4157	3275	2546	1752	
	AT350SR	5	1553	964													1702	1173		
		6	1292	586	1863	1157											2043	1408		
		7	1031	208	1602	779	2745	1922									2383	1642		
		8					1341	401	2484	1544	3626	2686					2724	1877		
9								2224	1165	3336	2307	4508	3449			3064	2112			
10								1963	787	3105	1929	4247	3071	5390	4214	6532	5356	3405	2346	
11										2844	1551	3986	2693	5129	3836	6271	4978	3745	2581	
12										2584	1172	3726	2314	4869	3457	6011	4599	4086	2816	

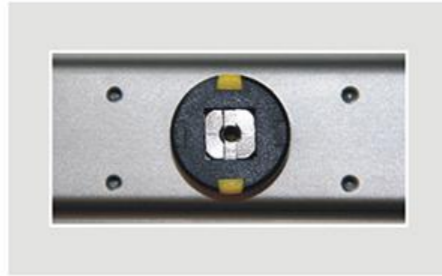


尺寸表 Size specification

型号 Type	A	B	C	D	E	F	G	H	I	J	K	L	M	□	Z	Φ	气源接口 Air interface
AT52	30	41.5	65.5	72	92	65	147	30	80	F03	F05	M5×8	M6×10	11	14	Φ40	NAMURG1/4"
AT63	36	47	81	87.5	107.5	72	168	30	80	F05	F07	M6×10	M8×13	14	18	Φ40	NAMURG1/4"
AT75	42	53	94	99.5	119.5	81	184	30	80	F05	F07	M6×10	M8×13	14	18	Φ40	NAMURG1/4"
AT83	46	57	98.5	108.7	128.7	92	204	30	80	F05	F07	M6×10	M8×13	14	21	Φ40	NAMURG1/4"
AT92	50	58.5	111	116.8	136.8	98	262	30	80	F05	F07	M6×10	M8×13	14	21	Φ40	NAMURG1/4"
AT105	57.5	64	122.5	133	153	109.5	268	30	80	F07	F10	M8×13	M10×16	17	26	Φ40	NAMURG1/4"
AT125	67.5	74.5	145.5	155	175	127.5	296	30	80	F07	F10	M8×13	M10×16	22	26	Φ55	NAMURG1/4"
AT140	75	77	160.75	171.5	191.5	137.5	390	30	80	F10	F12	M10×16	M12×20	27	31	Φ55	NAMURG1/4"
AT160	87	87	184	197	217	158	454	30	80	F10	F12	M10×16	M12×20	27	31	Φ55	NAMURG1/4"
AT190	103	103	216	230	260	189	525	30	130		F14		M16×25	36	40	Φ80	NAMURG1/4"
AT210	113	113	235.5	2													



- 气源接口符合NAMUR标准，可简单方便地安装电磁阀。
- Air source interface meets NAMUR standard, allowing easy installation of solenoid valves.



- 输出轴的NAMUR标准槽和缸体上部标准安装孔，可使限位开关、定位器直接啮合和安装。
- NAMUR standard groove of output shaft and standard mounting hole of upper cylinder block enable direct meshing and installation of limit switch and positioner.



- 底部安装孔设计符合ISO 5211、DIN 3337 标准，可以直接安装离合器(气动手轮机构)或安装支架。
- The bottom mounting hole is designed in accordance with ISO 5211, DIN 3337 standards, and can be directly installed clutch (pneumatic handwheel mechanism) or mounting bracket.

重量表 Weight table

型号 Type	双作用执行器重量(kg) Double acting actuator weight (kg)	单作用执行器重量(kg) Single acting actuator weight (kg)	型号 Type	双作用执行器重量(kg) Double acting actuator weight (kg)	单作用执行器重量(kg) Single acting actuator weight (kg)
AT052	1.4	1.5	AT160	20.1	24
AT063	2.0	2.1	AT190	31.3	35.3
AT075	2.7	2.9	AT210	46.8	54.8
AT083	3.1	3.6	AT240	67.3	80.2
AT092	4.6	5.2	AT270	96.9	118
AT105	6.8	6.9	AT300	110	130
AT125	9.0	10.1	AT350	186	234
AT140	13.2	15.6			

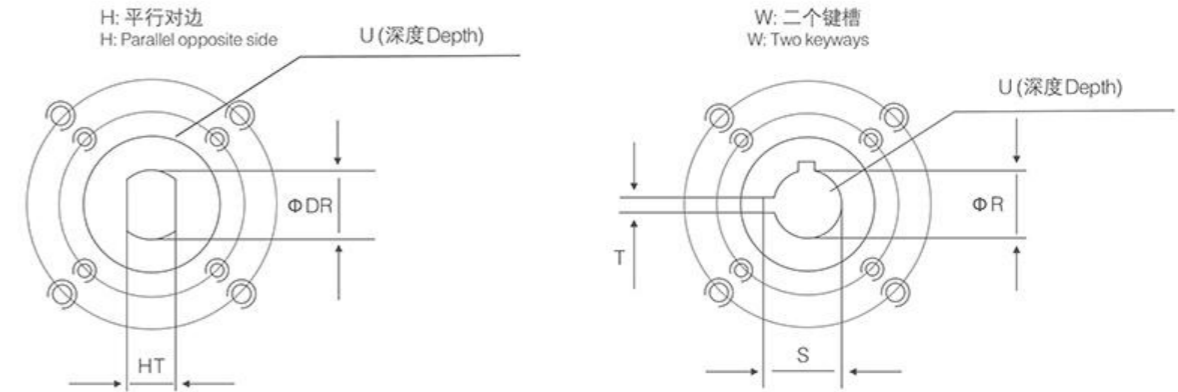
耗气量 Air consumption

型号 Type	开向体积(升) Open volume (liters)	关向体积(升) Closed volume (liters)	型号 Type	开向体积(升) Open volume (liters)	关向体积(升) Closed volume (liters)
AT052	0.12	0.16	AT160	3.7	3.2
AT063	0.21	0.23	AT190	5.9	5.4
AT075	0.30	0.34	AT210	7.5	7.5
AT083	0.43	0.47	AT240	11.0	9.0
AT092	0.64	0.73	AT270	17.0	14.0
AT105	0.95	0.88	AT300	23.8	29.7
AT125	1.60	1.40	AT350	35.1	46.3
AT140	2.50	2.20			

开关时间 Switching time

型号 Type	开向时间(秒) Open time (seconds)	关向时间(秒) Off time (seconds)	型号 Type	开向时间(秒) Open time (seconds)	关向时间(秒) Off time (seconds)
AT052	0.2	0.3	AT160	1.5	1.7
AT063	0.3	0.3	AT190	2.0	2.2
AT075	0.3	0.4	AT210	2.7	3.2
AT083	0.4	0.5	AT240	3.5	4.0
AT092	0.5	0.6	AT270	4.0	4.5
AT105	0.7	0.8	AT300	5.0	5.5
AT125	0.9	1.1	AT350	6.0	7.0
AT140	1.2	1.4			

输出孔连接尺寸(定制) Output hole connection size (customized) (mm)

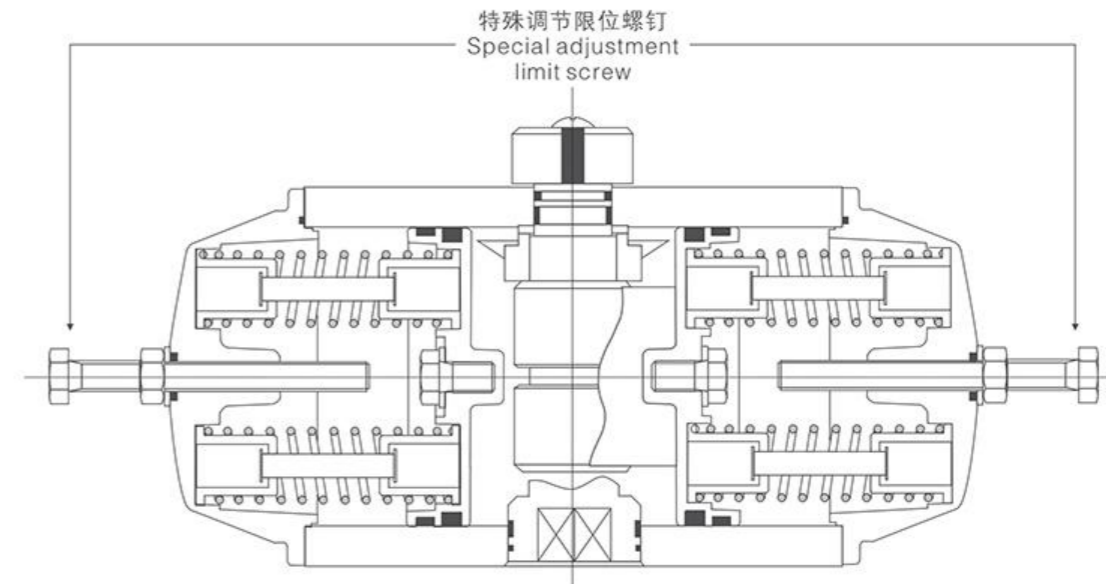


型号 Type	AT52	AT63	AT75	AT83	AT92	AT105	AT125	AT140	AT160	AT190	AT210	AT240	AT270	AT300
ΦR	12.7	12.7	12.7	15.88	19.05	22.23	22.23	28.58	28.58	31.75	31.75	33.34	38.1	41.28
S	14.2	14.2	14.2	18.4	21.6	24.8	24.8	32.1	32.1	35.3	35.3	37.4	42.4	45.3
T	3	3	5	5	5	5	5	8	8	8	8	10	10	12
U	32	32	32	32	32	45	45	45	45	45	45	51	51	65
ΦDA	13	13	13	16.1	19.2	22.4	22.4	28.8	28.8	32	32	33.6	38.4	41.5
HT	10	10	10	12	14	17	17	22	22	24	24	27	27	32

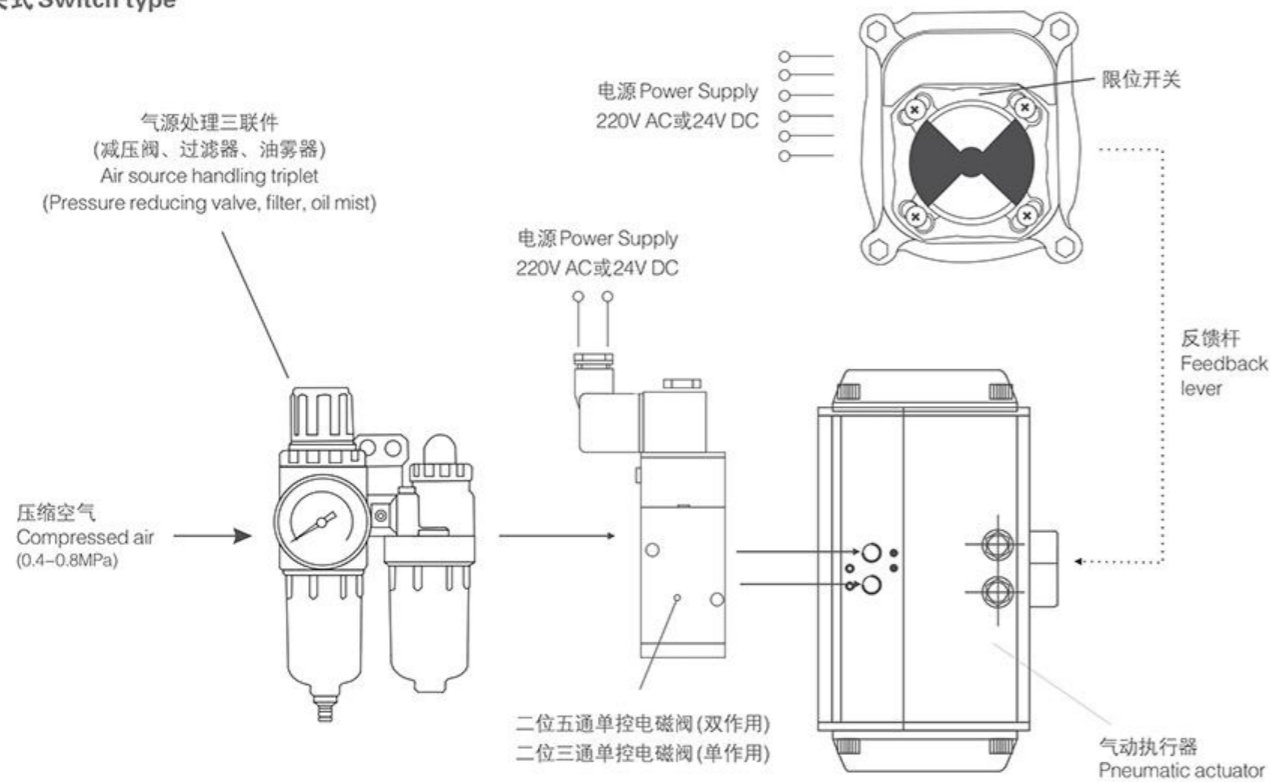
全行程调节限位执行器 Full stroke adjustment limit actuator

新型气动执行器在两端提供特殊调节限位螺钉，客户可根据需要调节0° -90° /0° -120° 或0° -180° 范围内任意角度，在所有系列执行器上都可进行全行程调节。

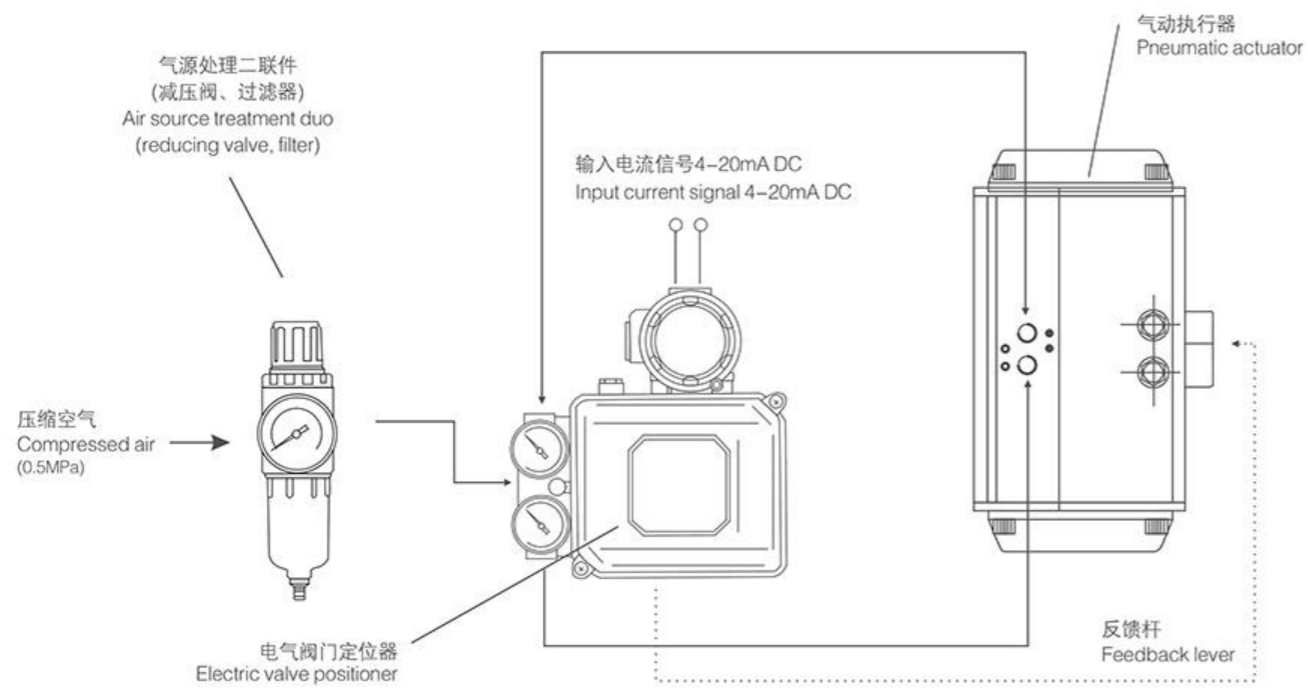
The new pneumatic actuator is provided with special adjustment limit screws at both ends. Customers can adjust any angle within the range of 0° - 90° / 0° - 120° or 0° - 180° according to their needs. All series of actuators can be adjusted in the whole line.



开关式 Switch type



调节式 Adjustable



> AW气动执行器  
 AW Pneumatic Actuator

产品特点 Product features

AW系列气动执行器分为双作用式和单作用式(弹簧复位), 两个分体气缸, 双活塞同步动作, 拔叉式传动结构, 具容易制造大尺寸气缸体, 输出扭矩大, 动作灵活平稳。

气缸体内壁镀铬抛光或喷涂特氟龙涂层, 活塞杆镀铬抛光, 有很好的抗磨性; 所有滑动部件之间均配有无油润滑轴承和导向环以降低摩擦系数, 延长使用寿命。

AW系列气动执行器的U型曲线特性输出扭矩更适用于大口径球阀、蝶阀的开关和调节, 也可用于其他90° 回转场合。

可以加装其他控制附件。

AW series pneumatic actuators are divided into double-acting type and single-acting type (spring return), two separate cylinders, double-piston synchronous action, fork type transmission structure, easy to manufacture large size cylinder block, large output torque, flexible action smooth.

The inner wall of the cylinder is plated with hard chrome polishing or sprayed with Teflon coating, and the piston rod is plated with hard chrome polishing, which has good wear resistance; all sliding parts are equipped with oil-free bearings and guide rings to reduce the friction coefficient, Extended service life.

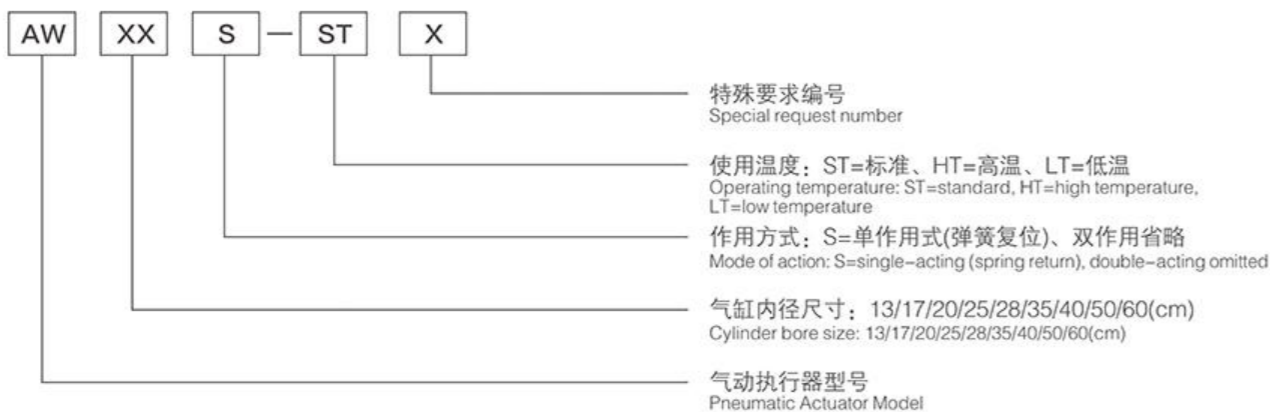
The U-shaped curve characteristic output torque of the AW series pneumatic actuator is more suitable for the switching and adjustment of large-diameter ball valves and butterfly valves, and can also be used in other 90° rotating occasions.

Additional control accessories can be added.

标准参数 Standard Parameters

基本设计 Basic design	双气缸双活塞拔叉式传动 Double-cylinder double-piston fork transmission 型号AWxx=双作用式 Model AWxx=Double acting 型号AWxxS=单作用式(弹簧复位) Model AWxxS=Single acting (spring return)
回转角度 Rotation angle	双作用式 Double acting =90° 单作用式 Single acting =90° 从两端可手动调节角度 Manually adjustable angle from both ends -5° +5°
工作温度 Working temperature	ST标准 Standard: -20°C~90°C HT高温 High temperature: -15°C~150°C LT低温 Low temperature: -40°C~80°C
气源工作压力 Air source working pressure	0.4~0.8MPa(最大 maximum 1.0MPa)

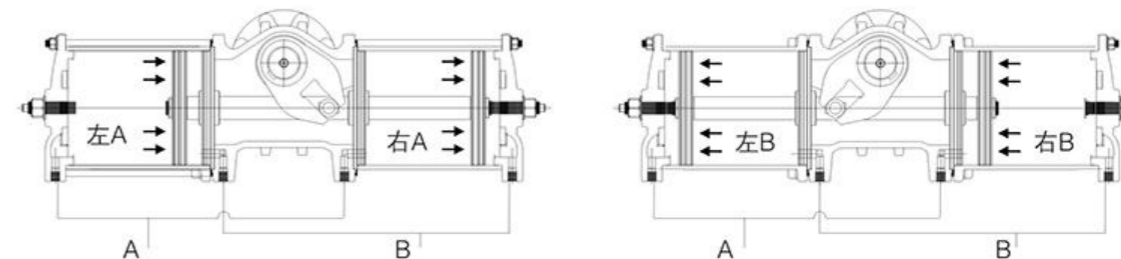
型号编制 Model preparation



工作原理 Working Principle

AW气动执行器 AW Pneumatic Actuator

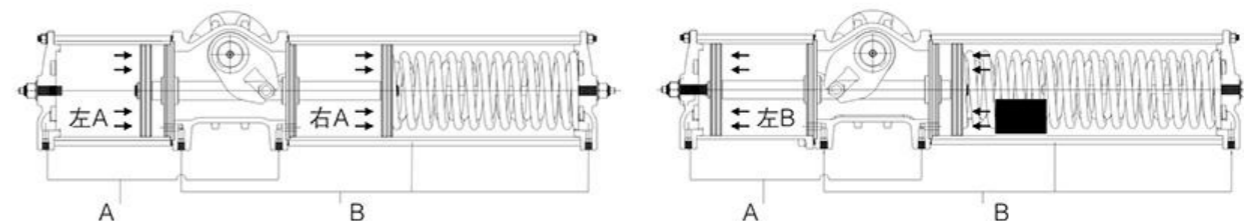
双作用工作原理 Double acting principle



(见上图)当有压力的气源从气口(A)进入气缸(左A和右A)气腔时, 使两活塞及活塞杆组件同步向气缸右端方向移动, (左B和右B)气腔的空气通过气口(B)排出, 同时由活塞组件同步带动拔叉转轴向逆时针方向旋转, 完成角行程0° -90° 动作。经过电磁阀换气后气源压力从气口(B)进入气缸(左B和右B)两端气腔时, 使两活塞及活塞杆组件向气缸左端方向移动, (左A和右A)气腔的空气通过气口(A)排出, 同时由活塞组件同步带动拔叉转轴向顺时针方向旋转, 完成90° -0° 动作。

(See the picture above) When the pressurized air source enters the air cavity of the cylinder (left A and right A) from the air port (A), the two pistons and the piston rod assembly move synchronously to the right end of the cylinder, forcing the spring assembly to compress, (left A and right A) B and right B) the air in the air cavity is discharged through the air port (B), and at the same time, the piston assembly synchronously drives the fork shaft to rotate counterclockwise to complete the angular stroke of 0° -90° . After the solenoid valve is ventilated, the air source pressure generates elastic force from the spring assembly at the pressure relief (right B) end of the air port (A), so that the two pistons and the piston rod assembly move toward the left end of the cylinder, and at the same time, the piston assembly synchronously drives the fork to rotate the shaft. Rotate clockwise to complete the 90° -0° motion.

单作用工作原理 Single acting principle



(见上图)当有压力的气源从气口(A)进入气缸(左A和右A)气腔时, 使两活塞及活塞杆组件同步向气缸右端方向移动, 迫使弹簧组件压缩, (左B和右B)气腔的空气通过气口(B)排出, 同时由活塞组件同步带动拔叉转轴向逆时针方向旋转, 完成角行程0° -90° 动作。经过电磁阀换气后气源压力从气口(A)泄压(右B)端的弹簧组件产生弹力, 使两活塞及活塞杆组件向气缸左端方向移动, 同时由活塞组件同步带动拔叉转轴向顺时针方向旋转, 完成90° -0° 动作。

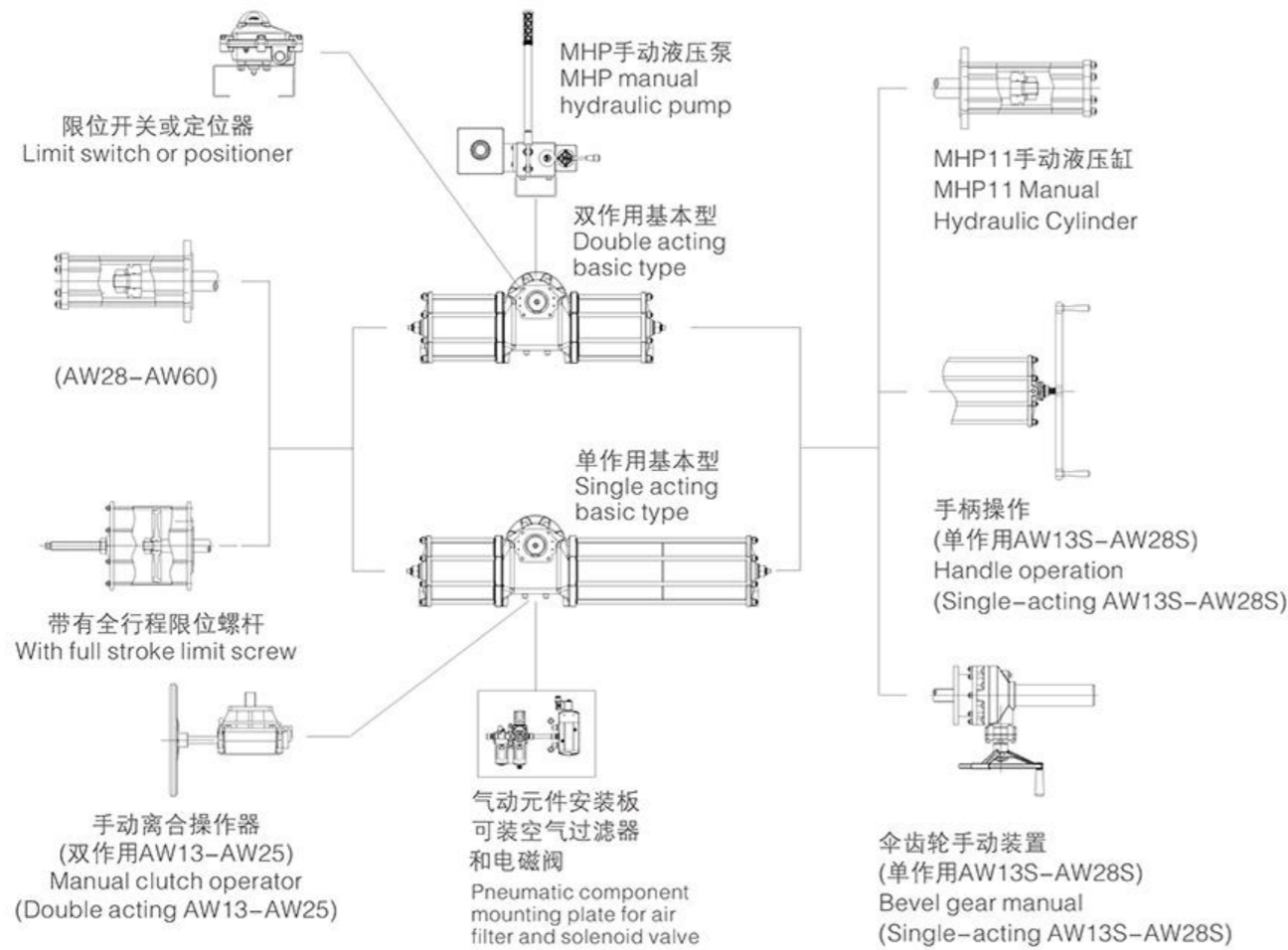
(See the picture above) When the pressurized air source enters the air cavity of the cylinder (left A and right A) from the air port (A), the two pistons and the piston rod assembly move synchronously to the right end of the cylinder, forcing the spring assembly to compress, (left A and right A) B and right B) the air in the air cavity is discharged through the air port (B), and at the same time, the piston assembly synchronously drives the fork shaft to rotate counterclockwise to complete the angular stroke of 0° -90° . After the solenoid valve is ventilated, the air source pressure generates elastic force from the spring assembly at the pressure relief (right B) end of the air port (A), so that the two pistons and the piston rod assembly move toward the left end of the cylinder, and at the same time, the piston assembly synchronously drives the fork to rotate the shaft. Rotate clockwise to complete the 90° -0° motion.

AW系列阀门执行器扩展了多功能模式，可以选装各种手动操作模式，如手轮或手动液压模式、开关切断或调节阀模式等，使执行器选型配置由复杂变成简单。

用户可根据阀门的工艺控制流程的功能需要，选择各种合适的模式。

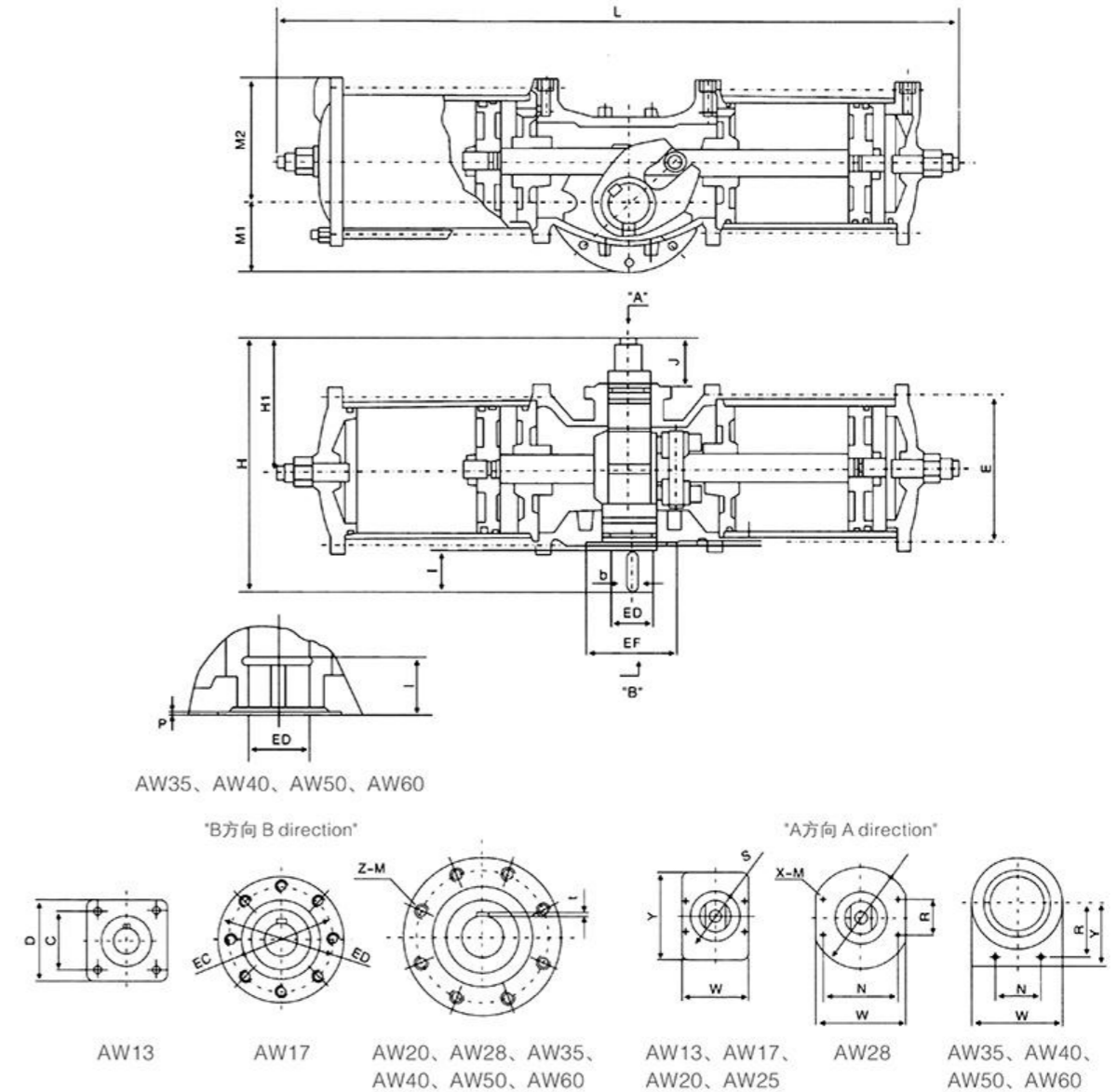
AW series valve actuators expand the multi-function mode, and can choose various manual operation modes, such as handwheel or manual hydraulic mode, switch cut-off or regulating valve mode, etc., which makes the actuator selection and configuration from complex to simple.

Users can choose various suitable modes according to the functional requirements of the valve's process control process.



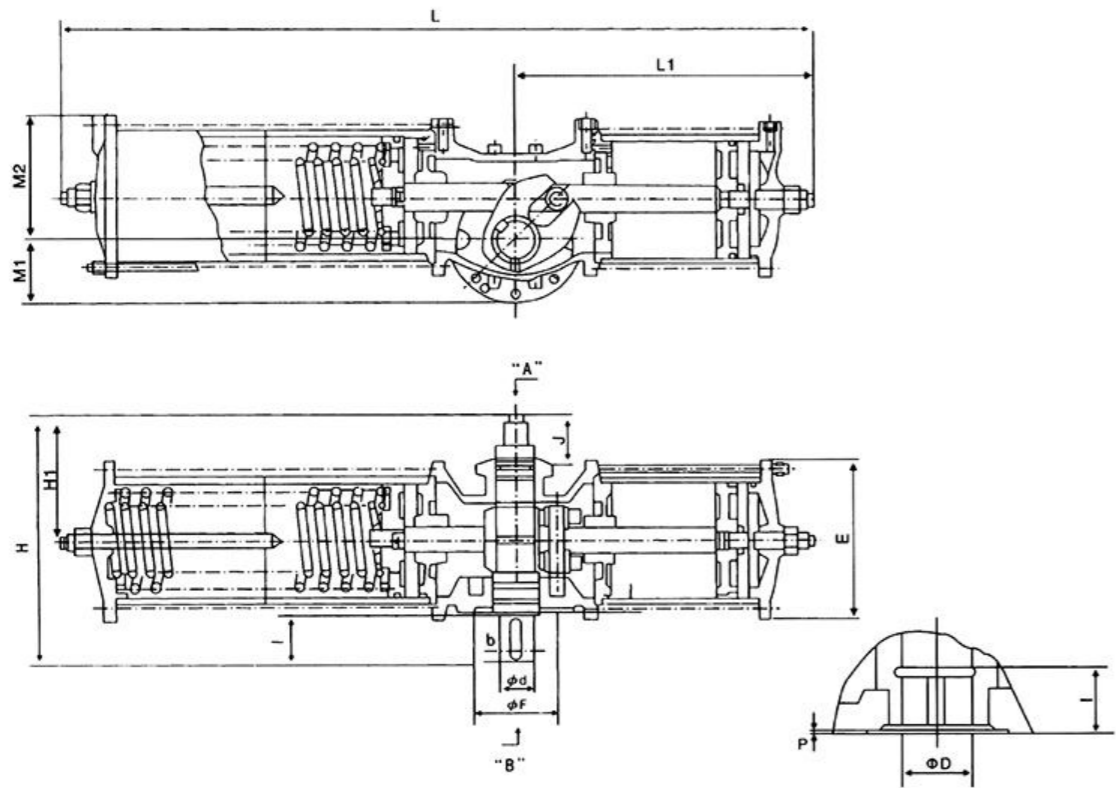
注：以上图形不一定描绘所有模块方向。咨询厂方经过技术部确认的图纸为准。

Note: The figures above do not necessarily depict all module orientations. Consult the manufacturer and the drawings confirmed by the technical department shall prevail.

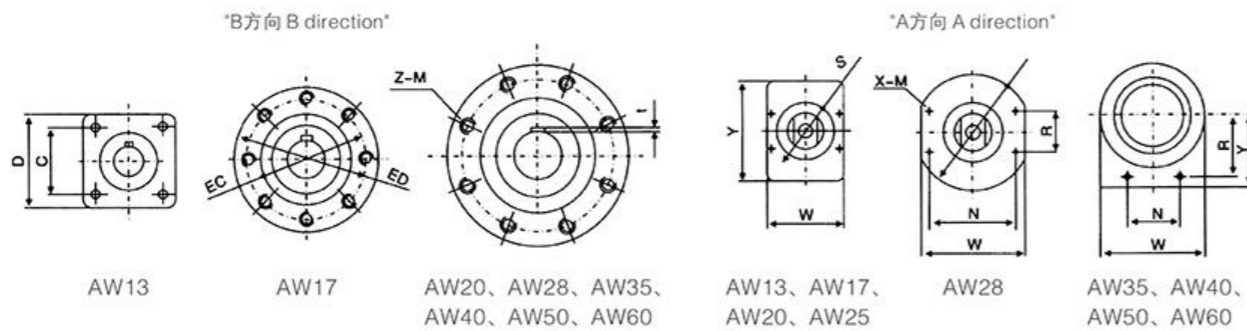


单位 Unit: mm

型号 Type	L	H	H1	M1	m2	E	EC	ED	Z-M	Ed	I	EF	P	B	T	J	Y	S	W	N	R	X-M	气源接口 Air supply interface
AW13	640	266	138	66	134	168	□100	□132	4-M16	42	37	80	4	12	3	54	95	45	85	70	35	4-M6	G1/4
AW17	827	348	177	95	175	230	160	190	8-M16	50	60	120	4	14	3.5	66	143	55	112	100	50	4-M6	G3/4
AW20	1162	425	212	116	233	270	200	232	8-M16	64	74	140	4	18	4	78	157	70	137	120	50	4-M6	
AW25	1162	425	212	118	258	320	200	235	8-M16	64	74	140	4	18	4	78	157	70	137	120	50	4-M6	
AW28	1380	527	252	159	300	362	280	318	8-M20	85	100	220	4	25	5	84	E255	90	227	180	60	4-M6	
AW35	1860	280	135	175	370	Φ440	300	350	8-M24	105	136	220	10	28x2	6.4	20	150	-	203	60	130	2-M8	G1/2
AW40	1860	280	135	175	370	Φ490	300	350	8-M24	105	136	220	10	28x2	6.4	20	150	-	203	60	130	2-M8	
AW50	2350	335	171	200	480	Φ600	350	400	12-M24	120	164	280	10	32	7.4	20	180	-	230	60	160	2-M8	
AW60	2800	376	183	250	570	Φ700	450	500	12-M24	140	192	360	10	36	8.5	20	220	-	256	60	160	2-M8	



AWS35, AWS40, AWS50, AWS60



单位 Unit: mm

型号 Type	L	L1	H	H1	m1	m2	E	C	D	Z-M	φd	I	φF	P	b	t	J	Y	S	W	N	R	X-M	气源接口 Air supply interface
AWS13	858	320	266	138	66	134	168	□100	□132	4-M16	42	37	80	4	12	3	54	95	45	85	70	35	4-M6	G1/4
AWS17	1090	413	348	177	95	175	230	160	190	8-M16	50	60	120	4	14	3.5	66	143	55	112	100	50	4-M6	G3/8
AWS20	1430	581	425	212	116	233	270	200	232	8-M16	64	74	140	4	18	4	78	157	70	137	120	50	4-M6	
AWS25	1620	581	425	212	118	258	320	200	235	8-M16	64	74	140	4	18	4	78	157	70	137	120	50	4-M6	
AWS28	1845	690	527	252	159	300	362	280	318	8-M20	85	100	220	4	25	5	84	E255	90	227	180	60	4-M6	
AWS35	2500	930	280	135	175	370	Φ440	300	350	8-M24	105	136	220	10	28x2	6.4	20	150	-	203	60	130	2-M8	G1/2
AWS40	2500	930	280	135	175	370	Φ490	300	350	8-M24	105	136	220	10	28x2	6.4	20	150	-	203	60	130	2-M8	
AWS50	3280	3280	335	171	200	480	Φ600	350	400	12-M24	120	164	280	10	32	7.4	20	180	-	230	60	160	2-M8	



直行程气动执行器  
Linear Pneumatic Actuator



### 概述 Overview

直行程气动执行器设计运用于大多数类型的楔式闸阀，平板闸阀，刀闸阀，截止阀等，是应用范围广泛，性能稳定的线性阀门执行器最适合安全关断阀和控制阀。

由于其技术先进，性能可靠，操作切换和维修方便，已被石油、化工、冶金、电力、海运等部门作为管道开闭装置而广泛应用。

直行程气动执行器有多种操作模块形式，手动，液动，弹簧等。可按工况特需设计。

直行程气动执行器以0.4~0.6MPa(表压)净化压缩空气为工作动力，推动活塞，带动闸板作位移，实现开启关闭阀门的目的。

The straight stroke pneumatic actuator is designed for most types of wedge gate valves, flat gate valves, knife gate valves, globe valves, etc. It is a linear valve actuator with a wide range of applications and stable performance, which is most suitable for safety shut-off valves and control valves.

Due to its advanced technology, reliable performance, convenient operation, switching and maintenance, it has been widely used as a pipeline opening and closing device in petroleum, chemical, metallurgy, electric power, shipping and other departments.

Straight stroke pneumatic actuators have a variety of operating module forms, manual, hydraulic, spring, etc. It can be specially designed according to working conditions.

The straight-stroke pneumatic actuator uses 0.4~0.6MPa (gauge pressure) purified compressed air as the working power, pushes the piston, drives the gate to move, and realizes the purpose of opening and closing the valve.

### 工作原理 Working principle

直行程系列气动执行机构以0.3~1.0MPa(表压)净化压缩空气为动力源，推动活塞，带动阀芯做直线运动从而实现调节、开启和关闭阀门的目的。

The straight-stroke series pneumatic actuators use 0.3~1.0MPa (gauge pressure) purified compressed air as the power source, push the piston, and drive the valve core to move in a straight line to achieve the purpose of adjusting, opening and closing the valve.

### 特征 Feature

- 结构简单，体积小；
- 精度高，可靠性强；
- 工作环境温度范围：-45°C~315°C；
- 行程范围：单作用10mm~150mm  
双作用10mm~300mm
- Simple structure and small volume;
- High precision and reliability;
- Working environment temperature range: -45°C~315°C;
- Stroke range: Single-acting 10mm~150mm  
Double acting 10mm~300mm

### 产品用途 Product Usage

气动球阀广泛适用于天然气、油品、化工、冶金、造纸、电力、矿业、印染、生物制药、日用化工、食品饮料、水处理及空气处理等行业的流体自动控制或调节控制，与自动化气动仪表配套使用。

Pneumatic ball valve is widely used in natural gas, oil, chemical, metallurgy, papermaking, electric power, mining, printing and dyeing, biopharmaceutical, daily chemical, food and beverage, water treatment and air treatment industries such as automatic fluid control or regulation control, and automatic pneumatic Use with the instrument.

### 工作技术条件 Working technical conditions

- 作用方式：双作用，单作用，倍力型；
- 安全位置：故障快开，故障快关，故障保位；
- 工作气源压力范围：0.4~1.0MPa；
- 执行器本体材质：铝合金材质(阳极氧化防腐处理)、不锈钢材质。
- Action mode: Double-acting, single-acting, double-acting type;
- Safety position: Fault quick open, fault quick close, fault hold position;
- Working air source pressure range: 0.4~1.0MPa;
- Actuator body material: Aluminum alloy (anodized anti-corrosion treatment), stainless steel.



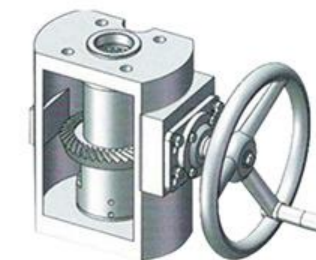
顶装手动机构

Top-mounted manual mechanism



顶装手动机构

Top-mounted manual mechanism



侧装手动机构

Side mounted manual mechanism

### 产品性能规范 Product performance specification

压力等级 Pressure rating	公称压力 Nominal pressure PN(MPa)					磅级(Class)				
		1.6	2.5	4.0	6.4	10.0	150	300	400	600
试验压力 Test pressure (MPa)	壳体试验 Shell test	2.4	3.75	6.0	9.6	15.0	3.03	7.5	10.2	15.0
	密封试验 Sealing test	1.76	2.75	4.4	7.04	11.0	2.2	5.5	7.48	11.0
	气密封试验 Airtight seal test	0.6(MPa)								
适用介质 Applicable media	阀体材质 Body material									
		C			P			R		
	水、蒸汽、油品、液化气等 Water, steam, oil, liquefied gas, etc			硝酸类腐蚀性介质等 Nitric acid corrosive medium, etc			醋酸类腐蚀性介质等 Acetic acid corrosive medium, etc			
特殊介质 Special media	含有硫化氢的天然气介质；用于钢铁及有色金属冶炼的煤粉、铝粉输送系统；用于造纸行业的纸浆输送及其它含有颗粒、短纤维的介质等。 Natural gas medium containing hydrogen sulfide; Coal powder and aluminum powder conveying system for steel and nonferrous metal smelting; It is used for pulp conveying and other media containing particles and short fibers in the paper industry.									



气动球阀系列  
 Pneumatic Ball Valve Series

产品用途及结构特点

气动球阀广泛适用于天然气、油品、化工、冶金、造纸、电力、矿业、印染、生物制药、日用化工、食品饮料、水处理及空气处理等行业的流体自动控制或调节控制，与自动化气动仪表配套使用。

气动球阀结构特点为：

- 气动执行器：采用新型AT系列气动执行器，其结构获得国家实用新型专利，有双作用式和单作用式(弹簧复位)，采用齿轮齿条式结构传动，性能更安全可靠；大口径阀门采用AW系列气动执行器，采用拔叉式结构传动，结构合理，输出扭矩大，有双作用式和单作用式(弹簧复位)；详细参数请参考本公司AT系列及AW系列气动执行器样本。
- 壳体结构：球阀的阀体根据使用需要及实际工况条件的不同可设计为铸造结构、锻造结构及全焊接结构三种形式，其中全焊接结构的球阀主要适用于埋地使用。
- 独特的阀座密封结构：  
 浮动式球阀采用唇型弹性密封圈结构设计，其结构获得国家实用新型专利，更能保证密封的可靠性及使用寿命，对于低压、超低压或真空工况用球阀，采用板簧加载的阀座密封结构，能确保球阀长期使用的可靠密封。中、高温球阀的阀座材料可选用对位聚苯或金属材料。  
 固定式球阀根据压力的大小、介质性质及密封要求的不同而选择球前密封结构、球密封结构或前后双密封结构。中、高温球阀的阀座材料可选用对位聚苯或金属材料。
- 阻塞与排泄：当阀门处于关闭状态时，上下流侧的阀座使液体阻断，阀体中腔的积滞物可以通过排泄装置进行排泄。
- 自动泄压结构：当中腔压力出现异常升高现象时，中腔介质能依靠本身的推力推动阀座而自动泄压，从而确保阀体的安全。
- 阀杆的可靠密封：阀杆采用有倒密封的下装式结构，倒密封的密封力随介质压力的增高而增大，故能确保阀杆的可靠密封，而且，当阀门异常升压时，阀杆不会喷出。
- 防火结构：根据工况及用户的需要，球阀可设计为防火结构。球阀的耐火设计执行API 6D及JB/T6899等标准的规定，一旦发生火灾而使软密封圈烧损时，球阀的防火结构可阻止介质的大量泄漏，防止火灾的进一步扩大。
- 防静电结构：当操作阀门时，由于球体和阀座之间的摩擦，会产生静电电荷并积聚在球体上，为防止产生静电火花，特在阀门上设置防静电导出装置，将积聚在球体上的电荷导出。
- 全通径结构及缩径结构：为满足用户的不同需要，诚真流体公司球阀产品有全通径及缩径两种系列。全通径球阀的通道内径与管道内径一致，便于管理清扫，而缩径系列球阀的重量相对较轻，但流体阻力仅为相同口径截止阀的1/7左右，故缩径系列球阀的应用前景较为广泛。

产品性能规范

压力等级	公称压力PN(MPa)					磅级(Class)				
	1.6	2.5	4.0	6.4	10.0	150	300	400	600	
试验压力 (MPa)	壳体试验	2.4	3.75	6.0	9.6	15.0	3.03	7.5	10.2	15.0
	密封试验	1.76	2.75	4.4	7.04	11.0	2.2	5.5	7.48	11.0
	气密封试验	0.6(MPa)								
适用介质	阀体材质									
	C			P			R			
	水、蒸汽、油品、液化气等			硝酸类腐蚀性介质等			醋酸类腐蚀性介质等			
特殊介质	含有硫化氢的天然气介质；用于钢铁及有色金属冶炼的煤粉、铝粉输送系统；用于造纸行业的纸浆输送及其它含有颗粒、短纤维的介质等。									

### Uses and Structural Features of Product

Pneumatic ball valve series are widely used in natural gas, oil, chemical industry, metallurgy, papermaking, power, mining, printing and dyeing, biological pharmacy, daily chemicals, foodstuff and beverage, water treatment and air treatment etc. For the automatic or adjustment control of fluid, together with automatic pneumatic meters.

The Structural Features of Pneumatic Ball Valves Series:

Pneumatic Actuator uses new-style AT pneumatic actuator, provided with both double-acting and single-acting types (spring reposition), driven by gear and rack with high dependability; big diameter valves are driven by AW pneumatic actuator on pull-extraction manner, with reasonable structure and large output torque as well as both double-acting and single-acting types (spring reposition). Refer to our stylebook of pneumatic actuator for more details information.

- Shell Structure: As per users' requirements and real working conditions, fixed ball valves can be designed to three structures including cast, forged and full-welded, and valves of full-welded structure are mainly applicable for buried use.

Unique Sealing Structure of Valve Base Floating ball valve adopts the structure of lip-type elastic sealing ring to insure the sealing dependability. For ball valves used in low-tension, ultra-low-tension or vacuum conditions, the valve-base sealing structure with leaf spring loading is adopted to maintain long-time reliable sealing. The valve-base of high-or medium-temperature ball valve may use para-position polyphenylene or metal material.

According to the difference in pressure, medium character and sealing requirements, fixed ball valve may choose structures of front-ball sealing, back-ball sealing or front-back double sealing. The valve base of high-or medium-temperature ball valve may use para-position polyphenylene or metal material.

- Obstruction and Drainage: When valve is in off-position, the valve bases at upper and lower stream will interdict the fluid, and the deposit in the cavity may be discharged by drainage device.

Automatic Pressure-relieving Structure: In case of abnormal rise of pressure occurred in cloaca cavity, the mediums in it may drive the valve base with its self-thrust to realize automatic pressure relief, thus to ensure the safety of valve body.

- Reliable Sealing of Stem: Valve stem adopts the downward installation structure with back sealing. The sealing power increases along with the rise of medium pressure, thus to ensure reliable sealing of valve stem. In addition, stem will not burst forth in case of abnormal pressure rise.
- Fireproof Structure: Fireproof structure may be adopted for ball valve as per working conditions and users' requirements. The fireproof design conforms to API 6D and JB/T 6899 standards etc. In case of soft sealing ring being damaged in fire, the fireproof structure can stop the large leakage of medium, thus to avoid further expansion of fire.
- Anti-static Structure: When operating, the friction between sphere and base may cause static charge accumulated on the sphere. To avoid static spark, static device is provided on the valve to educt the electric charge on the sphere.
- Full Bore Structure and Reduced Bore Structure: These two series are offered to meet users' different requirements. The passage inside diameter of full bore ball valve is the same as that of pipe, making it convenient for control and cleaning. The weight of reduced bore ball valve is relatively smaller, but the fluid resistance is only around 1/7 of that of stop valve with the same caliber. Therefore, the application prospect is much better for the latter.

### Products Performance Specification

Pressure grade		Nominal Pressure PN(MPa)					Pound(Class)			
		1.6	2.5	4.0	6.4	10.0	150	300	400	600
Test Pressure (MPa)	Shell test	2.4	3.75	6.0	9.6	15.0	3.03	7.5	10.2	15.0
	Sealing test	1.76	2.75	4.4	7.04	11.0	2.2	5.5	7.48	11.0
	Air Sealing test	0.6(MPa)								
Applicable medium		Material of Valve Body								
		C			P			R		
Special Medium		Natural gas containing sulphured hydrogen; transportation system for coal powder or aluminum powder used for the smelting of steel and non-ferrous metal; mediums used for the transportation of paper pulp in papermaking industry as well as other mediums containing granules or staple fiber etc.								

### 阀座密封材料温度额定值 Seat Seal Material Temperature Rating

代号 Code	材料 Material	适用温度 Suitable temperature(°C)
F	增强聚四氟乙烯 Reinforced polytetrafluoroethylene	-40~180
P	对位聚苯 Para polystyrene	-40~300
N	尼龙 Nylon	-20~80
Y	硬质合金 Carbide	-40~425

### 附件的选项 Options for attachments

根据不同控制和要求可选择下列附件：

切断型附件：单电控电磁阀、双电控电磁阀、限位开关回讯器。

调节型附件：电气定位器、气动定位器、电气转换器。

气源处理附件：空气过滤减压阀、气源处理三联件。

手动机构：Mini MOD系列

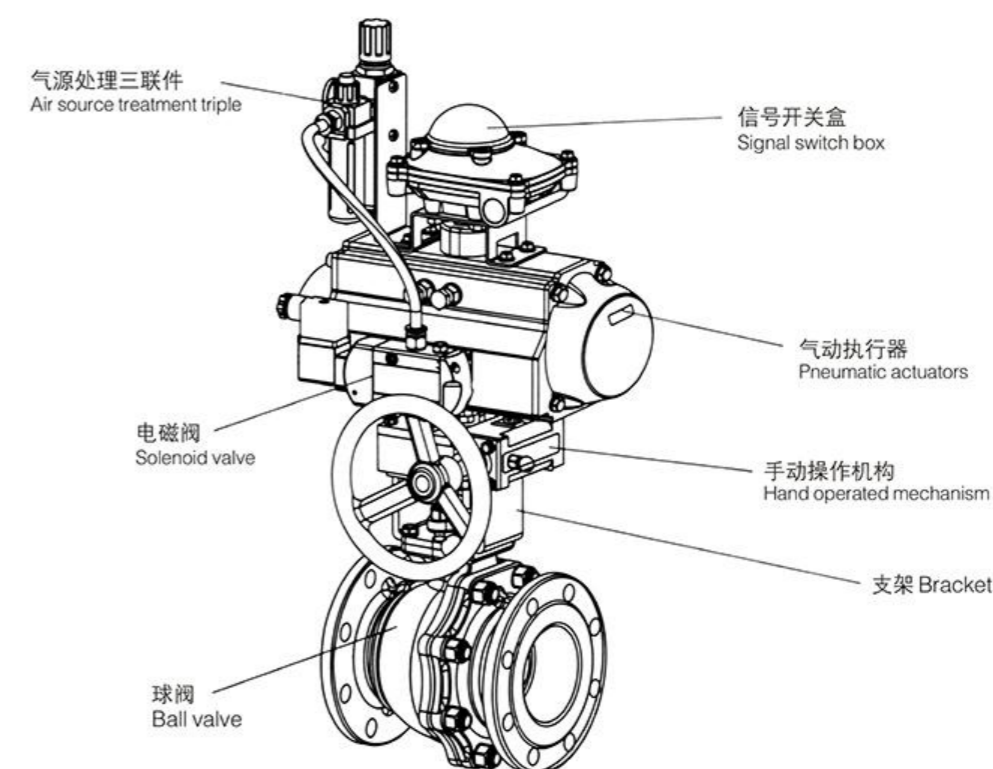
The following accessories can be selected according to different controls and requirements:

Cut-off accessories: single electric control solenoid valve, double electric control solenoid valve, limit switch feedback device.

Adjustable accessories: electrical positioner, pneumatic positioner, electrical converter.

Air source treatment accessories: air filter pressure reducing valve, air source treatment triplet.

Manual mechanism: Mini MOD series



### 概述 Overview

气动O型球阀是本公司吸收国外先进技术自行开发的产品，采用浮动球有快装、焊接、外螺纹、法兰等连接，流通能力大，流阻系数小，结构简单，维修方便。

密封圈采用独特的弹性结构，球芯经硬化处理，配有气动、电动执行机构，整机具有结构紧凑、切断性好、开关迅速及使用寿命长等优点。非常适用于各种液体、气体、浆料类流体及低压蒸汽的自动切断控制。

Pneumatic O-type ball valve is a product developed by our company absorbing foreign advanced technology. It adopts floating ball with quick installation, welding, external thread, flange and other connections. It has large flow capacity, small flow resistance coefficient, simple structure and convenient maintenance.

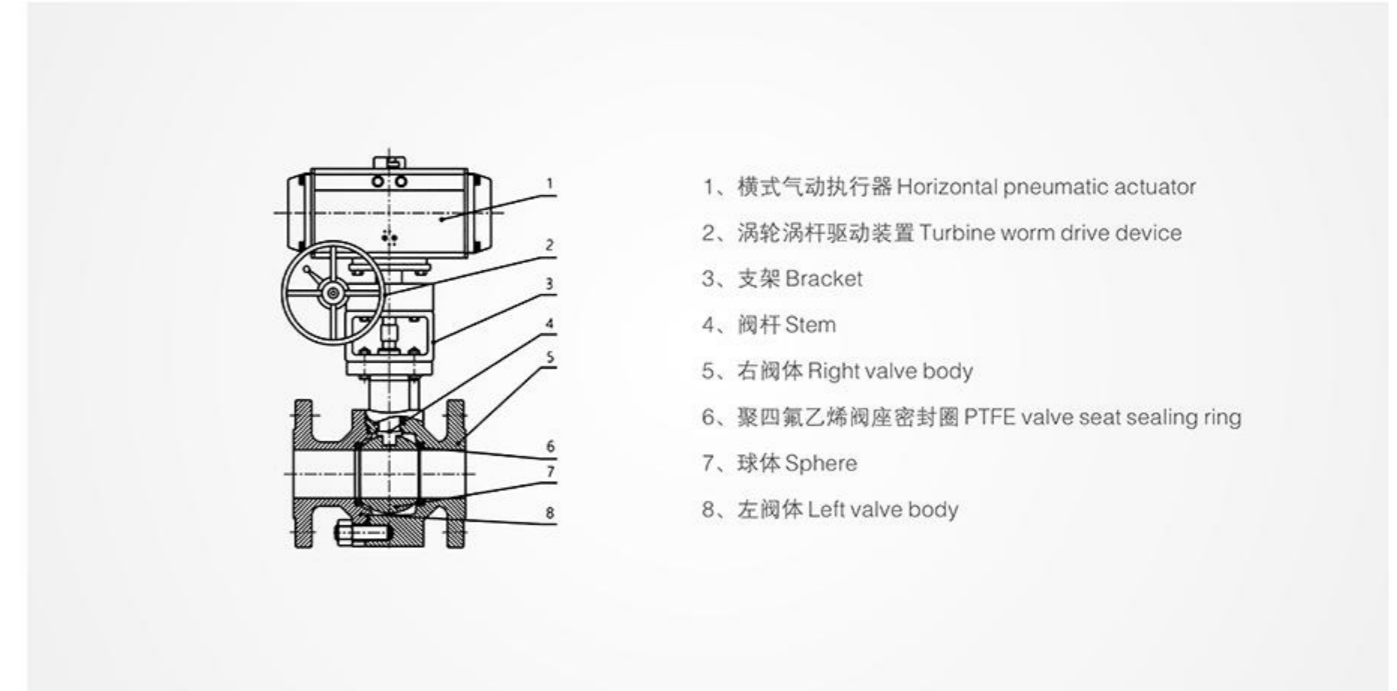
The sealing ring adopts a unique elastic structure, the ball core is hardened, and equipped with pneumatic and electric actuators. The whole machine has the advantages of compact structure, good cutting performance, rapid switching and long service life. It is very suitable for automatic cut-off control of various liquids, gases, slurry fluids and low-pressure steam.

### 特点 Features

- 阀体采用铸造、锻压等生产工艺，连接方式有法兰、焊接、快装、螺纹等连接方式；
- 球芯只需绕阀门轴转90° 即可完成全开或全关，动作简单迅速；
- 密封圈采用独特的弹性唇缘密封技术，保证了零泄漏的切断要求，特有的自动补偿功能使阀门具有更长的使用寿命；
- 密封圈材料有聚四氟乙烯、增强型PTFE及硬密封等各种结构，适用于各种工况；
- 球芯表面硬化处理后，经磨削、抛光，平滑耐磨；
- 球芯等径直通式流道与管道内径基本相同，流阻小；
- 内装式阀杆具有更好的安全性和刚性；
- 由于球芯与密封圈在开关过程中有剪切作用，故特别适用于如纸浆、污水与其他带颗粒的浆料类流体；
- 可按用户要求加装防静电装置。
- The valve body adopts casting, forging and other production processes, and the connection methods include flange, welding, quick installation, thread and other connection methods;
- The ball core only needs to rotate 90° around the valve axis to complete full opening or full closing, and the action is simple and fast;
- The sealing ring adopts the unique elastic lip sealing technology to ensure the cut-off requirement of zero leakage, and the unique automatic compensation function makes the valve have a longer service life;
- The material of sealing ring has various structures such as polytetrafluoroethylene, reinforced PTFE and hard seal, which are suitable for various working conditions;
- After the surface of the ball core is hardened, it is ground and polished to be smooth and wear-resistant;
- Spherical core equal diameter straight-through flow channel is basically the same as the inner diameter of the pipe, and the flow resistance is small;
- The built-in valve stem has better safety and rigidity;
- Due to the shearing effect of the ball core and the sealing ring during the switching process, it is especially suitable for pulp, sewage and other slurry fluids with particles;
- Anti-static device can be installed according to user requirements.



### 阀结构与组成 Valve structure and composition



- 1、横式气动执行器 Horizontal pneumatic actuator
- 2、涡轮蜗杆驱动装置 Turbine worm drive device
- 3、支架 Bracket
- 4、阀杆 Stem
- 5、右阀体 Right valve body
- 6、聚四氟乙烯阀座密封圈 PTFE valve seat sealing ring
- 7、球体 Sphere
- 8、左阀体 Left valve body

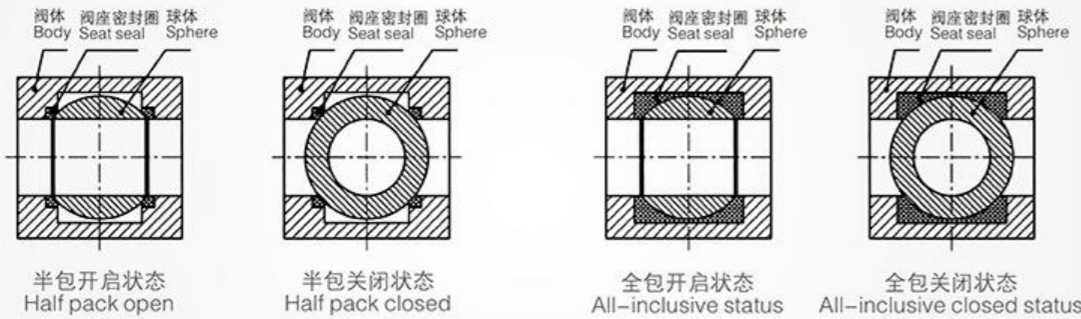
### 阀本体部分 Valve body part

- 结构大类：O型球阀
- 球芯型式：全通径O型球
- 流量特性：快开
- 公称压力：1.6、2.5、4.0、6.4MPa、ANSI 150、300
- 阀门口径：DN15~300(1/2"~12")
- 适用温度：-20~+200℃、-20~+320℃
- 泄漏标准：VI级、零泄漏
- 连接方式：法兰、焊接、快装、内螺纹、外螺纹、卡套
- Structure category: O-type ball valve
- Ball core type: full diameter O-type ball
- Flow characteristics: quick opening
- Nominal pressure: 1.6, 2.5, 4.0, 6.4MPa, ANSI 150, 300
- Valve diameter: DN15~300(1/2"~12")
- Applicable temperature: -20~+200℃, -20~+320℃
- Leakage standard: VI level, zero leakage
- Connection method: flange, welding, quick installation, internal thread, external thread, ferrule

密封示意图 Sealing Diagram

此密封结构在低压时由弹性唇缘紧贴阀芯保持密封，随着介质压力、温度的变化，密封圈弹性变形，自动补偿，使阀门始终保持低扭矩紧密密封。

This sealing structure is kept sealed by the elastic lip close to the valve core at low pressure. With the change of medium pressure and temperature, the sealing ring is elastically deformed and automatically compensates, so that the valve always maintains a tight seal with low torque.



主要零件常用材料 Common materials for main parts

- 阀体: WCB、CF8(304)、CF3(304L)、CF8M(316)、CF3M(316L)
  - 球芯: CF8(304)、CF3(304L)、CF8M(316)、CF3M(316L)可选镀硬铬(Ni60)、镍基硬质合金球体渗氮等球芯选型
  - 密封圈: 聚四氟乙烯、增强型PTFE及硬密封等可选材质
  - 阀轴: 2Cr13、3Cr13、1Cr18Ni9Ti、304、316、316L、17-4PH
  - 填料: PTFE、柔性石墨
  - 导向套: 铜、304、复合材料
- 注: 特殊要求在订货时双方协定为准。

- Body: WCB, CF8(304), CF3(304L), CF8M(316), CF3M(316L).
- Ball core: CF8 (304), CF3 (304L), CF8M (316), CF3M (316L) optional hard chrome plating (Ni60), nickel-based carbide ball nitriding and other ball core selection.
- Sealing ring: Optional materials such as PTFE, reinforced PTFE and hard seal.
- Valve shaft: 2Cr13, 3Cr13, 1Cr18Ni9Ti, 304, 316, 316L, 17-4PH.
- Packing: PTFE, flexible graphite.
- Guide sleeve: Copper, 304, composite material.

Note: For special requirements, the agreement between the two parties shall prevail when ordering.

气动作用方式 Pneumatic action

双作用  
Double action

气源故障时，阀门处于失气位置，无复位弹簧，推力大，是气缸式的首选。

When the air source fails, the valve is in the degassed position, there is no return spring, and the thrust is large, which is the first choice for the cylinder type.

气关式  
Air off type

当气源故障时，执行机构弹簧将阀打开。  
When the air source fails, the actuator spring opens the valve.

单作用  
Single action

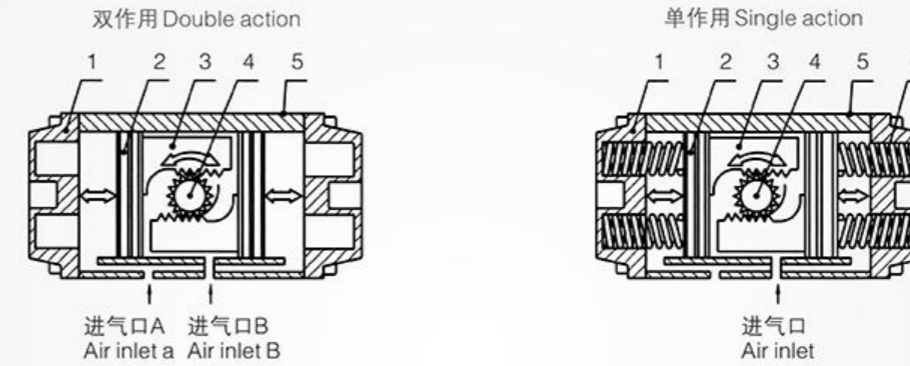
气源故障时，执行机构弹簧将阀门复位至原始极限位置(全开或全关)，有气开式和气关式两种。

In case of air source failure, the actuator spring will return the valve to its original limit position (full open or full close), which can be divided into two types: air open and air close.

气开式  
Air opening type

当气源故障时，执行机构弹簧将阀关闭。  
When the air source fails, the actuator spring closes the valve.

活塞式执行机构 Piston actuator



- |                  |                 |                   |
|------------------|-----------------|-------------------|
| 1、缸盖             | 3、活塞            | 5、缸体              |
| 2、活塞环            | 4、输出轴           | 6、弹簧              |
| 1. Cylinder head | 3. Piston       | 5. Cylinder block |
| 2. Piston ring   | 4. Output shaft | 6. Spring         |

气动活塞式执行机构采用双活塞齿轮齿条结构，具有结构紧凑、输出力大、动作准确、单作用与双作用互换性强等优点。  
The pneumatic piston actuator adopts the double piston gear tooth strip structure, which has the advantages of compact structure, large output force, accurate action, and strong interchangeability between single action and double action.

规格与技术参数 Specifications and technical parameters

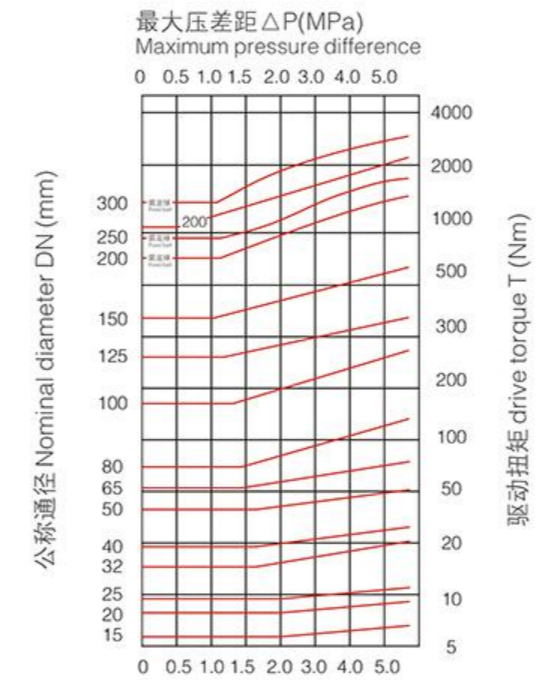
公称直径 DN (mm) Nominal diameter	15	20	25	32	40	50	65	80	100	125	150	200	250	300
额定流量系数 Kv Rated flow factor	20	38	72	110	170	270	380	510	940	1400	2200	3500	4800	8500
公称压力 PN (MPa) Nominal pressure	1.6、2.5、4.0、6.4													
流量特性 Flow characteristic	快开 Quick opening													
额定转角 (°) Rated corner	90													
配用执行机构 Equipped with actuator	气动 Pneumatic	单作用 Single action	扭矩配置详见阀门扭矩图 See valve torque diagram for torque configuration											
		双作用 Double action												
	电动 Electric	普通式 Ordinary												
		电子式 Electronic												
气动执行器气源供给压力 (MPa) Pneumatic actuator air supply pressure	0.4-0.8													
电动执行器电源电压 Power supply voltage of electric actuator	DC 24V、AC 220V、AC 380V													

执行机构动作时间 Actuator action time

气动执行机构动作时间 Pneumatic actuator action time (Sec)

缸径 Cylinder bore(mm)	50	63	75	88	100	115	115	145	160	180	200	240	265	330	
双作用 Double acting	0.5	0.5	0.7	0.7	0.8	0.9	0.9	1.5	1.8	2.4	3.0	3.8	5.0	6.5	
单作用 Single acting	打开 Open	0.8	0.8	0.9	0.9	1.1	1.2	1.2	2.1	2.6	3.8	4.2	6.0	7.5	8.5
	关闭(复位) Close (reset)	0.6	0.6	0.8	0.8	0.9	1.1	1.1	1.8	2.1	2.6	3.8	4.2	6.0	7.5
气缸容积 (L/次) Cylinder volume (L/time)	0.15	0.26	0.49	0.78	1.11	1.8	1.8	3.8	4.9	6.9	9.5	15.2	21.3	40.0	

阀门扭矩 Valve torque



最大压差 Maximum differential pressure  $\Delta P$  (MPa)

聚四氟乙烯密封圈 (PTFE) sealing ring

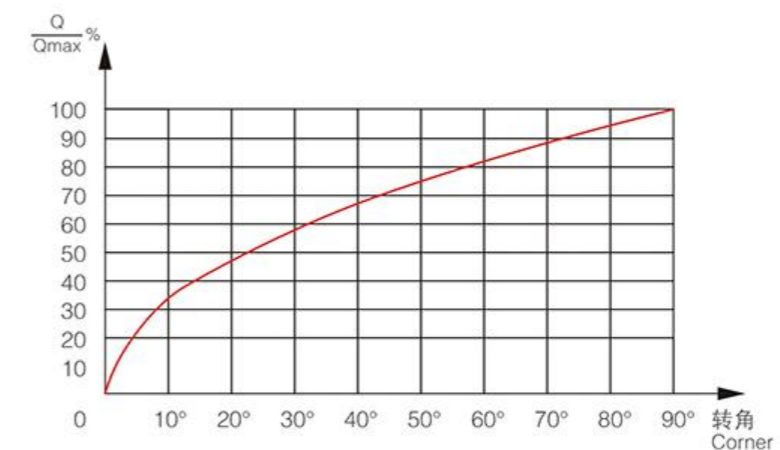
左图中扭矩供选择执行机构时参考，根据介质的特性、内件材料及阀门的工作频率尚需作修正。

- 表中数据介质以水为准；
- 清洁润滑介质，扭矩可降低20%；
- 苛刻的介质，如泥浆、半颗粒等，扭矩要增加15~30%；
- 特殊介质，如氧气等，据矩要增加20~35%；
- 密封圈使用耐高温材料(PPL)，扭矩比使用PTFE密封圈增加20~40%；
- 数值受公称压力、压力-温度图表限制。

The torque in the left figure is for reference when selecting the actuator, and it needs to be corrected according to the characteristics of the medium, the material of the internal parts and the working frequency of the valve.

- The data medium in the table is based on water;
- Clean the lubricating medium, the torque can be reduced by 20%;
- For harsh media, such as mud, semi-granules, etc., the torque should be increased by 15~30%;
- Special medium, such as oxygen, etc., according to the moment should be increased by 20~35%;
- The sealing ring is made of high temperature resistant material (PPL), and the torque is increased by 20~40% compared with the use of PTFE sealing ring;
- Values are limited by nominal pressure, pressure-temperature diagrams.

流量特性曲线 Flow characteristic curve



快开流量特性备转角的相对流量数值

Quick-opening flow characteristics and relative flow values for the angle of rotation

转角 Corner (°)	0	10	20	30	40	50	60	70	80	90
Q/Qmax (%)	0	33.3	47.2	57.7	66.6	74.5	81.6	88.2	94.2	100



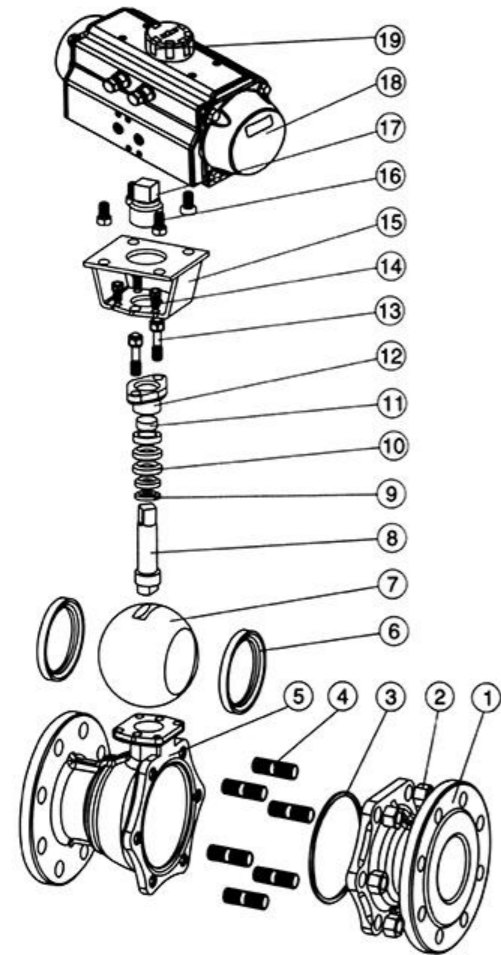
技术规范 Technique norm

设计依据 Design Basis	GB标准 Standard		
设计标准 Design Standard	GB/12237		
结构长度 Face to face dimension	法兰连接 Flange Connecting	GB/12221	
连接法兰尺寸 Connecting Flange Size	GB/9113、JB/T79		
试验和检验 Test & inspection	GB/T13927、JB/T9092		

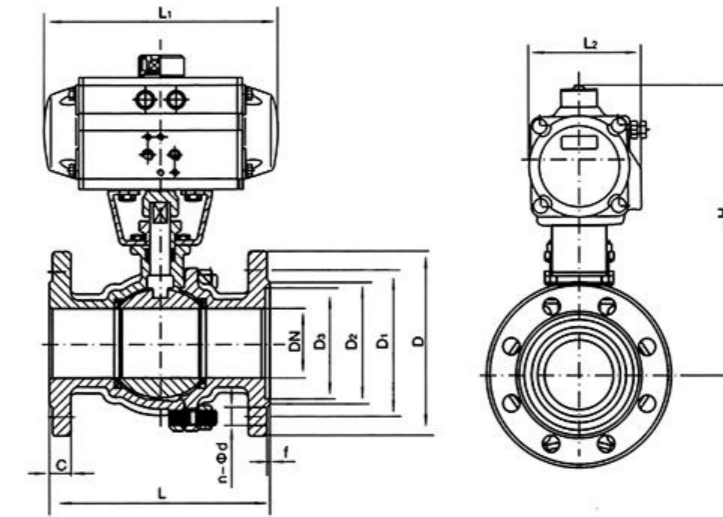
注：球阀结构长度及连接法兰尺寸可根据用户要求设计制造。  
Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per users' requirements.

主要零件材质表 Form of Main Parts Materials

序号 No.	零件名称 Name of parts	材质 Material		
		C	P	R
1	右阀体 Right valve	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
2	螺母 Nut	35	1Cr18Ni9Ti	1Cr18Ni9Ti
3	垫片 Gasket	PTFE、石墨金属复合垫 Graphite metal composite pad		
4	螺栓 Screw	35	1Cr18Ni9Ti	1Cr18Ni9Ti
5	阀体 Body	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
6	阀座 Seat	PTFE、尼龙(Nylon)、对位聚苯(PPL) 硬质合金Hard Alloy		
7	球体 Ball	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
8	阀杆 Stem	1Cr13	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
9	垫片 Gasket	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
10	填料 Packing	PTFE、柔性石墨 Flexible Graphite		
11	衬套 Bushing	PTFE复合轴承 Composite bearings		
12	压盖 Gland	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
13	螺栓 Screw	35	1Cr18Ni9Ti	1Cr18Ni9Ti
14	螺栓 Screw	35	1Cr18Ni9Ti	1Cr18Ni9Ti
15	连接支架 Connecting Yoke	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni9Ti
16	螺栓 Screw	35	1Cr18Ni9Ti	1Cr18Ni9Ti
17	连接套 Connecting Set	35	1Cr18Ni9Ti	1Cr18Ni9Ti
18	气动装置 Pneumatic Device	GT系列、AT系列、AW系列 GT Series, AT Series, AW Series		
19	位置指示器 Location Indicator	塑料 Plastic		



注：球阀主要零部件及密封圈的材质可根据实际工况条件或用户特殊要求设计选用。  
Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per users' requirements.



主要外形及连接法兰尺寸 Main outline and connecting flange size Q641F(N、P、H、Y)

PN16(1.6MPa)

公称通径 Nominal diameter	外形尺寸 Outline Size				连接尺寸 Connecting Size						执行器型号 Actuator Model
	L	L1	L2	~H	D	D1	D2	C	f	n-φd	
15	130	141/159	71/83	204/235	95	65	46	14	2	4-φ14	AT050D/AT063S
20	140	141/159	71/83	209/240	105	75	56	16	2	4-φ14	AT050D/AT063S
25	150	159/211	83/95	214/256	115	85	65	16	2	4-φ14	AT063D/AT075S
32	165	159/248	83/107	257/277	140	100	76	18	2	4-φ18	AT063D/AT075S
40	180	211/248	95/107	274/292	150	110	84	18	3	4-φ18	AT075D/AT088S
50	200	248/269	107/123	290/300	165	125	99	20	3	4-φ18	AT088D/AT100S
65	220	248/315	107/141	310/335	185	145	118	20	3	4-φ18	AT088D/AT115S
80	250	269/345	123/152	346/368	200	160	132	20	3	8-φ18	AT100D/AT125S
100	280	345/409	152/172	378/410	220	180	156	22	3	8-φ18	AT125D/AT145S
125	320	409/550	172/215	425/450	250	210	184	22	3	8-φ18	AT145D/AT190S
150	360	550/600	215/240	468/531	285	240	211	24	3	8-φ22	AT190D/AT210S
200	400	600/633	240/262	583/618	340	295	266	24	3	12-φ22	AT240D/AT240S

注：球阀结构长度及连接法兰尺寸可根据JB/T79标准或用户要求设计制造。  
执行器型号XXX/XXX分别是气动执行器双作用式，单作用式(弹簧复位)。  
根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。  
以上执行器配置及数据均采用软密封(F、N、P)阀门，硬密封阀门的配置及数据请咨询本公司。

Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per JB/T79 standard or users' requirements.  
Data XXX/XXX represent respectively the double-acting/single-acting type (spring reposition) of pneumatic actuator.  
The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model.  
The above actuator configuration and data all use soft-sealed valves (F, N, P) and hard-sealed valves, or consulting us if you have more questions.

主要外形及连接法兰尺寸 Main outline and connecting flange size Q641F(N、P、H、Y) PN25(2.5MPa)

公称通径 Nominal diameter	外形尺寸				连接尺寸						执行器型号 Actuator Model
	L	L1	L2	~H	D	D1	D2	C	f	n-φd	
15	130	141/159	71/83	204/235	95	65	46	14	2	4-φ14	AT050D/AT063S
20	140	141/159	71/83	209/240	105	75	56	16	2	4-φ14	AT050D/AT063S
25	150	159/211	83/95	257/265	115	85	65	16	2	4-φ14	AT063D/AT075S
32	165	211/248	95/107	269/287	140	100	76	18	3	4-φ18	AT075D/AT088S
40	180	248/269	95/107	282/292	150	110	84	18	3	4-φ18	AT075D/AT088S
50	200	248/345	107/123	290/325	165	125	99	20	3	4-φ18	AT088D/AT100S
65	220	269/345	107/152	310/357	185	145	118	22	3	8-φ18	AT088D/AT125S
80	250	345/409	152/172	346/368	200	160	132	24	3	8-φ18	AT125D/AT145S
100	280	345/438	152/187	418/443	235	190	156	24	3	8-φ22	AT125D/AT160S
125	320	438/550	187/215	460/503	270	220	184	26	3	8-φ26	AT160D/AT190S
150	360	550/600	215/240	518/563	300	250	211	28	3	8-φ26	AT190D/AT210S
200	400	633/730	262/330	583/618	360	310	274	30	3	12-φ26	AT240D/AT270S

主要外形及连接法兰尺寸 Main outline and connecting flange size Q641F(N、P、H、Y) PN40(4.0MPa)

公称通径 Nominal diameter	外形尺寸 Outline Size				连接尺寸 Connecting Size						执行器型号 Actuator Model	
	L	L1	L2	~H	D	D1	D2	D3	C	f		n-φd
15	130	141/159	71/83	204/235	95	65	46	40×4	14	2	4-φ14	AT050D/AT063S
20	140	159/211	83/95	240/252	105	75	56	51×4	16	2	4-φ14	AT063D/AT075S
25	150	211/248	95/107	257/265	115	85	65	58×4	16	2	4-φ14	AT075D/AT088S
32	180	211/248	95/107	269/287	140	100	76	66×4	18	3	4-φ18	AT075D/AT088S
40	200	248/269	107/123	282/292	150	100	84	76×4	18	3	4-φ18	AT088D/AT100S
50	220	248/315	107/141	300/325	165	125	99	88×4	20	3	4-φ18	AT088D/AT115S
65	250	269/345	123/152	335/357	185	145	118	110×4	22	3	8-φ18	AT100D/AT125S
80	280	345/409	152/172	368/400	200	160	132	121×4	24	3	8-φ18	AT125D/AT145S
100	320	409/438	172/187	418/506	235	190	156	150×4.5	24	3	8-φ22	AT145D/AT1690S
125	400	550/600	215/240	445/548	270	220	184	176×4.5	26	3	8-φ26	AT190D/AT210S
150	400	600/633	215/262	563/598	300	250	211	204×4.5	28	3	8-φ26	AT240D/AT240S
200	502	730	330	636/666	375	320	284	260×4.5	34	3	12-φ30	AT270D

注：球阀结构长度及连接法兰尺寸可根据JB/T79标准或用户要求设计制造。  
 执行器型号XXX/XXX分别是气动执行器双作用式，单作用式(弹簧复位)。  
 根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。  
 以上执行器配置及数据均采用软密封(F、N、P)阀门，硬密封阀门的配置及数据请咨询本公司。  
 Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per JB/T79 standard or users' requirements.  
 Data XXX/XXX represent respectively the double-acting/single-acting type(spring reposition) of pneumatic actuator.  
 The relative sizes are subject to change responding to the difference in valva torque, medium and actuator model.  
 The above actuator configuration and data all use soft-sealed valves (F, N, P) and hard-sealed valves, or consulting us if you have more questions.

技术规范 Technique norm

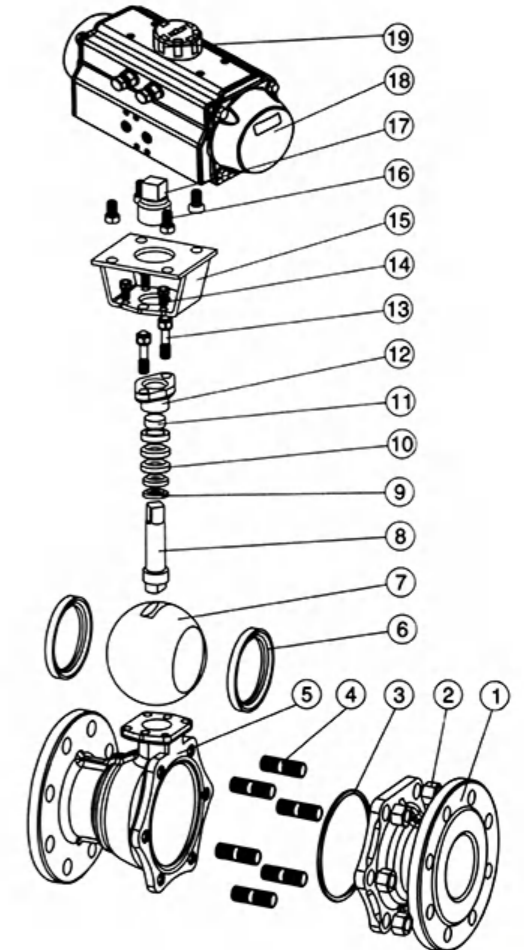
设计依据 Design Basis	API、ANSI标准 Standard	
设计标准 Design Standard	API 6D、ANSI B16.34	
结构长度 Face to face dimension	法兰连接 Flange Connecting	API 6D、ANSI B16.10
连接法兰尺寸 Connecting Flange Size	ANSI B16.5	
试验和检验 Test & inspection	API 6D、API 598	

注：球阀结构长度及连接法兰尺寸可根据用户要求设计制造。  
 Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per users' requirements.

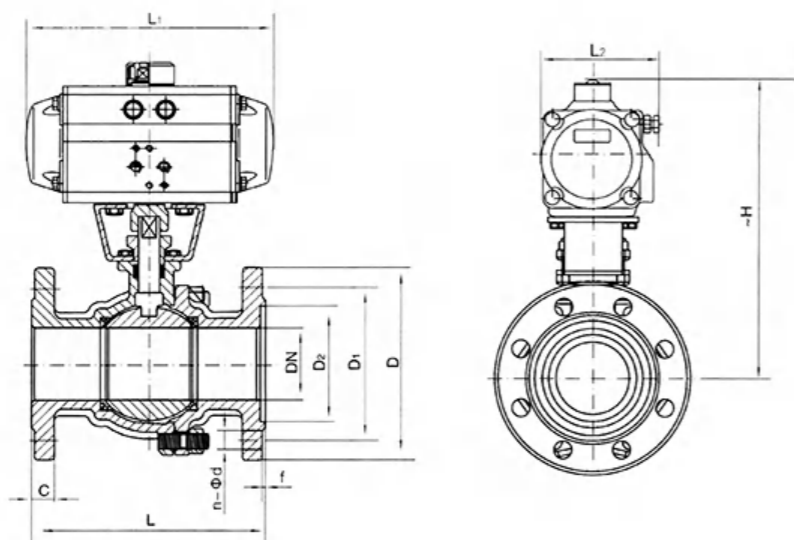
主要零件材质表 Form of Main Parts Materials

序号 No.	零件名称 Name of parts	材质 Material		
		C	P	R
1	右阀体 Right valve	A216-WCB	A351-CF8	A351-CF8M
2	螺母 Nut	A194-2H	A276-304	A276-316
3	垫片 Gasket	PTFE、石墨金属复合垫 Graphite metal composite pad		
4	螺栓 Screw	A193-B7	A276-304	A276-316
5	阀体 Body	A216-WCB	A351-CF8	A351-CF8M
6	阀座 Seat	PTFE、尼龙(Nylon)、对位聚苯(PPL) 硬质合金Hard Alloy		
7	球体 Ball	A182-F304	A182-F304	A182-F316
8	阀杆 Stem	A276-410	A276-304	A276-316
9	垫片 Gasket	A276-304	A276-304	A276-316
10	填料 Packing	PTFE、柔性石墨 Flexible Graphite		
11	衬套 Bushing	PTFE复合轴承 Composite bearings		
12	压盖 Gland	A216-WCB	A351-CF8	A351-CF8M
13	螺栓 Screw	A194-2H	A276-304	A276-304
14	螺栓 Screw	A194-2H	A276-304	A276-304
15	连接支架 Connecting Yoke	A351-CF8	A351-CF8	A351-CF8
16	螺栓 Screw	A194-2H	A276-304	A276-304
17	连接套 Connecting Set	A351-CF8	A351-CF8	A351-CF8
18	气动装置 Pneumatic Device	GT系列、AT系列、AW系列 GT Series, AT Series, AW Series		
19	位置指示器 Location Indicator	塑料 Plastic		

注：球阀主要零部件及密封圈的材质可根据实际工况条件或用户特殊要求设计选用。  
 Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per users' requirements.







主要外形及连接法兰尺寸 Main Outline and Connecting Flange Size Q641F(N、P、H、Y) Class 150

Class 150

公称口径 Nominal diameter		外形尺寸 Outline Size				连接法兰尺寸 Connecting Flange Size						执行器型号 Actuator Model
mm	in	L	L1	L2	~H	D	D1	D2	C	f	n-φd	
15	1/2	108	141/159	71/83	204/235	89	60.5	35	10	1.6	4-φ15	AT050D/AT063S
20	3/4	117	141/159	71/83	209/240	99	69.9	43	10.5	1.6	4-φ15	AT050D/AT063S
25	1	127	159/211	83/95	214/256	108	79.2	51	11.5	1.6	4-φ15	AT063D/AT075S
32	1 1/4	140	211/248	95/107	257/277	117	88.9	64	13	1.6	4-φ15	AT075D/AT088S
40	1 1/2	165	248/269	107/123	274/292	127	98.6	73	14.5	1.6	4-φ15	AT088D/AT100S
50	2	178	248/269	107/123	290/300	152	120.7	92	16	1.6	4-φ19	AT088D/AT100S
65	2 1/2	190	269/345	123/152	310/335	178	139.7	105	18	1.6	4-φ19	AT100D/AT125S
80	3	203	269/345	123/152	346/368	191	152.47	127	19.5	1.6	4-φ19	AT100D/AT125S
100	4	229	345/409	152/172	378/410	229	190.5	157	24	1.6	8-φ19	AT125D/AT145S
125	5	356	409/438	172/187	425/450	254	215.9	186	24	1.6	8-φ22	AT145D/AT160S
150	6	394	550/600	215/240	468/531	279	241.3	216	25.5	1.6	8-φ22	AT190D/AT210S
200	8	457	633/730	262/330	583/618	343	298.5	270	28.5	1.6	8-φ22	AT240D/AT240S

注：球阀结构长度及连接法兰尺寸可根据用户要求设计制造。

执行器型号XXX/XXX分别是气动执行器双作用式，单作用式(弹簧复位)。

根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。

以上执行器配置及数据均采用软密封(F、N、P)阀门，硬密封阀门的配置及数据请咨询本公司。

Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per users' requirements  
Data XXX/XXX represent respectively the double-acting/single-acting type (spring reposition) of pneumatic actuator  
The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model  
The above actuator configuration and data all use soft-sealed valves (F, N, P) and hard-sealed valves, or consulting us if you have more questions.

主要外形及连接法兰尺寸 Main Outline and Connecting Flange Size Q641F(N、P、H、Y)

Class 300

公称口径 Nominal diameter		外形尺寸 Outline Size				连接法兰尺寸 Connecting Flange Size						执行器型号 Actuator Model
mm	in	L	L1	L2	~H	D	D1	D2	C	f	n-φd	
15	1/2	140	141/159	71/83	204/235	95	65.7	35	14.5	1.6	4-φ16	AT050D/AT063S
20	3/4	152	141/159	71/83	209/240	117	82.5	43	15.8	1.6	4-φ19	AT050D/AT063S
25	1	165	211/248	95/107	214/265	124	88.9	51	17.6	1.6	4-φ19	AT075D/AT088S
32	1 1/4	178	211/248	95/107	269/287	133	98.4	64	19.1	1.6	4-φ19	AT075D/AT088S
40	1 1/2	190	248/269	107/123	282/292	155	114.3	73	20.6	1.6	4-φ19	AT088D/AT100S
50	2	216	269/315	123/141	290/325	165	127	92	22.3	1.6	8-φ19	AT100D/AT115S
65	2 1/2	241	269/345	123/152	310/357	191	149.2	105	25.4	1.6	8-φ22	AT100D/AT125S
80	3	283	345/409	152/172	346/368	210	168.3	127	28.6	1.6	8-φ22	AT125D/AT145S
100	4	305	409/438	172/187	418/443	254	200	157	31.8	1.6	8-φ26	AT145D/AT160S
125	5	381	438/550	187/215	460/503	279	234.9	186	35	1.6	8-φ26	AT160D/AT190S
150	6	403	550/600	240/262	518/563	318	269.9	216	36.6	1.6	12-φ26	AT210D/AT240S
200	8	502	633/730	262/330	583/618	381	330.2	270	41.3	1.6	12-φ29	AT240D/AT270S

主要外形及连接法兰尺寸 Main Outline and Connecting Flange Size Q641F(N、P、H、Y)

Class 300

公称口径 Nominal diameter		外形尺寸 Outline Size				连接法兰尺寸 Connecting Flange Size						执行器型号 Actuator Model
mm	in	L	L1	L2	~H	D	D1	D2	C	f	n-φd	
15	1/2	165	141/211	71/95	204/235	95	65.7	35	14.5	6.4	4-φ16	AT050D/AT075S
20	3/4	190	159/211	83/95	240/252	117	82.5	43	15.8	6.4	4-φ19	AT063D/AT075S
25	1	216	211/248	95/107	257/265	124	88.9	51	17.6	6.4	4-φ19	AT075D/AT088S
32	1 1/4	229	248/269	107/123	269/287	133	98.4	64	20.6	6.4	4-φ19	AT088D/AT100S
40	1 1/2	241	248/315	107/141	282/292	156	114.3	73	22.3	6.4	4-φ19	AT088D/AT115S
50	2	292	269/345	123/152	300/325	165	127	92	25.4	6.4	8-φ19	AT100D/AT125S
65	2 1/2	330	345/438	152/187	335/357	190	149.2	105	28.6	6.4	8-φ22	AT125D/AT160S
80	3	356	409/438	172/187	368/400	210	168.3	127	31.8	6.4	8-φ22	AT145D/AT160S
100	4	406	438/550	187/215	418/506	254	200	157	35	6.4	8-φ26	AT160D/AT190S
125	5	457	550/633	215/262	445/548	279	234.9	186	38.2	6.4	8-φ26	AT190D/AT240S
150	6	495	633/730	262/300	563/598	318	269.9	216	41.3	6.4	12-φ26	AT240D/AT270S
200	8	597	730	330	636/666	381	330.2	270	47.6	6.4	12-φ29	AT270S

注：球阀结构长度及连接法兰尺寸可根据用户要求设计制造。

执行器型号XXX/XXX分别是气动执行器双作用式，单作用式(弹簧复位)。

根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。

以上执行器配置及数据均采用软密封(F、N、P)阀门，硬密封阀门的配置及数据请咨询本公司。

Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per users' requirements  
Data XXX/XXX represent respectively the double-acting/single-acting type (spring reposition) of pneumatic actuator  
The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model  
The above actuator configuration and data all use soft-sealed valves (F, N, P) and hard-sealed valves, or consulting us if you have more questions.



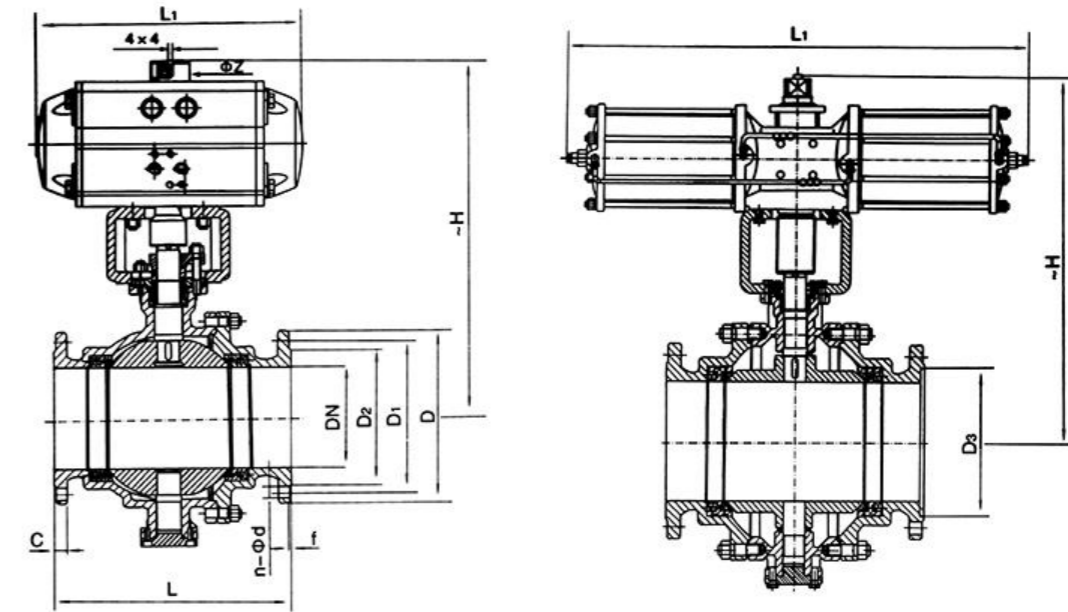
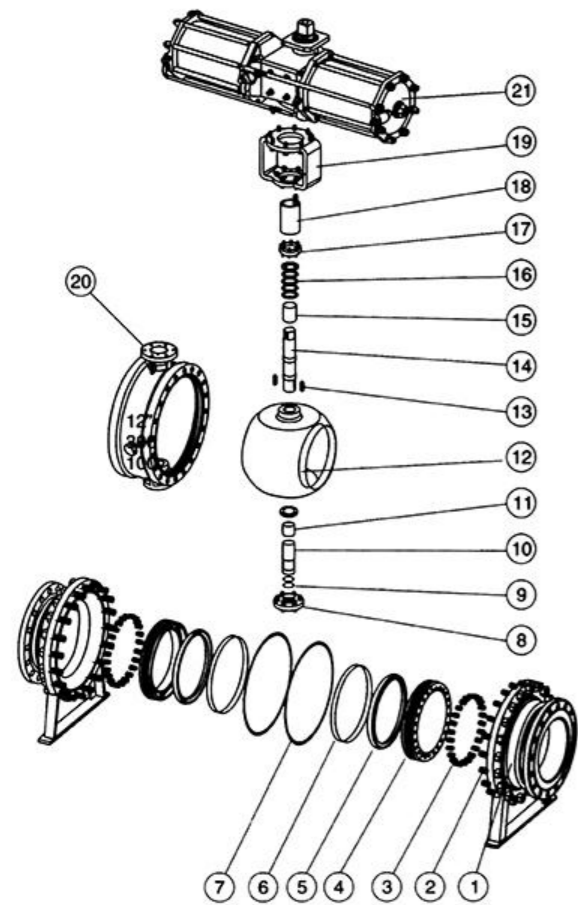
技术规范 Technique norm

设计依据 Design Basis	GB标准 Standard		
设计标准 Design Standard	GB/12237		
结构长度 Face to face dimension	法兰连接 Flange Connecting	GB/12221	
连接法兰尺寸 Connecting Flange Size	GB/9113、JB/T79		
试验和检验 Test & inspection	GB/T13927、JB/T9092		

注：球阀结构长度及连接法兰尺寸可根据用户要求设计制造。  
Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per users' requirements.

主要零件材质表 Form of Main Parts Materials

序号 No.	零件名称 Name of parts	材质 Material		
		C	P	R
1	右阀体 Right valve	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
2	螺栓 Screw	35	1Cr18Ni9Ti	1Cr18Ni9Ti
3	弹簧 Spring	60si2Mn	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
4	阀座 Seat	25或1Cr13	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
5	密封圈 Sealing ring	PTFE、尼龙(Nylon)、对位聚苯(PPL) 硬质合金Hard Alloy		
6	O形圈 O-Rring	橡胶Rubber、氟橡胶Viton		
7	垫片 Gasket	PTFE、石墨金属复合垫 Graphite metal composite pad		
8	法兰 Flange	WCB	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
9	垫片 Gasket	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
10	下阀杆 Stem	1Cr13	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
11	衬套 Bushing	PTFE复合轴承 Composite bearings		
12	球体 Ball	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
13	键 Key	35	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
14	阀杆 Stem	1Cr13	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
15	衬套 Bushing	PTFE复合轴承 Composite bearings		
16	填料 Packing	PTFE、柔性石墨 Flexible Graphite		
17	填料压盖 Gland	WCB	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
18	连接套 Connecting Set	35	35	1Cr18Ni9Ti
19	支架 Yoke	WCB	WCB	1Cr18Ni9Ti
20	阀体 Body	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
21	气动执行器 Pneumatic Actuator	GT系列、AT系列、AW系列 GT Series, AT Series, AW Series		



主要外形及连接法兰尺寸 Q647F(N、P、H、Y)-PN16(1.6MPa) Main Outline and Connecting Flange Size

公称直径 Nominal diameter DN	外形尺寸 Outline Size			连接尺寸 Connecting Size						执行器型号 Actuator Model
	L	L1	~H	D	D1	D2	C	f	n-φd	
50	178	211/315	323/348	165	125	99	20	3	4-φ18	AT075D/AT100S
65	190	248/269	363/388	185	145	118	20	3	4-φ18	AT088D/AT100S
80	203	269/345	408/430	200	160	132	20	3	8-φ18	AT100D/AT125S
100	229	345/438	470/527	220	180	156	22	3	8-φ18	AT125D/AT160S
125	356	409/550	537/625	250	210	184	22	3	8-φ18	AT145D/AT190S
150	394	438/600	577/655	285	240	211	24	3	8-φ22	AT160D/AT210S
200	457	600/633	695/730	340	295	266	24	3	12-φ22	AT210D/AT240S
250	533	633/730	762/792	405	355	319	26	3	12-φ26	AT240D/AT270S
300	610	1180	808	460	410	370	28	4	12-φ26	AW20/AW25S
350	686	1180	916	520	470	429	30	4	16-φ26	AW20/AW28S
400	762	1320	970	580	525	480	32	4	16-φ30	AW28/AW35S
500	914	1430	1088	715	650	609	36	4	20-φ33	AW35/AW40S

注：球阀结构长度及连接法兰尺寸可根据JB/T79标准或用户要求设计制造。  
执行器型号XXX/XXX分别是气动执行器双作用式/单作用式（弹簧复位）。  
根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。  
以上执行器配置及数据均采用软密封(F、N、P)阀门，硬密封阀门的配置及数据请咨询本公司。  
Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per JB/T79 standard or users' requirements.  
Data XXX/XXX represent respectively the double-acting/single-acting type (spring reposition) of pneumatic actuator.  
The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model.  
The above actuator configuration and data all use soft-sealed valves (F, N, P) and hard-sealed valves, or consulting us if you have more questions.

主要外形及连接法兰尺寸 Q647F(N、P、H、Y)-PN25(2.5MPa) Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size			连接尺寸 Connecting Size						执行器型号 Actuator Model
	L	L1	~H	D	D1	D2	C	f	n-Φd	
50	216	248/345	333/370	165	125	99	20	3	4-Φ18	AT088D/AT125S
65	243	269/409	388/442	185	145	118	22	3	4-Φ18	AT100D/AT145S
80	283	345/438	430/472	200	160	132	24	3	8-Φ18	AT125D/AT160S
100	305	409/550	507/575	235	190	156	24	3	8-Φ22	AT145D/AT190S
125	381	438/600	562/630	270	220	184	26	3	8-Φ26	AT160D/AT210S
150	403	550/633	640/700	300	250	211	28	3	8-Φ26	AT190D/AT240S
200	502	600/633	705/740	360	310	274	30	3	12-Φ26	AT210D/AT240S
250	568	633/730	772/802	425	370	330	32	3	12-Φ30	AT240D/AT270S
300	648	1180	821	485	430	389	34	4	16-Φ30	AW20/AW25S
350	762	1180	934	555	490	448	38	4	16-Φ30	AW20/AW28S
400	838	1320	990	620	555	503	40	4	16-Φ36	AW28/AW35S
500	991	1430	1006	730	660	609	44	4	20-Φ36	AW35/AW40S

主要外形及连接法兰尺寸 Q647F(N、P、H、Y)-PN40(4.0MPa) Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size			连接尺寸 Connecting Size						执行器型号 Actuator Model	
	L	L1	~H	D	D1	D2	D3	C	f		n-Φd
50	216	248/345	358/397	165	125	99	88x4	20	3	4-Φ18	AT088D/AT125S
65	243	269/345	410/452	185	145	118	110x4	22	3	8-Φ18	AT100D/AT125S
80	283	345/409	462/530	200	160	132	121x4	24	3	8-Φ18	AT125D/AT145S
100	305	409/438	547/615	235	190	156	150x4.5	24	3	8-Φ22	AT145D/AT160S
125	381	438/550	635/695	270	220	184	176x4.5	26	3	8-Φ26	AT160D/AT190S
150	403	550/600	700/735	300	250	211	204x4.5	28	3	8-Φ26	AT190D/AT210S
200	502	633/730	748/778	375	320	284	260x4.5	34	3	12-Φ30	AT240D/AT270S
250	568	730	803	450	385	315	313x4.5	38	3	12-Φ33	AT270
300	648	1320	914	515	450	409	364x4.5	42	4	16-Φ33	AW25/AW28S
350	762	1320	970	580	510	465	422x5	46	4	16-Φ36	AW25/AW35S
400	838	1430	1060	660	585	535	474x5	50	4	16-Φ39	AW35/AW40S
500	991	1950	1228	755	670	615	576x5	52	4	20-Φ42	AW40S

注：球阀结构长度及连接法兰尺寸可根据JB/T79标准或用户要求设计制造。

执行器型号XXX/XXX分别是气动执行器双作用式/单作用式（弹簧复位）。

根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。

以上执行器配置及数据均采用软密封(F、N、P)阀门，硬密封阀门的配置及数据请咨询本公司。

Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per JB/T79 standard or users' requirements.

Data XXX/XXX represent respectively the double-acting/single-acting type (spring reposition) of pneumatic actuator.

The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model.

The above actuator configuration and data all use soft-sealed valves (F, N, P) and hard-sealed valves, or consulting us if you have more questions.

技术规范 Technique norm

设计依据 Design Basis	API, ANSI标准 Standard
设计标准 Design Standard	API 6D, ANSI B16.34
结构长度 Face to face dimension	法兰连接 Flange Connecting
连接法兰尺寸 Connecting Flange Size	ANSI B16.5
试验和检验 Test & inspection	API 6D, API 598

注：球阀结构长度及连接法兰尺寸可根据用户要求设计制造。

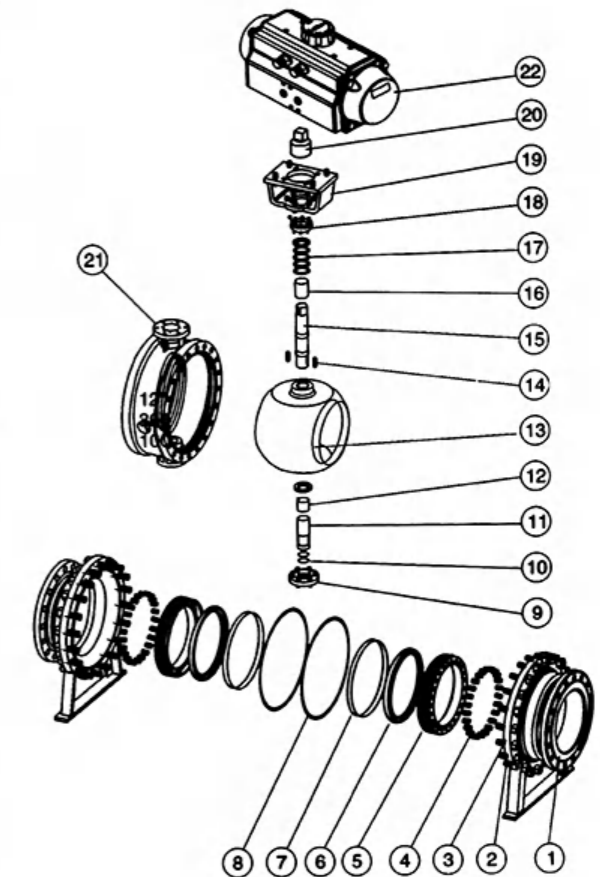
Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per users' requirements.

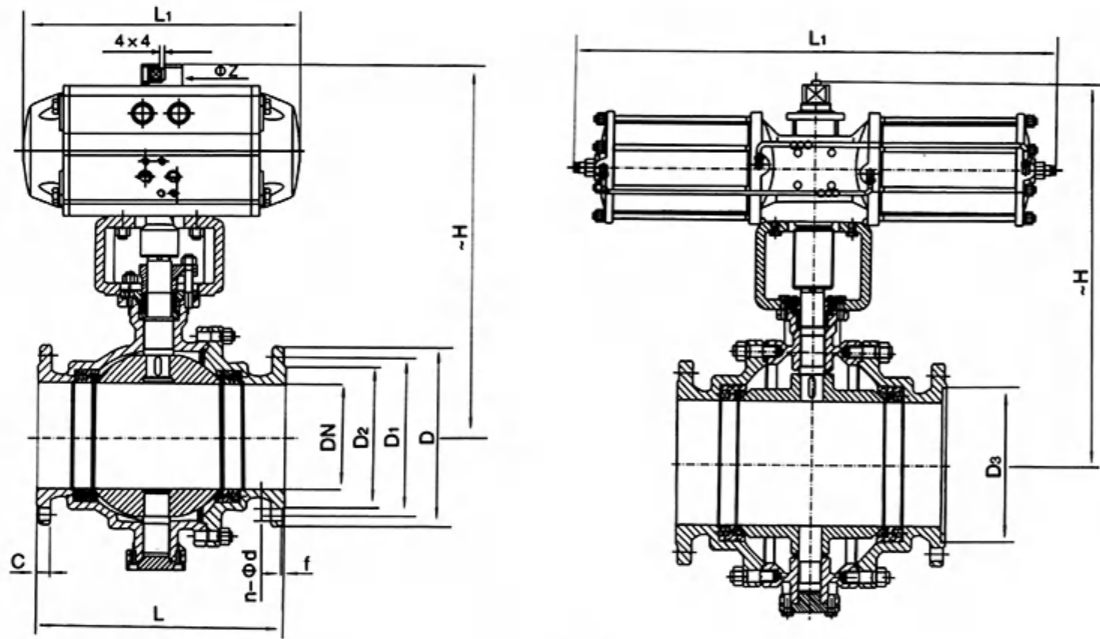
主要零件材质表 Form of Main Parts Materials

序号 No.	零件名称 Name of parts	材质 Material		
		C	P	R
1	左右阀体 Body	A216-WCB	A351-CF8	A351-CF8M
2	螺栓 Screw	A193-B7	A276-304	A276-316
3	螺母 Nut	A194-2H	A276-304	A276-316
4	弹簧 Spring	YB/T5104 60Si2Mo	YBD(T)11 1Cr18Ni9	YBD(T)11 1Cr18Ni9
5	阀座 Sea	A182-A105	A276-304	A276-316
6	密封圈 Sealing ring	PTFE、尼龙(Nylon)、对位聚苯(PPL)、硬质合金 Hard Alloy		
7	O形圈 "O" Ring	橡胶Rubber、氟橡胶Viton		
8	垫片 Gasket	PTFE、石墨金属复合垫 Graphite metal composite pad		
9	法兰 Flange	A216-WCB	A351-CF8	A351-CF8
10	垫片 Gasket	A276-304	A276-304	A276-316
11	下阀杆 Stem	A276-410	A276-304	A276-316
12	衬套 Bushing	PTFE复合轴承 Composite bearings		
13	球体 Ball	A182-F304	A182-F304	A182-F316
14	键 Key	AISI C1045	A276-304	A276-316
15	阀杆 Stem	A276-410	A276-304	A276-316
16	衬套 Bushing	PTFE复合轴承 Composite bearings		
17	填料 Packing	PTFE、柔性石墨 Flexible Graphite		
18	填料压盖 Gland	A216-WCB	A276-304	A276-316
19	连接套 Connect set	A182-A105	A276-304	A276-304
20	支架 Yoke	A216-WCB	A276-304	A276-304
21	阀体 Body	A216-WCB	A351-CF8	A351-CF8
22	气动装置 Pneumatic Device	GT系列、AT系列、AW系列 GT Series, AT Series, AW Series		

注：球阀主要零件及密封圈的材质可根据实际工况条件或用户特殊要求设计选用。

Note: The main spare parts and sealing-ring materials of ball valve series can be designed for options as per real working conditions and users' special requirements.





主要外形及连接法兰尺寸 Q647F(N、P、H、Y)-Class 150 Main Outline and Connecting Flange Size

公称通径 Nominal diameter		外形尺寸 Outline Size			连接法兰尺寸 Connecting Flange Size						执行器型号 Actuator Model
DN	in	L	L1	~H	D	D1	D2	C	f	n-φd	
50	2	178	248/269	320/345	152	120.6	92	15.8	1.6	4-φ19	AT088D/AT100S
65	2 1/2	190	248/269	365/390	178	139.7	105	17.6	1.6	4-φ19	AT088D/AT100S
80	3	203	269/345	403/425	190	152.4	127	19.1	1.6	4-φ19	AT100D/AT125S
100	4	229	345/438	475/532	229	190.5	157	23.9	1.6	8-φ19	AT125D/AT160S
125	5	356	409/550	539/627	254	216	186	23.9	1.6	8-φ22	AT145D/AT190S
150	6	394	438/600	574/652	279	241.3	216	25.4	1.6	8-φ22	AT160D/AT210S
200	8	457	600/633	693/728	343	298.5	270	28.6	1.6	8-φ22	AT210D/AT240S
250	10	533	633/730	762/792	406	362	324	30.2	1.6	12-φ25	AT240D/AT270S
300	12	610	1180	820	483	432	381	31.8	1.6	12-φ25	AW20/AW25S
350	14	686	1180	923	533	476	413	35	1.6	12-φ29	AW20/AW28S
400	16	762	1320	979	597	539.5	470	36.6	1.6	16-φ29	AW28/AW35S
500	20	914	1430	1079	699	635	584	42.9	1.6	20-φ32	AW35/AW40S

注：球阀结构长度及连接法兰尺寸可根据JB/T79标准或用户要求设计制造。

执行器型号XXX/XXX分别是气动执行器双作用式/单作用式（弹簧复位）。

根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。

以上执行器配置及数据均采用软密封(F、N、P)阀门，硬密封阀门的配置及数据请咨询本公司。

Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per JB/T79 standard or users' requirements.

Data XXX/XXX represent respectively the double-acting/single-acting type(spring reposition)of pneumatic actuator.

\*The relative sizes are subject to change responding to the difference in valva torque, medium and actuator model.

The above actuator configuration and data all use soft-sealed valves (F, N, P) and hard-sealed valves, or consulting us if you have more questions.

主要外形及连接法兰尺寸 Q647F(N、P、H、Y)-Class 300 Main Outline and Connecting Flange Size

公称通径 Nominal diameter		外形尺寸 Outline Size			连接法兰尺寸 Connecting Flange Size						执行器型号 Actuator Model
DN	in	L	L1	~H	D	D1	D2	C	f	n-φd	
50	2	216	248/345	336/373	165	127	92	22.3	1.6	8-φ19	AT088D/AT125S
65	2 1/2	241	269/409	395/449	190	149.2	105	25.4	1.6	8-φ22	AT100D/AT145S
80	3	283	315/438	435/477	210	168.3	127	28.6	1.6	8-φ22	AT115D/AT160S
100	4	305	409/550	504/572	254	200	157	31.8	1.6	8-φ22	AT145D/AT190S
125	5	381	438/600	566/634	279	234.9	186	35	1.6	8-φ22	AT160D/AT210S
150	6	403	550/633	649/709	318	269.9	216	36.6	1.6	12-φ22	AT190D/AT240S
200	8	502	600/633	715/750	381	330.2	270	41.3	1.6	12-φ25	AT210D/AT240S
250	10	568	633/730	782/812	444	387.5	324	47.7	1.6	16-φ29	AT240D/AT270S
300	12	648	1162	839	521	451	381	50.8	1.6	12-φ32	AW20/AW25S
350	14	762	1380	984	584	514.5	413	54	1.6	20-φ32	AW20/AW28S
400	16	838	1860	1004	648	571.5	470	57	1.6	20-φ35	AW28/AW35S
500	20	991	1860	1118	775	686	584	63.5	1.6	24-φ35	AW35/AW40S

主要外形及连接法兰尺寸 Q647F(N、P、H、Y)-Class 400 Main Outline and Connecting Flange Size

公称通径 Nominal diameter		外形尺寸 Outline Size			连接法兰尺寸 Connecting Flange Size						执行器型号 Actuator Model
DN	in	L	L1	~H	D	D1	D2	C	f	n-φd	
50	2	292	269/409	393/447	165	127	92	25.4	6.4	8-φ19	AT100D/AT145S
65	2 1/2	330	345/438	432/474	190	149.5	105	28.6	6.4	8-φ22	AT125D/AT160S
80	3	356	345/409	507/575	210	168.3	127	31.8	6.4	8-φ22	AT125D/AT145S
100	4	406	409/550	572/640	254	200	157	35	6.4	8-φ26	AT145D/AT190S
125	5	457	438/600	644/704	279	234.9	186	38.2	6.4	8-φ26	AT160D/AT210S
150	6	495	550/633	721/751	318	269.9	216	41.3	6.4	12-φ26	AT190D/AT240S
200	8	597	633/730	787/817	381	330.2	270	47.6	6.4	12-φ29	AT240D/AT270S
250	10	673	1180	801	444	387.3	324	54	6.4	16-φ32	AT270D/AW25S
300	12	762	1180	916	521	450.8	381	57.5	6.4	16-φ35	AW25/AW28S
350	14	826	1320	973	584	514.3	413	60.5	6.4	20-φ35	AW25/AW35S
400	16	902	1430	1055	648	571.5	470	63.5	6.4	20-φ39	AW35/AW40S
500	20	1054	1950	1228	775	685.8	584	70	6.4	24-φ42	AW40S

注：球阀结构长度及连接法兰尺寸可根据JB/T79标准或用户要求设计制造。

执行器型号XXX/XXX分别是气动执行器双作用式/单作用式（弹簧复位）。

根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。

以上执行器配置及数据均采用软密封(F、N、P)阀门，硬密封阀门的配置及数据请咨询本公司。

Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per JB/T79 standard or users' requirements.

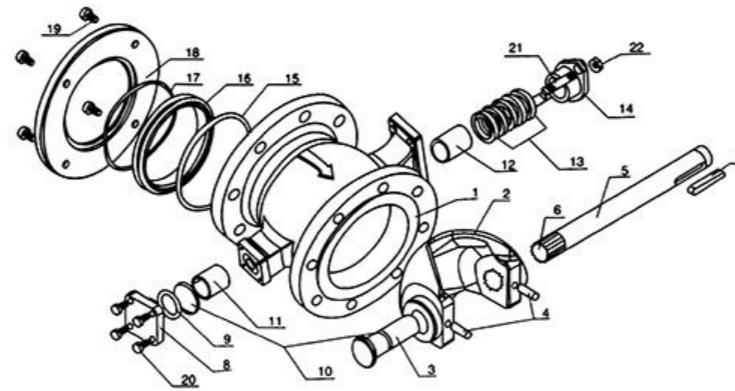
Data XXX/XXX represent respectively the double-acting/single-acting type(spring reposition)of pneumatic actuator.

\*The relative sizes are subject to change responding to the difference in valva torque, medium and actuator model.

The above actuator configuration and data all use soft-sealed valves (F, N, P) and hard-sealed valves, or consulting us if you have more questions.

技术规范 Technique norm

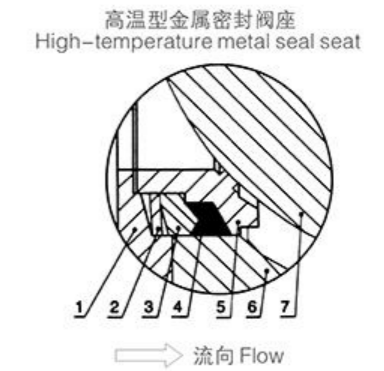
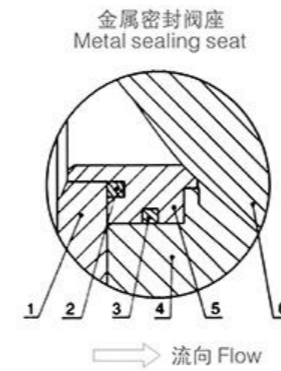
设计依据 Design Basis	GB标准 Standard	ANSI标准 Standard
设计标准 Design Standard	GB/12237	ANSI B16.34
连接法兰尺寸 Connecting Flange Size	GB/9113, JB/T79	ANSI B16.5
试验和检验 Test & inspection	JB/T9092	API 598



零件清单 Parts List

序号No.	名称	Name	数量(件) Quantity(pieces)	材料 Material
1	阀体	Body	1	WCB, CF8, CF8M, CF3, CF3M
2	阀芯	Spool	1	CF8, CF8M+镀硬铬或超音速喷涂
3	后阀杆	After steam	1	17-4PH, SS316
4	圆柱销	Cylindrical pin	2	SS304, SS316
5	前阀杆	Before steam	1	17-4PH, SS316
6	花键	Spline	1	17-4PH, SS316
7	平键	Flat key	1	SS304, 45#
8	后压盖	After gland	1	CF8, CF8M
9	O形圈	*O*-Ring	1	氟橡胶 Viton
10	调整垫	Adjust pad	各1	PTFE
11	自润滑轴承	Self-lubricating bearings	1	复合材料 Composite material
12	自润滑轴承	Self-lubricating bearings	1	复合材料 Composite material
13	填料	Packing	1组	PTFE
14	填料压盖	Gland	1	CF8
15	O形圈	*O*-Ring	1	氟橡胶 Viton
16	密封座	Seal block	1	SS304, SS316+镀硬铬或超音速喷涂
17	密封座弹簧	Seal block spring	1	SS316
18	密封座盖	Sealing lid	1	Q235, SS304, SS316
19	内六角螺钉	Inner Hexagon screw		SS304
20	六角螺钉	Hexagon screw	4	SS304
21	双头螺钉	Double-headed screw	2	SS304
22	六角螺母	Hexagon nut	2	SS304

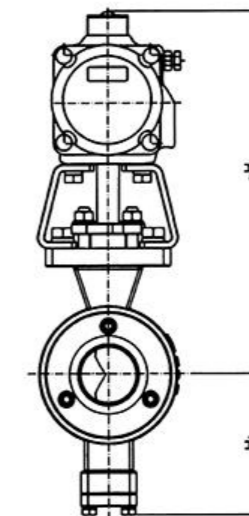
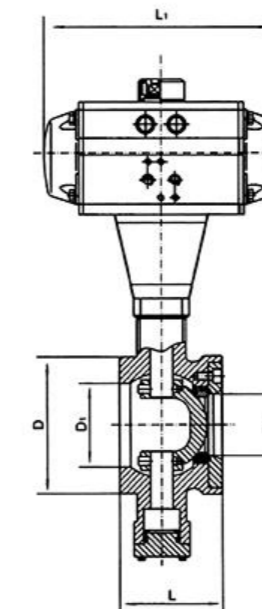
气动对夹式V球阀各种密封结构 Pneumatic Water V-Type Ball Valve Various Seal Structure



金属密封阀座 Metal sealing seat		
序号 No.	名称 Name	温度范围℃ Temperature range
1	密封阀盖 Seal Bonnet	
2	弹簧 Spring	
3	O形圈 *O*-Ring	-20~230℃
4	阀体 Body	
5	密封座 Seal Block	
6	阀芯 Spool	

高温型金属密封阀座 High-temperature metal seal seat		
序号 No.	名称 Name	温度范围℃ Temperature range
1	密封阀盖 Seal Bonnet	
2	蝶簧 Butterfly spring	
3	压圈 Flower ring	
4	石墨环 Graphite ring	-20~425℃
5	阀座 Seat	
6	阀体 Body	
7	阀芯 Spool	

气动对夹式V球阀 VQ670H(P, Y)-PN16、25、Class150  
Pneumatic Water V-Type Ball Valve



主要外形及连接法兰尺寸 VQ670H(P、Y)-PN16、25(1.6、2.5MPa) Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形/连接尺寸Outline/Connecting Size						执行器型号 Actuator Model
	L	L1	~H	H1	D	D1	
25	62	159/248	260/290	87	68	38	AT063D/AT088S
32	62	159/248	267/297	87	78	42	AT063D/AT088S
40	62	211/248	292/312	87	85	50	AT075D/AT088S
50	75	248/269	292/312	97	100	60	AT088D/AT100S
65	90	248/315	332/340	112	120	75	AT088D/AT115S
80	100	269/345	350/381	112	130	94	AT100D/AT125S
100	115	345/409	394/411	122	158	110	AT125D/AT145S
125	129	409/438	410/416	142	180	135	AT145D/AT160S
150	160	438/550	461/486	165	216	165	AT160D/AT190S
200	200	550/600	509/553	195	268	210	AT190D/AT210S
250	240	633/730	572/628	237	325	260	AT240D/AT270S

主要外形及连接法兰尺寸 VQ670H(P、Y)-Class150 Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形/连接尺寸Outline/Connecting Size						执行器型号 Actuator Model	
	L	L1	~H	H1	D	D1		
25	1	62	159/248	260/290	87	68	38	AT063D/AT088S
32	1 1/4	62	159/248	267/297	87	78	42	AT063D/AT088S
40	1 1/2	62	211/248	292/312	87	85	50	AT075D/AT088S
50	2	75	248/269	292/312	97	100	60	AT088D/AT100S
65	2 1/2	90	248/315	332/340	112	120	75	AT088D/AT115S
80	3	100	269/345	359/381	112	130	94	AT100D/AT125S
100	4	115	345/409	394/411	122	158	110	AT125D/AT145S
125	5	129	409/438	410/416	142	180	135	AT145D/AT160S
150	6	160	438/550	461/486	165	216	165	AT160D/AT190S
200	8	200	550/600	509/553	195	268	210	AT190D/AT210S
250	10	240	633/730	572/628	237	325	260	AT240D/AT270S

※注：球阀结构长度及连接法兰尺寸可根据JB/T79标准或用户要求设计制造。

※注：执行器型号XXX/XXX分别是气动执行器双作用式/单作用式（弹簧复位）。

※注：根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。

※注：以上执行器配置及数据均采用软密封(F、N、P)阀门，硬密封阀门的配置及数据请咨询本公司。

Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per JB/T79 standard or users' requirements.

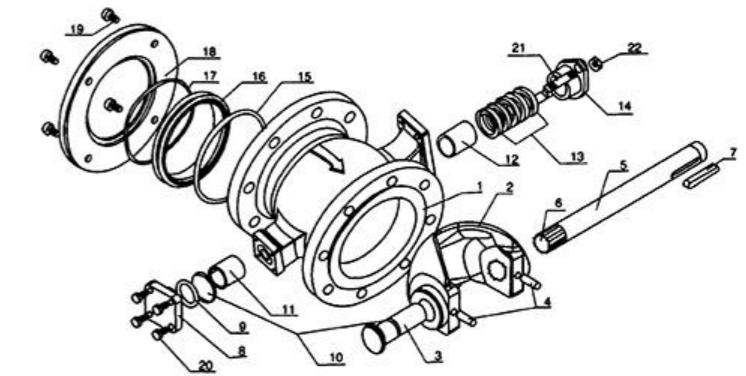
Note: Data XXX/XXX represent respectively the double-acting/single-acting type (spring reposition) of pneumatic actuator.

Note: \*The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model.

Note: the above actuator configuration and data all use soft-sealed valves (F, N, P) and hard-sealed valves, or consulting us if you have more questions.

技术规范 Technical specification

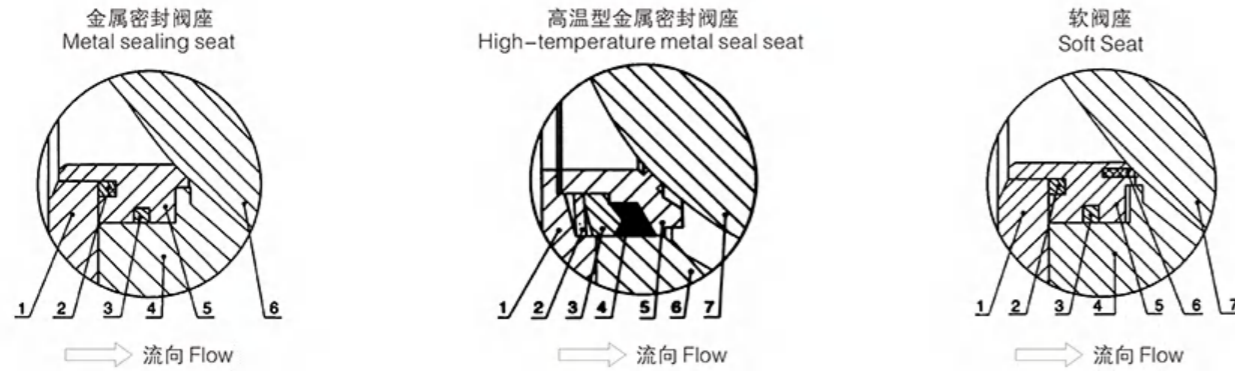
设计依据 Design Basis	GB标准 Standard	ANSI标准 Standard
设计标准 Design Standard	GB/12237	ANSI B16.34
连接法兰尺寸 Connecting Flange Size	GB/9113, JB/T79	ANSI B16.5
试验和检验 Test & inspection	JB/T9092	API 598



零件清单 Parts List

序号No.	名称	Name	数量(件) Quantity(pieces)	材料Material
1	阀体	Body	1	WCB, CF8, CF8M, CF3, CF3M
2	阀芯	Spool	1	CF8, CF8M+镀铬或超音速喷涂
3	后阀杆	After steam	1	17-4PH, SS316
4	圆柱销	Cylindrical pin	2	SS304, SS316
5	前阀杆	Before steam	1	17-4PH, SS316
6	花键	Spline	1	17-4PH, SS316
7	平键	Flat key	1	SS304, 45#
8	后压盖	After gland	1	CF8, CF8M
9	O形圈	*O*-Ring	1	氟橡胶 Viton
10	调整垫	Adjust pad	各1	PTFE
11	自润滑轴承	Self-lubricating bearings	1	复合材料 Composite material
12	自润滑轴承	Self-lubricating bearings	1	复合材料 Composite material
13	填料	Packing	1组	PTFE
14	填料压盖	Gland	1	CF8
15	O形圈	*O*-Ring	1	氟橡胶 Viton
16	密封座	Seal block	1	SS304, SS316+镀铬或超音速喷涂
17	密封座弹簧	Seal block spring	1	SS316
18	密封座盖	Sealing lid	1	Q235, SS304, SS316
19	内六角螺钉	Inner Hexagon screw		SS304
20	六角螺钉	Hexagon screw	4	SS304
21	双头螺钉	Double-headed screw	2	SS304
22	六角螺母	Hexagon nut	2	SS304

气动法兰式V球阀各种密封结构 Pneumatic Flange V-Type Ball Valve Various Seal Structure

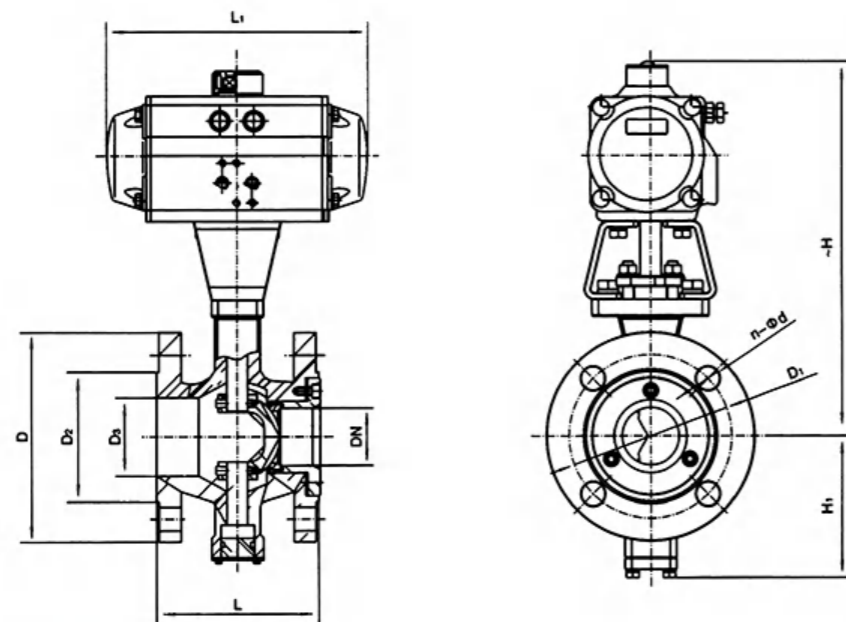


金属密封阀座 Metal sealing seat		
序号 No.	名称 Name	温度范围℃ Temperature range
1	密封阀盖 Seal Bonnet	
2	弹簧 Spring	
3	O形圈 "O"-Ring	-20~160℃
4	阀体 Body	-20~230℃
5	密封座 Seal Block	
6	阀芯 Spool	

金属密封阀座 Metal sealing seat		
序号 No.	名称 Name	温度范围℃ Temperature range
1	密封阀盖 Seal Bonnet	
2	蝶簧 Butterfly spring	
3	压圈 Flower ring	
4	石墨环 Graphite ring	-20~425℃
5	阀座 Seat	
6	阀体 Body	
7	阀芯 Spool	

金属密封阀座 Metal sealing seat		
序号 No.	名称 Name	温度范围℃ Temperature range
1	密封阀盖 Seal Bonnet	
2	弹簧 Spring	
3	O形圈 "O"-Ring	
4	阀体 Body	-20~160℃
5	密封座 Seat Block	
6	密封圈(PTFE) Seal Ring	
7	阀芯 Spool	

气动法兰式V球阀 VQ640F(P、H、Y)-PN16、25、Class150  
Pneumatic Flange Type V-Type Ball Valve



主要外形及连接法兰尺寸 VQ640F(P、H、Y)-PN16(1.6MPa) Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形/连接尺寸 Outline/Connecting Size											执行器型号 Actuator Model
	L	L1	~H	H1	D	D1	D2	D3	C	f	n-Φd	
25	102	159/248	260/290	87	115	85	65	38	16	2	4-Φ14	AT063D/AT088S
32	105	159/248	267/297	87	140	100	76	42	18	3	4-Φ18	AT063D/AT088S
40	114	211/269	292/312	87	150	110	84	50	18	3	4-Φ18	AT075D/AT100S
50	124	248/269	292/312	97	165	125	99	60	20	3	4-Φ18	AT088D/AT100S
65	145	269/315	327/340	112	185	145	118	75	20	3	4-Φ18	AT100D/AT115S
80	165	315/345	359/381	112	200	160	132	94	20	3	8-Φ18	AT115D/AT125S
100	194	345/409	395/412	122	220	180	156	110	22	3	8-Φ18	AT125D/AT145S
125	213	409/438	399/416	142	250	210	184	135	22	3	8-Φ18	AT145D/AT160S
150	229	438/550	461/486	165	285	240	211	165	24	3	8-Φ22	AT160D/AT190S
200	243	550/600	509/553	195	340	295	266	210	24	3	12-Φ22	AT190D/AT210S
250	297	633/730	603/628	237	405	355	319	260	26	3	12-Φ26	AT240D/AT270S
300	334	730	790/825	287	460	410	370	310	28	4	12-Φ26	AT270D
350	414	1180	828/858	338	520	470	429	360	30	4	16-Φ26	AW20/AW25S
400	490	1180	1063/-	390	580	525	480	410	32	4	16-Φ30	AW20/AW25S
500	600	1320	-	510	715	650	609	510	36	4	16-Φ33	AW25/AW35S

主要外形及连接法兰尺寸 VQ640F(P、H、Y)-PN25(2.5MPa) Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形/连接尺寸 Outline/Connecting Size											执行器型号 Actuator Model
	L	L1	~H	H1	D	D1	D2	D3	C	f	n-Φd	
25	102	159/248	260/290	87	115	85	65	38	16	3	4-Φ14	AT063D/AT088S
32	105	159/248	267/297	87	140	100	76	42	18	3	4-Φ18	AT063D/AT088S
40	114	211/269	292/312	87	150	110	84	50	18	3	4-Φ18	AT075D/AT100S
50	124	248/315	312/325	97	165	125	99	60	20	3	4-Φ18	AT088D/AT115S
65	145	315/345	340/362	112	185	145	118	75	22	3	8-Φ18	AT115D/AT125S
80	165	345/409	381/398	112	200	160	132	94	24	3	8-Φ18	AT125D/AT145S
100	194	345/409	395/412	122	235	190	156	110	24	3	8-Φ22	AT125D/AT145S
125	213	409/438	416/441	142	270	220	184	135	26	3	8-Φ26	AT145D/AT160S
150	229	438/550	486/530	165	300	250	211	165	28	3	8-Φ26	AT160D/AT190S
200	243	550/600	553/578	195	360	310	274	210	30	3	12-Φ26	AT190D/AT210S
250	297	633/730	628/673	237	425	370	330	260	32	3	12-Φ30	AT240D/AT270S
300	334	730	725/755	281	485	430	389	310	34	4	16-Φ30	AT270D
350	414	1180	858/-	338	555	490	448	360	38	4	16-Φ33	AW20/AW25S
400	490	1180	-/-	390	620	550	503	410	40	4	16-Φ36	AW20/AW25S
500	600	1320	-/-	510	730	660	609	510	44	4	20-Φ36	AW25/AW35S

注：球阀结构长度及连接法兰尺寸可根据JB/T79标准或用户要求设计制造。

执行器型号XXX/XXX分别是气动执行器双作用式/单作用式（弹簧复位）。

根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。

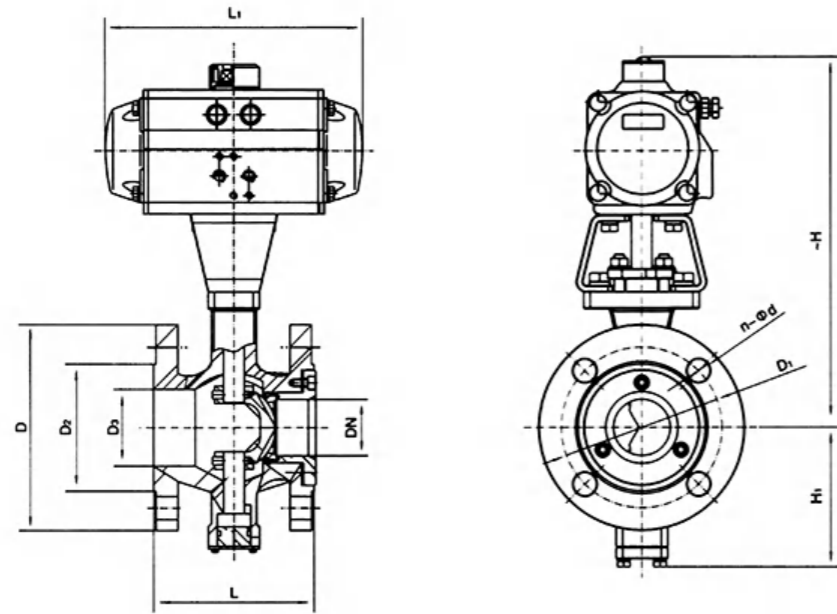
以上执行器配置及数据均采用软密封(F、N、P)阀门，硬密封阀门的配置及数据请咨询本公司。

Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per JB/T79 standard or users' requirements.

Data XXX/XXX represent respectively the double-acting/single-acting type (spring reposition) of pneumatic actuator.

\*The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model.

The above actuator configuration and data all use soft-sealed valves (F, N, P) and hard-sealed valves, or consulting us if you have more questions.



主要外形及连接法兰尺寸 VQ640F(P、H、Y)-Class 150 Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形/连接尺寸 Outline/Connecting Size											执行器型号 Actuator Model
	L	L1	-H	H1	D	D1	D2	D3	C	f	n-φd	
25	102	159/248	260/290	87	108	79.5	51	38	12	1.6	4-φ16	AT063D/AT088S
32	105	159/248	267/297	87	117	88.9	64	42	13	1.6	4-φ16	AT063D/AT088S
40	114	211/269	292/312	87	127	98.4	73	50	14.5	1.6	4-φ16	AT075D/AT100S
50	124	248/269	292/312	97	152	120.6	92	60	15.8	1.6	4-φ19	AT088D/AT100S
65	145	248/315	327/340	112	178	139.7	105	75	17.6	1.6	4-φ19	AT088D/AT115S
80	165	315/345	359/381	112	190	152.4	127	94	19.1	1.6	4-φ19	AT115D/AT125S
100	194	345/409	395/412	122	229	190.5	157	110	23.9	1.6	8-φ19	AT125D/AT145S
125	213	409/439	399/416	142	254	216	186	135	23.9	1.6	8-φ22	AT145D/AT160S
150	229	438/550	461/486	165	279	241.3	216	165	25.4	1.6	8-φ22	AT160D/AT190S
200	243	550/600	509/553	195	343	298.5	270	210	28.6	1.6	8-φ22	AT190D/AT210S
250	297	633/730	603/628	237	406	362	324	260	30.2	1.6	12-φ25	AT240D/AT270S
300	334	730	790/825	281	483	432	381	310	31.8	1.6	12-φ25	AT270D
350	414	1180	828/858	338	533	476	413	360	35	1.6	12-φ29	AW20/AW25S
400	490	1180	1063/-	390	597	539.5	470	410	36.6	1.6	16-φ29	AW20/AW25S
500	600	1320	-	510	698	635	584	510	42.9	1.6	20-φ32	AW25/AW35S

注：球阀结构长度及连接法兰尺寸可根据JB/T79标准或用户要求设计制造。

执行器型号XXX/XXX分别是气动执行器双作用式/单作用式（弹簧复位）。

根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。

以上执行器配置及数据均采用软密封(F、N、P)阀门，硬密封阀门的配置及数据请咨询本公司。

Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per JB/T79 standard or users' requirements.

Data XXX/XXX represent respectively the double-acting/single-acting type (spring reposition) of pneumatic actuator.

\*The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model.

The above actuator configuration and data all use soft-sealed valves (F, N, P) and hard-sealed valves, or consulting us if you have more questions.

技术规范 Technique norm

设计依据 Design Basis	GB标准 Standard	ANSI标准 Standard
设计标准 Design Standard	GB/12237	ANSI B16.34
连接法兰尺寸 Connecting Flange Size	GB/9113, JB/T79	ANSI B16.5
试验和检验 Test & inspection	JB/T9092	API 598

注：球阀结构长度及连接法兰尺寸可根据用户要求设计制造。

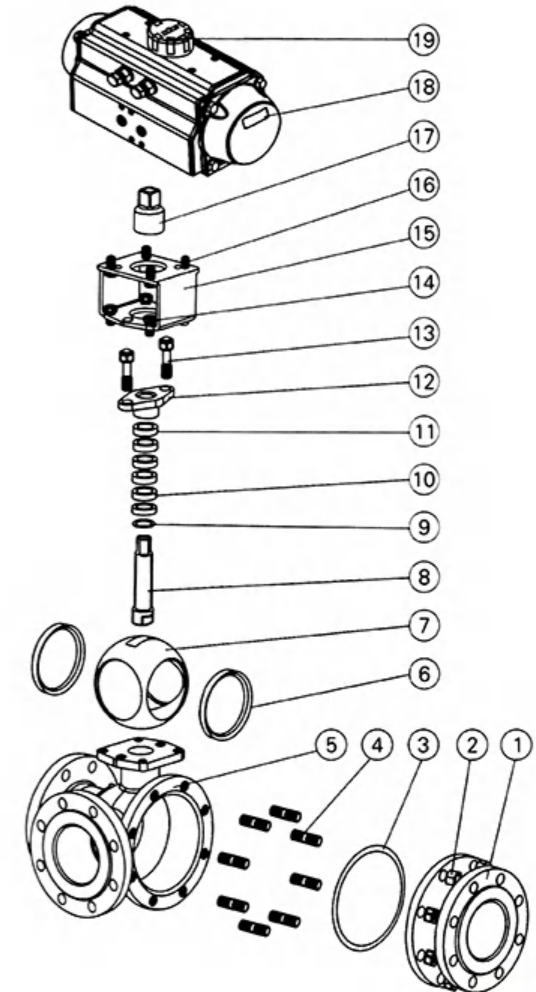
Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per users' requirements.

主要零件材质表 Form of Main Parts Materials

序号 No.	零件名称 Name of parts	材质 Material		
		C	P	R
1	右阀体 Right valve	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
2	螺母 Nut	35	1Cr18Ni9Ti	1Cr18Ni9Ti
3	垫片 Gasket	PTFE、石墨金属复合垫 Graphite metal composite pad		
4	螺栓 Screw	35	1Cr18Ni9Ti	1Cr18Ni9Ti
5	阀体 Body	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
6	阀座 Seat	PTFE、尼龙(Nylon)、对位聚苯(PPL) 硬质合金Hard Alloy		
7	球体 Ball	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
8	阀杆 Stem	1Cr13	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
9	垫片 Gasket	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
10	填料 Packing	PTFE、柔性石墨 Flexible Graphite		
11	衬套 Bushing	PTFE复合轴承 Composite bearings		
12	压盖 Gland	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
13	螺栓 Screw	35	1Cr18Ni9Ti	1Cr18Ni9Ti
14	螺栓 Screw	35	1Cr18Ni9Ti	1Cr18Ni9Ti
15	连接支架 Screw	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni9Ti
16	螺栓 Screw	35	1Cr18Ni9Ti	1Cr18Ni9Ti
17	连接套 Connecting Set	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni9Ti
18	气动装置 Pneumatic Device	GT系列、AT系列、AW系列 GT Series, AT Series, AW Series		
19	位置指示器 Location Indicator	塑料 Plastic		

注：球阀主要零部件及密封圈的材质可根据实际工况条件或用户特殊要求设计选用。

Note: The main spare parts and sealing-ring materials of ball valve series can be designed for options as per real working conditions and uses' special requirements.

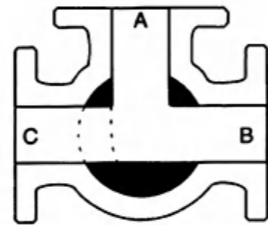




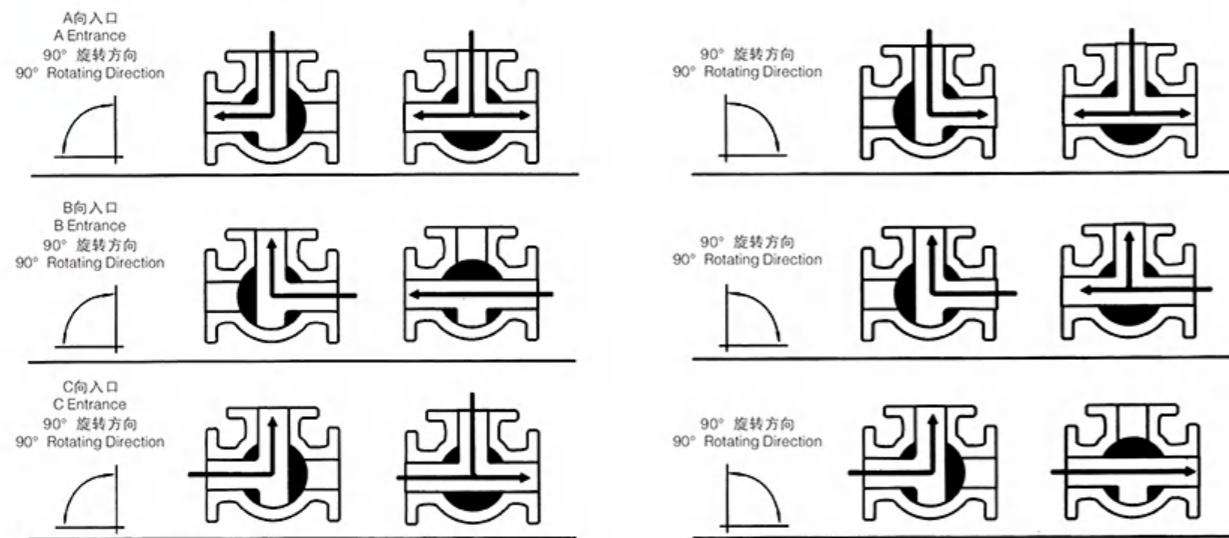
三通球阀介质流向示意图 Sketch of medium flow-direction of three-way ball valve

三通球阀用于换向分流或汇合流通，是具有二面或四面阀座的多通道球阀，任一通道可用作入口而无泄漏。三通既可制成L型通道也可制成T型通道。

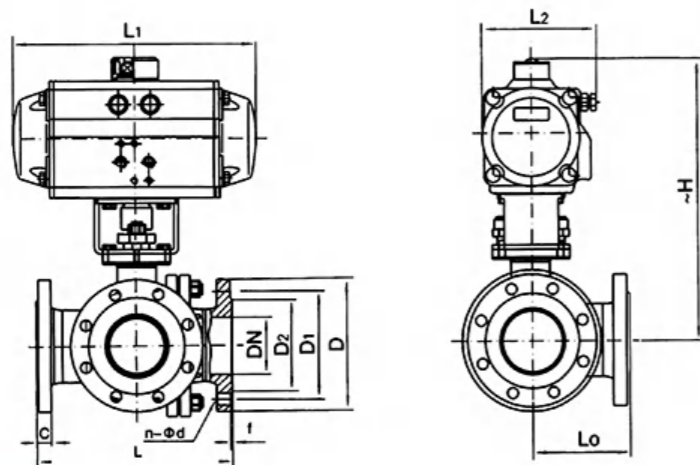
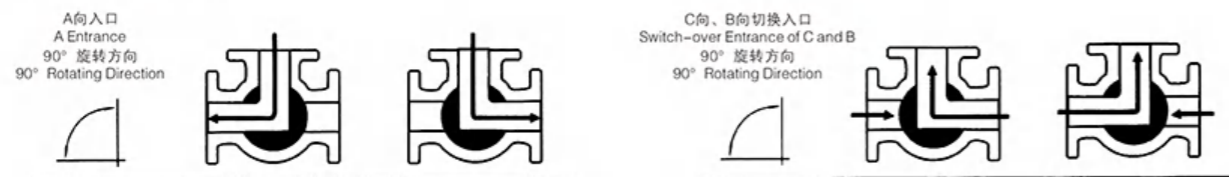
Three-way ball valve is used for diffluence or confluent circulation with two-side or four-side valve base embodying multiple channels. All The channels can be used as entrance, with no leakage. The three-way can be made to L-shaped channel or T-shaped channel.



T型通道 T-shaped Passage



L型通道 L-shaped Passage



主要外形及连接尺寸 Q644(5)F(N、P、H、Y)-PN16(1.6MPa) Main Outline and Connecting Flange Size

公称直径 Nominal diameter		外形尺寸 Outline Size					连接尺寸 Connecting Size						执行器型号 Actuator Model
mm	in	L	Lo	L1	L2	~H	D	D1	D2	C	f	n-φd	
15	1/2	150	72	141/159	71/83	204/235	95	65	46	14	2	4-φ14	AT050D/AT063S
20	3/4	160	80	159/211	83/95	240/252	105	75	56	16	2	4-φ14	AT063D/AT075S
25	1	180	90	211/248	95/107	257/265	115	85	65	16	2	4-φ14	AT075D/AT088S
32	1 1/4	200	100	211/248	95/107	277/312	140	100	76	18	3	4-φ18	AT075D/AT088S
40	1 1/2	220	110	248/269	107/123	292/317	150	110	84	18	3	4-φ18	AT088D/AT100S
50	2	240	120	248/345	107/152	325/347	165	125	99	20	3	4-φ18	AT088D/AT125S
65	2 1/2	260	130	315/409	141/172	357/389	185	145	118	20	3	4-φ18	AT115D/AT145S
80	3	280	140	345/409	152/172	368/400	200	160	132	20	3	8-φ18	AT125D/AT145S
100	4	320	160	409/550	172/215	410/498	220	180	156	22	3	8-φ18	AT145D/AT190S
125	5	380	190	438/600	187/240	470/538	250	210	184	22	3	8-φ18	AT160D/AT210S
150	6	440	220	550/633	215/262	556/591	285	240	211	24	3	8-φ22	AT190D/AT240S
200	8	550	260	600/730	210/330	648/687	340	295	266	24	3	12-φ22	AT210D/AT270S

主要外形及连接尺寸 Q644(5)F(N、P、H、Y)-PN25(2.5MPa) Main Outline and Connecting Flange Size

公称直径 Nominal diameter		外形尺寸 Outline Size					连接尺寸 Connecting Size						执行器型号 Actuator Model
mm	in	L	Lo	L1	L2	~H	D	D1	D2	C	f	n-φd	
15	1/2	150	72	159/211	83/95	235/247	95	65	46	14	2	4-φ14	AT063D/AT075S
20	3/4	160	80	211/248	95/107	252/260	105	75	56	16	2	4-φ14	AT075D/AT088S
25	1	180	90	248/269	107/123	265/289	115	85	65	16	2	4-φ14	AT088D/AT100S
32	1 1/4	200	100	248/315	107/141	287/312	140	100	76	18	3	4-φ18	AT088D/AT115S
40	1 1/2	220	110	269/409	123/152	317/339	150	110	84	18	3	4-φ18	AT100D/AT125S
50	2	240	120	345/345	123/152	325/347	165	125	g9	20	3	4-φ18	AT100D/AT125S
65	2 1/2	260	130	269/345	141/172	357/389	185	145	118	22	3	4-φ18	AT115D/AT145S
80	3	280	140	315/438	152/187	400/425	200	160	132	24	3	8-φ18	AT125D/AT160S
100	4	320	160	409/550	172/215	443/531	235	190	156	24	3	8-φ22	AT145D/AT190S
125	5	380	190	438/600	187/240	548/583	270	220	184	26	3	8-φ26	AT160D/AT210S
150	6	440	220	550/633	215/262	628/665	300	250	211	28	3	8-φ26	AT190D/AT240S
200	8	550	260	600/730	240/330	695/744	360	310	274	30	3	12-φ26	AT210D/AT270S

注：球阀结构长度及连接法兰尺寸可根据JB/T79标准或用户要求设计制造。  
 执行器型号XXX/XXX分别是气动执行器双作用式/单作用式（弹簧复位）。  
 根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。  
 以上执行器配置及数据均采用软密封(F、N、P)阀门，硬密封阀门的配置及数据请咨询本公司。  
 Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per JB/T79 standard or users' requirements.  
 Data XXX/XXX represent respectively the double-acting/single-acting type (spring reposition) of pneumatic actuator.  
 \*The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model.  
 The above actuator configuration and data all use soft-sealed valves (F, N, P) and hard-sealed valves, or consulting us if you have more questions.



技术规范 Technique norm

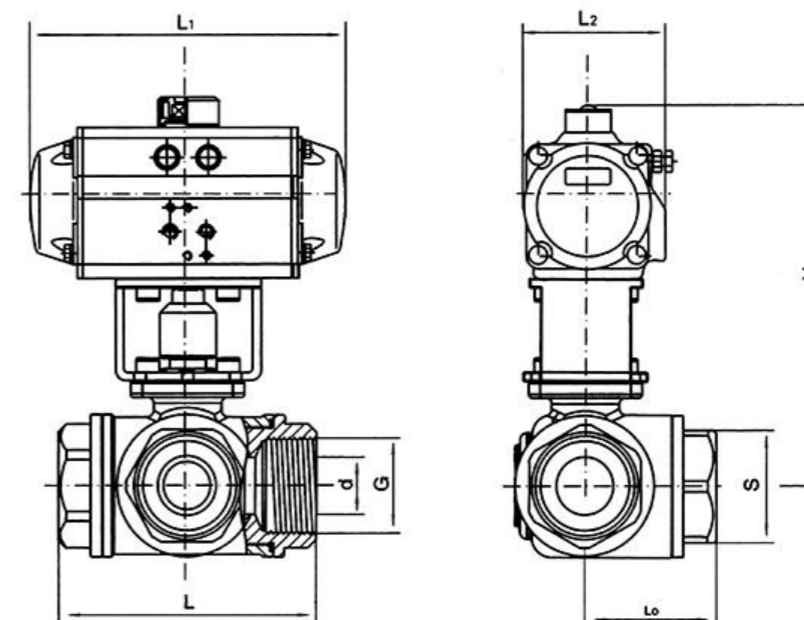
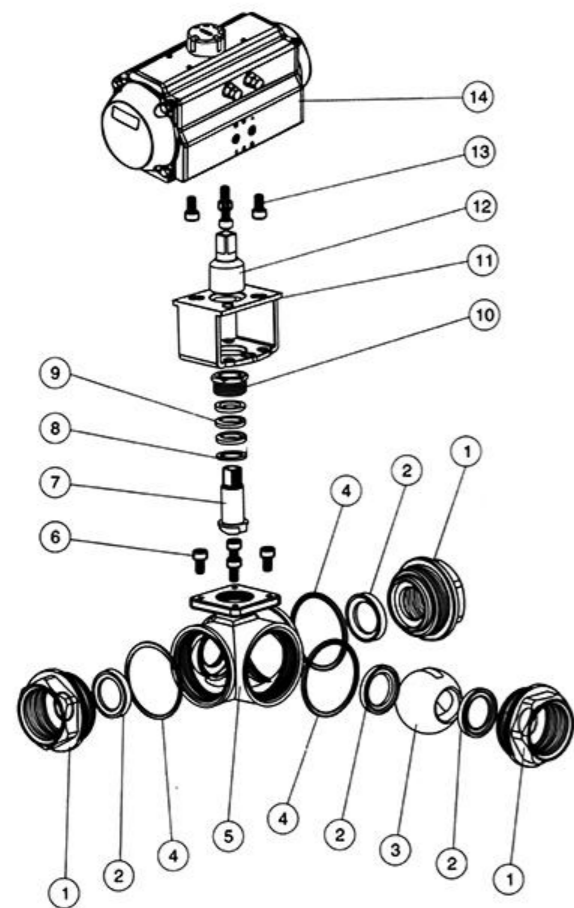
设计依据 Design Basis	GB标准 Standard	ANSI标准 Standard
设计标准 Design Standard	GB/12237	ANSI B16.34
连接法兰尺寸 Connecting Flange Size	GB/9113, JB/T79	ANSI B16.5
试验和检验 Test & inspection	JB/T9092	API 598

注：球阀结构长度及连接法兰尺寸可根据用户要求设计制造。  
Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per users' requirements.

主要零件材质表 Form of Main Parts Materials

序号 No.	零件名称 Name of parts	材质 Material
1	接头 Connector	不锈钢CF8、CF8M、CF3、CF3M Stainless Steel CF8、CF8M、CF3、CF3M
2	阀座 Seat	PTFE、尼龙(Nylon)、对位聚苯(PPL)
3	球体 Ball	不锈钢304、304L、316、316L Stainless Steel 304、304L、316、316L
4	垫片 Gasket	PTFE
5	阀体 Body	不锈钢CF8、CF8M、CF3、CF3M Stainless Steel CF8、CF8M、CF3、CF3M
6	螺栓 Screw	不锈钢304 Stainless Steel 304
7	阀杆 Stem	不锈钢304、304L、316、316L Stainless Steel 304、304L、316、316L
8	垫片 Gasket	不锈钢304、316L Stainless Steel 304、316L
9	填料 Packing	PTFE
10	压盖 Gland	不锈钢304、316 Stainless Steel 304、316
11	连接支架 Connecting Yoke	不锈钢CF8 Stainless Steel CF8
12	连接套 Connecting Set	不锈钢304 Stainless Steel 304
13	螺栓 Screw	不锈钢304 Stainless Steel 304
14	气动装置 Pneumatic Device	GT系列、AT系列 GT Series, AT Series

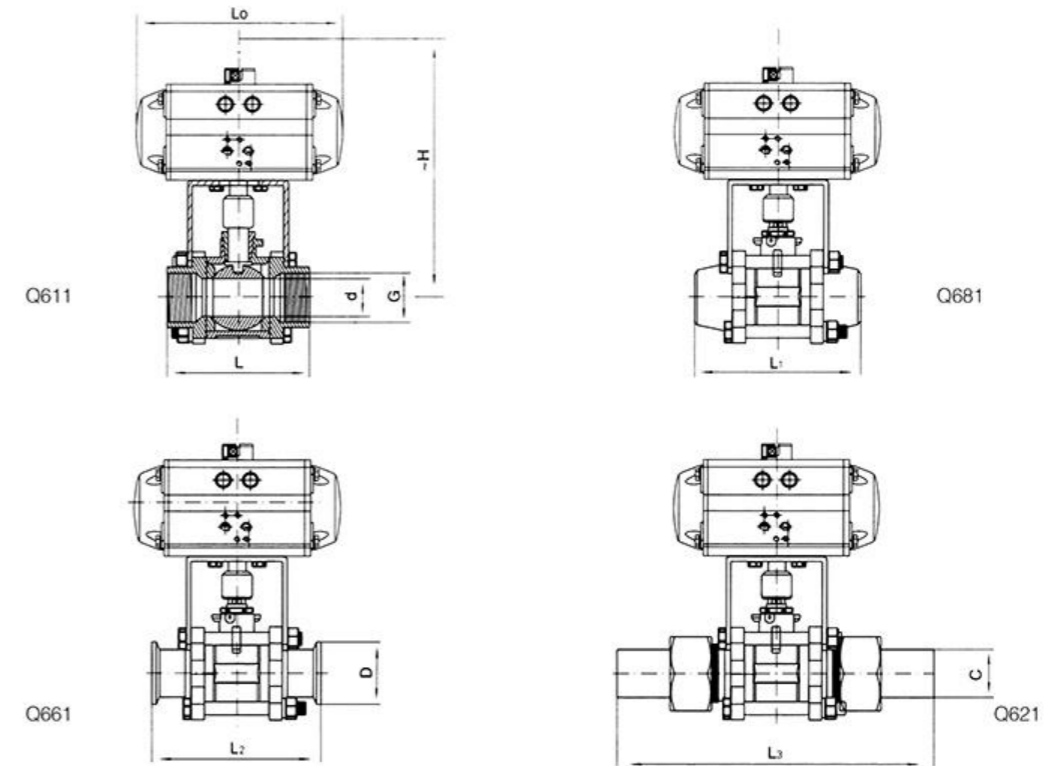
注：球阀主要零部件及密封圈的材质可根据实际工况条件或用户特殊要求设计选用。  
Note: The main spare parts and sealing-ring materials of ball valve series can be designed for options as per real working conditions and uses' special requirements.



主要外形及连接尺寸 Q614(5)F(N、P)-PN16~64(1.6~6.4MPa) Main Outline and Connecting Flange Size

公称通径 Nominal diameter		外形连接尺寸 Connecting Flange Size								执行器型号 Actuator Model
DN	in	D	G	L	Lo	L1	L2	~H	S	
15	1/2	10	1/2	68	34	141/159	71/83	177/208	26	AT050D/AT063S
20	3/4	15	3/4	78	39	141/159	71/83	180/211	32	AT050D/AT063S
25	1	20	1	86	43	159/211	83/95	199/227	38	AT063D/AT075S
32	1 1/4	25	1 1/4	111	55.5	211/248	95/107	231/251	49	AT075D/AT088S
40	1 1/2	32	1 1/2	126	63	248/269	107/123	235/265	56	AT088D/AT100S
50	2	38	2	143	71.5	248/269	107/123	263/298	70	AT088D/AT100S

※注：球阀结构长度及连接法兰尺寸可根据用户要求设计制造。  
执行器型号XXX/XXX分别是气动执行器双作用式/单作用式（弹簧复位）。  
根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。  
以上执行器配置及数据均采用软密封(F、N、P)阀门，硬密封阀门的配置及数据请咨询本公司。  
Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per users' requirements.  
Data XXX/XXX represent respectively the double-acting/single-acting type (spring reposition) of pneumatic actuator.  
\*The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model.  
The above actuator configuration and data all use soft-sealed valves (F, N, P) and hard-sealed valves, or consulting us if you have more questions.



技术规范 Technique norm

设计依据 Design Basis	GB标准 Standard	ANSI标准 Standard
设计标准 Design standards	GB/12237	ANSI B16.34
试验和检验 Test & Inspection	JB/T9092	API 598

注：系列球阀结构长度及连接法兰尺寸可根据用户要求设计制造。  
Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per users' requirements.

主要零件材质表 Form of Main Parts Materials

序号 No.	零件名称 Name of parts	材质 Material
1	螺栓 Screw	不锈钢304 Stainless Steel 304
2	接头 Connector	不锈钢CF8、CF8M、CF3、CF3M Stainless Steel CF8、CF8M、CF3、CF3M
3	阀座 Seat	PTFE、尼龙(Nylon)、对位聚苯(PPL)、 硬质合金(H/Y)
4	球体 Ball	不锈钢304、304L、316、316L Stainless Steel 304、304L、316、316L
5	阀体 Body	不锈钢CF8、CF8M、CF3、CF3M Stainless Steel CF8、CF8M、CF3、CF3M
6	螺母 Nut	不锈钢304 Stainless Steel 304
7	阀杆 Stem	不锈钢304、304L、316、316L Stainless Steel 304、304L、316、316L
8	垫片 Gasket	不锈钢304、316 Stainless Steel 304、316
9	填料 Packing	PTFE
10	压盖 Gland	不锈钢304、304L、316、316L Stainless Steel 304、304L、316、316L
11	连接支架 Connecting Yoke	不锈钢CF8 Stainless Steel CF8
12	连接套 Connecting Set	不锈钢304 Stainless Steel 304
13	螺栓 Screw	不锈钢304 Stainless Steel 304
14	气动装置 Pneumatic Device	AT系列 AT Series
15	位置指示器 Location Indicator	塑料 Plastic

注：系列球阀主要零部件及密封圈的材质可根据实际工况条件或用户特殊要求设计选用。  
Note: The main spare parts and sealing-ring materials of ball valve series can be designed for options as per real working conditions and users' special requirements.

主要外形及连接法兰尺寸 Q61(6、8、2)1F(N、P、H、Y)-PN16~64(1.6~6.4MPa)/PN25(2.5MPa) Main Outline and Connecting Flange Size

公称直径 Nominal diameter		连接尺寸 Connecting Size										执行器型号 Actuator Model
DN	in	d	L	G	L1	L2	D	L3	C	L0	~H	
15	1/2	15	72	1/2"	70	100	34	170	21	141/159	159/175	AT050D/AT063S
20	3/4	20	82	3/4"	85	110	50.5	185	26	141/159	167/183	AT050D/AT063S
25	1	25	90	1"	95	120	50.5	200	31	141/211	172/215	AT050D/AT075S
32	1 1/4	32	112	1 1/4"	110	131	50.5	225	38	159/211	210/230	AT063D/AT075S
40	1 1/2	40	120	1 1/2"	201/209	98/108	50.5	260	46	211/248	218/248	AT075D/AT088S
50	2	50	145	2"	209/242	108/120	65	300	60	211/269	248/283	AT075D/AT100S
65	2 1/2	65	185	2 1/2"	242/275	120/132	77.5			248/315	273/320	AT088D/AT115S
80	3	80	210	3"	275/332	132/148	91			269/345	313/335	AT100D/AT125S

注：系列球阀结构长度及连接法兰尺寸可根据JB/T79标准或用户要求设计制造。  
数据XXX/XXX分别是气动执行器双作用式/单作用式(弹簧复位)。  
根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。  
以上执行器配置及数据均采用软密封(F、N、P)阀门，硬密封阀门的配置及数据请咨询本公司。

Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per JB/T79 standard or users' requirements.  
Data XXX/XXX represent respectively the double-acting/single-acting type (spring reposition) of pneumatic actuator.  
The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model.  
The above actuator configuration and data all use soft-sealed valves (F, N, P) and hard-sealed valves, or consulting us if you have more questions.



技术规范 Technique norm

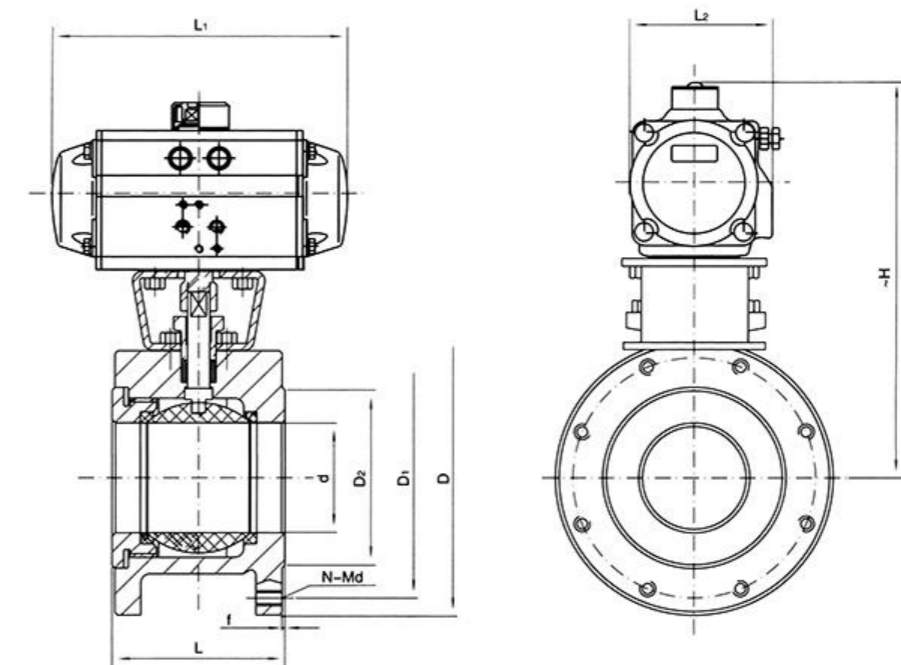
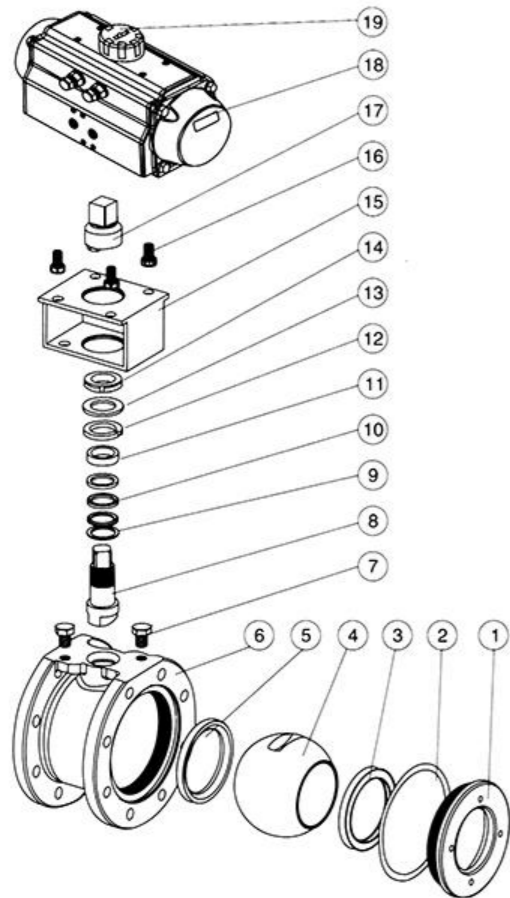
设计依据 Design Basis	GB标准 Standard		
设计标准 Design standards	GB/12237		
结构长度 Face to face dimension	法兰连接 Flange connecting	OVQB标准 Standard of OVQB	
连接法兰尺寸 Connecting Flange Size	GB/9113, JB/T79		
试验和检验 Test & Inspection	JB/T9092		

注：系列球阀结构长度及连接法兰尺寸可根据用户要求设计制造。  
Note: The structural length and connecting flange size of ball valve series can be designed and manufactured as per users' requirements.

主要零件材质表 Form of Main Parts Materials

序号 No.	零件名称 Name of parts	材质 Material		
		C	P	R
1	阀盖 Bonnet	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
2	垫片 Gasket	PTFE、对位聚苯(PPL)		
3	阀座 Seat	PTFE、尼龙(Nylon)、对位聚苯(PPL)		
4	球体 Ball	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni9Ti
5	阀座 Seat	PTFE、尼龙(Nylon)、对位聚苯(PPL)		
6	阀体 Body	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
7	螺栓 Screw	35	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
8	阀杆 Stem	1Cr13	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
9	垫片 Gasket	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
10	填料 Packing	PTFE	PTFE	PTFE
11	衬套 Bushing	PTFE复合轴承 Composite bearings		
12	弹垫 Spring Gasket	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
13	垫片 Gasket	35	1Cr18Ni9Ti	1Cr18Ni9Ti
14	螺母 Nut	35	1Cr18Ni9Ti	1Cr18Ni9Ti
15	连接支架 Connecting Yoke	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni9Ti
16	螺栓 Screw	35	1Cr18Ni9Ti	1Cr18Ni9Ti
17	连接套 Connecting Set	35	1Cr18Ni9Ti	1Cr18Ni9Ti
18	气动装置 Pneumatic Device	AT系列 AT Series		
19	位置指示器 Location Indicator	塑料 Plastic		

注：系列球阀主要零部件及密封圈的材质可根据实际工况条件或用户特殊要求设计选用。  
Note: The main spare parts and sealing-ring materials of ball valve series can be designed for options as per real working conditions and users' special requirements.



主要外形及连接法兰尺寸 Q672F(N、P)-PN16(1.6MPa)/PN25(2.5MPa) Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size					连接法兰尺寸 Connecting Flange Size						执行器型号 Actuator Model
	d	L	L1	L2	~H	D	D1	D2	B	f	N-Md	
15	15	32	141/159	71/83	177/208	95	65	46	14	2	4-M12	AT050D/AT063S
20	20	38.5	141/159	71/83	182/213	105	75	56	14	2	4-M12	AT050D/AT063S
25	25	45	141/211	71/95	187/230	115	85	65	16	2	4-M12	AT050D/AT075S
32	29	55	159/211	83/95	223/243	140	100	76	16	3	4-M16	AT063D/AT075S
40	38	62	211/248	95/107	231/261	150	110	84	18	3	4-M16	AT075D/AT088S
50	46	72	248/269	107/123	258/293	165	125	99	20	3	4-M16	AT088D/AT100S
65	62	95	248/315	107/141	273/298	185	145	118	22	3	4-M16	AT088D/AT115S
80	76	120	269/345	123/152	303/325	200	160	132	24	3	8-M16	AT100D/AT125S
100	92	145	345/409	152/172	333/390	220	180	156	24	3	8-M16	AT125D/AT145S
125	110	200	409/438	172/187	380/468	250	210	184	26	3	8-M16	AT145D/AT160S
150	145	225	438/550	187/215	432/520	285	240	211	26	3	8-M20	AT160D/AT190S

注：连接法兰尺寸可根据ANSI、JIS标准或用户要求设计制造。

执行器型号XXX/XXX分别是气动执行器双作用式/单作用式（弹簧复位）。

根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。

Note: The connecting flange size can be designed and manufactured in accordance with ANSI or JIS standard or requested by users.

Data XXX/XXX represent respectively the double-acting/single-acting type (spring reposition) of pneumatic actuator.

The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model.



气动蝶阀系列  
Pneumatic Butterfly Valve Series

产品用途及结构特点 Uses and structural features of product

系列气动蝶阀广泛用于天然气、油品、化工、冶金、造纸、电办、矿业，印染、生物制药，日用化工，食品饮料，水处理及空气处理等行业的流体自动控制或调节控制。与自动化气动仪表配套使用。

系列气动蝶阀结构特点为：

- 气动执行器：采用新型AT系列气动执行器，有双作用式和单作用式(弹簧复位)，采用齿轮齿条式结构传动，性能更安全可靠；大口径阀门采用AW系列气动执行器，采用拔叉式结构传动，结构合理，输出扭矩大，有双作用式和单作用式(弹簧复位)；详细参数请参考本公司AT系列及AW系列气动执行器样本。

- 中线弹性密封：密封材料分橡胶和氟塑料或全衬橡胶和氟塑料，弹性阀座配高精度蝶板确保零泄漏，阀杆底、中、上部配有衬套，用于支撑和旋转滑动，保持最小摩擦力。产品重量轻，体积小，启闭迅速。

- 三偏心结构密封：阀座密封材料分金属密封和氟塑料密封。金属密封蝶阀有弹性密封圈阀座与多层复合蝶板。三维偏心密封结构启闭摩擦小，密封性能可靠，抗磨损耐高温，具有自定心作用，泄漏最小，使用寿命长。产品结构合理重量轻，体积小，安装尺寸小，操作简便，启闭迅速，是目前发展最快适用最广泛的流体控制阀门。

Pneumatic butterfly valves are widely used in natural gas, oil chemical industry, metallurgy, papermaking, power, mining, printing and dyeing, biological pharmacy, daily chemicals, foodstuff and beverage, water treatment and air treatment etc. For automatic control and adjustment control of fluid, together with automatic pneumatic meters.

The Structural Features of Pneumatic Butterfly Valves:

- Pneumatic Actuator uses new-style AT pneumatic actuator, with double-acting and single-acting types (spring reposition), driven by gear and rack with high dependability; big diameter valves are driven by AW pneumatic actuator on pull-extraction manner, with reasonable structure and large output torque as well as double-acting and single-acting types (spring reposition). Refer to our stylebook of pneumatic actuator.

- Center-line Resilient Seal: uses rubber and fluoroplastic of full-lining rubber and fluoroplastic as sealing material. Elastic Seat is furnished with high-precision butterfly plate to insure zero leakage. Bushings are mounted on the bottom, middle and upper parts of valve stem for supporting and rotary slippage, thus to retain minimum friction. The products are light-weighted, small-sized and quick to start and close.

- Three-eccentricity Structure Seal: using metal and fluoroplastic for seat sealing. Metal sealed butterfly valves incorporate seat with elastic sealing ring and multilayer composite butterfly plate. 3-D eccentric sealing structure functions small friction upon starting and closing, dependable sealing, anti-friction, high-temperature resistance, self-centering effect, little leakage and long life-span. Provided with the advantages of reasonable structure, lightweight, small size, dapper installation dimension, easy operation and quick on-and-off, the fluid control valves have been rapidly developed and most widely used.

产品性能规范 Products performance specification

压力等级 Pressure level	公称压力PN(MPa) Nominal Pressure PN(MPa)							磅级(Class) Pound(Class)				
	0.6	1.0	1.6	2.5	4.0	6.4	10.0	150	300	400	600	
试验压力 (MPa) Test Pressure	壳体试验 Shell test	0.9	1.5	2.4	3.75	6.0	9.6	15.0	3.03	7.5	10.2	15.0
	密封试验 Sealing test	0.66	1.1	1.76	2.75	4.4	7.04	11.0	2.2	5.5	7.48	11.0
	气密封 Gas seal	0.6(MPa)										
适用介质 Applicable medium	阀体材质 Body Material											
	C			P				R				
	水、蒸气、油品、液化气等 Water, vapor, oil and liquefied gas etc.			硝酸类腐蚀性介质等 Corrosive mediums such as nitric acid etc.				醋酸类腐蚀性介质等 Corrosive mediums such as acetic acid etc.				

阀座密封材料温度额定值 Temperature Rating of Seat Sealing Material

代号 Code	材料 Material	适用温度(°C) Applicable Temperature
H	合金钢304、316 Alloy Steel 304, 316	-30~425
F	增强聚四氟乙烯 Reinforced Polyterafuoroethylene(PTFE)	-40~180
X	丁腈橡胶 Buna-N Rubber	-12~82
	乙丙橡胶 Ethylene-propylene Rubber	-35~110
	食品级乙丙胶 Food Ethylene-propylene Rubber	-35~110
J	氟橡胶 Fluorous rubber	-12~135
	全衬里丁腈橡胶 Full-linina Buna-N Rubber	-12~82
F4	全衬里聚四氟乙烯 Full-lining polyteafuoroethylene(PTFE)	-40~160

附件的选项 Selection Accessories

根据不同控制和要求可选择下列附件:

切断型附件: 单电控电磁阀、双电控电磁阀、限位开关回讯器。

调节型附件: 电气定位器、气动定位器、电气转换器。

气源处理附件: 空气过滤减压阀、气源处理三联件。

手动机构: MOD系列

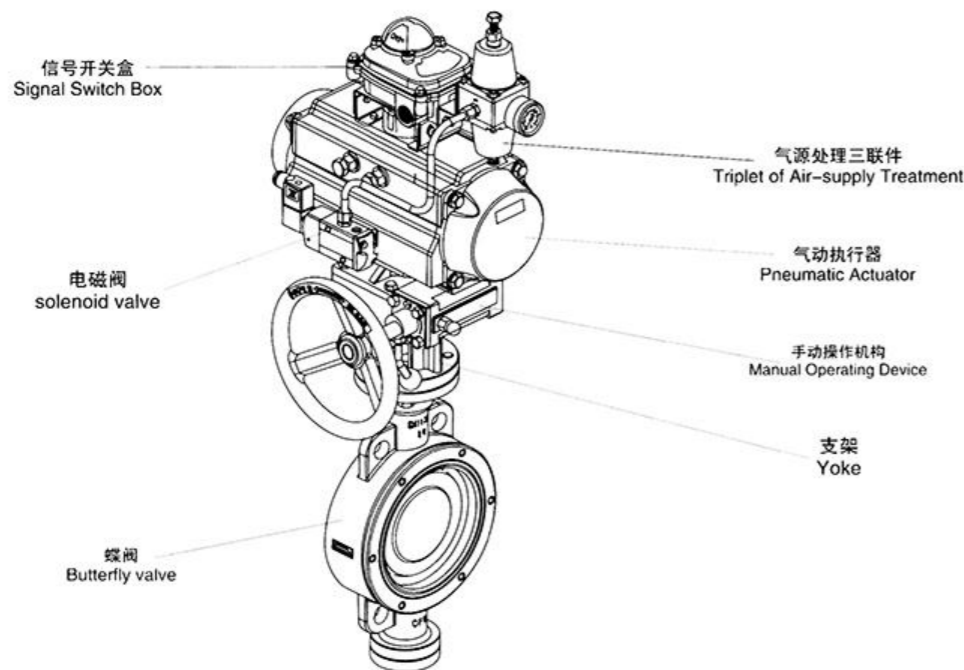
According to the different control and the request can choose the following accessories:

Cut-off Accessories: single electrically-controlled Solenoid valve, double electrically-controlled magnetic valve, signal saver of limit switch.

Adjusting Accessories: electropneumatic positioner, pneumatic positioner, electric-pneumatic converter.

Air-supply Treatment Accessories: air-filtering reducing valve, F.R.L. combination unit.

Manual Device: MOD Series



技术规范 Technique norm

设计依据 Design Basis	GB标准 Standard
设计标准 Design standard	GB/12238
结构长度 Face to face dimension	对夹连接 Wafer connecting
连接法兰尺寸 Connecting Flange Size	GB/12221
试验和检验 Test & Inspection	JB/T9092

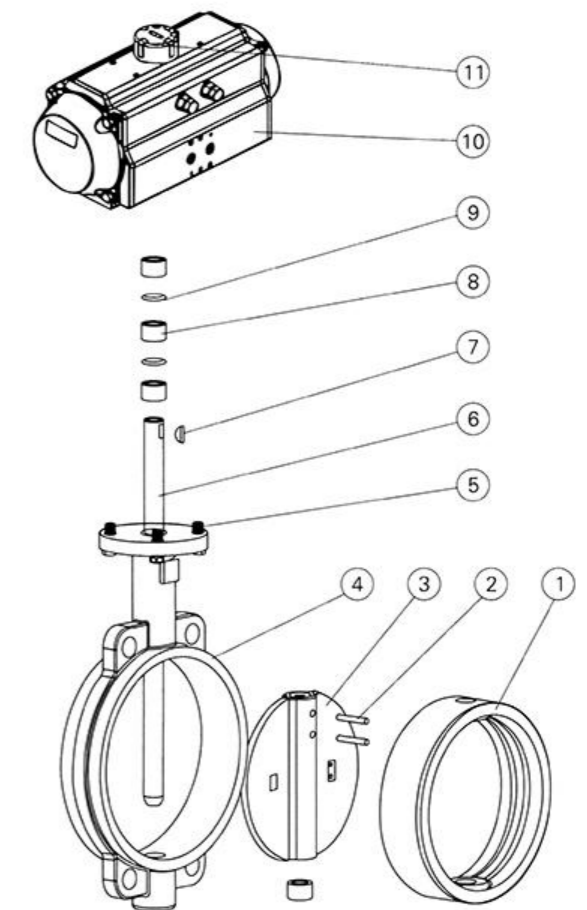
注: 系列蝶阀结构长度及连接法兰尺寸可根据用户要求设计制造。

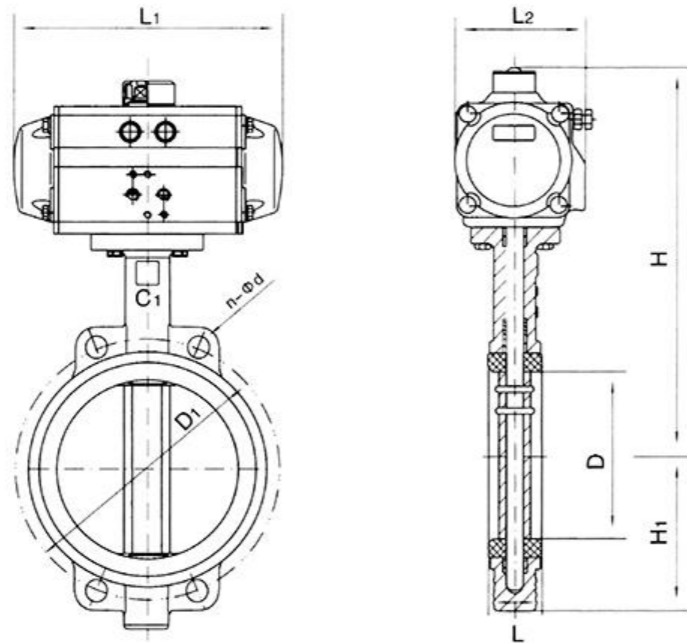
Note: The structural length and connecting flange size of butterfly valve series can be designed and manufactured as per users' requirements.

主要零件材质表 Form of Main Parts Materials

序号 No.	零件名称 Name of parts	材质 Material		
		Z	C	R
1	阀座 Seat	橡胶、四氟 Rubber, PTFE		
2	圆锥销 Taper Pin	45钢 45 Steel	45钢 45 Steel	不锈钢 Stainless Steel
3	蝶板 Butterfly Plate	球墨铸铁镀铬 Ductile Iron-iron Hard Chrome Plating	碳钢或不锈钢 Simple Steel or Stainless Steel	不锈钢 Stainless Steel
4	阀杆 Stem	灰铸铁 Grey Cast Iron	碳钢 Carbon Steel	不锈钢 Stainless Steel
5	螺栓 Screw	35钢 35 Steel	碳钢 Carbon Steel	不锈钢 Stainless Steel
6	螺杆 Stem	45钢 45 Steel	不锈钢 Stainless Steel	不锈钢 Stainless Steel
7	键 Key	45钢 45 Steel	45钢 45 Steel	不锈钢 Stainless Steel
8	衬套 Bushing	铜基粉末冶金 Copper Base Powder Metallurgy	铜基粉末冶金 Copper Base Powder Metallurgy	铜基粉末冶金 Copper Base Powder Metallurgy
9	O形圈 O' Ring	橡胶 Rubber、氟橡胶 Viton		
10	气动装置 Pneumatic Device	GT系列、AT系列、AW系列 GT Series, AT Series, AW Series		
11	位置指示器 Location Indicator	塑料 Plastic		

注: 蝶阀主要零部件及密封圈的材质可根据实际工况条件或用户特殊要求设计选用。  
Note: The main spare parts and sealing-ring materials of butterfly valve series can be designed for options as per real working conditions and users' special requirements





主要外形及连接法兰尺寸 D671X(F、F4、J)-PN6.0、10(0.6、1.0MPa) Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size					连接尺寸 Connecting Size			执行器型号 Actuator Model
	L	L1	L2	~H	H1	D	D1	n-φd	
50		141/159	71/83	269/281					AT050D/AT063S
65	44.7	159/211	83/95	283/303	75	64.5	136.2	4-26.5	AT063D/AT075S
80	45.2	159/248	83/107	289/309	93	78.8	160	8-18	AT063D/AT088S
100	52.1	211/269	95/123	320/338	104	10.4	185	4-24.5	AT075D/AT100S
125	54.4	248/269	107/123	351/366	118	123.3	215	4-23	AT088D/AT100S
150	55.8	269/345	123/152	380/405	133	155.6	238	4-25	AT100D/AT125S
200	60.6	345/409	152/172	435/477	165	202.5	295	4-25	AT125D/AT145S
250	65.6	409/438	172/187	509/552	197	250.5	357	4-29	AT145D/AT160S
300	76.5	438/550	187/215	597/622	224	301.6	407	4-29	AT160D/AT190S
350	76.5	550/600	215/240	653/688	267	333.3	467	4-30	AT190D/AT210S
400	86.5	550/633	215/262	720/787	309	389.6	515	4-30	AT190D/AT240S
450	105.6	600/633	240/262	772/858	328	440.51	565	4-30	AT210D/AT240S
500	131.8	633/730	262/330	867/1004	361	491.5	620	4-33	AT240D/AT270S
600	152	730/1700	330/-	998/1220	459	592.5	725	4-36	AT270D/AW25S
700	163	1320/1970	-/-	1116/1282	520	695	840	4-36	AW25/AW28S
800	188	1430/2700	-/-	1330/1007	591	794.7	950	4-39	AW28/AW35S

注：执行器型号XXX/XXX分别是气动执行器双作用式/单作用式(弹簧复位)。

根据不同的阀门扭矩、使用介质选配，不同的执行器型号，其相关尺寸随之变化。

Note: Data XXX/XXX represent respectively double-acting/single-acting type(spring reposition).

The relative sizes are subject to change responding to different valve torques, mediums and actuator models.

技术规范 Technique norm

设计依据 Design Basis	GB标准 Standard	ANSI标准 Standard
设计标准 Design standard	GB/12238	API 609
结构长度 Face to face dimension	GB/12221	ANSI B16.10
对夹连接 Wafer connecting		
连接法兰尺寸 Connecting Flange Size	GB/9113、JB/T79	ANSI B16.5(2~24') ANSI B16.47(26~32')
试验和检验 Test & Inspection	JB/T9092	API 598

注：系列蝶阀结构长度及连接法兰尺寸可根据用户要求设计制造。

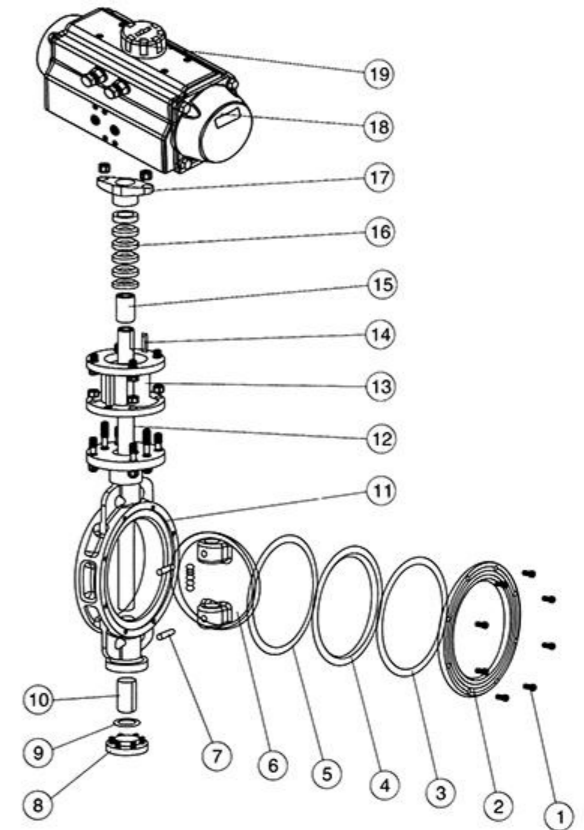
Note: The structural length and connecting flange size of butterfly valve series can be designed and manufactured as per users' requirements.

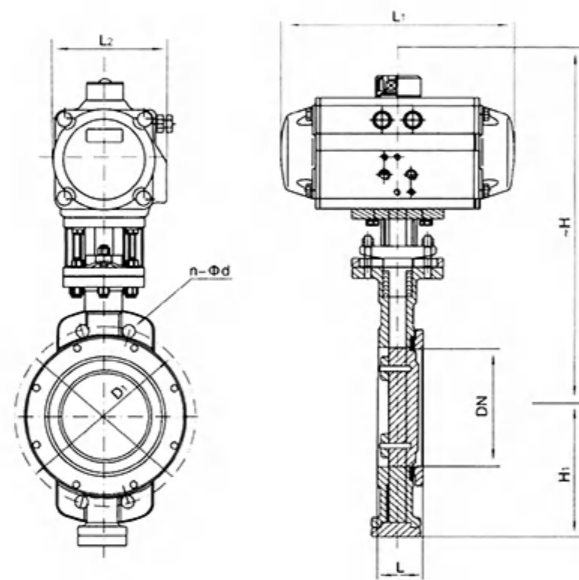
主要零件材质表 Form of Main Parts Materials

序号 No.	零件名称 Name of parts	材质 Material		
		C	P	R
1	内六角螺钉 Inner Hexagon Screw	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
2	阀盖 Bonnet	WCB	1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
3	垫片 Gasket	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
4	阀座 Seat	不锈钢+柔性石墨、PTFE Stainless Steel+Graphite、PTFE		
5	垫片 Gasket	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
6	蝶板 Butterfly Plate	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
7	圆柱销 Straight Pin	45	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
8	下盖 Bottom Cover	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
9	垫片 Gasket	不锈钢+柔性石墨、PTFE Stainless Steel+Graphite、PTFE		
10	衬套 Bushing	PTFE复合轴承 PTFE Composite Bearings		
11	阀体 Body	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
12	阀杆 Stem	1Cr13	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
13	支架 Yoke	WCB	WCB	WCB
14	键 Key	45	45	45
15	衬套 Bushing	PTFE复合轴承 PTFE Composite Bearings		
16	填料 Packing	柔性石墨、PTFE Graphite、PTFE		
17	压盖 Gland	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
18	气动装置 Pneumatic Device	AT系列、AW系列 AT Series、AW Series		
19	位置指示器 Location Indicator	塑料 Plastic		

注：系列蝶阀主要零件及密封圈的材质可根据实际工况条件或用户特殊要求设计选用。

Note: The main spare parts and sealing-ring materials of butterfly valve series can be designed for options as per real working conditions and users' special requirements.





主要外形及连接法兰尺寸 D673H(F、Y)-PN16(1.6MPa) Main Outline and Connecting Flange Size

公称直径 Nominal diameter DN	外形尺寸 Outline Size					连接尺寸 Connecting Size		执行器型号 Actuator Model
	L	L <sub>1</sub>	L <sub>2</sub>	~H	H <sub>1</sub>	D <sub>1</sub>	n-Φd	
50	43	159/211	83/95	277/205	65	125	4-Φ18	AT063D/AT075S
65	46	211/248	95/107	287/315	75	145	4-Φ18	AT075D/AT088S
80	46	248/269	107/123	365/375	85	160	8-Φ18	AT088D/AT100S
100	52	269/315	123/141	420/436	130	180	8-Φ18	AT100D/AT115S
125	56	315/345	141/152	436/462	175	210	8-Φ18	AT115D/AT125S
150	56	345/409	152/172	466/543	190	240	8-Φ22	AT125D/AT145S
200	60	409/438	172/187	593/665	215	295	12-Φ22	AT145D/AT160S
250	68	438/559	187/215	682/752	265	355	12-Φ26	AT160D/AT190S
300	78	550/600	215/240	725/772	305	410	12-Φ26	AT190D/AT210S
350	78	600/633	240/262	832/880	340	470	16-Φ26	AT210D/AT240S
400	102	633/730	262/330	862/968	360	525	16-Φ30	AT240D/AT270S
450	114	633	262	945/1005	400	585	20-Φ30	AT240D/AW25S
500	127	730	300	1058/1060	430	650	20-Φ33	AT270D/AW25S
600	154	1320/1970	440/480	1108/1195	190	770	20-Φ36	AW25/AW28S
700	165	1430/2700	480/560	1170/1255	555	840	24-Φ36	AW28/AW35S
800	190	1430/2700	480/560	1325/1365	620	950	24-Φ39	AW28/AW35S

注：蝶阀结构长度及连接法兰尺寸可根据JB/T79标准或用户要求设计制造。

执行器型号 XXX/XXX 分别是气动执行器双作用式/单作用式(弹簧复位)。

根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。

以上执行器配置及数据均采用软密封(F)阀门，硬密封阀门的配置及数据请咨询本公司。

Note: The structural length and connecting flange size of butterfly valve series can be designed and manufactured as per JB/T79 standard or users' requirements.

Data XXX/XXX represent respectively the double-acting/single-acting type (spring reposition) of pneumatic actuator.

The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model.

The above actuator configuration and data all use soft-sealed valves (F), and hard-sealed valves, or consulting us if you have more questions.

主要外形及连接法兰尺寸 D673H(F、Y)-PN25(2.5MPa) Main Outline and Connecting Flange Size

公称直径 Nominal diameter DN	外形尺寸 Outline Size					连接尺寸 Connecting Size		执行器型号 Actuator Model
	L	L <sub>1</sub>	L <sub>2</sub>	~H	H <sub>1</sub>	D <sub>1</sub>	n-Φd	
50	43	159/211	83/95	277/305	65	125	4-Φ18	AT063D/AT075S
65	46	211/248	95/107	287/325	75	145	8-Φ18	AT075D/AT088S
80	46	248/269	107/123	365/391	85	160	8-Φ18	AT088D/AT100S
100	52	269/315	123/141	420/457	130	190	8-Φ22	AT100D/AT115S
125	56	315/345	141/152	436/462	175	220	8-Φ26	AT115D/AT125S
150	56	409/438	172/187	466/543	190	250	8-Φ26	AT145D/AT160S
200	60	438/550	187/215	593/665	215	310	12-Φ26	AT160D/AT190S
250	68	550/600	215/240	682/752	265	370	12-Φ30	AT190D/AT210S
300	78	600/633	240/262	402/820	305	430	16-Φ30	AT210D/AT240S
350	78	633/730	262/330	832/938	340	490	16-Φ33	AT240D/AT270S
400	102	633/1700	262/440	910/968	360	550	16-Φ36	AT240D/AW25S
450	114	730/1970	330/480	1005/1010	400	600	20-Φ36	AT270D/AW28S
500	127	1180/1700	365/440	1058/1065	430	660	20-Φ36	AW25/AW28S
600	154	1700/1970	440/480	1110/1195	490	770	20-Φ39	AW28/AW35S
700	165	1320/2700	480/560	1255/1295	555	875	24-Φ42	AW28/AW35S
800	190	1950/2700	560/580	1325/1365	620	990	24-Φ48	AW35/AW40S

主要外形及连接法兰尺寸 D673H(F、Y)-PN40(4.0MPa) Main Outline and Connecting Flange Size

公称直径 Nominal diameter DN	外形尺寸 Outline Size					连接尺寸 Connecting Size		执行器型号 Actuator Model
	L	L <sub>1</sub>	L <sub>2</sub>	~H	H <sub>1</sub>	D <sub>1</sub>	n-Φd	
50	43	211/248	95/107	277/305	65	125	4-Φ18	AT075D/AT088S
65	46	248/269	107/123	310/341	75	145	8-Φ18	AT088D/AT100S
80	46	269/315	123/141	375/412	85	160	8-Φ18	AT100D/AT115S
100	52	315/345	141/152	436/462	130	190	8-Φ22	AT115D/AT125S
125	56	345/438	152/187	462/513	175	220	8-Φ26	AT125D/AT160S
150	56	438/600	187/240	543/615	190	250	8-Φ26	AT160D/AT210S
200	60	550/633	215/240	665/760	215	320	12-Φ30	AT190D/AT240S
250	68	600/633	240/262	752/858	265	385	12-Φ33	AT210D/AT240S
300	78	633/730	262/330	820/880	305	450	16-Φ33	AT240D/AT270S
350	78	730/1700	330/440	938/940	340	510	16-Φ36	AT270D/AW25S
400	102	1180/1700	325/440	970/1055	360	585	16-Φ39	AW20/AW25S
450	114	1180/1700	325/440	1005/1090	400	610	20-Φ39	AW20/AW25S
500	127	1320/1970	440/480	1145/1185	430	670	20-Φ42	AW25/AW28S
600	154	1430/2700	480/560	1195/1235	490	795	20-Φ48	AW28/AW35S

注：蝶阀结构长度及连接法兰尺寸可根据JB/T79标准或用户要求设计制造。

执行器型号 XXX/XXX 分别是气动执行器双作用式/单作用式(弹簧复位)。

根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。

以上执行器配置及数据均采用软密封(F)阀门，硬密封阀门的配置及数据请咨询本公司。

Note: The structural length and connecting flange size of butterfly valve series can be designed and manufactured as per JB/T79 standard or users' requirements.

Data XXX/XXX represent respectively the double-acting/single-acting type (spring reposition) of pneumatic actuator.

The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model.

The above actuator configuration and data all use soft-sealed valves (F), and hard-sealed valves, or consulting us if you have more questions.



主要外形及连接法兰尺寸 D673H(F、Y)-Class150 Main Outline and Connecting Flange Size

公称通径 Nominal diameter		外形尺寸 Outline Size					连接尺寸 Connecting Size		执行器型号 Actuator Model
DN	in	L	L <sub>1</sub>	L <sub>2</sub>	~H	H <sub>1</sub>	D <sub>1</sub>	n-Φd	
50	2	43	159/211	83/95	277/305	65	120.5	4-Φ19	AT063D/AT075S
65	2½	46	211/248	95/107	287/325	75	139.5	4-Φ19	AT075D/AT088S
80	3	46	248/269	107/123	365/391	85	152.5	4-Φ19	AT088D/AT100S
100	4	52	269/315	123/141	420/457	130	190.5	8-Φ19	AT100D/AT115S
125	5	56	315/345	141/152	436/462	175	216	8-Φ22	AT115D/AT125S
150	6	56	345/409	152/172	466/543	190	241.5	8-Φ22	AT125D/AT145S
200	8	60	409/550	172/215	593/665	215	298.5	8-Φ22	AT145D/AT190S
250	10	68	538/600	187/240	682/752	265	362	12-Φ25	AT160D/AT210S
300	12	78	550/633	215/262	702/820	305	432	12-Φ25	AT190D/AT240S
350	14	78	600/633	240/262	832/938	340	476	12-Φ29	AT210D/AT240S
400	16	102	633/730	262/330	910/968	360	540	16-Φ29	AT240D/AT270S
450	18	114	633/730	262/330	1005/1010	400	578	16-Φ32	AT240D/AT270S
500	20	127	730/1700	330/440	1058/1065	430	635	20-Φ32	AT270D/AW25S
600	24	154	1180/1700	365/440	1110/1195	490	749.5	20-Φ35	AW20/AW25S
700	28	165	1320/1970	440/480	1255/1295	555	863.6	28-Φ35	AW25/AW28S
800	32	190	1430/2700	480/560	1325/1365	620	978	28-Φ41	AW28/AW35S

主要外形及连接法兰尺寸 D673H(F、Y)-Class 300 Main Outline and Connecting Flange Size

公称通径 Nominal diameter		外形尺寸 Outline Size					连接尺寸 Connecting Size		执行器型号 Actuator Model
DN	in	L	L <sub>1</sub>	L <sub>2</sub>	~H	H <sub>1</sub>	D <sub>1</sub>	n-Φd	
50	2	43	211/248	95/107	277/305	65	127	8-Φ19	AT075D/AT088S
65	2½	46	248/269	107/123	310/341	75	149	8-Φ22	AT088D/AT100S
80	3	46	269/315	123/141	375/412	85	168.5	8-Φ22	AT100D/AT115S
100	4	52	315/409	141/172	436/462	130	200	8-Φ22	AT115D/AT145S
125	5	56	345/438	152/187	462/513	175	235	8-Φ22	AT125D/AT160S
150	6	56	409/550	172/215	543/615	190	270	12-Φ22	AT145D/AT190S
200	8	60	438/600	187/240	665/760	215	330	12-Φ25	AT160D/AT210S
250	10	68	550/633	215/262	752/858	265	387.5	16-Φ29	AT190D/AT240S
300	12	78	600/730	240/330	820/880	305	451	16-Φ32	AT210D/AT270S
350	14	78	633/730	262/330	938/940	340	514.5	20-Φ32	AT240D/AT270S
400	16	102	730/1700	330/440	970/1055	360	571.5	20-Φ35	AT270D/AW25S
450	18	114	1180/1700	365/440	1005/1090	400	628.5	24-Φ35	AW20/AW25S
500	20	127	1320/1970	440/480	1145/1185	430	686	24-Φ35	AW25/AW28S
600	24	154	1430/2700	480/560	1195/1235	490	813	24-Φ41	AW28/AW35S

注：蝶阀结构长度及连接法兰尺寸可根据JB/T79标准或用户要求设计制造。  
执行器型号XXX/XXX分别是气动执行器双作用式/单作用式(弹簧复位)。  
根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。  
以上执行器配置及数据均采用软密封(F)阀门，硬密封阀门的配置及数据请咨询本公司。

Note: The structural length and connecting flange size of butterfly valve series can be designed and manufactured as per JB/T79 standard or users' requirements.  
Data XXX/XXX represent respectively the double-acting/single-acting type (spring reposition) of pneumatic actuator.  
The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model.  
The above actuator configuration and data all use soft-sealed valves (F), and hard-sealed valves, or consulting us if you have more questions.

技术规范 Technique norm

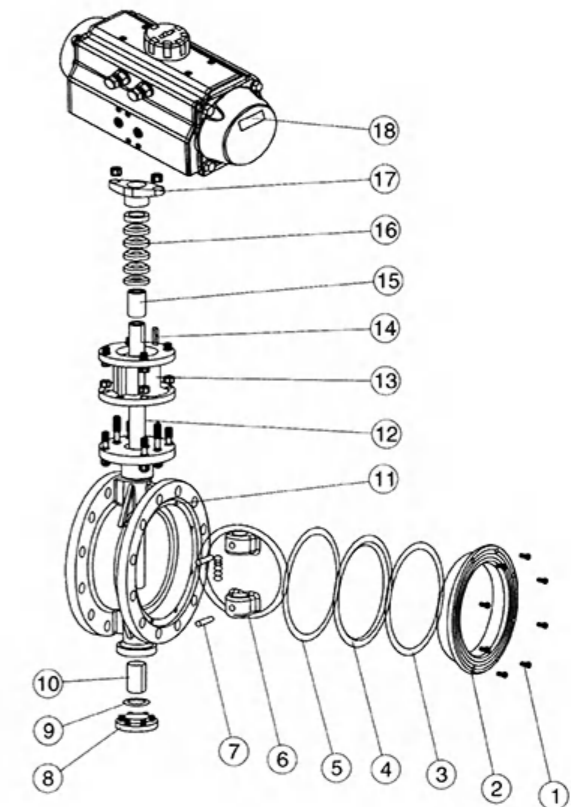
设计依据 Design Basis	GB标准 Standard	ANSI标准 Standard
设计标准 Design standards	GB/12238	API 609
结构长度 Face to face dimension	法兰连接 Flange connecting	GB/12221 ANSI B16.10
连接法兰尺寸 Connecting Flange Size	GB/9113、JB/T79	ANSI B16.5(2~24") ANSI B16.47(26~32")
试验和检验 Test & Inspection	JB/T9092	API 598

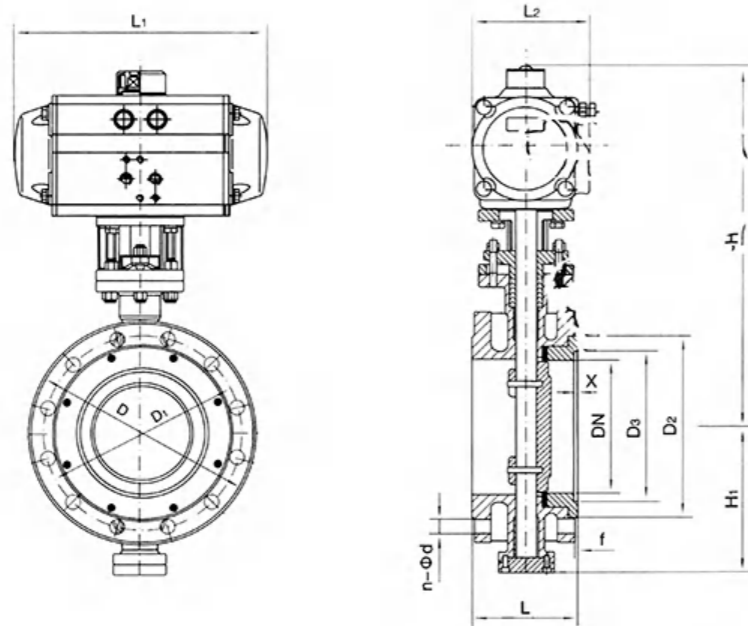
注：蝶阀结构长度及连接法兰尺寸可根据用户要求设计制造。  
Note: The structural length and connecting flange size of butterfly valve series can be designed and manufactured as per users' requirements.

主要零件材质表 Form of Main Parts Materials

序号 No.	零件名称 Name of parts	材质 Material		
		C	P	R
1	内六角螺钉 Inner Hexagon Screw	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
2	阀盖 Bonnet	WCB	1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
3	垫片 Gasket	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
4	阀座 Seat	不锈钢+柔性石墨、PTFE Stainless Steel+Graphite, PTFE		
5	垫片 Gasket	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
6	蝶板 Butterfly Plate	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
7	圆柱销 Straight Pin	45	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
8	下盖 Bottom Cover	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
9	垫片 Gasket	不锈钢+柔性石墨、PTFE Stainless Steel+Graphite, PTFE		
10	衬套 Bushing	PTFE复合轴承 PTFE Composite Bearings		
11	阀体 Body	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
12	阀杆 Stem	1Cr13	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
13	支架 Yoke	WCB	WCB	WCB
14	键 Key	45	45	45
15	衬套 Bushing	PTFE复合轴承 PTFE Composite Bearings		
16	填料 Packing	柔性石墨、PTFE Graphite, PTFE		
17	压盖 Gland	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
18	气动执行器 Pneumatic Actuator	AT系列、AW系列 AT Series, AW Series		

注：蝶阀主要零部件及密封圈的材质可根据实际工况条件或用户特殊要求设计选用。  
Note: The main spare parts and sealing-ring materials of butterfly valve series can be designed for options as per real working conditions and users' special requirements.





主要外形及连接法兰尺寸 D643H(F、Y)-PN16(1.6MPa) Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size					连接尺寸 Connecting Size					执行器型号 Actuator Model
	L	L <sub>1</sub>	L <sub>2</sub>	~H	H <sub>1</sub>	D	D <sub>1</sub>	D <sub>2</sub>	f	n-φd	
50	108	159/211	83/95	277/205	65	165	125	99	3	4-φ18	AT063D/AT075S
65	112	211/248	95/107	287/315	75	185	145	118	3	4-φ18	AT075D/AT088S
80	114	248/269	107/123	365/375	85	200	160	132	3	8-φ18	AT088D/AT100S
100	127	269/315	123/141	420/436	130	220	180	156	3	8-φ18	AT100D/AT115S
125	140	315/345	141/152	436/462	175	250	210	184	3	8-φ18	AT115D/AT125S
150	140	345/409	152/172	466/543	190	285	240	211	3	8-φ22	AT125D/AT145S
200	152	409/438	172/187	593/665	215	340	295	266	3	12-φ22	AT145D/AT160S
250	165	438/550	187/215	682/752	265	405	355	319	3	12-φ26	AT160D/AT190S
300	178	550/600	215/240	725/772	305	460	410	370	4	12-φ26	AT190D/AT210S
350	190	600/633	240/262	832/880	340	520	470	429	4	16-φ26	AT210D/AT240S
400	216	633/730	262/330	862/968	360	580	525	480	4	16-φ30	AT240D/AT270S
450	222	633/1700	262/440	945/1005	400	640	585	548	4	20-φ30	AT240D/AW25S
500	229	730/1700	330/440	1058/1060	430	715	650	609	4	20-φ33	AT270D/AW25S
600	267	1180/1700	365/440	1108/1195	190	840	770	720	5	20-φ36	AW20/AW25S
700	292	1320/1970	440/480	1170/1255	555	910	840	794	5	24-φ36	AW25/AW28S
800	318	1430/2700	480/560	1325/1365	620	1025	950	901	5	24-φ39	AW28/AW35S

注：蝶阀结构长度及连接法兰尺寸可根据JB/T79标准或用户要求设计制造。  
执行器型号XXX/XXX分别是气动执行器双作用式/单作用式(弹簧复位)。  
根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。  
以上执行器配置及数据均采用软密封(F)阀门，硬密封阀门的配置及数据请咨询本公司。

Note: The structural length and connecting flange size of butterfly valve series can be designed and manufactured as per JB/T79 standard or users' requirements.  
Data XXX/XXX represent respectively the double-acting/single-acting type (spring reposition) of pneumatic actuator.  
The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model.  
The above actuator configuration and data all use soft-sealed valves (F), and hard-sealed valves, or consulting us if you have more questions.

主要外形及连接法兰尺寸 D643H(F、Y)-PN25(2.5MPa) Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size					连接尺寸 Connecting Size					执行器型号 Actuator Model
	L	L <sub>1</sub>	L <sub>2</sub>	~H	H <sub>1</sub>	D	D <sub>1</sub>	D <sub>2</sub>	f	n-φd	
50	108	159/211	83/95	277/305	65	165	125	99	3	4-φ18	AT063D/AT075S
65	112	211/248	95/107	287/325	75	185	145	118	3	8-φ18	AT075D/AT088S
80	114	248/269	107/123	365/391	85	200	160	132	3	8-φ18	AT088D/AT100S
100	127	269/315	123/141	420/457	130	235	190	156	3	8-φ22	AT100D/AT115S
125	140	315/345	141/152	436/462	175	270	220	184	3	8-φ26	AT115D/AT125S
150	140	409/438	172/187	466/543	190	300	250	211	3	8-φ26	AT145D/AT160S
200	152	438/550	187/215	593/665	215	360	310	274	3	12-φ26	AT160D/AT190S
250	165	550/600	215/240	682/752	265	425	370	330	3	12-φ30	AT190D/AT210S
300	178	600/633	240/262	702/820	305	485	430	389	4	16-φ30	AT210D/AT240S
350	190	633/730	262/330	832/938	340	555	490	448	4	16-φ33	AT240D/AT270S
400	216	633/1700	262/440	910/968	360	620	550	503	4	16-φ36	AT240D/AW25S
450	222	730/1700	330/440	1005/1010	400	670	600	548	4	20-φ36	AT270D/AW25S
500	229	730/1700	330/440	1058/1065	430	730	660	609	4	20-φ36	AT270D/AW25S
600	267	1320/1970	440/480	1110/1195	490	845	770	720	4	20-φ39	AW25/AW28S
700	292	1430/2700	480/560	1255/1295	555	960	875	820	5	24-φ42	AW28/AW35S
800	318	1950/2700	260/580	1325/1365	620	1085	990	928	5	24-φ48	AW35/AW40S

主要外形及连接法兰尺寸 D643H(F、Y)-PN40(4.0MPa) Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size					连接尺寸 Connecting Size					执行器型号 Actuator Model	
	L	L <sub>1</sub>	L <sub>2</sub>	~H	H <sub>1</sub>	D	D <sub>1</sub>	D <sub>2</sub>	f	D <sub>3</sub> xX		n-φd
50	108	211/248	95/107	277/305	65	165	125	99	3	88x4	4-φ18	AT075D/AT088S
65	112	248/269	107/123	310/341	75	185	145	118	3	110x4	8-φ18	AT088D/AT100S
80	114	269/315	123/141	375/412	85	200	160	132	3	121x4	8-φ18	AT100D/AT115S
100	127	315/345	141/152	436/462	130	235	190	156	3	150x4.5	8-φ22	AT115D/AT125S
125	140	345/438	152/187	462/513	175	270	220	184	3	176x4.5	8-φ26	AT125D/AT160S
150	140	438/550	187/240	543/615	190	300	250	211	3	204x4.5	8-φ26	AT160D/AT210S
200	152	550/600	215/262	665/760	215	375	320	284	3	260x4.5	12-φ30	AT190D/AT240S
250	165	600/633	240/262	752/858	265	450	385	315	3	313x4.5	12-φ33	AT210D/AT240S
300	178	633/730	262/330	820/880	305	515	450	409	4	364x4.5	16-φ33	AT240D/AT270S
350	190	730/1700	330/440	938/940	340	580	510	465	4	422x5	16-φ36	AT270D/AW25S
400	216	1180/1700	365/440	970/1055	360	660	585	535	4	474x5	16-φ39	AW20/AW25S
450	222	1180/1970	440/480	1005/1090	400	685	610	560	4	524x5	20-φ39	AW20/AW28S
500	229	1320/1970	440/480	1145/1185	430	755	670	615	4	576x5	20-φ42	AW25/AW28S
600	267	1970/2700	480/560	1195/1235	490	890	795	735	5	676x5	20-φ48	AW28/AW35S

注：蝶阀结构长度及连接法兰尺寸可根据JB/T79标准或用户要求设计制造。  
执行器型号XXX/XXX分别是气动执行器双作用式/单作用式(弹簧复位)。  
根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。  
以上执行器配置及数据均采用软密封(F)阀门，硬密封阀门的配置及数据请咨询本公司。

Note: The structural length and connecting flange size of butterfly valve series can be designed and manufactured as per JB/T79 standard or users' requirements.  
Data XXX/XXX represent respectively the double-acting/single-acting type (spring reposition) of pneumatic actuator.  
The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model.  
The above actuator configuration and data all use soft-sealed valves (F), and hard-sealed valves, or consulting us if you have more questions.

主要外形及连接法兰尺寸 D643H(F、Y)-Class150 Main Outline and Connecting Flange Size

公称通径 Nominal diameter		外形尺寸 Outline Size					连接尺寸 Connecting Size					执行器型号 Actuator Model
DN	in	L	L <sub>1</sub>	L <sub>2</sub>	~H	H <sub>1</sub>	D	D <sub>1</sub>	D <sub>2</sub>	f	n-Φd	
50	2	108	159/211	83/95	277/305	65	152	120.5	92	2	4-Φ19	AT063D/AT075S
65	2 1/2	112	211/248	95/107	287/325	75	178	139.5	105	2	4-Φ19	AT075D/AT088S
80	3	114	248/269	107/123	365/391	85	190	152.5	127	2	4-Φ19	AT088D/AT100S
100	4	127	269/315	123/141	420/457	130	229	190.5	157	2	8-Φ19	AT100D/AT115S
125	5	140	315/345	141/152	436/462	175	254	216	186	2	8-Φ22	AT115D/AT125S
150	6	140	345/409	152/172	466/543	190	279	241.5	216	2	8-Φ22	AT125D/AT145S
200	8	152	409/550	172/215	593/665	215	343	298.5	270	2	8-Φ22	AT145D/AT190S
250	10	165	438/600	187/240	682/752	265	406	362	324	2	12-Φ25	AT160D/AT210S
300	12	178	600/633	240/262	702/820	305	483	432	381	2	12-Φ25	AT190D/AT240S
350	14	190	600/633	240/262	832/938	340	533	476	413	2	12-Φ29	AT210D/AT240S
400	16	216	633/730	262/330	910/968	360	597	540	470	2	16-Φ29	AT240D/AT270S
450	18	222	633/730	262/330	1005/1010	400	635	578	533	2	16-Φ32	AT240D/AT270S
500	20	229	730/1700	330/440	1058/1065	430	699	635	584	2	20-Φ32	AT270D/AW25S
600	24	267	1180/1700	365/440	1110/1195	490	813	749.5	682	2	20-Φ35	AW20/AW25S
700	28	292	1320/1970	440/480	1255/1295	555	947	863.6	800	2	28-Φ35	AW25/AW28S
800	32	318	1430/2700	480/560	1325/1365	620	1060	978	914	2	28-Φ41	AW28/AW35S

主要外形及连接法兰尺寸 D643H(F、Y)-Class 300 Main Outline and Connecting Flange Size

公称通径 Nominal diameter		外形尺寸 Outline Size					连接尺寸 Connecting Size					执行器型号 Actuator Model
DN	in	L	L <sub>1</sub>	L <sub>2</sub>	~H	H <sub>1</sub>	D	D <sub>1</sub>	D <sub>2</sub>	f	n-Φd	
50	2	108	211/248	95/107	277/305	65	165	127	92	2	8-Φ19	AT075D/AT088S
65	2 1/2	112	248/269	107/123	310/341	75	190	149	105	2	8-Φ22	AT088D/AT100S
80	3	114	269/315	123/141	375/412	85	210	168.5	127	2	8-Φ22	AT100D/AT115S
100	4	127	315/345	141/152	436/462	130	254	200	157	2	8-Φ22	AT115D/AT145S
125	5	140	345/438	152/187	462/513	175	279	235	186	2	8-Φ22	AT125D/AT160S
150	6	140	438/600	187/240	543/615	190	318	270	216	2	12-Φ22	AT145D/AT160S
200	8	152	550/600	215/240	665/760	215	381	330	270	2	12-Φ25	AT160D/AT210S
250	10	165	600/633	240/262	752/858	265	445	387.5	324	2	16-Φ29	AT190D/AT240S
300	12	178	600/730	240/262	820/880	305	521	451	381	2	16-Φ32	AT210D/AT270S
350	14	190	633/1700	262/440	938/940	340	584	514.5	413	2	20-Φ32	AT240D/AW25S
400	16	216	730/1700	330/440	970/1055	360	648	571.5	470	2	20-Φ35	AT270D/AW25S
450	18	222	730/1700	330/440	1005/1090	400	711	628.5	533	2	24-Φ35	AT270D/AW25S
500	20	229	1180/1970	365/480	1145/1185	430	775	686	584	2	24-Φ35	AW20/AW25S
600	24	267	1320/1970	440/480	1195/1235	490	914	813	682	2	24-Φ41	AW25/AW28S

注：蝶阀结构长度及连接法兰尺寸可根据JB/T79标准或用户要求设计制造。  
执行器型号XXX/XXX分别是气动执行器双作用式/单作用式(弹簧复位)。  
根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。  
以上执行器配置及数据均采用软密封(F)阀门，硬密封阀门的配置及数据请咨询本公司。

Note: The structural length and connecting flange size of butterfly valve series can be designed and manufactured as per JB/T79 standard or users' requirements.  
Data XXX/XXX represent respectively the double-acting/single-acting type (spring reposition) of pneumatic actuator.  
The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model.  
The above actuator configuration and data all use soft-sealed valves (F), and hard-sealed valves, or consulting us if you have more questions.

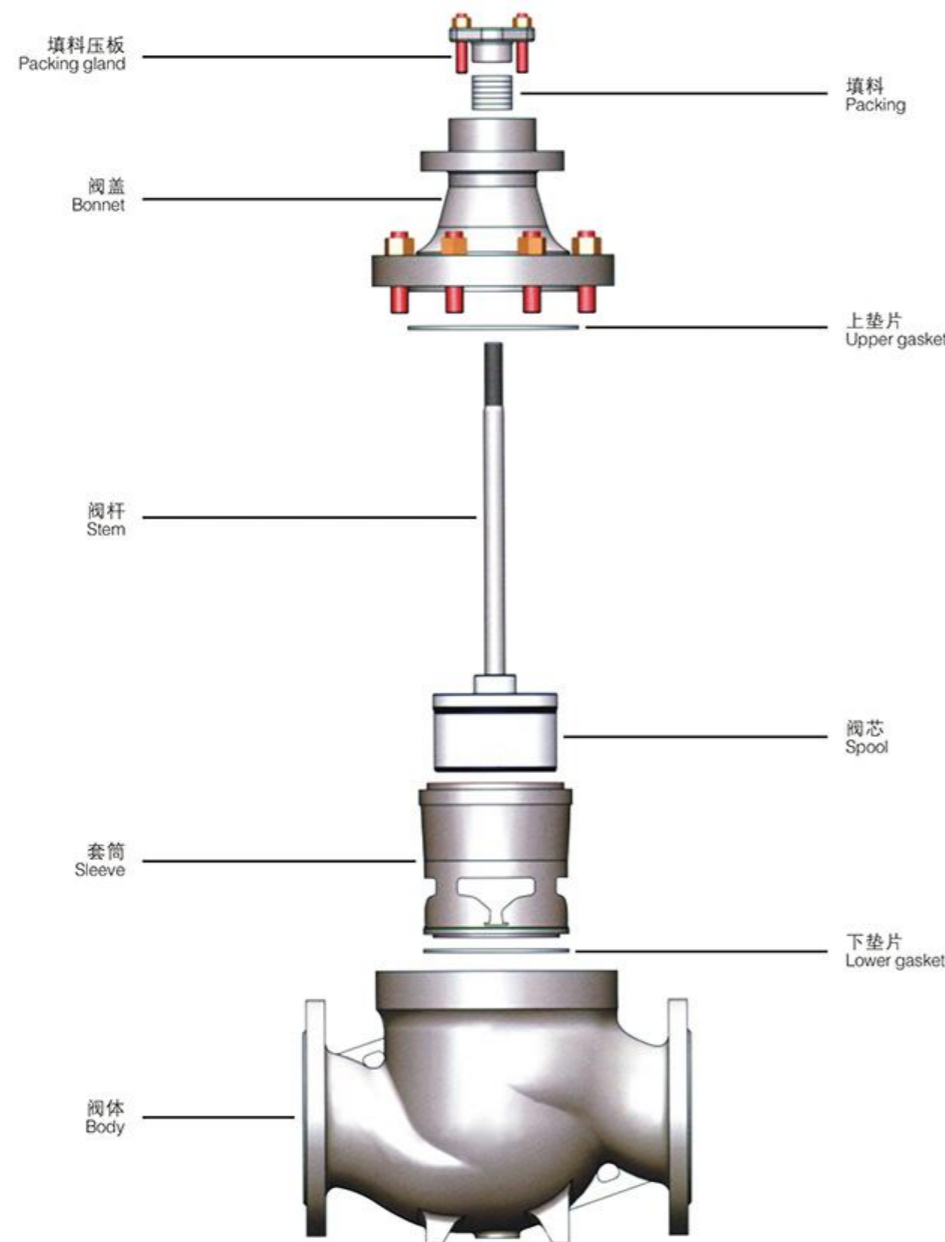


调节阀系列  
Control Valve Series

产品说明 Product Manual

采用套筒导向结构，压力平衡式阀芯，是为重负荷工况而设计的，采用双阀座密封，应用于泄漏要求不高的场合，阀体结构紧凑，流体通道呈S流线型，在结构上设有改善套筒周围流体平衡流动的导流翼，优点是压降损失小、流通量大，可调范围广，流量特性精度高。阀芯利用压力平衡结构，通过较小的执行机构推力就可控制高压等工况，广泛应用于要求动态稳定性好、高低温、高压管线的液体控制。笼式导向，导向面积大，稳定性好，结构紧凑。

It adopts sleeve guide structure and pressure-balanced valve core, which is designed for heavy-duty working conditions. It adopts double valve seat seal and is used in occasions where leakage requirements are not high. It is provided with a guide vane to improve the balanced flow of fluid around the sleeve. The advantages are small pressure drop loss, large flow rate, wide adjustable range and high flow characteristic accuracy. The valve core uses a pressure balance structure, and can control high pressure and other working conditions through a small actuator thrust. It is widely used in liquid control that requires good dynamic stability, high and low temperature, and high pressure pipelines. Cage guide, large guide area, good stability and compact structure.



尺寸规格范围 Size specifications

2"~24" DN40~DN600

压力等级范围 Resure range

ASME 150~900# PN1.6~PN16.0MPa

泄漏量执行标准  
Leakage performance standard

ASME B16.104 GB/T4213-2008  
GB/T17213.IEC60534

控制阀参数说明 Control valve parameter description

阀内件特点：双阀座结构，套筒导向平衡内件，分体式或整体式标准阀笼  
 阀体类型：直通式、角式、Z形  
 上阀盖型式：常温标准型、高温散热型、伸长型  
 温度范围：-100°C~560°C  
 阀杆密封型式：普通式标准填料密封、高温型填料密封、波纹管密封(可选)  
 标准泄漏等级：Class IV(标准型，金属阀座)  
 流量特性：等百分比，直线  
 与管道连接方式：法兰式、对焊式  
 可调比：50:1

Valve trim features: Double seat structure, sleeve guide balanced trim, split or integral standard cage  
 Body type: Straight-through, Angled, Z-shaped  
 Upper bonnet type: Normal temperature type, High temperature heat dissipation type, extension type  
 Temperature range: -100°C~560°C  
 Stem Seal Type: Standard Standard Packing Seal, High temperature type packing seal, bellows seal (optional)  
 Standard leak Class: Class IV (standard, metal seat)  
 Flow characteristics: Equal percentage, straight line  
 Connection with pipelines: Flanged, butt welded  
 Adjustable ratio: 50:1

适配直行程执行机构 Adaptable linear actuator

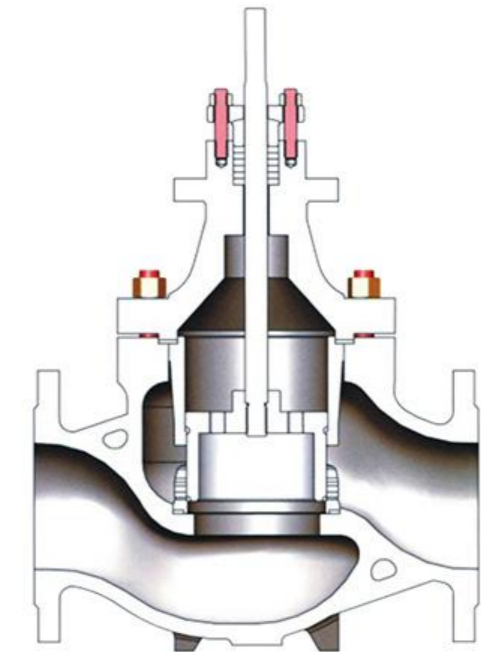
- a. 气动薄膜执行机构 a. Pneumatic membrane actuator
- b. 气动活塞执行机构 b. Pneumatic piston actuator
- c. 电动执行机构 c. Electric actuator
- d. 电液动执行机构 d. Electro-hydraulic actuator

法兰连接形式标准  
Flange connection standard

法兰式：JB/T79-2015 GB/T9113-2010  
HG/T20592-2009/ASME B16.5  
对焊式：GB/T9124-2010/ASME B16.25  
GB/T12224-2015 对焊端

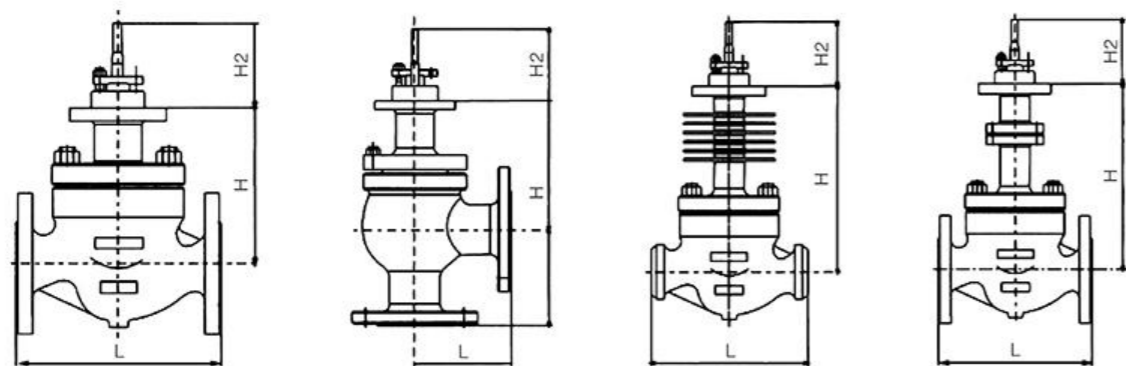
Flange type: JB/T79-2015 GB/T9113-2010  
HG/T20592-2009/ASME B16.5

Butt welding: GB/T9124-2010/ASME B16.25  
GB/T12224-2015 Butt welding end



部件名称 Part Name	可选用材料 Optional materials	部件名称 Part Name	可选用材料 Optional materials
阀体、 上阀盖 Body, Upper cap	ASTM A216 WCB/WCC ASTM A217 WC6/WC9 ASTM A105	阀座 Seat	ASTM A182 F304/F316/F316L ASTM A276 410/420
阀芯 Spool	ASTM A351 CF8/CF3/CF8M/CF3M ASTM A182 F304/F316/F316L	阀杆 Stem	ASTM A351 CF8/CF3/CF8M/CF3M ASTM A182 F304/F316/F316L
	ASTM A351 CF8/CF3/CF8M/CF3M ASTM A182 F304/F316/F316L		17-4PH ASTM A276 410/420 ASTM A276 F304/F316/F316L

注：特殊合金材质未在列表中表述，如需了解咨询本公司工程师。  
 Note: Special alloy materials are not stated in the presentation. For information on consulting our engineers.

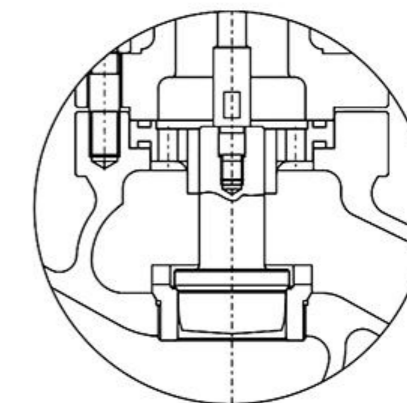


阀门结构尺寸 Valve structure size

阀门尺寸 (DN) Valve size	直通式阀体结构 Straight-through valve body structure							角式阀体结构 Angle valve body structure						
	L			H			H2	L			H			H2
	ANSI 150# PN1.6 JIS 10K	ANSI 300# PN4.0 JIS 30K	ANSI 600# PN6.4 JIS 40K	标准型 Standard type	散热型 Thermal type	波纹管型 Bellows type		标准型 Standard type	散热型 Thermal type	波纹管型 Bellows type	标准型 Standard type	散热型 Thermal type	波纹管型 Bellows type	
25	184	184	212	130	255	240	95	100	100	115	150	275	260	100
32	200	200	225	140	265	250	95	105	105	130	160	285	270	100
40	222	222	254	145	270	275	95	115	115	130	165	290	275	100
50	254	254	290	160	285	270	95	125	125	150	190	315	300	100
65	276	276	316	245	350	360	95	145	145	170	285	370	400	135
80	298	298	340	245	350	360	130	155	155	190	285	370	400	135
100	352	352	390	255	360	370	130	175	175	215	295	380	410	135
125	410	410	448	305	445	425	135	200	200	250	370	500	490	135
150	451	451	510	325	485	450	140	225	225	275	390	520	520	135
200	550	550	650	365	520	490	140	275	275	325	430	560	530	135
250	678	678	690	455	635	560	140	-	-	-	-	-	-	-
300	737	737	788	475	675	610	170	-	-	-	-	-	-	-
350	889	889	910	550	750	-	170	-	-	-	-	-	-	-
400	900	900	-	575	780	-	170	-	-	-	-	-	-	-
450	950	950	-	600	805	-	150/180	-	-	-	-	-	-	-
500	1267	1308	1372	1100	1300	-	-	-	-	-	-	-	-	-
600	1556	1600	1676	1150	1350	-	-	-	-	-	-	-	-	-

额定CV值及行程 Rated CV value and itinerary

公称口径 Nominal diameter (mm)	阀芯尺寸 Spool size (mm)	额定 Rated CV		行程 Travel (mm)
		EQ %	Linear	
40	40	24	30	25
50	50	44	50	25
65	65	68	85	40
80	80	99	125	40
100	100	175	200	40
125	125	275	310	60
150	150	360	420	60
200	200	650	690	60
250	250	1000	1000	100
300	300	1500	1600	100
350	350	2000	2000	130
400	400	2800	2800	200
450	450	3600	3600	200
500	500	4300	4300	300
600	600	6000	6000	300



HTS单座调节阀

HTS单座调节阀是顶导向式结构调节阀，流体通道呈“S”流线型，压降损失小，流量大、可调范围广，流量特性曲线精度高，阀芯导向面积大，抗振性好。配有弹簧气动薄膜执行机构或电动执行机构，具有体积小、重量轻、输出力大，安装方便、可用于控制各种不同压力和温度的流体等特点。

HTS Single Seat Control Valve

HTS Single seat control valve is a kind of control valve with top guiding structure. It has "S-streanline" fluid channel, small pressure drop loss, large flow and adjustable range. It has high accuracy of flow characteristic, large plug guiding area, good vibration resistance. It is equipped with multi-spring pneumatic diaphragm actuator or electric actuator. It has characteristics of small size, light weight, large output force, easy installation, which can be used to control a variety of different pressure and temperature of the fluid.

标准规格 Standard Specifications

形式 Manner	直通单座铸造球阀 Straight Through Single Seat Cast Ball Valve
公称通径 Nominal diameter	15, 20, 25, 32, 40, 50, 65, 80, 100, 125, 150, 200mm
公称压力 Nominal pressure	ANSI Class 150, 300, 600; JIS 10K, 20K, 30K; PN1.6, 4.0, 6.4MPa*
连接形式 Connection Type	法兰型: FF, RF, RJ, TG, MFM/焊接型: SW(40~50mm); BW(65~200mm) Flange Type: FF, RF, RJ, TG, MFM/Weld Type: SW(40~50mm); BW(65~200mm)
阀体及上阀盖材质 The Material of Body and Bonnet	SCPH2/WCB, SCPH21/WC6, SCS13A/CF8, SCS14A/CF8M, SCS16A/CF3M, Ti 等各种材质的使用温度, 压力范围 SCPH2/WCB, SCPH21/WC6, SCS13A/CF8, SCS14A/CF8M, SCS16A/CF3M, Ti Operating temperature and pressure range of various materials
上阀盖形式 Upper bonnet form	常温型(P): -17~+230°C/伸长I型(e I): -45~-17°C和+230~+566°C/伸长II型(e II): -100~-45°C Normal Temperature (P): -17~+230°C/Elongation Type (e I): -45~-17°C or +230~+566°C/ Elongation Type II (e II): -100~-45°C
压盖形式 Gland manner	螺栓压紧式 Screw Fastening Type
填料 Packing	V型聚四氟乙烯填料、石墨填料 V-type PTFE Packing, Graphite Packing
垫片 Gasket	锯齿型 Zigzag
表面涂层 Surface coating	蓝色(环氧树脂)。但是阀体材质为不锈钢时, 本部分不加涂层。 Blue (Epoxy). But When the Valve Body Material is Stainless Steel, this can not add coating.

\* 法兰标准 Flange Standard: JIS B2201-1984, JB/T79.1-94 (PN1.6MPa), JB/T79.2-94 (PN4.0, 6.4MPa), ANSI B16.5-2009, HG20592-2009, HG20615-2009.

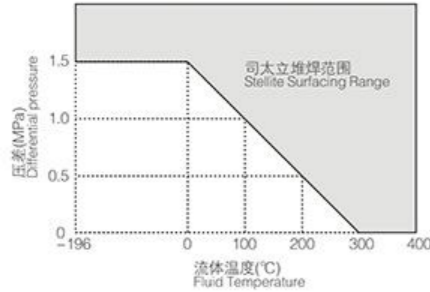
Cv值和行程 Cv Value and Stroke

公称通径 Nominal Diameter	15		20		25		32		40		50							
阀座直径 Seat Diameter	10	12	15	15	20	20	25	25	32	25	32	40	32	40	50			
额定Cv值 Rated Cv	1.6	2.5	4	4	6.3	6.3	10	10	17	10	17	24	17	24	40			
额定行程 Rated Stroke	16						25											
公称通径 Nominal Diameter	65		80		100		125		150		200							
阀座直径 Seat Diameter	40	50	65	50	65	80	65	80	100	80	100	125	100	125	150	125	150	200
额定Cv值 Rated Cv	24	40	63	40	63	100	63	100	160	100	160	250	160	250	400	250	400	630
额定行程 Rated Stroke	40						60											

执行机构 Actuator

	气动薄膜式 Pneumatic Diaphragm Type	气缸活塞式 Cylinder Piston Type	电子式 Electronic Type	智能式 Intelligent Type
	ZJHA/B	ZTCLS	ZTCL	381系列 381 Series
	多弹簧型 Multiple Springs Type	单作用 Single Action	双作用 Double Action	ZM系列 ZM Series
用途 Use	调节 Regulation	调节 Regulation	调节 Regulation	调节 Regulation
供气压力或 供给电压 Supply Gas Pressure and Supply Voltage	供气压力(弹簧范围) Supply Gas Pressure (spring range) 140 (20~100) KPa 160 (20~100) KPa 280 (80~240) KPa 400 (80~240) KPa	供气压力300~500KPa Supply Gas Pressure 300~500KPa	电压: 220/380V 50Hz 输入信号: 4~20mA DC Voltage: 220/380V 50Hz Input Signal: 4~20mA DC	电压: 220/380V 50Hz 输入信号: 4~20mA DC Voltage: 220/380V 50Hz Input Signal: 4~20mA DC
接口 Connector	空气配管: RC1/4 Air Piping: RC1/4	空气配管: G1/8; G1/4; G1/2; G3/8 Air Piping: G1/8; G1/4; G1/2; G3/8	配线: PG13.5 Wiring: PG13.5	配线: PG13.5 Wiring: PG13.5
正作用 Positive Action	气压增加阀闭 Adding Pressure Valve Will Be Closed	气压增加阀闭 Adding Pressure Valve Will Be Closed	输入信号阀闭 Inputting The Signal Valve Will Be Closed	输入信号阀闭 Inputting The Signal Valve Will Be Closed
反作用 Negative Action	气压增加阀开 Adding Pressure Valve Will Be Opened	气压增加阀开 Adding Pressure Valve Will Be Opened	气压增加阀开 Adding Pressure Valve Will Be Opened	气压增加阀开 Adding Pressure Valve Will Be Opened
回差 Hysteresis	≤1%FS(带定位器) ≤3%FS(不带定位器) ≤5%FS(配HA1型) ≤1%FS(With Positioner) ≤3%FS(No Positioner) ≤5%FS(Match Type Ha1)	≤1%FS(带定位器) ≤3%FS(不带定位器) ≤1%FS(With Positioner) ≤3%FS(No Positioner)	≤±1%FS	≤±1%FS
基本误差 Limit of Intrinsic Error	≤±1%FS(带定位器) ≤±5%FS(不带定位器) ≤±2%FS(配HA1型) ≤±1%FS(With Positioner) ≤±5%FS(No Positioner) ≤±2%FS(Match Type Ha1)	≤±1%FS(带定位器) ≤±3%FS(不带定位器) ≤±1%FS(With Positioner) ≤±3%FS(No Positioner)	≤±1%FS	≤±1%FS
环境温度 Ambiance Temperature	标准型 -30~+70°C 高温型 0~+100°C 低温型 -40~+40°C Normal Temperature Type -30~+70°C High Temperature Type 0~+100°C Low Temperature Type -40~+40°C	标准型 -20~+60°C 高温型 0~+100°C 低温型 -50~+60°C Normal Temperature Type -20~+60°C High Temperature Type 0~+100°C Low Temperature Type -50~+60°C	-20~+70°C	-25~+70°C
油漆颜色 Painting Color	蓝色色标10B5/10 Blue Scale 10B5/10	蓝色色标10B5/10 Blue Scale 10B5/10		
附件 Accessory	定位器/空气过滤/减压阀 限位阀/阀位变送器/手轮机构 Positioner/Air Filtration Pressure Reducing Valve Transmitter/Handwheel	定位器/空气过滤/减压阀 限位阀/阀位变送器/手轮机构 Positioner/Air Filtration Pressure Reducing Valve Transmitter/Handwheel	一体式 Integrated Type	一体式 Integrated Type

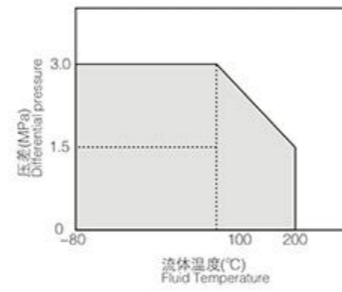
司太立堆焊工作温度和压差范围  
Operating Temperature and Differential Pressure Range of Stellite Surfacing



- 备注:
- 硬化处理方法: 司太立堆焊或440B硬化。
  - 用途为空化/闪蒸禁油及有关闭要求的场合, 无论工作温度和压差如何, 建议堆焊司太立合金。
  - 空化/闪蒸或者水的温度超过100°C建议用440B。

- 备注:
- 饱和蒸汽、热水等有可能产生腐蚀及含有杂质的场合建议用金属密封。
  - 用于禁油处理时, 软密封采用含玻璃纤维PTFE。

软阀座工作温度和压差范围  
Operating Temperature and Differential Pressure Range of Soft Seal Seat



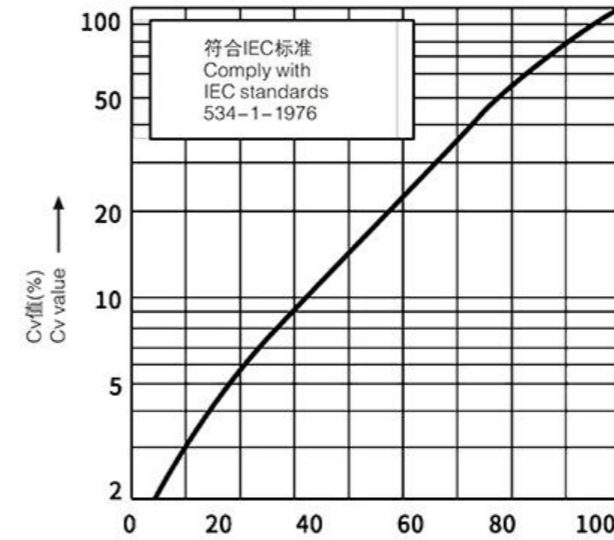
- Remark:
- Hardening treatment: Stellite surfacing or 440B hardening.
  - It is used for cavitation, flash evaporation of forbidden oil or other occasions with closing requirements. Regardless of the working temperature and pressure difference, it is recommended to surfacing stellite alloy.
  - It is suggested that using 440B when the temperature of cavitation, flash or water is over 100°C.

- Remark:
- It is recommended to use metal seal when the occasions are saturated steam, hot water, or may cause corrosion and contain impurities.
  - It is used for soft seal by glass fiber and PTFE when treating oil prohibition.

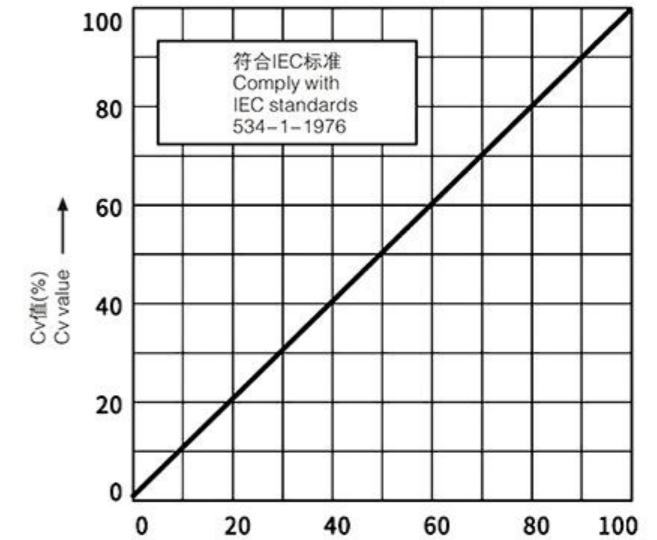
选型参数表 Model Selection Parameter Table

阀座直径(mm) Seat Diameter	10	12	15	20	25	32	40	50	65	80	100	125	150	200		
额定流量系数Cv Rated Flow Cv Value	1.6	2.5	4	6.3	10	17	24	40	63	100	160	250	400	630		
公称通径 Nominal Diameter	可选流量系数Cv (★标准型 ●推荐 ○定制) Optional Coefficient of Flow Cv (★ Standard Type ● Recommend Type ○ Customized Type)															
行程 Stroke	16mm															
行程 Stroke	25mm															
行程 Stroke	40mm															
行程 Stroke	60mm															
气动执行机构膜片有效面积Ae(cm²) Pneumatic actuator diaphragm active area Ae(cm²)	ZJHA/B-22				ZJHA/B-23				ZJHA/B-34				ZJHA/B-45			
作用方式 Action	金属密封允许压差(MPa) Allowable pressure differential of metal seal (MPa)															
气开 Open	20-100KPa	4.46	3.09	1.98	1.16	0.7	0.44	0.28	0.18	0.17	0.11	0.07	0.07	0.05	0.03	
气开 Open	40-200KPa	6.4	6.4	5.94	3.34	2.14	1.31	0.84	0.53	0.51	0.33	0.21	0.22	0.15	0.09	
气开 Open	80-240KPa	6.4	6.4	6.4	6.4	4.99	3.05	1.95	1.25	1.18	0.78	0.5	0.51	0.36	0.21	
气关 Close	20-100KPa	6.4	6.19	3.96	2.23	2.14	0.87	0.56	0.35	0.34	0.22	0.14	0.15	0.1	0.06	
气关 Close	40-200KPa	6.4	6.4	6.4	6.4	6.4	5.86	3.64	2.3	2.21	1.43	0.91	0.95	0.66	0.37	
气关 Close	80-240KPa	6.4	6.4	6.4	6.4	6.4	6.4	5.04	3.18	3.06	1.98	1.26	1.32	0.92	0.52	

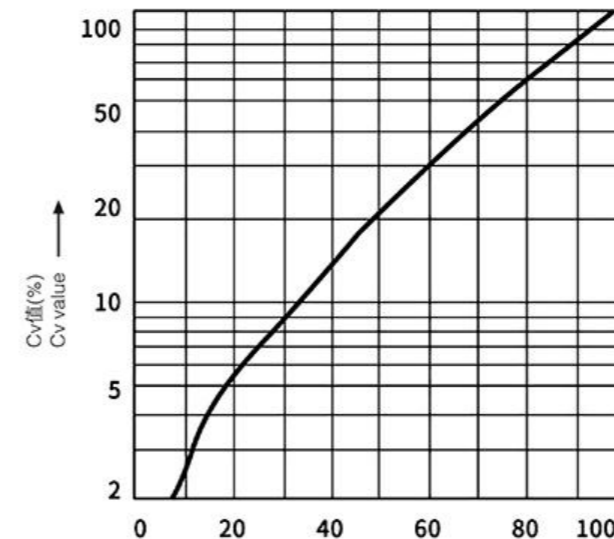
高精度流量特性曲线  
High Precision Flow Characteristic of Valve



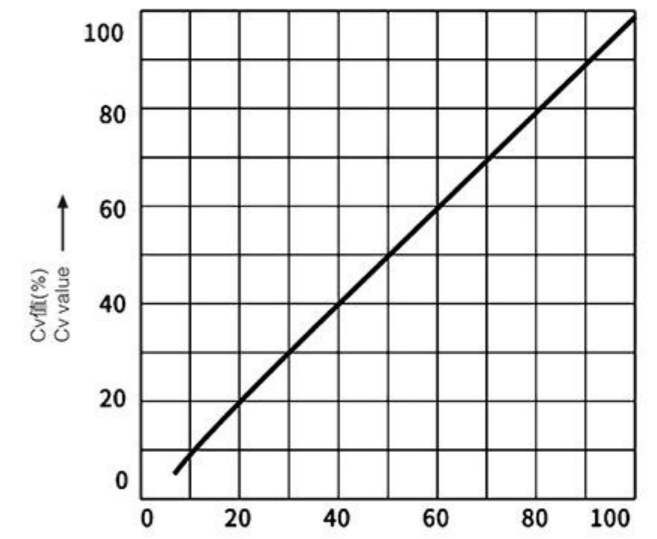
行程 (%)  
线性特性 (LCF金属阀座)  
Stroke (%)  
Linear Characteristic (LCF Metal Seat)



行程 (%)  
线性特性 (LCF金属阀座)  
Stroke (%)  
Linear Characteristic (LCF Metal Seat)



行程 (%)  
线性特性 (LCF金属阀座)  
Stroke (%)  
Linear Characteristic (LCF Metal Seat)



行程 (%)  
线性特性 (LCF金属阀座)  
Stroke (%)  
Linear Characteristic (LCF Metal Seat)

高精度流量特性曲线  
High Precision Flow Characteristic of Valve

单位 Unit: MPa

阀门尺寸 Valve Size Inch(mm)	阀芯尺寸 Core Size Inch(mm)	额定行程 Rated Stroke (mm)	额定Cv值 Rated Cv									
			阀门开度%行程 The Opening Degree of Valve % Trip									
			等百分比特性 Requal Percentage Characteristics					直线特性 Straight Characteristics				
			10%	25%	50%	75%	100%	10%	25%	50%	75%	100%
3/4 (20)	1/4(8)	16	0.09	0.17	0.34	0.95	1.87	0.27	0.68	1.09	1.49	2.10
	3/8(10)		0.14	0.27	0.53	1.48	2.92	0.42	1.06	1.69	2.32	3.27
	1/2(15)		0.22	0.43	0.85	2.37	4.67	0.67	1.66	2.65	3.65	5.13
1 (25)	3/4(20)	16	0.34	0.68	1.35	3.74	7.35	1.05	2.60	4.16	5.72	8.05
	1/2(15)		0.22	0.43	0.85	2.37	4.67	0.67	1.66	2.56	3.65	5.13
	3/4(20)		0.34	0.68	1.35	3.74	7.35	1.05	2.60	4.16	5.72	8.05
1 1/4 (32)	1(25)	25	0.55	1.08	2.14	5.93	11.67	1.67	4.15	6.64	9.11	12.84
	3/4(20)		0.34	0.68	1.35	3.74	7.35	1.05	2.60	4.16	5.72	8.05
1 1/2 (40)	1(25)	25	0.55	1.08	2.14	5.93	11.67	1.67	4.15	6.64	9.11	12.84
	1 1/4(32)		0.87	1.73	3.42	9.49	18.67	2.67	6.63	10.62	14.58	20.54
	1 1/2(40)		1.36	2.72	5.35	14.82	29.17	4.17	10.37	16.59	22.79	32.09
2 (50)	1 1/4(32)	25	0.87	1.73	3.42	9.49	18.67	2.67	6.63	10.62	14.58	20.54
	1 1/2(40)		1.36	2.72	5.35	14.82	29.17	4.17	10.37	16.59	22.79	32.09
	2(50)		2.18	4.32	8.54	23.71	46.68	6.67	16.68	26.56	36.46	51.35
2 1/2 (65)	1 1/2(40)	40	1.36	2.72	5.35	14.82	29.17	4.17	10.37	16.59	22.79	32.09
	2(50)		2.18	4.32	8.54	23.71	46.68	6.67	16.58	26.56	36.46	51.35
	2 1/2(65)		3.34	6.81	13.45	37.35	73.52	10.47	20.01	41.63	57.17	80.52
3 (80)	2(50)	40	2.18	4.32	8.54	23.71	46.68	6.67	16.58	26.56	36.46	51.35
	2 1/2(65)		3.34	6.81	13.45	37.35	73.52	10.47	26.01	41.63	57.17	80.52
	3(80)		5.45	10.81	21.36	59.28	116.7	16.69	41.46	66.37	91.14	128.4
4 (100)	2 1/2(65)	40	3.34	6.81	13.45	37.35	73.52	10.47	26.01	41.63	57.17	80.52
	3(80)		5.45	10.81	21.36	59.28	116.7	16.69	41.46	66.37	91.14	128.4
	4(100)		8.72	17.29	34.17	94.85	186.7	26.70	66.34	106.2	145.8	205.4
5 (125)	3(80)	60	13.62	10.81	21.36	59.28	116.7	16.69	41.46	66.37	91.14	128.4
	4(100)		21.80	17.29	34.17	94.85	186.7	26.70	66.34	106.2	145.8	205.4
	5(125)		13.62	27.06	53.40	148.2	291.7	41.72	103.7	165.9	227.9	320.9
6 (150)	4(100)	60	21.80	17.29	34.17	94.85	186.7	26.70	66.34	106.2	145.8	205.4
	5(125)		13.62	27.06	53.40	148.2	291.7	41.72	103.7	165.9	227.9	320.9
	6(150)		21.80	43.23	65.42	237.1	466.8	66.75	165.85	265.5	364.6	513.5
8 (200)	5(125)	60	13.62	27.06	53.40	148.2	291.7	71.72	103.7	165.9	227.9	320.9
	6(150)		21.80	43.23	65.42	237.1	466.8	66.75	165.85	265.5	364.6	513.5
	8(200)		34.34	68.08	134.5	373.5	735.2	104.7	260.1	416.3	571.7	805.2

阀体、阀内件材质组合及使用温度范围·阀座允许泄漏量  
The Material of Valve and Components, Range of Using Temperature · Allowable Leakage of Seat

阀体材质: 碳钢 Body Material: Carbon Steel

阀体材质 Body Material		SCPH2/A216-WCB, SCPH21/A217-WC6, SCPL1/A352-LCB		
阀芯 Core	材质 Material	SUS 304/316	SUS 304/316	SUS 304/316
	处理 Treatment	-	R.TFE	SS/SF
阀座 Seat	材质 Material	SUS 304/316	SUS 304/316	SUS 304/316
	处理 Treatment	-	-	SS/SF
导向套 Guide Sleeve	材质 Material	SUS 420	SUS 420	SUS 420
	处理 Treatment	HT	HT	HT
垫圈 Gasket	材质 Material	SUS 316L	SUS 316L	SUS 316L
阀座允许泄漏量 Allowable Leakage of Seat	ANSI	Class IV	Class IV	Class IV
	额定 CvX Rated CvX	0.01%	Bubble-Tight	0.01%
作用温度℃ Operating Temperature	SCPH2/WCB 阀体 SCPH2/WCB Body	-17~+425	-17~+230	-17~+425
	SCPH21/WC6 阀体 SCPH21/WC6 Body	-17~+566	-17~+230	-17~+566
	SCPL1/LCB 阀体 SCPL1/LCB Body	-45~+350	-45~+270	-45~+350

阀体材质: 不锈钢 Body Material: Stainless Steel

阀体材质 Body Material		SCS13A/CF8, SCS14A/CF8M, SCS16A/CF3M		
阀芯 Core	材质 Material	SUS 304/316/316L	SUS 304/316	SUS 304/316/316L
	处理 Treatment	-	R.TFE	SS/SF
阀座 Seat	材质 Material	SUS 304/316/316L	SUS 304/316/316L	SUS 304/316/316L
	处理 Treatment	-	-	SS/SF
导向套 Guide Sleeve	材质 Material	SUS 304/316/316L	SUS 304/316/316L	SUS 304/316/316L
	处理 Treatment	-	R.TFE	ST
垫圈 Gasket	材质 Material	SUS 316L	SUS 316L	SUS 316L
阀座允许泄漏量 Allowable Leakage of Seat	ANSI	Class IV	Class IV	Class IV
	额定 CvX Rated CvX	0.01%	Bubble-Tight	0.01%
作用温度℃ Operating Temperature		-196~+566	-45~+230	-196~+566

R.TFE: 强化聚四氟乙烯 HT: 热处理 ST: 堆焊司太立合金 SS: 部分堆焊司太立合金 SF: 全部堆焊司太立合金  
R.TFE: Reinforced PTFE HT: Heat Treatment ST: Surfacing Stitalloy SS: Partial Surfacing Stitalloy SF: All Surfacing Stitalloy



允许压差  
Allowable Differential Pressure

多弹簧薄膜式执行机构 Multi-spring Diaphragm Actuator

单位 Unit: MPa

执行机构规格 Actuator Specification	气源压力 Air Pressure KPa	弹簧范围 Spring Range KPa	Inch(mm)											
			阀芯尺寸 Core Size											
			3/4 20	1 25	1 1/4 32	1 1/2 40	2 50	2 1/2 65	3 80	4 100	5 125	6 150	8 200	
ZJHA/B-22	140	20~100	1.17	0.75	-	-	-	-	-	-	-	-	-	-
	240	40~200	2.73	1.75	-	-	-	-	-	-	-	-	-	-
	300	80~240	5.85	3.75	-	-	-	-	-	-	-	-	-	-
ZJHA/B-23	140	20~100	1.64	1.05	0.63	0.4	0.26	-	-	-	-	-	-	-
	240	40~200	3.82	2.45	1.49	0.96	0.61	-	-	-	-	-	-	-
	300	80~240	8.19	5.24	3.19	2.05	1.31	-	-	-	-	-	-	-
ZJHA/B-34	140	20~100	-	-	1.02	0.66	0.42	0.24	0.16	0.10	-	-	-	-
	240	40~200	-	-	2.38	1.53	0.98	0.58	0.38	0.24	-	-	-	-
	300	80~240	-	-	5.12	3.28	2.10	1.24	0.82	0.52	-	-	-	-
ZJHA/B-45	140	20~100	-	-	-	-	-	0.40	0.26	0.17	0.11	0.07	0.02	-
	240	40~200	-	-	-	-	-	0.93	0.61	0.39	0.25	0.17	0.07	-
	300	80~240	-	-	-	-	-	1.98	1.32	0.84	0.54	0.37	0.16	-

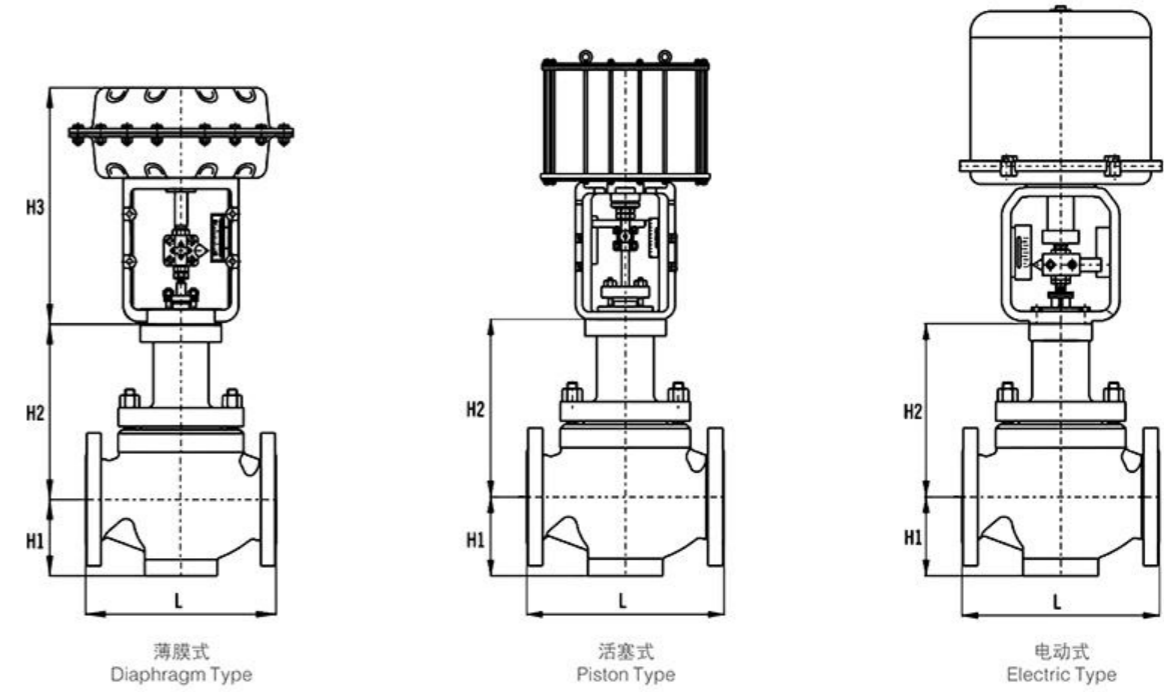
电子式执行机构 381L系列 381L Series of Electronic Actuator

单位 Unit: MPa

型号/规格 Model/Specification	额定电压 Voltage Rating	Inch (mm)											
		阀芯尺寸 Core Size											
		3/4 20	1 25	1 1/4 32	1 1/2 40	2 50	2 1/2 65	3 80	4 100	5 125	6 150	8 200	
381LSA-08		2.38	1.52	0.93	0.59	0.38	-	-	-	-	-	-	-
		1.91	1.22	0.74	0.47	0.30	-	-	-	-	-	-	-
381LSA-20		4.77	3.05	1.86	1.19	0.76	0.45	-	-	-	-	-	-
		3.82	2.44	1.49	0.95	0.61	0.36	-	-	-	-	-	-
381LSB-30		-	-	2.79	1.79	1.14	0.67	1.21	0.28	0.18	0.12	0.03	-
		-	-	2.23	1.43	0.91	0.54	0.96	0.22	0.14	0.10	0.02	-
381LSB-50	110V 220V 380V	-	-	4.66	2.98	1.91	1.13	1.51	0.47	0.30	0.21	0.08	-
		-	-	3.73	2.38	1.52	0.90	1.20	0.38	0.24	0.16	0.06	-
381LSB-65		-	-	-	-	-	1.35	2.34	0.57	0.36	0.25	0.11	-
		-	-	-	-	-	1.08	1.87	0.45	0.29	0.20	0.08	-
381LSC-99		-	-	-	-	-	2.26	2.92	0.95	0.61	0.42	0.20	-
		-	-	-	-	-	1.80	2.33	0.76	0.48	0.33	0.15	-
381LSC-160		-	-	-	-	-	-	-	-	0.97	0.67	0.35	-
		-	-	-	-	-	-	-	-	0.78	0.54	0.27	-

外型图 Outline Drawing

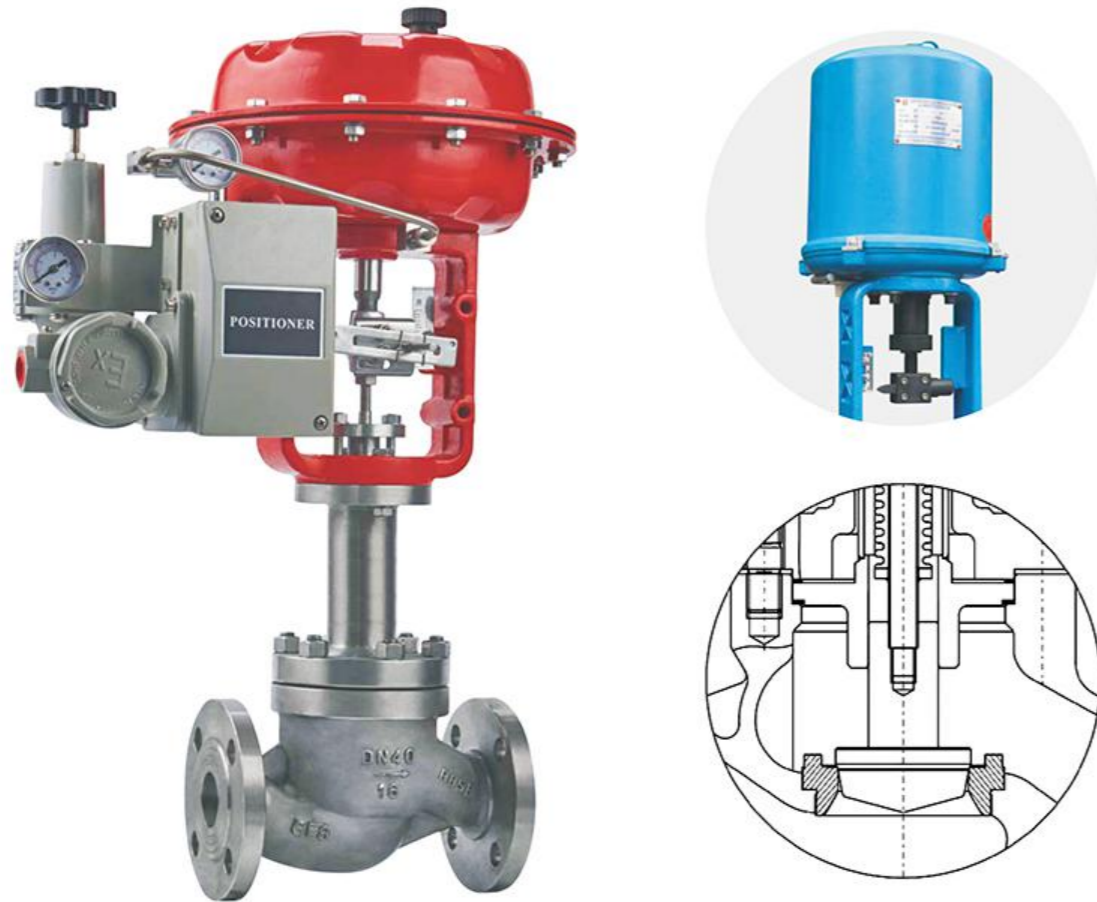
3/4"-8"(DN20~DN200)外型  
3/4"-8"(DN20~DN200) appearance



外形尺寸 Appearance Dimension

单位 Unit: MPa

DN		L				H1	H2	H3	电动执行机构 Electrical Actuator	气动执行机构 Pneumatic Actuator
inch	mm	ANSI 150 PN 16/25		ANSI 300 PN 40	ANSI 600 PN 64/100					
		GB/T 12221	GB/T 17213.3	GB/T 17213.3						
3/4	20	150	184	194	206	40	135	274	381LSA-20	ZJHA/B 22
1	25	160	184	197	210	43	146			
1 1/4	32	180	210	235	251	45	163	302	381LSB-30	ZJHA/B 23
1 1/2	40	200	222	235	251	56	163			
2	50	230	254	267	286	73	165	375	381LSB-50	ZJHA/B 34
2 1/2	65	290	276	292	311	83	217			
3	80	310	298	317	337	102	235	465	381LSC-99	ZJHA/B 45
4	100	350	352	368	394	110	236			
5	125	400	402	425	500	146	340	220	381LSC-99	ZJHA/B 45
6	150	480	451	473	508	170	340			
8	200	600	543	568	610	220	383			



HTSW 波纹管单座控制阀

HTSW波纹管密封单座调节阀是一种顶部导向结构的调节阀，阀体结构紧凑，流体通道呈S流线型，压降损失小，流量大、可调范围广。

上阀盖采用波纹管密封结构，可彻底消除工艺介质从阀杆运动间隙向外泄漏的可能性，这是波纹管密封阀的显著特点之一。由于波纹管元件本身的可变性和卓越的抗老化性，这种调节阀完全克服了填料密封阀通常存在的填料老化和温差敏感等弱点。其次，采用波纹管-填料双重密封结构，安全可靠更好，因此，它在剧毒，强腐蚀性、放射性等稀有特殊介质的自动控制系统中得到广泛应用。

阀芯导向面积大，抗振性好。调节阀配用多弹簧式薄膜执行机构或电动执行机构，结构紧凑，输出力矩大。

HTS Bellows Single Seat Control Valve

HTSW bellows sealed single seat control valve is a kind of top guide structure valve. The body structure is compact. It has S-streamline fluid channel, small pressure drop loss, large flow, wide adjustable range.

The upper bonnet adopts bellows sealing structure, which can completely eliminate the possibility of leakage of process media from the movement gap of the stem, and it is one of the remarkable characteristics of bellows sealing valve. Due to the variability and prominence of the bellows element itself with the anti-aging property, this kind of control valve completely overcomes the weakness of packing sealing valve, such as packing aging and temperature difference sensitivity. Secondly, using the bellows-packing double seal structure, it has better safety and reliability. Therefore, it is widely used in the automatic control system of highly toxic, highly corrosive, radioactive and other rare and special media.

The valve core has large guiding area and good vibration resistance. The control valve is equipped with multi-spring diaphragm actuator or electric actuator, and has compact structure, large output torque.

标准规格 Standard Specifications

形式 Manner	直通铸造球阀 Straight Through Casting Ball Valve
公称通径 Nominal diameter	16, 20, 25, 32, 40, 50, 65, 80, 100, 125, 150, 200mm
公称压力 Nominal pressure	ANSI Class 125, 150, 300; JIS 10K, 16, 20K; PN1.6, 4.0 MPa
连接形式 Connection Type	法兰型: FF, RF, RJ, TG, MFM/焊接型: SW(40~50mm); BW(65~200mm) Flange Type: FF, RF, RJ, TG, MFM/Weld Type: SW(40~50mm); BW(65~200mm)
阀体及上阀盖材质 The Material of Body and Bonnet	SCPH2/WCB, SCPH21/WC6, SCS13A/CF8, SCS14A/CF8M, SCS16A/CF3M, Ti 和其它合金钢各种材质的使用温度·压力范围 SCPH2/WCB, SCPH21/WC6, SCS13A/CF8, SCS14A/CF8M, SCS16A/CF3M, The operating temperature and pressure range of titanium and other alloy
上阀盖形式 Upper bonnet form	波纹管密封型: -196~350°C Bellow Seal Type: -196~350°C
压盖形式 Gland manner	螺栓压紧式 Screw Fastening Type
填料 Packing	V型聚四氟乙烯填料、石墨填料 V-type PTFE Packing, Graphite Packing
垫片 Gasket	平型、锯齿型(碳钢、不锈钢(SUS 304, SUS 316, SUS 316L)、其它合金) Plain Type, Zigzag Type/ Stainless Steel (SUS 304, SUS 316, SUS 316L) and other alloys
表面涂层 Surface coating	蓝色(环氧树脂)。但是阀体材质为不锈钢时，本部分不加涂层。 Blue (Epoxy). But When the Valve Body Material is Stainless Steel, this can not add coating.

\* 法兰标准 Flange Standard: JIS B2201-1984, JB/T79.1-94 (PN1.6MPa), JB/T79.2-94 (PN4.0, 6.4MPa), ANSI B16.5-2009, HG20592-2009, HG20615-2009.

Cv值和行程 Cv Value and Stroke (% CF, LCF)

公称通径 Nominal Diameter	15 20 25 32 40 50																	
阀座直径 Seat Diameter	10	12	15	15	20	20	25	25	32	25	32	40	32	40	50			
额定Cv值 Rated Cv	1.6	2.5	4	4	6.3	6.3	10	10	17	10	17	24	17	24	40			
额定行程 Rated Stroke	25																	
公称通径 Nominal Diameter	65 80 100 125 150 200																	
阀座直径 Seat Diameter	40	50	65	50	65	80	65	80	100	80	100	125	100	125	150	125	150	200
额定Cv值 Rated Cv	24	40	63	40	63	100	63	100	160	100	160	250	160	250	400	250	400	630
额定行程 Rated Stroke	40 60																	

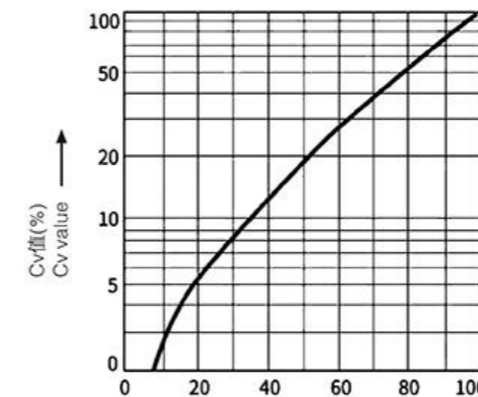
执行机构 Actuator

	气动薄膜式 Pneumatic Diaphragm Type	气缸活塞式 Cylinder Piston Type	电子式 Electronic Type	智能式 Intelligent Type
	ZJHA/B	ZTCLS ZTCL	381 系列 381 Series	ZM 系列 ZM Series
	多弹簧型 Multiple Springs Type	单作用 Single Action 双作用 Double Action		
用途 Use	调节 Regulation	调节 Regulation	调节 Regulation	调节 Regulation
供气压力或 供给电压 Supply Gas Pressure and Supply Voltage	供气压力(弹簧范围) Supply Gas Pressure (spring range) 280 (80~240) KPa 400 (80~240) KPa	供气压力400~700KPa Supply Gas Pressure 400~700KPa	电压: 220/380V 50Hz 输入信号: 4~20mA DC Voltage: 220/380V 50Hz Input Signal: 4~20mA DC	电压: 220/380V 50Hz 输入信号: 4~20mA DC Voltage: 220/380V 50Hz Input Signal: 4~20mA DC
接口 Connector	空气配管: RC1/4 Air Piping: RC1/4	空气配管: G1/8; G1/4; G1/2; G3/8 Air Piping: G1/8; G1/4; G1/2; G3/8	配线: PG13.5 Wiring: PG13.5	配线: PG13.5 Wiring: PG13.5
正作用 Positive Action	气压增加阀闭 Adding Pressure Valve Will Be Closed	气压增加阀闭 Adding Pressure Valve Will Be Closed	输入信号阀闭 Inputting The Signal Valve Will Be Closed	输入信号阀闭 Inputting The Signal Valve Will Be Closed
反作用 Negative Action	气压增加阀开 Adding Pressure Valve Will Be Opened	气压增加阀开 Adding Pressure Valve Will Be Opened	输入信号阀开 Inputting The Signal Valve Will Be Opened	输入信号阀开 Inputting The Signal Valve Will Be Opened
回差 Hysteresis	≤3%FS(带定位器) ≤3%FS(不带定位器) ≤3%FS(With Positioner) ≤3%FS(No Positioner)	≤3%FS(带定位器) ≤3%FS(不带定位器) ≤3%FS(With Positioner) ≤3%FS(No Positioner)	≤±1%FS	≤±1%FS
基本误差 Limit of Intrinsic Error	≤±3%FS(带定位器) ≤±11%FS(不带定位器) ≤±3%FS(With Positioner) ≤±11%FS(No Positioner)	≤±3%FS(带定位器) ≤±11%FS(不带定位器) ≤±3%FS(With Positioner) ≤±11%FS(No Positioner)	≤±1%FS	≤±1%FS
环境温度 Ambiance Temperature	标准型 -30~+70°C 高温型 0~+100°C 低温型 -40~+40°C Normal Temperature Type -30~+70°C High Temperature Type 0~+100°C Low Temperature Type -40~+40°C	标准型 -20~+60°C 高温型 0~+100°C 低温型 -50~+60°C Normal Temperature Type -20~+60°C High Temperature Type 0~+100°C Low Temperature Type -50~+60°C	-20~+70°C	-25~+70°C
油漆颜色 Painting Color	蓝色色标10B5/10 Blue Scale 10B5/10	蓝色色标10B5/10 Blue Scale 10B5/10		
附件 Accessory	定位器/空气过滤/减压阀 保位阀/阀位变送器/手轮机构 Positioner/Air Filtration Pressure Reducing Valve Transmitter/Handwheel	定位器/空气过滤/减压阀 保位阀/阀位变送器/手轮机构 Positioner/Air Filtration Pressure Reducing Valve Transmitter/Handwheel	一体式 Integrated Type	一体式 Integrated Type

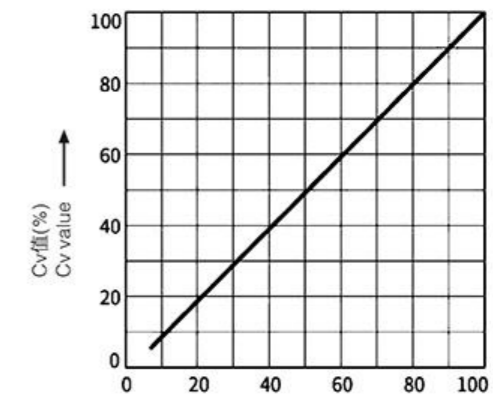
选型参数表 Model Selection Parameter Table

阀座直径(mm) Seat Diameter	10	12	15	20	25	32	40	50	65	80	100	125	150	200				
额定流量 系数Cv Rated Flow Cv Value	等百分比 Equal Percentage		1.6	2.5	4	6.3	10	17	24	40	63	100	160	250	400	630		
	线性 Straight		1.8	2.8	4.4	6.9	11	17.6	27.5	44	69	110	176	275	440	690		
公称通径 Nominal Diameter	行程 Stroke		可选流量系数Cv (★标准型 ●推荐 ○定制) Optional Coefficient of Flow Cv (★ Standard Type ● Recommend Type ○ Customized Type)															
DN20	16mm		●	●	●	★												
DN25	16mm		●	●	●	●	★											
DN32	25mm		○	○	○	○	○	★										
DN40	25mm			○	○	○	○	○	●	★								
DN50	40mm				○	○	○	○	○	●	●	★						
DN65	40mm							○	○	○	○	★						
DN80	40mm								○	○	○	○	●	★				
DN100	60mm									○	○	○	○	○	●	★		
DN125	60mm										○	○	○	○	○	★		
DN150	60mm											○	○	○	○	●	★	
DN200	60mm												○	○	○	○	●	★
气动执行机构膜片 有效面积Ae(cm <sup>2</sup> ) Pneumatic actuator diaphragm active area Ae(cm <sup>2</sup> )	ZJHA/B-22			ZJHA/B-23			ZJHA/B-34			ZJHA/B-45								
作用方式 Action	金属密封允许压差(MPa) Allowable pressure differential of metal seal (MPa)																	
气开 Open	20~100KPa		4.46	3.09	1.98	1.16	0.7	0.44	0.28	0.18	0.17	0.11	0.07	0.07	0.05	0.03		
	40~200KPa		6.4	6.4	5.94	3.34	2.14	1.31	0.84	0.53	0.51	0.33	0.21	0.22	0.15	0.09		
	80~240KPa		6.4	6.4	6.4	6.4	4.99	3.05	1.95	1.25	1.18	0.78	0.5	0.51	0.36	0.21		
气关 Close	20~100KPa		6.4	6.19	3.96	2.23	2.14	0.87	0.56	0.35	0.34	0.22	0.14	0.15	0.1	0.06		
	40~200KPa		6.4	6.4	6.4	6.4	6.4	5.86	3.64	2.3	2.21	1.43	0.91	0.95	0.66	0.37		
	80~240KPa		6.4	6.4	6.4	6.4	6.4	6.4	5.04	3.18	3.06	1.98	1.26	1.32	0.92	0.52		

高精度流量特性曲线 High Precision Flow Characteristic of Valve



行程 (%)  
等百分比特性 (%TF软阀座)  
Stroke (%)  
Equal Percentage Characteristic  
(%TF Soft Seat)



行程 (%)  
线性特性 (%LTF金属阀座)  
Stroke (%)  
Linear Characteristic  
(%LTF Metal Seat)

控制阀尺寸及缩腔型内件与行程，额定Cv值  
The Size of Control Valve and Hole Shrinkage Internals & trip; Rated Cv.

阀门尺寸 Valve Size Inch (mm)	额定行程 Rated Stroke (mm)	额定Cv值 Rated Cv									
		阀门开度%行程 The Opening Degree of Valve % Trip									
		等百分比特性 Requal Percentage Characteristics					直线特性 Straight Characteristics				
		10%	30%	50%	70%	100%	10%	30%	50%	70%	100%
3/4 (20)	16	0.09	0.17	0.34	0.95	1.6	0.27	0.68	1.09	1.49	1.8
		0.14	0.27	0.53	1.48	2.5	0.42	1.06	1.69	2.32	2.8
		0.22	0.43	0.85	2.37	4	0.67	1.66	2.65	3.65	4.4
1 (25)	16	0.22	0.43	0.85	2.37	4	0.67	1.66	2.65	3.65	4.4
		0.34	0.68	1.35	3.74	6.3	1.05	2.60	4.16	5.72	6.9
1 1/4 (32)	25	0.34	0.68	1.35	3.74	6.3	1.05	2.60	4.16	5.72	6.9
		0.55	1.08	2.14	5.93	10	1.67	4.15	6.64	9.11	11
1 1/2 (40)	25	0.55	1.08	2.14	5.93	10	1.67	4.15	6.64	9.11	11
		0.87	1.73	3.42	9.49	16	2.67	6.63	10.62	14.58	17.6
2 (50)	25	0.87	1.73	3.42	9.49	16	2.67	6.63	10.62	14.58	17.6
		1.36	2.72	5.35	14.82	25	4.17	10.37	16.59	22.79	27.5
2 1/2 (65)	40	1.36	2.72	5.35	14.82	25	4.17	10.37	16.59	22.79	27.5
		2.18	4.32	8.54	23.71	40	6.67	16.58	26.56	36.46	44
3 (80)	40	2.18	4.32	8.54	23.71	40	6.67	16.58	26.56	36.46	44
		3.34	6.81	13.45	37.35	63	10.47	26.01	41.63	57.17	69
4 (100)	40	3.34	6.81	13.45	37.35	63	10.47	26.01	41.63	57.17	69
		5.45	10.81	21.36	59.28	100	16.69	41.46	66.37	91.14	110
5 (125)	60	13.62	10.81	21.36	59.28	100	16.69	41.46	66.37	91.14	110
		21.80	17.29	34.17	94.85	160	26.70	66.34	106.2	145.8	176
6 (150)	60	21.80	17.29	34.17	94.85	160	26.70	66.34	106.2	145.8	176
		13.62	27.06	53.40	148.2	250	41.72	103.7	165.9	227.9	275
8 (200)	60	21.80	43.23	85.42	237.1	400	66.75	165.85	265.5	364.6	440
		13.62	27.06	53.40	148.2	250	71.72	103.7	165.9	227.9	275
		21.80	43.23	85.42	237.1	400	66.75	165.85	265.5	364.6	440

阀体、阀内件材质组合及使用温度范围·阀座允许泄漏量  
The Material of Valve and Components, Range of Using Temperature · Allowable Leakage of Seat

阀体材质: 碳钢 Body Material: Carbon Steel

阀体材质 Body Material		SCPH2/A216-WCB, SCPH21/A217-WC6, SCPL1/A352-LCB		
阀芯 Core	材质 Material	SUS 304/316	SUS 304/316	SUS 304/316
	处理 Treatment	-	R.TFE	SS/SF
阀座 Seat	材质 Material	SUS 304/316	SUS 304/316	SUS 304/316
	处理 Treatment	-	-	SS/SF
导向套 Guide Sleeve	材质 Material	SUS 420	SUS 420	SUS 420
	处理 Treatment	HT	HT	HT
垫圈 Gasket	材质 Material	SUS 316L	SUS 316L	SUS 316L
阀座允许泄漏量 Allowable Leakage of Seat	ANSI	Class IV	Class IV	Class IV
	额定 CvX Rated CvX	0.01%	零泄漏 Non-leakage	0.01%
作用温度℃ Operating Temperature	SCPH2/WCB 阀体 SCPH2/WCB Body	-17~+350	-17~+230	-17~+350
	SCPH21/WC6 阀体 SCPH21/WC6 Body	-17~+350	-17~+230	-17~+350
	SCPL1/LCB 阀体 SCPL1/LCB Body	-45~+350	-45~+270	-45~+350

阀体材质: 不锈钢 Body Material: Stainless Steel

阀体材质 Body Material		SCS13A/CF8, SCS14A/CF8M, SCS16A/CF3M		
阀芯 Core	材质 Material	SUS 304/316/316L	SUS 304/316	SUS 304/316/316L
	处理 Treatment	-	R.TFE	SS/SF
阀座 Seat	材质 Material	SUS 304/316/316L	SUS 304/316/316L	SUS 304/316/316L
	处理 Treatment	-	-	SS/SF
导向套 Guide Sleeve	材质 Material	SUS 304/316/316L	SUS 304/316/316L	SUS 304/316/316L
	处理 Treatment	-	R.TFE	ST
垫圈 Gasket	材质 Material	SUS 316L	SUS 316L	SUS 316L
阀座允许泄漏量 Allowable Leakage of Seat	ANSI	Class IV	Class IV	Class IV
	额定 CvX Rated CvX	0.01%	零泄漏 Non-leakage	0.01%
作用温度℃ Operating Temperature		-196~+350	-45~+350	-196~+350

允许压差  
Allowable Differential Pressure

多弹簧薄膜式执行机构 Multi-spring Diaphragm Actuator

单位 Unit: MPa

执行机构规格 Actuator Specification	气源压力 Air Pressure KPa	弹簧范围 Spring Range KPa	Inch(mm)											
			阀芯尺寸 Core Size											
			3/4 20	1 25	1 1/4 32	1 1/2 40	2 50	2 1/2 65	3 80	4 100	5 125	6 150	8 200	
ZJHA/B-22	140	20~100	1.17	0.75	-	-	-	-	-	-	-	-	-	-
	240	40~200	2.73	1.75	-	-	-	-	-	-	-	-	-	-
	300	80~240	5.85	3.75	-	-	-	-	-	-	-	-	-	-
ZJHA/B-23	140	20~100	1.64	1.05	0.63	0.4	0.26	-	-	-	-	-	-	-
	240	40~200	3.82	2.45	1.49	0.96	0.61	-	-	-	-	-	-	-
	300	80~240	8.19	5.24	3.19	2.05	1.31	-	-	-	-	-	-	-
ZJHA/B-34	140	20~100	-	-	1.02	0.66	0.42	0.24	0.16	0.10	-	-	-	-
	240	40~200	-	-	2.38	1.53	0.98	0.58	0.38	0.24	-	-	-	-
	300	80~240	-	-	5.12	3.28	2.10	1.24	0.82	0.52	-	-	-	-
ZJHA/B-45	140	20~100	-	-	-	-	-	0.40	0.26	0.17	0.11	0.07	0.02	-
	240	40~200	-	-	-	-	-	0.93	0.61	0.39	0.25	0.17	0.07	-
	300	80~240	-	-	-	-	-	1.98	1.32	0.84	0.54	0.37	0.16	-

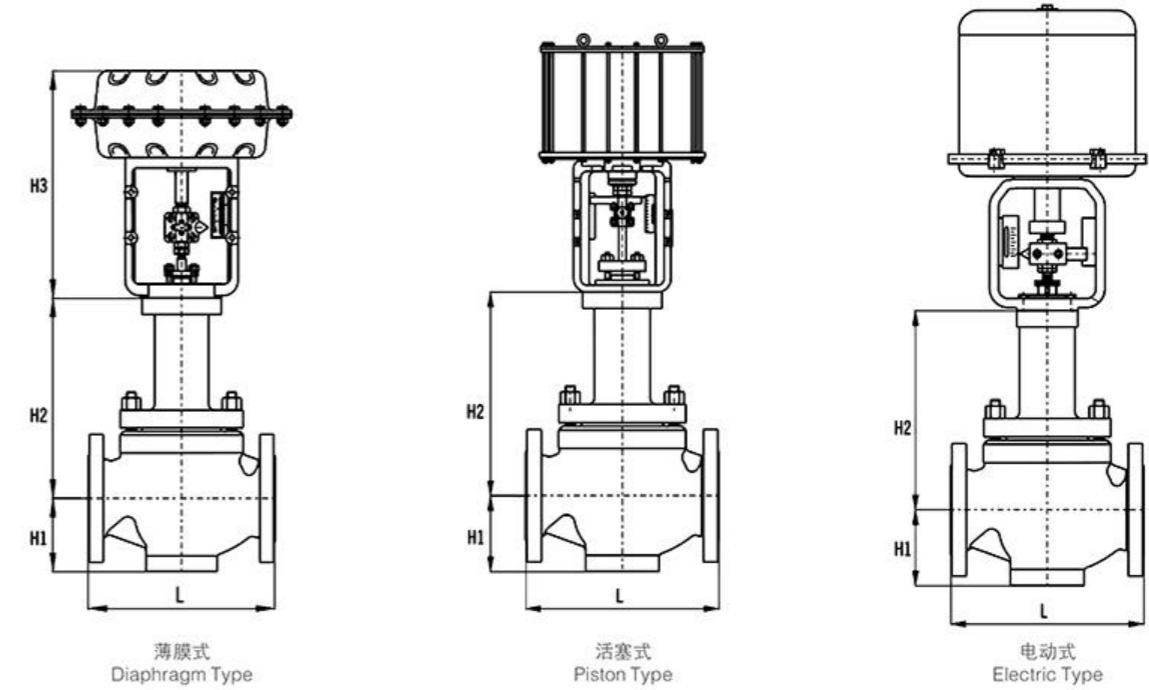
电子式执行机构 381L系列 381L Series of Electronic Actuator

单位 Unit: MPa

型号/规格 Model/Specification	额定电压 Voltage Rating	Inch (mm)											
		阀芯尺寸 Core Size											
		3/4 20	1 25	1 1/4 32	1 1/2 40	2 50	2 1/2 65	3 80	4 100	5 125	6 150	8 200	
381LSA-08		2.38	1.52	0.93	0.59	0.38	-	-	-	-	-	-	-
		1.91	1.22	0.74	0.47	0.30	-	-	-	-	-	-	-
381LSA-20		4.77	3.05	1.86	1.19	0.76	0.45	-	-	-	-	-	-
		3.82	2.44	1.49	0.95	0.61	0.36	-	-	-	-	-	-
381LSB-30		-	-	2.79	1.79	1.14	0.67	1.21	0.28	0.18	0.12	0.03	-
		-	-	2.23	1.43	0.91	0.54	0.96	0.22	0.14	0.10	0.02	-
381LSB-50	110V 220V 380V	-	-	4.66	2.98	1.91	1.13	1.51	0.47	0.30	0.21	0.08	-
		-	-	3.73	2.38	1.52	0.90	1.20	0.38	0.24	0.16	0.06	-
381LSB-65		-	-	-	-	-	1.35	2.34	0.57	0.36	0.25	0.11	-
		-	-	-	-	-	1.08	1.87	0.45	0.29	0.20	0.08	-
381LSC-99		-	-	-	-	-	2.26	2.92	0.95	0.61	0.42	0.20	-
		-	-	-	-	-	1.80	2.33	0.76	0.48	0.33	0.15	-
381LSC-160		-	-	-	-	-	-	-	-	0.97	0.67	0.35	-
		-	-	-	-	-	-	-	-	0.78	0.54	0.27	-

外型图 Outline Drawing

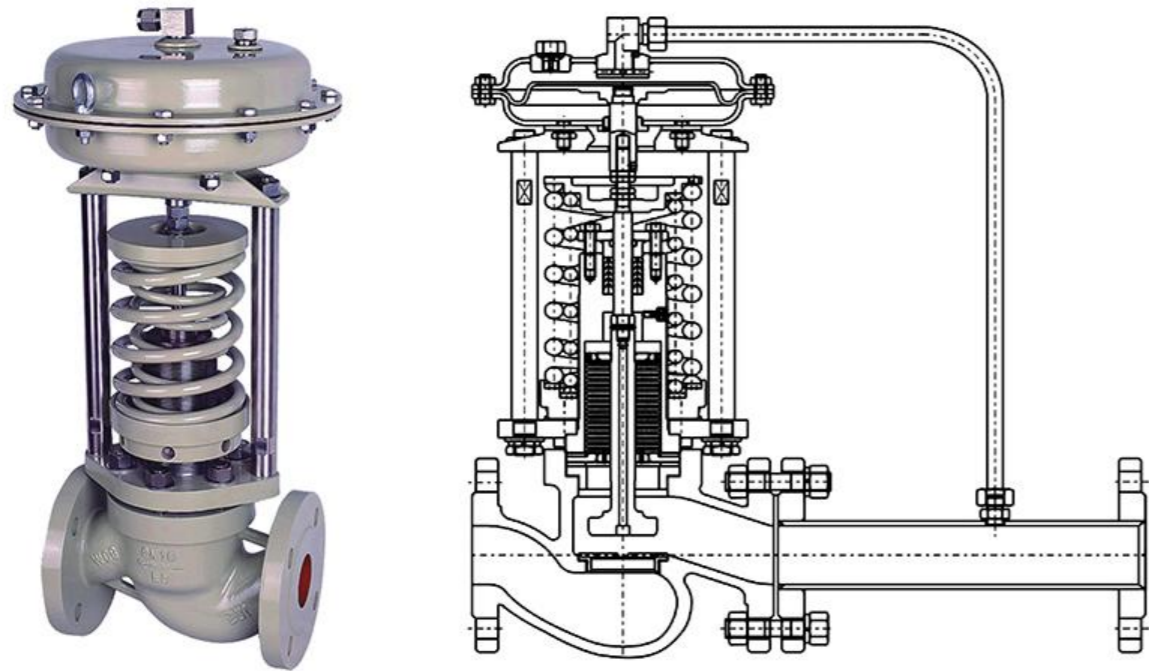
3/4"-8"(DN20~DN200)外型  
3/4"-8"(DN20~DN200) appearance



外形尺寸 Appearance Dimension

单位 Unit: MPa

DN		L				H1	H2	H3	电动执行机构 Electrical Actuator	气动执行机构 Pneumatic Actuator
inch	mm	ANSI 150 PN 16/25		ANSI 300 PN 40	ANSI 600 PN 64/100					
		GB/T 12221	GB/T 17213.3	GB/T 17213.3						
3/4	20	150	184	194	206	40	135	274	381LSA-20	ZJHA/B 22
1	25	160	184	197	210	43	146			
1 1/4	32	180	210	235	251	45	163	302	381LSB-30	ZJHA/B 23
1 1/2	40	200	222	235	251	56	163			
2	50	230	254	267	286	73	165	375	381LSB-50	ZJHA/B 34
2 1/2	65	290	276	292	311	83	217			
3	80	310	298	317	337	102	235	465	381LSC-99	ZJHA/B 45
4	100	350	352	368	394	110	236			
5	125	400	402	425	500	146	340	220	381LSC-99	ZJHA/B 45
6	150	480	451	473	508	170	340			
8	200	600	543	568	610	220	383			



#### ZZP自力式压力调节阀

ZZP系列调节阀采用外取压结构，能依靠介质自身压力变化达到自动调节和稳定压力的目的，适用于公称口径DN100， $P_1 \leq 1.0\text{MPa}$ ， $P_2 \geq 15\text{KPa}$ ，减压比 $\leq 10$ ， $\geq 1.25$ 的液体、蒸汽、非腐蚀性气体及低粘度液体的场合。

该系列分为阀后式ZZYP-B和阀前式ZZYP-K两种。

#### ZZP Self-operated Pressure Control Valve

ZZP series control valve adopts external pressure structure, which can automatically adjust and stabilize the pressure depending on the pressure change of the medium itself. It is suitable for liquid, steam, non-corrosive gas and low-viscosity liquid with nominal diameter DN100,  $P_1 \leq 1.0\text{MPa}$ ,  $P_2 \geq 15\text{KPa}$ , pressure reduction ratio is  $\leq 10$ ,  $\geq 1.25$ .

#### 标准规格 Standard Specifications

形式 Manner	流体压力平衡型阀芯 Fluid Pressure Balance Type Trim
公称口径 Nominal diameter	15, 20, 25, 40, 50, 65, 80, 100mm
公称压力 Nominal pressure	ANSI Class 150, 300; JIS 10K, 20K; PN1.6, 4.0MPa*
连接形式 Connection Type	法兰式(JIS B2201-1984, JB/T79.1-94, ANSI B16.5-2009; HG20592-2009, HG20615-2009) Flange Type (JIS B2201-1984, JB/T79.1-94, ANSI B16.5-2009; HG20592-2009, HG20615-2009)
阀内件材质 Trim Material 阀内件处理 Trim Treatment	各种材质组合及适用温度·压力范围 The operating temperature · pressure range of various materials combinations
阀体及上阀盖材质 The Material of Body and Bonnet	SCPH2/WCB, SCS13A/CF8, SCS14A/CF8M各种材质的使用温度·压力范围 SCPH2/WCB, SCS13A/CF8, SCS14A/CF8M the operating temperature · pressure range of various materials
填料 Packing	V型聚四氟乙烯填料、石墨 V-type PTFE Packing, Graphite Packing
垫片 Gasket	无石棉橡胶板 Asbestos Free Rubber Sheet

#### 额定Kv值 Rated Kv Value

公称口径 DN Nominal Diameter	15	20	25	32	40	50	65	80	100
额定流量系数(Kv) Rated Flow Cv Value(Kv)	5	7	11	20	30	48	75	120	190
额定行程(mm) Rated Stroke(mm)	8	8	8	10	10	14	20	20	25
压力分段范围(KPa) Range of Pressure Segment(KPa)	15~50, 40~80, 60~100, 80~140, 120~180, 160~220, 200~260, 240~300, 280~350, 300~400, 380~450, 430~500, 480~560, 540~620, 600~700, 680~800, 780~900, 880~1000								

注：额定Kv值也可选用0.12, 0.2, 0.3, 0.5, 0.8, 1.2, 2.0, 3.2  
Note: Rated Kv Can Also Choose 0.12, 0.2, 0.3, 0.5, 0.8, 1.2, 2.0, 3.2

执行机构 Actuator

	薄膜式 Diaphragm Type	气缸式 Cylinder Type
	膜片材质 Diaphragm Material	活塞 Piston
	丁腈橡胶 Nitrile Rubber	铝合金 Aluminum Alloy
用途 Use	调节 Regulation	
接口 Connector	M16 x 1.5	
最小压差 $\Delta p$ Minimum Differential Pressure	$\Delta p \geq 0.04 \text{MPa}$	
压力调节范围 Pressure Adjustable Range	$\leq 0.5 \text{MPa}$	0.5~1.0MPa
使用温度 Operating Temperature	-5~350°C	
标准涂层色 Standard Coating Color	灰色 Grey	

性能及选型参数表 Performance and Model Selection Parameter Table

公称通径(DN) Nominal diameter	20	25	32	40	50	65	80	100	125	150	200	250	300
额定流量系数(Kv) Rated Flow Cv Value(Kv)	7	11	20	30	48	75	120	190	300	480	760	1100	1750
额定行程(mm) Rated stroke(mm)	8	10	14	20	25	40	50	60	70				
公称压力 Nominal pressure	PN16、40、64 Class 150Lb~300Lb												
压力调节范围(KPa) Adjusting range of pressure difference(KPa)	15~50 40~80 60~140 120~220 160~220 200~260 240~300 280~350 330~400 380~450 480~560 540~620 600~700 680~800 780~900 880~1000 950~1500 1000~2500 控制压力尽量选择调节范围中间值附件 15~50 40~80 60~140 120~220 160~220 200~260 240~300 280~350 330~400 380~450 480~560 540~620 600~700 680~800 780~900 880~1000 950~1500 1000~2500 As for the control pressure, please choose the middle value in the adjustment range as far as possible												
流量特性 Flow characteristic	快开 Quick-opening												
调节精度% Accuracy of adjustmen	$\pm 5-10$												
使用温度 Operating temperature	-40°C ≤ 不带冷凝器 ≤ 200°C ≤ 带冷凝器 ≤ 350°C -40°C ≤ No condenser ≤ 200°C ≤ With a condenser ≤ 350°C												
允许泄漏量 Allowable Leakage	硬密封(L/h) Metal to metal	单座: ( $\leq 10^{-4}$ IV 级); 套筒: 阀额定容量 ( $\leq 5 \times 10^{-4}$ 阀额定容量 (II 级)) Single seat: ( $\leq 10^{-4}$ IV Class); Sleeve: rated valve capacity ( $\leq 5 \times 10^{-4}$ rated valve capacity (II class))											
	软密封(L/h) Soft seal	0.15	0.3	0.45	0.6	0.9	1.7	4	6.75	11.1	16		
减压比 Reducing Ratio	最大 Maximum	10											
	最小 Minmum	1.25											
阀前压力KPa Upstream Pressure	阀前压力的最小值 Minimum of upstream pressure												
阀后压力KPa Downstream Pressure	30	50	100	150	200	250	300	350	400				
阀前压力KPa Upstream Pressure	15~24	15~40	15~80	15~120	20~160	25~200	30~240	35~280	40~320				
阀后压力KPa Downstream Pressure	450	500	550	600	650	700	750	800	850				
阀前压力KPa Upstream Pressure	45~360	50~400	55~440	60~480	65~520	170~560	75~600	80~640	85~680				
阀后压力KPa Downstream Pressure	900	950	1000	1250	1500	2000	2500	3000					
阀前压力KPa Upstream Pressure	90~720	95~760	100~800	125~1000	150~1200	200~1600	250~2000	300~2400					
阀后压力KPa Downstream Pressure													

注: 规格DN125至DN300压力调节阀根据要求定制。  
Note: Customize pressure control valve of DN125 to DN300 on the basis of requirements.

阀体、阀内件材质组合及使用温度范围  
The Material of Valve and Components, Range of Using Temperature

阀体材质: 碳钢 Body Material: Carbon Steel

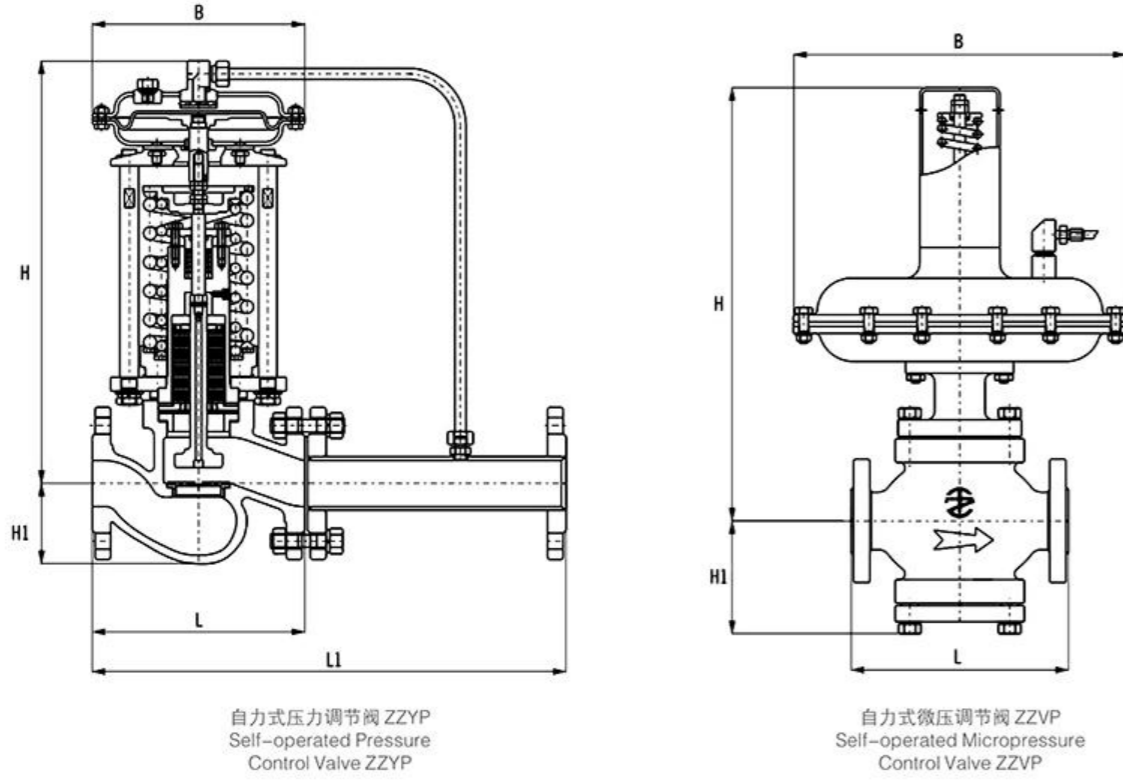
阀体材质 Body Material	SCPH2/A216-WCB
阀芯 Core	SUS 304
阀座 Seat	SUS 304
波纹管 Bellows	SUS 304
膜片 Diaphragm	丁腈橡胶 Nitrile rubber
活塞 Piston	铝合金 Aluminum alloy
垫圈 Gasket	无石棉橡胶板 Asbestos free rubber sheet
作用温度°C Operating Temperature	-5~+350°C

阀体材质: 不锈钢 Body Material: Stainless Steel

阀体材质 Body Material	SCS13A/CF8, SCS14A/CF8M
阀芯 Core	SUS 316
阀座 Seat	SUS 316
波纹管 Bellows	SUS 316
膜片 Diaphragm	丁腈橡胶 Nitrile rubber
活塞 Piston	铝合金 Aluminum alloy
垫圈 Gasket	无石棉橡胶板 Asbestos free rubber sheet
作用温度°C Operating Temperature	-5~+350°C

外型图 Outline Drawing

DN15~DN100 外型  
DN15~DN100 appearance



自力式压力调节阀 ZZYP  
Self-operated Pressure  
Control Valve ZZYP

自力式微压调节阀 ZZVP  
Self-operated Micropressure  
Control Valve ZZVP

外形尺寸及重量 Main Outline and Weight

单位 Unit: mm

公称通径(DN) Nominal diameter			15	20	25	32	40	50	65	80	100
法兰接管尺寸(L1) The Size of Flange Connection Tube			383	383	383	512	512	603	862	862	1023
法兰端间距(L) Flange End Face to Face			150	150	160	180	200	230	290	310	350
H1			32	32	36	58	58	62	75	85	105
压力调节 范围 (KPa) Range of Pressure Regulation (KPa)	15~140	H	475	475	475	520	520	540	710	710	780
		B	280	280	280	310	310	310	310	310	310
	120~300	H	455	455	455	500	500	520	690	690	760
		B	195	195	195	230	230	230	230	230	230
	280~500	H	450	450	450	490	490	510	680	680	750
		B	176	176	176	176	176	176	200	200	200
	480~1000	H	445	445	445	480	480	480	670	670	740
		B	176	176	176	176	176	176	200	200	200
重量(~kg) Weight(~kg)			26	26	26	37	37	42	72	90	114
导压管接头螺纹 The Joint Thread of Connecting Pipe			M16 x 1.5								



气动闸阀系列  
Pneumatic Gate Valve Series



技术规范 Technique norm

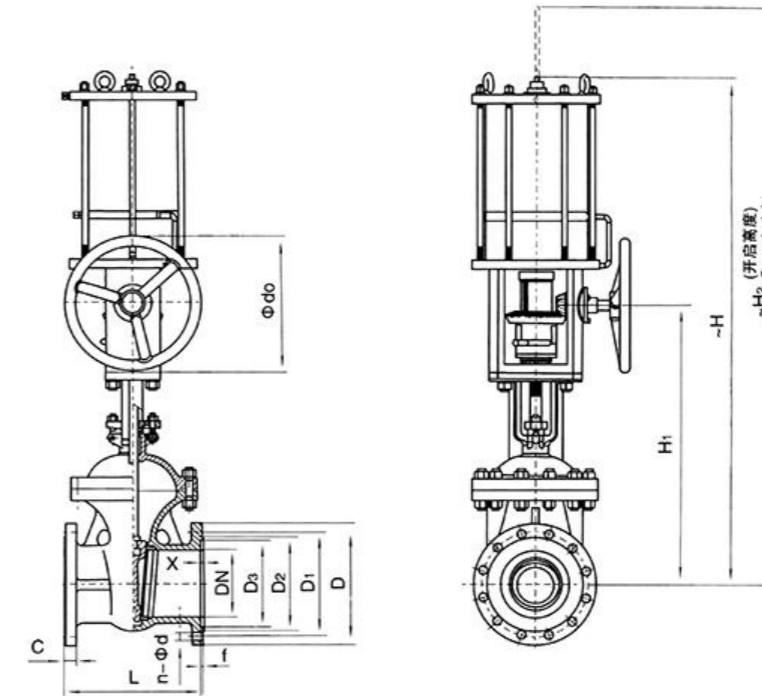
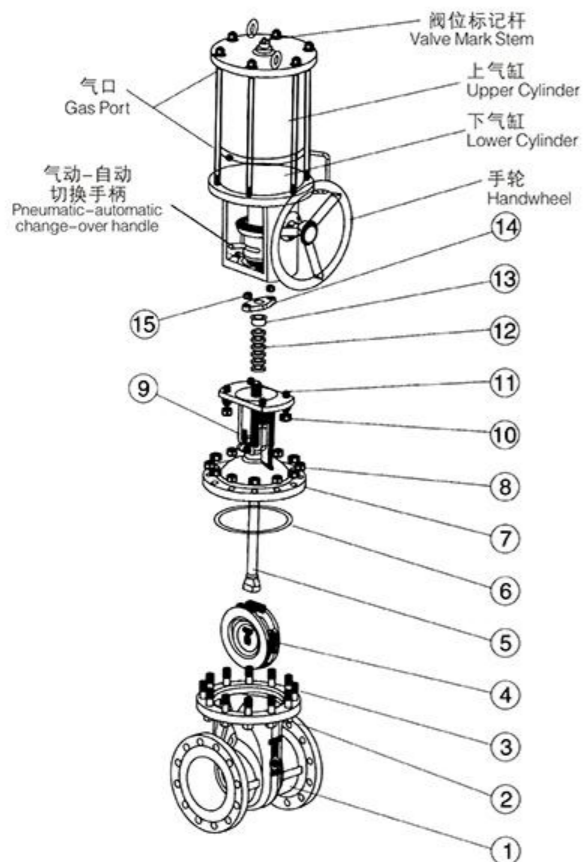
设计依据 Design Basis	GB标准 Standard	ANSI标准 Standard
设计标准 Design standards	GB/12234	ANSI B16.34
结构长度 Face to face dimension	法兰连接 Flange connecting	GB/12221 ANSI B16.10
连接法兰尺寸 Connecting Flange Size	GB/9113、JB/T79	ANSI B16.5(2~24") ANSI B16.47(28~30")
试验和检验 Test & Inspection	JB/T9092	API 598

注：闸阀结构长度及连接法兰尺寸可根据用户要求设计制造。  
Note: The structural length and connecting flange size of gate valve series can be designed and manufactured as per users' requirements.

主要零件材质表 Form of Main Parts Materials

序号 No.	零件名称 Name of parts	材质 Material		
		C	P	R
1	阀体 Body	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
2	螺帽 Screw Cap	35	304	304
3	螺栓 Screw	35	304	304
4	闸板 Shut-off Device	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
5	阀杆 Stem	1Cr13	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
6	垫片 Gasket	不锈钢+柔性石墨、PTFE Stainless Steel+Graphite、PTFE		
7	阀盖 Cover	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
8	螺帽 Bonnet	35	304	304
9	吊环螺栓 Lifting Ring Screw	35	304	304
10	螺帽 Screw Cap	35	304	304
11	螺栓 Screw	35	304	304
12	填料 Packing	柔性石墨、PTFE Graphite、PTFE		
13	填料压套 Packing Gland	WCB	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
14	填料压板 Packing Plate	WCB	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
15	螺帽 Screw Cap	35	304	304

注：闸阀主要零部件及密封阀座的材质可根据实际工况条件或用户特殊要求设计选用。  
Note: The main spare parts and sealed seat material of gate valve series can be designed for options as per users' special requirements.



主要外形及连接法兰尺寸 Z6S41(0)H(Y)-PN16(1.6MPa) Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size					连接尺寸 Connecting Size					
	L	~H	H1	~H2	Φdo	D	D1	D2	C	f	n-Φd
50	250	790	420	840	180	165	125	99	20	3	4-Φ18
80	280	910	460	990	200	200	160	132	20	3	8-Φ18
100	300	1050	560	1150	250	220	180	156	22	3	8-Φ18
150	350	1240	660	1390	320	285	240	211	24	3	8-Φ22
200	400	1520	810	1720	400	340	295	266	24	3	12-Φ22
250	450	1700	930	1950	400	405	355	319	26	3	12-Φ26
300	500	1930	1090	2230	450	460	410	370	28	4	12-Φ26
350	550	2160	1230	2510	450	520	470	429	30	4	16-Φ26
400	600	1330	1360	2730	500	580	525	480	32	4	16-Φ30
450	650	2540	1510	2990	500	640	585	548	34	4	20-Φ30
500	700	2750	1660	3210	550	715	650	609	36	4	20-Φ33
600	800	3080	1910	3680	550	840	770	720	38	5	20-Φ36
700	900	3570	2200	4270	600	910	840	794	40	5	24-Φ36
800	1000					1025	950	901	42	5	24-Φ39

注：根据不同的阀门扭矩、使用介质选配，不同的执行器型号，其相关尺寸随之变化。  
Note: The relative sizes are subject to change responding to different valve torques, mediums and actuator models.

主要外形及连接法兰尺寸 Z6S41(0)H(Y)-PN25(2.5MPa) Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size					连接尺寸 Connecting Size					
	L	~H	H <sub>1</sub>	~H <sub>2</sub>	Φ do	D	D <sub>1</sub>	D <sub>2</sub>	C	f	n-Φ d
50	250	790	420	840	180	165	125	99	20	3	4-Φ 18
80	280	910	460	990	200	200	160	132	24	3	8-Φ 18
100	300	1050	560	1150	250	235	190	156	24	3	8-Φ 22
150	350	1240	660	1390	320	300	250	211	28	3	8-Φ 26
200	400	1520	810	1720	400	360	310	274	30	3	12-Φ 26
250	450	1700	930	1950	400	425	370	330	32	3	12-Φ 30
300	500	1930	1090	2230	450	485	430	389	34	4	16-Φ 30
350	550	2160	1230	2510	450	555	490	448	38	4	16-Φ 33
400	600	2330	1360	2730	500	620	550	503	40	4	16-Φ 36
450	650	2540	1510	2990	500	670	600	548	42	4	20-Φ 36
500	700	2750	1660	3250	550	730	660	609	44	4	20-Φ 36
600	800	3080	1910	3680	550	845	770	720	46	4	20-Φ 39
700	900	3570	2200	4270	600	960	875	820	50	5	24-Φ 42
800	1000					1085	990	928	54	5	24-Φ 48

主要外形及连接法兰尺寸 Z6S41(0)H(Y)-PN40(4.0MPa) Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size					连接尺寸 Connecting Size						
	L	~H	H <sub>1</sub>	~H <sub>2</sub>	Φ do	D	D <sub>1</sub>	D <sub>2</sub>	C	D <sub>3</sub> × X	f	n-Φ d
50	250	790	420	840	180	165	125	99	20	88x4	3	4-Φ 18
80	310	910	460	990	200	200	160	132	24	121x4	3	8-Φ 18
100	350	1050	560	1150	250	235	190	156	24	150x4.5	3	8-Φ 22
150	450	1240	660	1390	320	300	250	211	28	204x4.5	3	8-Φ 26
200	550	1520	810	1720	400	375	320	284	34	260x4.5	3	12-Φ 30
250	650	1700	930	1950	400	450	385	315	38	313x4.5	3	12-Φ 33
300	750	1930	1090	2230	450	515	450	409	42	364x4.5	4	16-Φ 33
350	850	2160	1230	2510	450	580	510	465	46	422x5	4	16-Φ 36
400	950	2330	1360	2730	500	660	585	535	50	474x5	4	16-Φ 39
450	1050	2540	1510	2990	500	685	610	560	50	524x5	4	20-Φ 39
500	1150	2750	1660	3250	550	755	670	615	52	576x5	4	20-Φ 42
600	1350	3080	1910	3680	550	890	795	735	60	676x5	5	20-Φ 48

注：根据不同的阀门扭矩、使用介质选配，不同的执行器型号，其相关尺寸随之变化  
Note: The relative sizes are subject to change responding to different valve torques, mediums and actuator models.

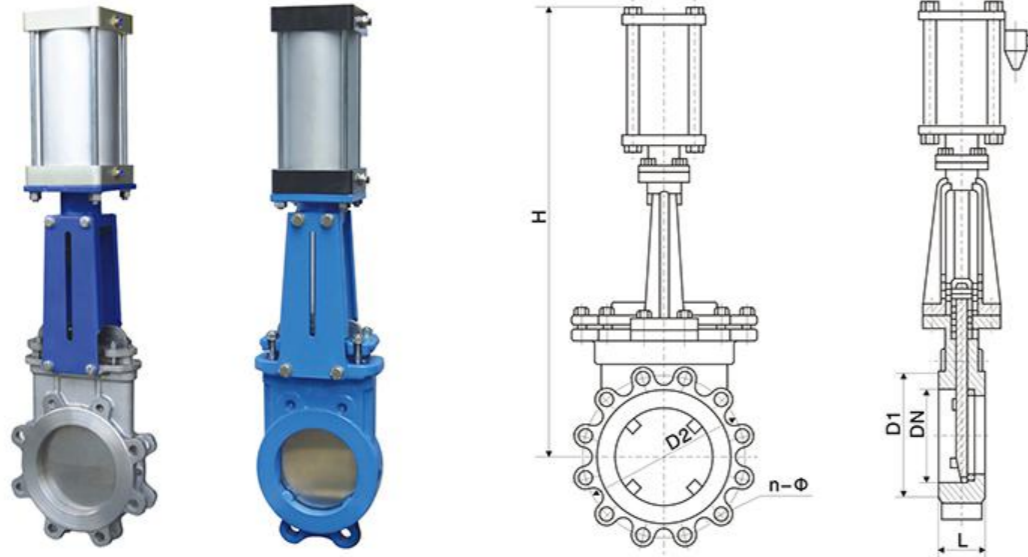
主要外形及连接法兰尺寸 Z6S41(0)H(Y)-Class 150 Main Outline and Connecting Flange Size

公称通径 Nominal diameter		外形尺寸 Outline Size					连接尺寸 Connecting Size					
DN	in	L	~H	H <sub>1</sub>	~H <sub>2</sub>	Φ do	D	D <sub>1</sub>	D <sub>2</sub>	C	f	n-Φ d
50	2	178	790	420	840	180	152	120.5	92	16	2	4-Φ 19
80	3	203	910	460	990	200	190	152.5	127	19	2	4-Φ 19
100	4	229	1050	560	1150	250	229	190.5	157	24	2	8-Φ 19
150	6	267	1240	660	1390	320	279	241.5	216	26	2	8-Φ 22
200	8	292	1520	810	1720	400	343	298.5	270	29	2	8-Φ 22
250	10	330	1700	930	1950	400	406	362	324	31	2	12-Φ 25
300	12	256	1930	1090	2230	450	483	432	381	32	2	12-Φ 25
350	14	381	2160	1230	2510	450	533	476	413	35	2	12-Φ 29
400	16	406	2330	1360	2730	500	597	540	470	37	2	16-Φ 29
450	18	432	2540	1510	2990	500	635	578	533	40	2	16-Φ 32
500	20	457	2750	1660	3250	550	699	635	584	43	2	20-Φ 32
600	24	508	3080	1910	3680	550	813	749.5	692	48	2	20-Φ 35
700	28	610	3570	2200	4270	600	947	863.6	800	45	2	28-Φ 35
800	32	660					1060	978	914	46	2	28-Φ 41

主要外形及连接法兰尺寸 Z6S41(0)H(Y)-Class 300 Main Outline and Connecting Flange Size

公称通径 Nominal diameter		外形尺寸 Outline Size					连接尺寸 Connecting Size					
DN	in	L	~H	H <sub>1</sub>	~H <sub>2</sub>	Φ do	D	D <sub>1</sub>	D <sub>2</sub>	C	f	n-Φ d
50	2	216	790	420	840	180	165	127	92	23	2	8-Φ 19
80	3	283	910	460	990	200	210	168.5	127	29	2	8-Φ 22
100	4	305	1050	560	1150	250	254	200	157	32	2	8-Φ 22
150	6	403	1240	660	1390	320	318	270	216	37	2	12-Φ 22
200	8	419	1520	810	1720	400	381	330	270	42	2	12-Φ 25
250	10	457	1700	930	1950	400	445	387.5	324	48	2	16-Φ 29
300	12	502	1930	1090	2230	450	521	451	381	51	2	16-Φ 32
350	14	762	2160	1230	2510	450	584	514.5	413	54	2	20-Φ 32
400	16	838	2330	1360	2730	500	648	571.5	470	58	2	20-Φ 35
450	18	914	2540	1510	2990	500	711	628.5	533	61	2	24-Φ 35
500	20	991	2750	1660	3250	550	775	686	584	64	2	24-Φ 35
600	24	1143	3080	1910	3680	550	914	813	692	70	2	24-Φ 41
700	28						1035	940	800	89	2	28-Φ 45
800	32						1149	1054	914	103	2	28-Φ 51

注：根据不同的阀门扭矩、使用介质选配，不同的执行器型号，其相关尺寸随之变化  
Note: The relative sizes are subject to change responding to different valve torques, mediums and actuator models.



主要外形及连接法兰尺寸 PZ643(H、X、F)-PN6/10(0.6/1.0MPa)

MPa	DN	L	D1	D2	H	n-m	MPa	DN	L	D1	D2	H	n-m
0.6	50	50	90	110	335	4-M12	1.0	50	50	100	125	335	4-M16
	65	50	110	130	363	4-M12		65	50	120	145	363	4-M16
	80	50	125	150	395	4-M16		80	50	135	160	395	4-M16
	100	50	145	170	465	4-M16		100	50	155	180	465	8-M16
	125	50	175	200	530	8-M16		125	50	185	210	530	8-M16
	150	60	200	225	630	8-M16		150	60	210	240	630	8-M20
	200	60	255	280	750	8-M16		200	60	265	295	750	8-M20
	250	70	310	335	900	12-M16		250	70	320	350	900	12-M20
	300	80	362	395	1120	12-M20		300	80	368	400	1120	12-M20
	350	90	412	445	1260	12-M20		350	90	428	460	1260	16-M20
	400	100	462	495	1450	16-M20		400	100	482	515	1450	16-M22
	450	100	518	550	1600	16-M20		450	100	532	565	1600	20-M22
	500	110	568	600	1800	16-M20		500	110	585	620	1800	20-M22
	600	130	670	705	2300	20-M22		600	130	685	725	2300	20-M27
700	160	775	810	2500	24-M22	700	160	800	840	2500	24-M27		
800	160	880	920	2800	24-M27	800	160	898	950	2800	24-M30		
900	160	980	1020	3100	24-M27	900	160	1005	1050	3100	28-M30		
1000	180	1080	1120	3400	28-M27	1000	180	1115	1160	3400	28-M30		
1200	200	1295	1340	3600	32-M30	1200	200	1325	1380	3600	32-M36		



气动截止阀系列  
Pneumatic Globe Valve Series

技术规范 Technique norm

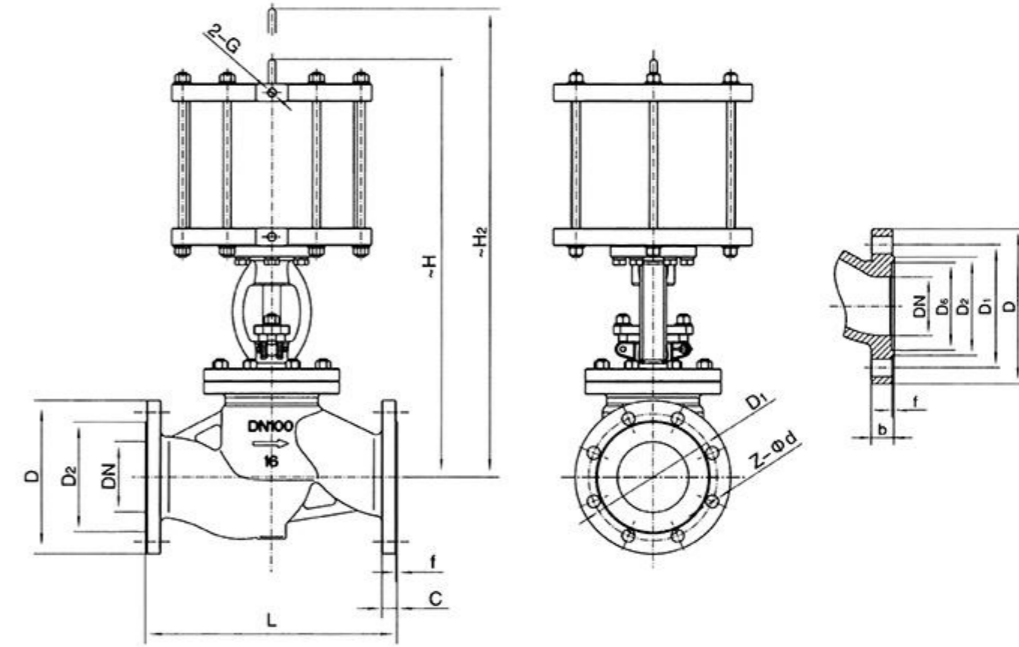
设计依据 Design Basis	GB标准 Standard
设计标准 Design standards	GB/12233
结构长度 Face to face dimension	法兰连接 Flange connecting
连接法兰尺寸 Connecting Flange Size	GB/9113, JB/T79
试验和检验 Test & Inspection	GB/T13927, JB/T9092

注：截止阀结构长度及连接法兰尺寸可根据用户要求设计制造。  
Note: The structural length and connecting flange size of globe valve series can be designed and manufactured as per users' requirements.

主要零件材质表 Form of Main Parts Materials

序号 No.	零件名称 Name of parts	材质 Material		
		C	P	R
1	阀体 Body	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
2	垫片 Gasket	柔性石墨+不锈钢 Graphite+Stainless Steel	PTFE	PTFE
3	螺栓 Screw	35	304	304
4	阀瓣 Disc	WCB+堆焊304 或stellite、PTFE	ZG1Cr18Ni9Ti PTFE	ZG1Cr18Ni12Mo2Ti PTFE
5	对开环 Split ring	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
6	阀瓣盖 Disc cover	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
7	阀杆 Stem	2Cr13	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
8	螺帽 Screw Cap	35	304	304
9	吊环螺栓 Lifting Ring Screw	35	304	304
10	阀盖 Bonnet	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
11	螺栓 Screw	35	304	304
12	垫片 Gasket	35	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
13	填料 Packing	柔性石墨 Graphite	PTFE	PTFE
14	填料压板 Packing Plate	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
15	螺帽 Screw Cap	35	304	304

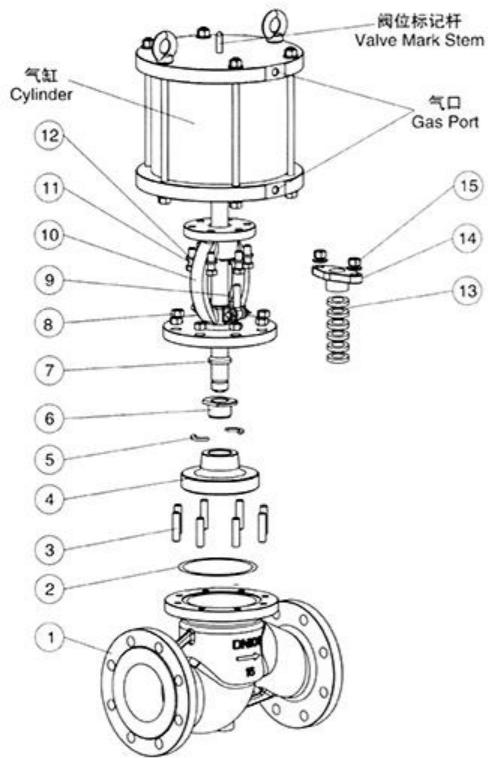
注：截止阀主要零部件及密封座座的材质可根据实际工况条件或用户特殊要求设计选用。  
Note: The main spare parts and sealed seat material of globe valve series can be designed for options as per users' special requirements.



主要外形及连接法兰尺寸 J641H(W、F、Y)-16C/P/R Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size		连接法兰尺寸 Connecting Flange Size							气源接口 Air Source Interface
	L	~H	D	D <sub>1</sub>	D <sub>2</sub>	C	f	N	Φd	
15	130	291	95	65	46	14	2	4	14	1/4"
20	150	300	105	75	56	16	2	4	14	
25	160	353	115	85	65	16	2	4	14	
32	180	390	140	100	76	18	2	4	18	
40	200	518	150	110	84	18	3	4	18	
50	230	555	165	125	99	20	3	4	18	
65	290	630	185	145	118	20	3	4	18	3/8"
80	310	683	200	160	132	20	3	8	18	
100	350	745	220	180	156	22	3	8	18	
125	400	855	250	210	184	22	3	8	18	
150	480	870	285	240	211	24	3	8	22	
200	600	954	340	295	266	24	3	12	22	
250	730	1065	405	355	319	26	3	12	26	
300	850	1185	460	410	370	28	4	12	26	

注：根据不同的阀门扭矩、使用介质选配，不同的执行器型号，其相关尺寸随之变化。  
Note: The relative sizes are subject to change responding to different valve torques, mediums and actuator models.



主要外形及连接法兰尺寸 J641H(W、F、Y)-25C/P/R Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size		连接法兰尺寸 Connecting Flange Size							气源接口 Air Source Interface
	L	~H	D	D <sub>1</sub>	D <sub>2</sub>	C	f	N	Φd	
15	130	291	95	65	46	14	2	4	14	1/4"
20	150	300	105	75	56	16	2	4	14	
25	160	353	115	85	65	16	2	4	14	
32	180	390	140	100	76	18	2	4	18	
40	200	518	150	110	84	18	3	4	18	
50	230	555	165	125	99	20	3	4	18	
65	290	630	185	145	118	22	3	8	18	
80	310	683	200	160	132	24	3	8	18	
100	350	745	235	190	156	24	3	8	22	
125	400	855	270	220	184	26	3	8	26	
150	480	870	300	250	211	28	3	8	26	3/8"
200	600	954	360	310	274	30	3	12	26	
250	730	1065	425	370	330	32	3	12	30	
300	850	1185	485	430	389	34	4	16	30	

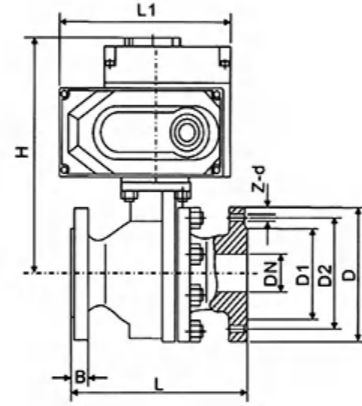
主要外形及连接法兰尺寸 J641H(W、F、X)-40C/P/R Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size		连接法兰尺寸 Connecting Flange Size									气源接口 Air Source Interface
	L	~H	D	D <sub>1</sub>	D <sub>2</sub>	C	f	N	Φd	D <sub>3</sub>	X	
15	130	305	95	65	46	14	2	4	14	40	4	1/4"
20	150	316	105	75	56	16	2	4	14	51	4	
25	160	373	115	85	65	16	2	4	14	58	4	
32	180	416	140	100	76	18	2	4	18	66	4	
40	200	530	150	110	84	18	3	4	18	76	4	
50	230	575	165	125	99	20	3	4	18	88	4	
65	290	656	185	145	118	22	3	8	18	110	4	
80	310	713	200	160	132	24	3	8	18	121	4	
100	350	775	235	190	156	24	3	8	22	150	4.5	
125	400	892	270	220	184	26	3	8	26	176	4.5	
150	480	940	300	250	211	28	3	8	26	204	4.5	3/8"
200	600	1054	375	320	284	34	3	12	30	260	4.5	
250	730	1115	450	385	345	38	3	12	33	313	4.5	
300	850	1235	515	450	409	42	4	16	33	364	4.5	

注：根据不同的阀门扭矩、使用介质选配，不同的执行器型号，其相关尺寸随之变化  
Note: The relative sizes are subject to change responding to different valve torques, mediums and actuator models.



电动阀门系列  
Electric Valve Series



产品概述 Product Overview

电动球阀是一种转角90°的旋转类球阀，密封性能优良，流通能力大，流阻系数小，结构简单、维修方便、使用寿命长，阀体通道和连接管径相等并成一径，介质几个可以毫无损失的流过。配用GMT、GMTQT等高性能执行机构，产品通常用于密封要求严格的场合，除控制气体、液体、蒸汽介质外，还适宜控制污水和含有纤维性杂质的介质，广泛用于石油、化工、冶金、轻工、造纸、电站、制冷等工作领域。

An electric ball valve is a kind of rotating type ball valve with rotary angle of 90° and features good sealing performance, large flow capacity, small flow resistance coefficient, simple structure, convenient maintenance and long service life. Valve body passage is equal to connecting pipe diameter in size and medium can almost flow through it with no loss. It is used together with a GMT/GMTQT high performance actuator. Such products are usually used on applications with strict sealing requirements. Besides control of gas, liquid and steam medium, they are also suitable for control of sewage and medium containing fibrous impurities. They are widely used in petroleum, chemical industry, metallurgy, light industry, paper making, power plant, refrigeration, and other work fields.

阀门技术参数 Valve Technical Parameters

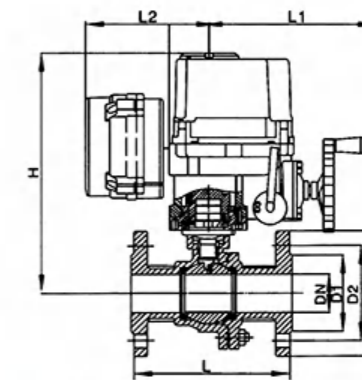
公称通径 Nominal diameter (mm)	DN15~DN400(mm)
公称压力 Nominal pressure (MPa)	1.0、1.6、2.5、4.0、6.4MPa
适用介质 Applicable medium	水、石油、硝酸类、醋酸类、粘性流体、浆料、强氧化性介质等。 Water, petroleum, nitric acid, acetic acid, viscous fluid, paste, strong oxidizing medium, etc.
介质温度 Medium temperature	-40℃~+180℃ -40℃~+350℃
泄漏量 Leakage	0符合ANSI B16.104 5级标准
球体转角 Rotating angle of ball	90°
阀体材质 Valve body material	A105、F304、F316、WCB、FZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、CF8、CF8M、CF3M
阀座材料 Seat material	聚四氟乙烯(常温)、特制PPL(高温)、金属密封(高温) PTFE (room temperature), special PPL (high temperature), metal seal (high temperature)

主要连接尺寸 Main Connection Dimensions

公称通径 Nominal diameter DN(mm)	尺寸 Size (mm)								执行机构选配(常温常压) Optional actuator (atmospheric pressure and normal pressure)	
	L	D	D2	D1	B	H	L1	Z-d		
15	130	95	65	45	14	176	161	4-14	GMT-005	GMTQT-010
20	140	105	75	55	14	180	161	4-14	GMT-005	GMTQT-010
25	150	115	85	65	14	182	161	4-14	GMT-005	GMTQT-010
32	165	135	100	78	16	188	161	4-18	GMT-010	GMTQT-010
40	180	145	110	85	16	198	161	4-18	GMT-010	GMTQT-010
50	200	160	125	100	16	203	161	4-18	GMT-016	GMTQT-010
65	200	180	145	120	18	222	188	4-18	GMT-016	GMTQT-015
80	250	195	160	135	20	237	188	8-18	GMT-020	GMTQT-020
100	280	215	180	155	20	281	268	8-18	GMT-040	GMTQT-030
125	320	245	210	185	22	300	268	8-18	GMT-060	GMTQT-040
150	360	280	240	210	24	300	268	8-23	GMT-100	GMTQT-080
200	400	335	295	265	26	368	268	12-23	GMT-100	GMTQT-120
250	533	405	335	320	30	418	268	12-25	GMT-200	GMTQT-200

注：以上选配参数仅供参考，具体以实际情况为准。

Note: The above optional parameters are only for reference. Specific actual conditions shall prevail.



虚线部分为模拟量控制盒，开关型无此尺寸  
The dashed part is analog quantity control box;  
for type switch, there is no size for this.

产品概述 Product Overview

电动防爆球阀是一种球体绕垂直于通道轴旋转90°的阀门，其由回转型防爆角行程电动执行器和O型阀结构组成，属旋转类型高性能调节或开关阀类，接受工业自动化控制(DCS、PLC系统)仪表来源的电流信息或电压信息的输入输出，可实现对工艺管路中流体介质的比例调节或二位开关控制，从而达到对流体介质的流量、压力、温度、液位等参数的自动化控制。

An electric explosion-proof ball valve is a kind of valve where the ball rotates by 90° while perpendicular to the passage axis. It consists of rotary type explosion-proof angular travel electric actuator and O-shaped valve structure. It belongs to rotating type high performance regulating or switching valve category. It accepts input and output current or voltage information from industrial automation control (DCS, PLC system) instruments. It can realize proportion regulating or two-switch control for fluid medium in process pipeline. Thus, it can realize automatic control on fluid medium parameters such as flow rate, pressure, temperature and liquid level.

阀门技术参数 Valve Technical Parameters

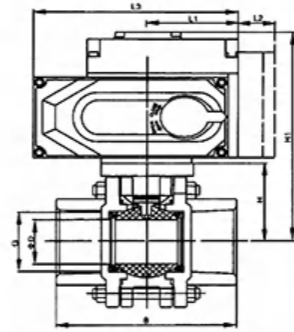
公称通径 Nominal diameter (mm)	DN15~DN400(mm)
公称压力 Nominal pressure (MPa)	1.0、1.6、2.5、4.0、6.4MPa
适用介质 Applicable medium	水、石油、硝酸类、醋酸类、粘性流体、浆料、强氧化性介质等。 Water, petroleum, nitric acid, acetic acid, viscous fluid, paste, strong oxidizing medium, etc.
介质温度 Medium temperature	-40℃~+180℃ -40℃~+350℃
泄漏量 Leakage	0符合ANSI B16.104 5级标准
球体转角 Rotating angle of ball	90°
阀体材质 Valve body material	A105、F304、F316、WCB、FZG1Cr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、CF8、CF8M、CF3M
阀体材料 Seat material	聚四氟乙烯(常温)、特制PPL(高温)、金属密封(高温) PTFE (room temperature), special PPL (high temperature), metal seal (high temperature)

主要连接尺寸 Main Connection Dimensions

公称通径 Nominal diameter DN(mm)	尺寸 Size(mm)								执行机构选配(常温常压) Optional actuator (atmospheric pressure and normal pressure)
	L	D	D2	D1	L2	H	L1	Z-d	
15	130	95	65	45	136.5	284	216	4-14	GMTQT-010
20	140	105	75	55	136.5	284	216	4-14	GMTQT-010
25	150	115	85	65	136.5	284	216	4-14	GMTQT-010
32	165	135	100	78	136.5	284	216	4-18	GMTQT-010
40	180	145	110	85	136.5	284	216	4-18	GMTQT-010
50	200	160	125	100	136.5	284	216	4-18	GMTQT-010
65	220	180	145	120	136.5	328	216	4-18	GMTQT-015
80	250	195	160	135	140	380	270	8-18	GMTQT-020
100	280	215	180	155	140	387	270	8-18	GMTQT-030
125	320	245	210	185	140	426	276	8-18	GMTQT-040
150	360	280	240	210	140	458	290	8-23	GMTQT-080
200	400	335	295	265	140	698	290	12-23	GMTQT-120
250	433	405	335	320	140	780	290	12-25	GMTQT-200

注：以上选配参数仅供参考，具体以实际情况为准。

Note: The above optional parameters are only for reference. Specific actual conditions shall prevail.



虚线部分为模拟量控制盒，开关型无此尺寸  
The dashed part is analog quantity control box; for type switch, there is no size for this.

产品概述 Product Overview

电动三片式球阀采用一体化结构，与GMT或GMTQT电动执行机构相配，有输入控制信号(4~20mADC或1~5VDC)及单相电源即可控制运转，具有功能强、体积小、轻便易人、性能可靠、配套简单、流通能力大、特别适合于介质是粘稠，含颗粒，纤维性质的场合。目前该阀广泛应用于食品、环保、轻工、石油、造纸、化工、教学和科研设备、电力等行业的工业自动化控制系统中。

An electric three-piece ball valve adopts an integration structure. It is used together with a GMT or GMTQT electric actuator. After inputting control signals (4~20mADC or 1~5 VDC) and single phase power supply, it can control operation. With powerful function, small size, light weight, reliable performance, simple configuration, large flow capacity, it is especially suitable for applications having viscous medium, particles and fibers. At present, this valve is widely used in industrial automatic control systems of food, environmental protection, light industry, petroleum, paper making, chemical industry, teaching and scientific research equipment and electric power industry.

阀门技术参数 Valve Technical Parameters

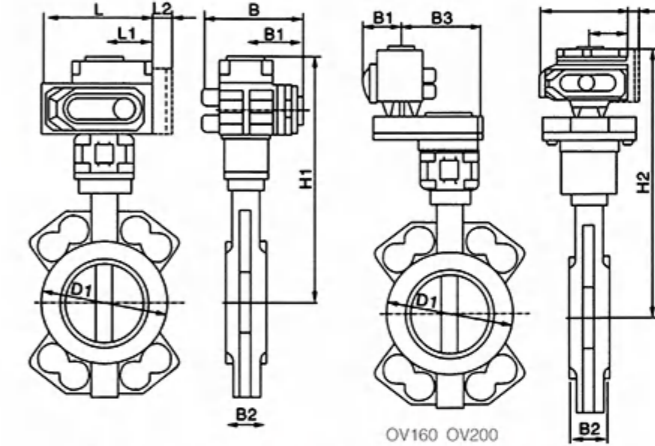
公称口径 Nominal diameter (mm)	DN10~100mm		公称压力 Nominal pressure	PN1.6 2.5 4.0 6.4 31.5MPa(定制)			
连接方式 Connection method	内螺纹连接 Female connection			对焊连接 Butt welding			
零件名称 Part name	阀体、阀盖 Valve body, cover	WCB	CF8(304)	CF8M(316)	WCB	CF8(304)	CF8M(316)
	球体、阀杆 Ball body, valve stem	2Cr13	0Cr19Ni9	0Cr17Ni12Mo2	2Cr13	0Cr19Ni9	0Cr17Ni12Mo2
	密封圈、填料 Sealing ring, packing	增强聚四氟乙烯、对位聚苯 Enhanced PTFE, PPL					
适用工况 The suitable operating mode	适用介质 Applicable medium	水、蒸汽、油品等 Water, steam, oil etc.	硝酸等腐蚀性介质 Corrosive medium, like nitric acid	醋酸等腐蚀性介质 Acetic acid and other corrosive medium	水、蒸汽、油品等 Water, steam, oil etc.	硝酸等腐蚀性介质 Corrosive medium, like nitric acid	醋酸等腐蚀性介质 Acetic acid and other corrosive medium
	适用温度 Suitable temperature	-29°C~+180°C(增强聚四氟乙烯 Enhanced PTFE)、-29°C~300°C(对位聚苯 PPL)					

主要连接尺寸 Main Connection Dimensions

G	ΦD	B	H1	H	L1	L2	L3	执行机构选配 Optional actuator	
1/4"	11.2	60	148	42	50	40	123	SZ-005	SZQT-10
3/8"	12.5	60	148	42	50	40	123	GMT-005	GMTQT-010
1/2"	15	72	148	42	50	40	123	GMT-005	GMTQT-010
3/4"	20	82	148	48.5	50	40	123	GMT-010	GMTQT-010
1"	25	90	164	58.5	50	40	123	GMT-010	GMTQT-010
1 1/4"	32	112	184	63	65	40	160	GMT-016	GMTQT-010
1 1/2"	38	120	195	71	65	40	160	GMT-016	GMTQT-015
2"	50	145	197.1	78	82	40	189	GMT-020	GMTQT-020
2 1/2"	65	185	222.5	100	82	40	189	GMT-040	GMTQT-030
3"	76	210	233	109	82	40	189	GMT-060	GMTQT-040
4"	100	268	241	140	116	40	266	GMT-100	GMTQT-080

注：以上选配参数仅供参考，具体以实际情况为准。

Note: The above optional parameters are only for reference. Specific actual conditions shall prevail.



安装尺寸(单位: mm) (虚线部分为模拟量控制盒，开关型无此尺寸)  
Installation size (Units: mm) (The dashed part is analog quantity control box; for type switch, there is no size for this).

产品概述 Product Overview

电动中线蝶阀是由蝶阀与GMT或GMTQT系列执行机构配套，输入控制信号(4~20mA或1~5VDC)及单相电源即可控制运转，电动蝶阀具有功能强、体积小、轻便易人，性能可靠、配套简单、流通能力大，电动蝶阀特别是适合于介质是粘稠、含颗粒、纤维性质的场合。目前该电动调节蝶阀广泛应用于食品、环保、轻工、石油、造纸、化工、教学和科研设备、电力等行业的工业自动化控制系统中。

An electric centerline-type butterfly valve is used together with a GMT or GMTQT series actuator. After inputting control signals (4~20mA or 1~5 VDC) and single phase power supply, it can control operation. With powerful function, small size, light weight, reliable performance, simple configuration, large flow capacity, it is especially suitable for applications having viscous medium, particles and fibers. At present, this valve is widely used in industrial automatic control systems of food, environmental protection, light industry, petroleum, paper making, chemical industry, teaching and scientific research equipment and electric power industry.

阀体 Body

公称口径: 50~400mm  
公称压力: PN1.0, 1.6, 2.5MPa  
连接形式: 对夹式连接, 法兰式连接  
材料: HT200 ZG251 ZG1Cr18Ni9 ZG0Cr17Ni12Mo2 衬四氟  
介质温度: 常温型: -20°C~+200°C 散热型: -40°C~+450°C  
适用介质: 淡水、海水、食品、天然气、醇类、盐类、酸、碱、油、蒸汽、空气等  
Nominal diameter: 50~400mm  
Nominal pressure: PN1.0, 1.6, 2.5MPa  
Connection type: Double-clip type connection, flange connection  
Material: HT200 ZG251 ZG1Cr18Ni9 ZG0Cr17Ni12Mo2 PTFE lined  
Medium temperature: Room temperature type: -20°C~+200°C  
Heat dissipation type: -40°C~+450°C  
Applicable medium: Fresh water, sea water, food, natural gas, alcohol, salt, acid, alkali, oil, vapor, air, etc.

密封适用介质，温度推荐表 Application of medium temperature sealing, recommendation form

	密封材质 Seal material	适用温度 Suitable temperature	介质类型及适用程度 Medium type and applicability												突出特性 Outstanding features	
			淡水 Fresh water	海水 Sea water	盐类 Salt	强碱 Strong alkali	弱碱 Alkali	强酸 Acid	弱酸 Weak acid	天然气 Natural gas	醇类 Alcohol	空气 Air	蒸汽 Vapor	油类 Oil		食品 Food
阀座 Seat	丁腈 Nitrile	-12°C~+85°C	A	A	A	B	A	D	B	A	C	A	D	A	B	耐油 Oil resistant
	三元乙丙 Epdm	-35°C~+135°C	A	A	A	A	A	C	A	B	B	A	A	C	A	耐老化 Resistance to aging
	耐腐蚀三元乙丙 Corrosion resistant epdm	-35°C~+160°C	A	A	A	A	A	A	B	B	A	A	C	A	A	耐腐蚀、耐老化 Corrosion resistance, aging resistance
蝶板 Butterfly plate	氟橡胶 Fluorine rubber	-23°C~+135°C	A	A	A	C	A	C	A	A	C	A	A	A	A	耐高温、耐腐蚀 High temperature resistant, corrosion resistant
	聚四氟乙烯 PTFE	-10°C~+150°C	A	A	A	A	A	A	A	A	A	A	A	A	A	耐腐蚀、耐高温 corrosion resistant, high temperature resistance
	球铁电镀 Ductile iron electroplating	-30°C~+350°C	B	D	C	D	C	D	C	B	A	B	A	A	C	耐热 Heat resistant
	球铁尼龙覆层 Ductile iron nylon coating	-30°C~+100°C	A	A	A	A	A	D	A	A	C	A	D	A	A	抗蚀、耐磨、减摩 Corrosion resistance, wear resistance and antifriction
	铝青铜 Aluminum bronze	-273°C~+232°C	A	B	C	D	C	D	B	A	A	A	A	C	耐热、耐腐蚀 Heat resistance, corrosion resistance	
	不锈钢 Stainless steel	-273°C~+316°C	A	B	C	C	B	C	A	A	A	A	A	A	耐高温、耐腐蚀 High temperature resistant, corrosion resistant	

A非常适用 A very suitable B适用 Applicable to B C有限适用 C limited application D不适用 D is not applicable to

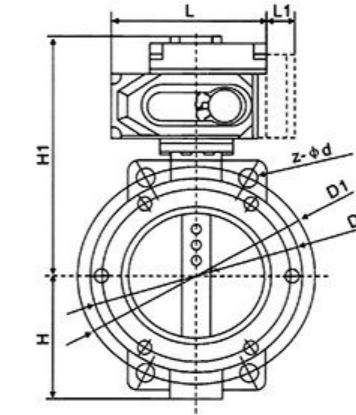
阀内组件可选材料 The inner valve assembly optional material

主要零部件 Main parts	材质 Material	适用规格 Applicable Size	主要零部件 Main parts	材质 Material	适用规格 Applicable Size
阀体 Body	球墨铸铁 Nodular cast iron	50mm~300mm	阀杆 Stem	不锈钢 Stainless Steel 416	50mm~300mm
	灰铸铁 Gray cast iron	50mm~300mm		不锈钢 Stainless Steel 316	
	铸钢 Cast steel	50mm~300mm		不锈钢 Stainless Steel 304	
	不锈钢 Stainless steel	50mm~300mm		碳钢镀镍磷 Nickel-phosphate plating for carbon steel	
	不锈钢 Stainless steel	50mm~300mm			
阀板 Disc	不锈钢 Stainless Steel CF8	50mm~300mm	阀座 Seat	乙丙橡胶 EPDM Ethylene propylene rubber	50mm~300mm
	不锈钢 Stainless Steel CF8M			氟橡胶 VITON Fluorine rubber	
	球墨铸铁镀镍磷 Nickel-phosphate plating for ductile iron			硅橡胶 SEP Silicone rubber	
	球墨铸铁覆尼龙 Nylon coating for ductile iron			耐热 EPDM Heat resistant	
	铝青铜 Aluminum bronze			耐磨 EPDM Wear resistant	

主要连接尺寸 Main connection dimensions

直径 Diameter	L	L1	L2	B	B1	B2	H2	D1	执行机构选配(常温常压) Optional actuator (atmospheric pressure and normal pressure)	
50	161	71.5	40	120.5	62	42.6	297	92	GMT-005	GMTQT-010
65	161	71.5	40	120.5	62	45.6	310	106	GMT-005	GMTQT-010
80	161	71.5	40	120.5	62	45.6	331	122	GMT-010	GMTQT-010
100	188	71.5	40	120.5	62	51.6	348	150	GMT-010	GMTQT-010
125	268	81	40	165	75	55.6	428	177	GMT-016	GMTQT-010
150	268	117	40	268	119	55.6	447	204	GMT-020	GMTQT-020
200	268	117	40	268	119	59.6	481	260	GMT-040	GMTQT-040
250	268	117	40	268	119	67.6	520	314	GMT-060	GMTQT-060
300	268	117	40	268	119	77.6	548	370	GMT-080	GMTQT-080
350	268	117	40	268	119	79	583	422	GMT-100	GMTQT-120
400	268	117	40	268	119	105	615	473	GMT-200	GMTQT-200

注：以上选配参数仅供参考，具体以实际情况为准。  
Note: The above optional parameters are only for reference, Specific actual conditions shall prevail.



产品概述 Product overview

采用精密的U形弹性密封圈和三偏心多层次金属硬密封结构，被广泛用于介质温度≤425℃的冶金、电力、石油化工、以及给排水和市政建设等工业管道上，作调节流量和截断流体使用。该阀采用三偏心结构，阀座与蝶板密封面均采用铸钢和不锈钢制作，具有良好的耐腐蚀性，使用寿命长，本阀均有双向密封功能，产品符合国家GB/T13927-92阀门压力试验标准。

It uses precision U-shaped elastic sealing ring and triple eccentric multi-level metal hard sealed structure. It is widely used in industrial pipelines with medium temperature ≤425℃ in metallurgy, electric power, petrochemical industry, water supply and drainage, and municipal construction, to adjust flow rate and cut off fluid. Triple eccentric structure is used in the valve. Sealing surfaces of the valve seat and butterfly plate are made of cast steel and stainless steel. With good corrosion resistance, it has a long service life. This valve has the two-way sealing function. The product complies with GB/T13927-92 valve pressure test standard.

阀门技术参数 Valve technical parameters

公称直径 Nominal diameter(mm)	50~600			
公称压力 Nominal pressure(MPa)	1.0	1.6		
公称压力 Nominal pressure (MPa)	强度试验 Strength test	1.5	2.4	
	密封试验 Sealing test	1.1	4.76	
材料/材料代号 Material/material code	C	P	R	
主要零件 Main parts	阀体 Body	WCB	ZG1Cr18Ni9Ti	ZG0Cr18Ni12Mo2Ti
	蝶板 Butterfly plate	WCB	ZG1Cr18Ni9Ti	ZG0Cr18Ni12Mo2Ti
	阀杆 Stem	2Cr13	1Cr18Ni9Ti	0Cr18Ni12Mo2Ti
	密封圈 Sealing ring	四氟、不锈钢 High temperature, Stainless steel		
	填料 Packing	四氟、柔性石墨 High temperature, Flexible graphite		
适用工况 The suitable operating mode	适用介质 Applicable medium	水、蒸汽、油品 Water, steam, oil	硝酸类 Nitrate class	醋酸类 Acetic acid class
	适用温度 Suitable temperature	碳钢 Carbon steel: -29°C+425°C 不锈钢 Stainless steel: -40°C~+600°C		

主要连接尺寸 Main connection dimensions

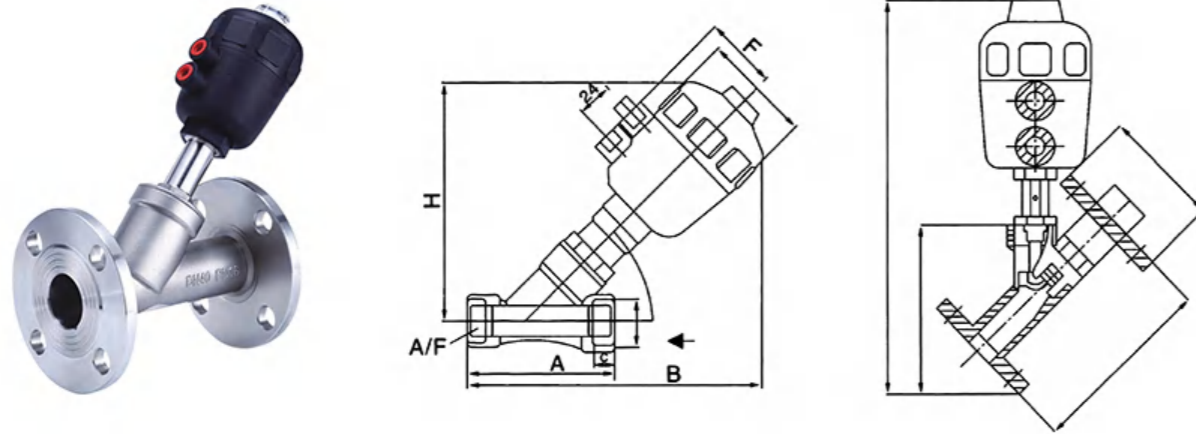
公称直径 Nominal diameter	外形尺寸 Dimension size	连接尺寸 Connection size									执行机构选配 Optional actuator	
		PN1.0MPa			PN1.6MPa							
毫米 mm	英寸 in	L	H1	H	D2	D1	ZΦ-d	D2	D1	ZΦ-d		
50	2	161	215	85	82	125	4-18	82	125	4-18	GMT-005	GMTQT-010
65	2 1/2	188	280	90	95	145	4-18	95	145	4-18	GMT-010	GMTQT-010
80	3	188	285	100	108	160	4-18	108	160	4-18	GMT-016	GMTQT-015
100	4	268	310	120	125	180	4-18	125	180	4-18	GMT-020	GMTQT-020
125	5	268	310	130	138	210	4-18	138	210	4-18	GMT-020	GMTQT-030
150	6	268	315	160	198	240	4-22	198	240	4-22	GMT-040	GMTQT-040
200	8	268	380	210	236	295	4-22	236	295	4-22	GMT-060	GMTQT-060
250	10	268	460	250	276	355	4-22	276	355	4-26	GMT-100	GMTQT-080
300	12	268	475	250	300	410	4-22	308	410	4-26	GMT-160	GMTQT-120
350	14	268	510	320	332	470	4-22	340	470	4-26	GMT-200	GMTQT-200

注：以上选配参数仅供参考，具体以实际情况为准。  
Note: The above optional parameters are only for reference, Specific actual conditions shall prevail.



气动角座阀外形图 - 法兰气动角座阀

External view on pneumatic angle seat valve - flange type pneumatic angle seat valve



技术材质参数 Technical material parameters

控制形式 Control form	直动式 Straight moving type	阀体 Body	不锈钢 Stainless steel CF8M
结构 Structure	角座阀 Angle seat valve	阀芯材料 Spool materials	不锈钢 Stainless steel
接口 Interface	G1/2-G2	阀座密封 Seat tightness	PTFE
粘度 Viscosity	600mm <sup>2</sup> /s	活塞密封 Piston seal	FKM/NBR
介质温度 Medium temperature	PTFE: -10°C~+180°C	安装 Installation	任何位置 Any location
环境温度 Environment temperature	-10°C~+60°C	控制介质 Control medium	空气中性气体蒸汽 Air neutral gas steam

POLOVO 气动角座阀零件表 POLOVO pneumatic angle seat valve parts list

名称 Name	材料 Material	名称 Name	材料 Material
阀体 Valve body	CF8M	锁紧螺母 Locknut	Hpb59-1
六角螺母 Hexagon nut	1Cr18Ni19Ti	指示杆 Indicating arm	Hpb59-1
阀芯密封垫 Valve core sealing gasket	PTFE	常闭弹簧 Normally-closed spring	65Mn-D
阀芯体 Valve core body	0Cr178Ni12Mo2	缸体 Cylinder block	CF8M
阀体密封垫 Valve body sealing gasket	FKM	顶盖 Top cover	PC
连接 Connection	CF8M	Y型圈 Y-shaped ring	FKM
阀杆 Valve rod	0Cr178Ni12Mo2	O型圈 O-shaped ring	NBR
阀杆密封套 Valve rod	PTFE	阀盖 Valve deck	CF8M
阀杆密封圈 Seal cartridge	PTFE	含油轴承 Oil bearing	
压紧密封垫 Gland sealing gasket	PTFE	垫圈 Washer	Hpb59-1
弹簧挡圈 Spring collar		活塞环 Piston ring	FKM
密封弹簧 Seal spring	65Mn-D	活塞 Piston	Hpb59-1

简单介绍 Brief introduction

法兰气动角座阀以316不锈钢为主要制造材质, 广泛用于啤酒, 纺织印染和漂白, 制药及医疗设备, 食品加工, 橡胶机械, 有机和无机化工, 清洗消毒高温灭菌, 水处理等行业, 适用于介质为水, 液体, 中性气体, 水蒸汽, 轻微腐蚀性气体及液体, 与电磁阀及其他阀门相比, 具有投资经济, 使用安全, 免维护, 寿命长的特点。

Flange type pneumatic angle seat valve is mainly made of 316 stainless steel. It is widely used in beer, textile printing and dyeing and bleaching, pharmaceutical and medical equipment, food processing, rubber machinery, organic and inorganic chemical industry, cleaning and disinfection and high-temperature sterilization, water treatment and other industries. It is applicable to media like water, liquid, neutral gas, water vapor, slightly corrosive gas and liquid. Compared with solenoid valves and other valves, it features economic investment, safe use, maintenance-free and long service life.

法兰气动角座阀的详细介绍 Detailed introduction to flange type pneumatic angle seat valve

与传统角座阀相比, 它具有以下新特点--法兰气动角座阀:

- 1、可视位置指示: 可接限位开关或紧急手动装置。
- 2、容易安装: 气动头可旋转360°, 可方便地安装一到二个限位开关。
- 3、先进的气动控制器: 加厚工程塑料外壳, 安全可靠。低磨损的活塞结构, 容量大而低耗气量。内部元件自润滑, 免维护。
- 4、具有多种控制方式: 常开、常闭、双动。
- 5、要求更小的气动执行器: 流体从阀杆上方流入时, 可选更小的控制头。
- 6、容易连接: MAMUR标准连接, 嵌入式金属接头。
- 7、长寿命导杆: 阀杆楔形特氟隆 (PTFE) 密封, 避免脏物导入。自润滑, 免维护。阀杆经特别处理以确保最佳固定, 并能自动校正位置。
- 8、无水锤作用: 流体从阀杆下方流入时, 水锤 (水冲击力) 被吸收。
- 9、先进的阀体机构: 流量比普通角座大30%, 体积更小, 流体流态更优。不锈钢316阀体, 特氟隆密封, 耐高温, 耐腐蚀。寿命高达七百万次。

Compared with the traditional angle seat valve, flange type pneumatic angle seat valve has the following new features:

1. Visual position indicaton: Able to be connected to limit switch or emergency manual device.
2. Easy-to-install: Pneumatic head can rotate by 360°. It is easy to install one or two limit switches.
3. Advanced pneumatic controller: With thickened engineering plastics shell, safe and reliable; low-wear piston structure, large capacity and low volume; internal elements are self-lubricating and maintenance-free.
4. Having a variety of control modes: Normally open, normally closed, double-acting.
5. Requiring smaller pneumatic actuators: When fluid flows in from the above of the valve stem, a smaller control head can be selected.
6. Easy-to-connect: MAMUR standard connection, embedded metal joint.
7. Guide rod with long service life: Valve rod uses a wedged Teflon (PTFE) seal to avoid incoming dirt. Self-lubricating and maintenance-free; the valve rod experiences special treatment to ensure the best fixation and it can make automatic position correction.
8. No water hammer: When fluid flows in from the underneath of valve rod, the water hammer (water impact) is absorbed.
9. Advanced valve body mechanism: Its flow is 30% larger than that of common angle seat; it has smaller volume and better fluid flow state. 316 stainless steel body, teflon sealing, high temperature resistance, corrosion resistance. Its service life is as high as seven million times.

法兰气动角座阀 数据表格 Flange type pneumatic angle seat valve-Data Sheet

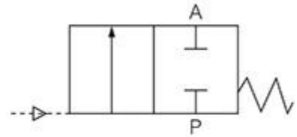
接口 Interface	内孔 mm Inner hole	执行机械 mm Perform mechanical	A	B	C	E	F	H	A/F
G1/2	13	50	85	173	12	64	44	137	27
G3/4	20	50	95	178	12	64	44	145	32
G1	25	63	105	212	14	80	52	173	41
G1 1/4	32	63	120	255	16	101	60	210	50
G1 1/2	40	63	130	301	18	127	73	260	55
G2	50	63	150	346	20	153	86	301	70
G2 1/2	65	80	185	372	22	153	86	315	70

POLOVO气动角座阀参数 Parameters for POLOVO pneumatic angle seat valve

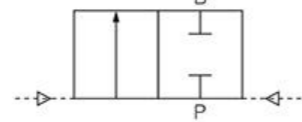
接口 Interface 英寸 inches	内孔 mm Inner hole	KV值 m <sup>3</sup> /h	最大工作压力 (bar) Maximum working pressure	要求最小气源压力 (bar) Required minimum air pressure (bar)	执行机构尺寸 mm Actuator size	流向 Flow
G3/8	13	3.7	0-16	4.0	40	阀座上方 Above of valve seat
G1/2	13	4.2	0-16	2.7	50	阀座上方 Above of valve seat
G3/4	20	8.0	0-16	2.7	50	阀座上方 Above of valve seat
G1	25	19.0	0-16	2.0	63	阀座上方 Above of valve seat
G1 1/4	32	27.5	0-16	2.0	63	阀座上方 Above of valve seat
G1 1/2	40	42.0	0-16	2.0	63	阀座上方 Above of valve seat
G2	50	52.0	0-16	2.0	63	阀座上方 Above of valve seat
G2 1/2	65	77.0	0-14	1.6	80	阀座上方 Above of valve seat

设计 Design

控制方式A: 常闭型  
Control mode: A normally closed type



控制方式B: 双作用  
Control mode: B double role



POLOVO气动角座阀外形尺寸图 Overall dimensions of POLOVO pneumatic angle seat valve

接口 Interface	内孔 Inner hole	L	D	B	H	最大压力 Maximum pressure	气源压力 Air pressure	执行器规格 Actuator specifications
G1/2	15	120	95	135	150	1.6MPa	0.4-0.7bar	50
G3/4	20	130	105	135	160			50
G1	25	140	115	135	185			63
G1 1/4	32	150	135	135	255			63
G1 1/2	40	180	145	170	340			80
G2	50	195	160	180	380			80
G2 1/2	65	230	180	190	450			100
G3	80	255	195	230	480			125

安装 Installation

安装位置: 任意 Installation location: Optional

- 在阀体外侧所附的箭头代表介质流动的方向, 安装时请遵循安装过程;
- 连接阀门到管道, 确保阀体所附箭头与流体方一致。
- 焊接式阀门安装: 焊接时请先将执行器卸离阀体。
- 螺纹式阀门安装: 可按照用户要求提前卸离或不需卸离执行器。
- The arrow attached on the outside of valve body represents the medium flowing direction. During installation, please follow the installation process:
- Connect the valve to the pipeline, to ensure that arrow attached on the valve body is consistent with fluid flowing direction.
- Welded type valve installation: During welding, the actuator shall be first removed from the valve body.
- Threaded type valve installation: Remove the actuator in advance or don't need to remove the actuator according to the user's requirements.

拆卸 Disassembly

- 拆卸前首先确保对阀门的气压作用已经解除。
- 安装前需要卸下阀体时, 避免用力过大, 轻卸。
- 拆卸后, 保护好螺纹、密封面及密封垫。
- 安装好阀体后, 装执行器部分时, 注意别漏装密封垫。
- 安装后, 检测阀体与执行器密封是否完好。确保无泄露, 方可使用。
- Prior to disassembly, ensure pressure effect on the valve has been released.
- When it is needed to remove the valve body before the installation, avoid overexertion and remove it slightly.
- After disassembly, protect threads, sealing surfaces and gaskets.
- When installing the actuator after the valve body is installed, be careful not to neglect sealing gaskets.
- After installation, check whether the valve and actuator are well sealed. It can be only used after ensuring no leakage.



法兰气动角座阀  
Flange type pneumatic angle seat valve



不锈钢头丝扣角座阀  
Stainless steel head thread angle seat valve



快装气动角座阀  
Fast-assembling pneumatic angle seat valve



气动卫生级角座阀  
Pneumatic sanitary angle seat valve

