DBV

上海东宝阀门制造有限公司

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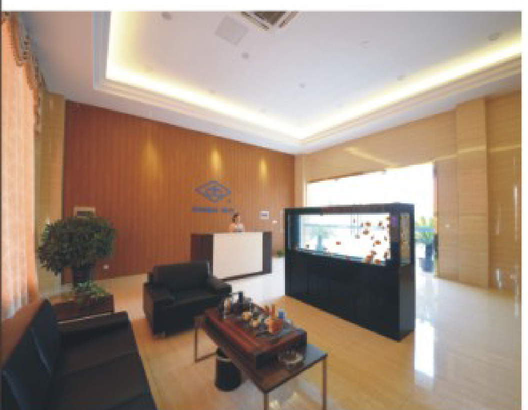
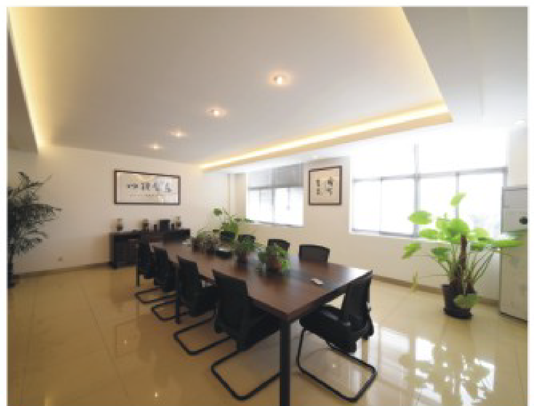
DBV

Pneumatic/Electric Automation Valves
气动/电动/自控阀门系列

上海东宝阀门制造有限公司

企业概述
Company Introduction





DBV公司成立于2001年，总部位于上海市青浦区白鹤工业园区。是集各种智能控制阀门（气动、电动、液控调节蝶阀、球阀）衬氟/衬胶阀门等工业阀门的制造、销售、服务于一体的现代化企业。公司现拥有先进的理化测试中心，专业数控加工和试验试压自动化生产装备及经验丰富的技术生产团队。工厂全方位实行以ISO质量标准体系严格控制，以确保产品质量。

DBV公司具有产品加工、制造所需的全部金属切屑设备、衬里热加工设备及产品性能检测设备。公司主要产品有衬氟蝶阀、衬氟球阀、衬氟旋塞阀、衬氟隔膜阀、衬氟截止阀、衬氟闸阀、衬氟止回阀、等各类衬氟管道和各类工程塑料阀门。目前公司生产的衬胶，衬氟阀门及工程塑料阀门产品约有十个压力等级，约1120余个型号规格，驱动方式有手动、气动、电动、蜗轮传动、齿轮传动、液动，产品设计与制造符合GB、JB以及ANSI、API、BS、DIN等国内外标准，产品应用于各类具有强腐蚀性介质的工业管路系统中做启闭装置。 产品经众多化工、医药、化肥等行业装置的使用，性能可靠，深受用户青睐。

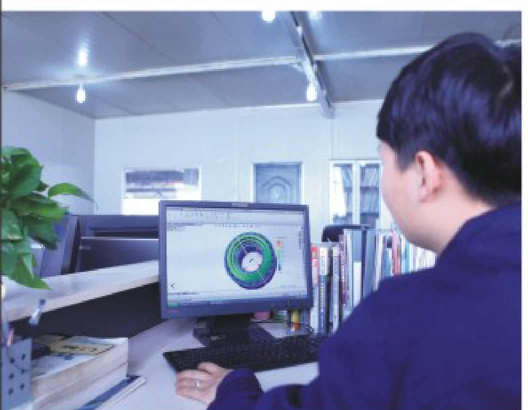
DBV公司始终坚持实施"客户至上、严守质量、技术创新"的经营理念，努力研发最前沿的核心自主技术，为客户提供可持续的产品解决方案和协同服务支持，以确保用户的经济利益得到有效保障。DBV公司具有开发更高端产品的无限潜力，并全情投入不断的科技创新与优质服务，致力成为全球最专业，最全面，最可靠的衬胶，衬氟阀门制造商之一。

DBV company was founded in 2001, the headquarters is located in the Shanghai qingpu crane industrial park. Is the collection of various intelligent control valve, pneumatic, electric and hydraulic control butterfly valve, ball valve)/rubber lining fluorine valve industrial valves, such as manufacturing, sales and service in a body's modernized enterprise. Company now has advanced physical and chemical testing center, professional CNC machining and testing pressure automatic production equipment and experienced technical production team. Factory comprehensive controls with strict ISO quality standard system, to ensure product quality.

DBV company has products processing, manufacturing all the swarf lining equipment, hot working equipment and product performance testing equipment. Our main products are fluorine-butterfly butterfly valve, fluorine-butterfly valves, fluorine-butterfly plug valve, diaphragm valve lining fluorine, fluorine-butterfly cut-off valve, fluorine-butterfly gate, fluorine-butterfly check valve, pipe and all kinds of engineering plastics and other kinds of lining fluorine valve. At present, the company production of rubber lining, fluorine-butterfly valves and engineering plastic valve products, about ten classes, about more than 1120 specifications, drive mode of manual, pneumatic, electric, worm gear, gear transmission, hydraulic, design and manufacture of products accord with GB, JB, ANSI, API, BS, DIN and other standards at home and abroad, the product is applied to all kinds of strong corrosive medium industrial piping system for opening and closing device. Products by many chemical industry, medicine, chemical fertilizers and other devices to use, reliable performance, favored by users.

DBV company always adhere to the implementation of "customer first, adherence to quality, technology innovation" business philosophy, the core of efforts to develop cutting-edge technology, providing customers with sustainable solutions and product collaborative service support, to ensure that effectively ensure the economic interests of the users. DBV company has the potential to develop more high-end products, and full engagement continuous technology innovation and high quality services, is committed to become the world's most professional, most comprehensive, the most reliable rubber lining, fluorine-butterfly valves are one of the manufacturers.

生产装备
Production Equipment



自主研发 持续发展

RESEARCH AND DEVELOP INDEPENDENTLY AND SUSTAINED INNOVATION

精湛工艺 全程打造 FINE WORKMANSHIP

为了精益求精，东宝执行严谨、科学的生产加工流程。我们用心于每一个部件，每一台机器的构造设计与加工过工艺。严格的检测才能保证产品质量，因此，东宝的专家们用最新金的检测设备与最科学的检测方法把控每一道生产环节。

In order to strive for perfection, east perform strict and scientific production and processing process. We pay attention to every part, every machine structure design and processing technology. Strict testing to ensure product quality, therefore, the experts of the east treasure with the latest gold detection equipment and the most scientific methods to control each production link.

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阀门选型指南

Ⅰ	Ⅱ	Ⅲ	Ⅳ	Ⅴ	Ⅵ	Ⅶ
Z	9	4	1	H	16	C

(示　例)

- Ⅶ　阀体材料
- Ⅵ　公称压力
- Ⅴ　密封面材料或衬里材料
- Ⅳ　结构形式
- Ⅲ　连接形式
- Ⅱ　传动方式
- Ⅰ　类型代号

代　号		0	1	2	3	4	5	6	7	8	9
Ⅱ-传动方式		电磁动	电磁-液动	电-液动	蜗轮	正齿轮	锥齿轮	气动	液动	气-液动	电动
Ⅲ-连接形式		-	内螺纹	外螺纹	-	法兰	-	焊接	对夹	卡箍	卡套
Ⅰ-类型代号		Ⅳ-结构形式									
闸　阀	Z	明　杆					暗　杆				-
		楔　式			平行式		楔　式		平行式		
		弹性闸阀	钢　性				钢　性				
			单闸板	双闸板	单闸板	双闸板	单闸板	双闸板	单闸板	双闸板	
截止阀	J	-	直通式	Z型式	三通式	角式	直流式	平　衡		-	-
节流阀	L							直通式	直角式		
柱塞阀	U										
球　阀	Q	半球直通	浮动球					固定式			
			直通式	三通式Y形	-	三通式		四通式	直通式	三通式	
						Y形	T形			T形	Y形
蝶　阀	D	非密封型三偏心	密封型					非密封型			
			中线式	单偏心	双偏心	连杆机构	三偏心	中线式	单偏心	双偏心	连杆机构
隔膜阀	G	-	屋脊式	-	截止式	-	直流式	直通式	-	角式Y形	-
止回阀	H	-	升降式			旋启式			回转蝶形	截止止回	-
			直通式	立式	角式	单瓣式	双瓣式	多瓣式			
减压阀	Y	-	薄膜式	弹簧薄膜式	活塞式	波纹管式	杠杆式	-	-	-	-
疏水阀	S	-	浮球式	-	浮桶式	膨胀式	钟形浮子式	膜盒式	双金属片式	脉冲式	热动力式
排污阀	P	-	液面连续排放		-	-	液面间断排放				-
			直通式	角式			直流式	直通式	角式	浮动闸板型	
Ⅵ-公称压力		公称压力的数值用10倍的兆(Mpa)数表示；用于电站工业的阀门，当介质最高温度超过425℃时，标注工作压力。									

Ⅴ-阀座密封面或衬里材料	代号	Ⅴ-阀座材料	代号
巴氏合金	B	尼龙塑料	N
搪瓷	C	渗硼钢	P
渗氮钢	D	衬铅	Q
氟塑料	F	Mo2Ti系不锈钢	R
陶瓷	G	塑料	S
Cr13系不锈钢	H	铜合金	T
衬胶	J	橡胶	X
蒙耐尔合金	M	硬质合金	Y

注：1、由阀门直接加工的阀座密封面材料代号用“W”表示；
　　2、除隔膜阀外，当密封材料不同时，用低硬度材料代号表示。

Ⅶ-阀体材料	代号	Ⅶ-阀体材料	代号
钛及钛合金	TI	球墨铸铁	Q
碳钢	C	Mo2Ti系不锈钢	R
Cr13系不锈钢	H	塑料	S
铬钼钢	I	铜及铜合金	T
可锻铸铁	K	铬钼钒钢	V
铝合金	L	灰铸铁	Z
18-8系不锈钢	P	316Ti	PTi

注：1、PN≤1.6Mpa的灰铸铁和PN≥2.5Mpa的碳素钢阀体材料可省略本代号；
　　2、CF3、CF8、CF3M、CF8M等材料牌号可直接标注在阀体上。

How To Order

Ⅰ	Ⅱ	Ⅲ	Ⅳ	Ⅴ	Ⅵ	Ⅶ
Z	9	4	1	H	16	C

(Sample)

- Ⅶ　Body Material
- Ⅵ　Nominal Pressure
- Ⅴ　Sealing Face Or Lining Material
- Ⅳ　Construction Type
- Ⅲ　Connection Type
- Ⅱ　Actuated Type
- Ⅰ　Type Code

Code		0	1	2	3	4	5	6	7	8	9
Ⅱ-Actuated Type		Electric	Electro-hydraulic	Electrical-hydraulic	Worm	Spur gear	Bevel Gear	Pneumatic	Hydraulic	Pneumatic-hydraulic	Electrical
Ⅲ-Connection		-	FNPT	MNPT	-	Flange	-	Welding	Wafer	Hoop	Insert Type
Ⅰ-Type Code		Ⅳ-Construction Type									
Gate Valve	Z	Rising stem					Non-rising stem				-
		Wedge type			Parallel type		Wedge type		Parallel type		
		Flexible	Solid Wedge				Solid Wedge				
			Single	Double	Single	Double	Single	Double	Single	Double	
Globe Valve	J	-	Through way	Z-Type	Three-way	Angled	Straight flow	Balance type		-	-
Throttle Valve	L							Through way	Right-angled		
Plung Valve	U										
Ball Valve	Q	Half-ball through way	Floating type					Trunnion-mounted			
			Through way	Y-Pattern Tee	-	Three-way		Four-way	Through way	Three-way	
						L-Pattern	T-Pattern			T-Pattern	L-Pattern
Butterfly Valve	D	Non-seal tri-eccentric	Seal type					Non-seal type			
			Center line-type	Single-eccentric	Bi-eccentric	Link mechanism	Tri-eccentric	Center line-type	Bi-eccentric	Link mechanism	Connecting-rod mechanism
Diaphragm Valve	G	-	Weir type	-	Globe type	-	Through-flow	Through way type	-	Y-pattern angle type	-
Check Valve	H	-	Lift type			Swing type			Rotary type butterfly	Globe check	-
			Through way	Vertical type	Angle type	Single-plate	Double disc	Multi-disc			
Pressure Reducing Valve	Y	-	Diaphragm	Spring diaphragm	Piston	Bellows	Lever type	-	-	-	-
Trap Valve	S	-	Ball float	-	Bucket float	Expansion	Inverted bucket type	Membrane-box	Bimetal elements	Pulse	Thermodynamic
Drain valve	P	-	Continuous Discharge		-	-	Discontinuous discharge				-
			Through way type	Angle type			Straight flow type	Through way type	Angle type	Float wedge type	
Ⅵ-Nominal Pressure		Nominal pressure is indicated with 10times number of Mpa; it will mark working pressure for valves used in power station industries when maximum tempterature of medium exceeds 425℃.									

Ⅴ-seat seal surface or lining material	Code	Ⅴ-seat seal surface or lining material	Code
Babbitt metal	B	Nylon plastic	N
Enamel	C	Boronizing steel	P
Nitrided steel	D	Lead Lining	Q
Fluoroplastics	F	Mo2Ti series SS	R
Ceramic metal	G	Plastic	S
Cr13 series SS	H	Copper alloy	T
Rubber lined	J	Rubber	X
Monel alloy	M	Stellite	Y

Notes:1. The Material code of seat sealing surface based on body is"W".
　2. Adopt low hardness material code for different sealing material, except for diaphragm valve.

Ⅶ-Body material	Code	Ⅶ-Body material	Code
Titanium&titanium alloy	TI	Ductile Cast Iron	Q
Carbon steel	C	Mo2Ti series SS	R
Cr13 series SS	H	Plastic	S
Cr-Mo steel	I	Copper&Copper Alloy	T
Malleable Iron	K	Cr-Mo-V steel	V
Aluminum alloy	L	Gray cast Iron	Z
18-8 series SS	P	316Ti	PTi

Notes:1. Omit this code of if body material is grey iron when PN≤1.6Mpa and carbon steel when PN≥2.5Mpa.
　2. The material for CF3,CF8,CF3M,CF8M,etc can be marked on body directly.

蝶阀系列
Butterfly Valve Series

DBV上海东宝阀门制造有限公司

◆ 产品结构及性能简介 Product structure and performance synopsis

硬密封蝶阀系列产品，是我公司新开发的长寿命、节能型蝶阀。产品符合国家标准JB/T8527-1997（金属密封蝶阀）和API 609-2004(双法兰、凸耳和对夹式蝶阀)、GB/T13927-1992（通用阀门压力试验）及阀门其它相关标准的规定。

本产品由阀体、蝶板、密封圈、传动机构等主要部件组成。其结构采用二维或三维偏心原理设计，弹性密封或硬软多层次密封兼容的加工新工艺，使蝶阀在运行时，减少其扭矩，达到省力、节能之功效。同时确保蝶阀整体的抗腐蚀、耐高温、抗磨损的可靠性。其主要性能特点是：

1、结构独特、型小轻便、操作灵活、省力、方便；
2、密封可靠，可满足各级标准；
3、流量特性好，且具有调节功能；
4、采用偏心原理，使密封面近似零磨损，延长了阀门使用寿命；
5、应用范围广，可用于水、蒸气、油品、空气、煤气等介质；
6、适用不同温度及6.4MPa以下的压力等级、腐蚀等各种工况之管线。

Three-dimensional eccentric hard sealing butterfly valve is new product, which produced by this company with long service life and energy saving. The product measures up national standard of JB/T8527-1997(metallic sealed butterfly valve) or API 609-2004Butterfly valves, double flange, lug-and water-type ,GB/T13927-1992 (general valve pressure test) and regulations about other relative standard of valve.

This product is composed of body, disc, gasket, operating device etc. The structure design according to principle of three dimensional eccentricity, new processing technology of flexible seal and hard & soft multiple layers seal, when the butterfly valve operation, it can reduce the twisting force, reach to the function of saving labor and energy. Thereby ensure holistically antisepsis,high temperature-resistant, wearable reliability of valve. The main characteristic such as:

1. Particular structure, small bulk, operation skillfully, laborsaving,onveniently.
2. Seal reliably, it can reach to gas seal with no leakage.
3. Flux capability to direct line and best adjusting capability.
4. It adopts the principle of three-dimensional eccentricity, and facing near zero wearing, prolong service life of valve.
5. Appropriate differ temperature and thereinafter of 6.4MPa pre-ssure class, resistant wearable medium tube and so on.
6. Wide applied range, it can use medium such as: water, steam, oil, air, gas etc.

◆用途 Purpose

本蝶阀适用于食品、医药、石油化工、电厂、钢厂、工业环保水处理及城市建设管道上作调节流量和可靠性截断流体最佳装置。

This kind of butterfly valve is suitable for foodstuff, pharmacy, pet-roleum chemical industry,electric plant,steel plant,in dustrialenvironmental protection water treatment and high building, for adjusting flux on water supply tube.

◆ 采用标准 Adoption standard

设计标准 Design standard	法兰连接尺寸 Flange connection dimension	结构长度 Structure length	压力试验 Pressure test
JB/8527-97 API609-2004	GB/T9113-2000 JB/T79.1-94 HG20592-2009	GB12221-2005 API609-2004	GB/T13927-92 ISO5208-93 JB/T9092-99 API598-2004

◆ 产品型号表示方法 Model of product

□1 □2 □3 □4 □5 □6 □7

阀体材料代号: C-碳钢, P-不锈钢, R-铬镍钢, V-铬钼钒钢
Valve material code name: C-Carbon steel, P-Stainless steel, R-Cr.Ni Steel, V-cr.mo.v steel

公称压力值代号 (单位: 0.1MPa)
Nominal pressure code name

密封面材料代号: H-不锈钢, F-F4耐磨, W-本体, X-橡胶
Seal material code name: H-Stainless steel, F-F4 Bearto wnet, W-Essence, X-Rubber

结构形式代号: 1-中线, 3-三偏心
structure type code name: 1-Centerline type, 3-Lack of impartiality type, 5-Duplex three-eccentric

连接型代号: 4-法兰式, 6-焊接式(预埋式), 7-对夹式
Connection type code name: 4-Flange type, 6-Weld the type, 7-Water type

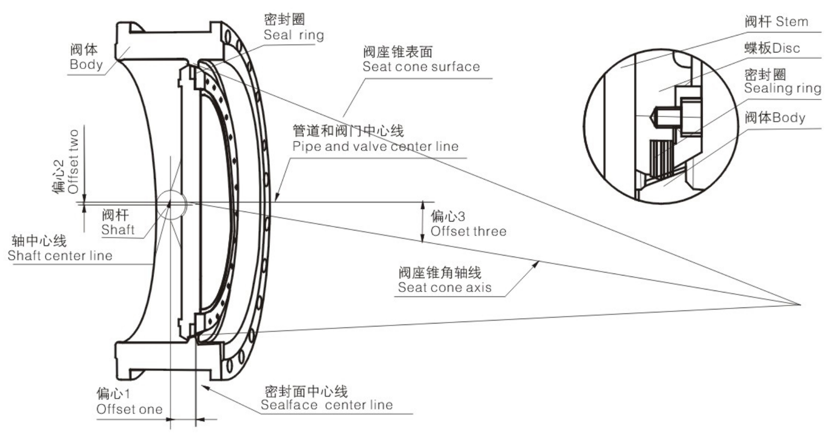
传动方式代号: 2-电-液动, 3-蜗轮传动, 6-气动传动, 7-液动, 9-电动传动
Drive type code name: 2-Electro-hydraulic actuator, 3-Worm wheel, 6-Pneumatic drive
7-hydraulic actuator, 9-Electric drive,

阀门类别代号: D-蝶阀
Valve sort code name: D-Butterfly valve

◆三偏心几何图 The Triple Offset Geometry

第一个偏心轴偏离密封面中心线
第二个偏心轴偏管路及阀门中心线
第三个其独特的偏心阀座斜锥角与管路中心的夹角，这样，使得阀座与密封圈在门整个开关过程中完全脱离。这种结构既利用了凸轮效应，又完全消除了摩擦，去除了磨损和泄漏的可能。

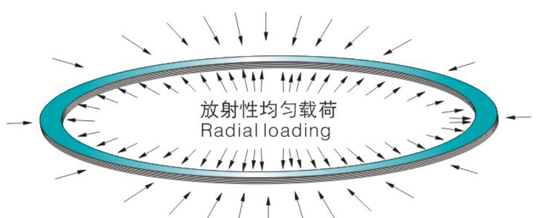
The first eccentric, shaft deviated from the centerline of sealing face.
The second eccentric, shaft deviated from the centerline of pipe and valve.
The third eccentric, the distinctive included angle between oblique taper angle of eccentric seat and centerline of pipe, thus making the seat completely disengaged from the sealing ring during the whole process of open and close. This structure not only uses cam effect, but also eliminates the possibility of abrasion and leakage.



零泄漏我们公司生产的三偏心蝶阀.依靠安装在蝶板上的复合不锈钢密封圈来实现真正的零泄漏
The zero leakage of our triple eccentric butterfly valve is implemented by the composite stainless steel sealing ring mounted on the disc.

零泄漏是通过蝶板上密封圈的弹性来实现的，该密封圈的弹性（如右图）是通过其径向的压缩和柔动产生的。密封圈与阀座接触面为斜锥面。密封圈与阀座之间的接触角产生轻微的“楔式效应”，使密封圈发生柔动和径向压缩。正由于阀座与密封圈之间均匀接触以及密封圈的柔性，使得加载在阀座上的载荷均匀，从而用最小的扭矩实现最严密的切断。扭矩产生的弹性使得阀门严密关断，而与介质流向或介质力无关。

Zero leakage is implemented by the elastic sealing ring mounted on the disc. The elasticity of sealing ring(see fig.Right) is produced by its radial compression and flexibility. The contact surface between the sealing ring and seat is an oblique cone. The contact angle between them gives slight ' wedge effect',making the sealing ring producing flexibility and radial compression. The even contact between the seat and sealing ring, and the closest cutoff by the lowest torque. The elasticity produced by the torque makes the valve closely cut off, regardless of the flow direction or pressure of medium.

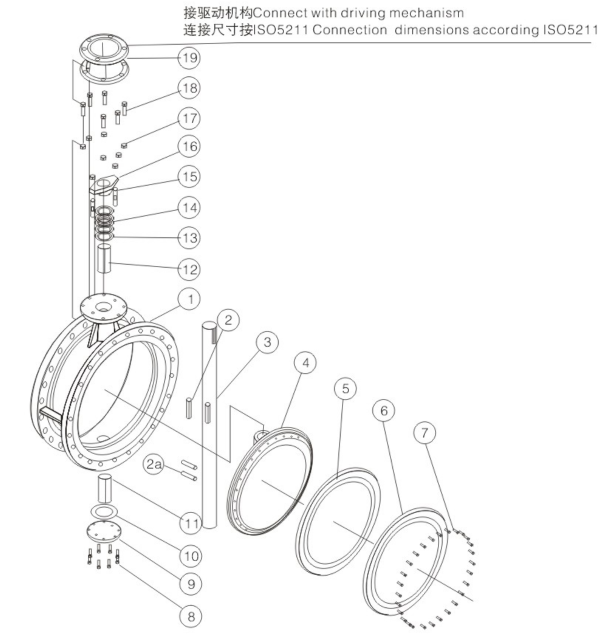


◆特点 Characteristics

复合金属密封圈的弹性特性使得阀门具有零泄漏性能。
扭矩密封确保阀门持续的双向零泄漏特性。
直角旋转无摩擦设计是通过一个独特的三偏心原理来实现，它消除90开关旋转中阀座与密封圈之间的摩擦。
STL一体式硬面阀座可满足许多工况要求，使用寿命，维修方便。
一体式铸造(板焊)阀体，结构长度符合ISO5752、ASMEB16.10和API609。可替换高性能蝶阀以及其他种类的阀门，安装简单、灵活
全金属结构加上零泄漏性能，使阀门有具有‘本质防火安全’特性。
阀杆防吹出设计安全可靠，完全符合API609的要求。
阀杆杆上的阀位指示器以及顶部安装法兰有利于蝶板位置指示。
三偏心蝶阀的阀杆采用一根通轴式结构，阀杆与蝶板连接采用键或销键组全。

Elastic property of composite metal sealing ring to perform zero leakage.
Torque seal to ensure persistent two-way zero leakage.
The design of right-angled rotation with zero friction is implemented by the distinctive triple eccentric principle. It eliminates the friction between the seat and sealing ring in90 rotation.
STL one-piece hard-surface seat may adapt to many working conditions, which is featured by long service life and easy maintenance.
One-piece cast(sheet welded)body, face-to-face dimensions conforming to ISO5752,ASMEB16.10and API609, replacement to highperformance butterfly valves and other types of valves, easy and flexible installation.
Intrinsical fireproof property due to all metal structure and leak-tight performance.
Anti-blowout stem for high reliability, completely conforming to Api609.
The valve position indicator on the stem and the flange mounted at the top are in favor of the indication of disc position.
The stem of triple eccentric butterfly valve is a shaft, stem and disc are connected by of pin-key combination.

阀体连接型式三偏心蝶阀阀体与管道的连接有双法兰连接，对夹式连接和凸耳对夹式连接三种。
Type of body connection, the connection eccentric butterfly valve body and can be double flanged, wafered and lug wafered.



◆材料明细表(三偏心蝶阀) Materials List(Triole Offset Butterfly Valve)

序号 No.	零件名称 Part name	材料 Materials	可选材料 Optional materials
1	阀体 Body	铸钢 Cast steel	不锈钢、蒙乃尔 SS、Monel
2	键 Pin	不锈钢 SS	不锈钢、蒙乃尔 SS、Monel
2a	销轴 Metalseat tongue	不锈钢 SS	蒙乃尔 Monel
3	阀杆 Stem	不锈钢 SS	不锈钢、蒙乃尔 SS、Monel
4	蝶板 Disc	铸钢 Cast steel	不锈钢、蒙乃尔 SS、Monel
5	密封圈 Seal ring	PTFE+SS	SS+柔性石墨 SS+Flexible graphite
6	压板圈 Gland ring	碳钢 Carbon steel	不锈钢、蒙乃尔 SS、Monel
7	螺钉 Screw	B7	不锈钢 SS
8	螺栓 bolts	B7	不锈钢 SS
9	底盖 Cover	碳钢 Carbon steel	不锈钢、蒙乃尔 SS、Monel
10	垫片 Gasket	SS+柔性石墨 SS+Flexible Graphite	
11	下轴套 Bushing	聚四氟乙烯+黄铜 PTFE+ Brass	自润滑黄铜 Self-lubricating brass
12	上轴套 Bushing	聚四氟乙烯+黄铜 PTFE+ Brass	自润滑黄铜 Self-lubricating brass
13	填料垫 Pachking gasket	不锈钢 SS	不锈钢、蒙乃尔 SS、Monel
14	填 料 Packing	柔性石墨 Flexible graphite	PTFE
15	螺栓 bolts	B7	不锈钢 SS
16	填料压套 Gland	不锈钢 SS	不锈钢 SS
17	螺母 Nut	2H	不锈钢 SS
18	螺栓 Bolts	B7	不锈钢 SS
19	连接支架 Yoke	碳钢 Carbon steel	-

提示：
1、壳体材料压力温度等级表见附录F Pressure and temperature rating of casing material referred to Appendix F
2、壳体材料化学成分及力学性能见附录G Chemical compositions and mechanical property of casing material referred to Appendix G
3、内件材料及推荐服务范围见附录E Trim materials and recommended service coverage referred to Appendix E

◆技术性能规范 Technical Specification

设计标准 Design standard		API609		
压力温度等级 Pressure-temperature rating		API609, ASME B16.34		
结构长度 Face-face		API609, ISO5752, ASME B16.10		
法兰型式尺寸 Flange ends		ASME \B16.5\B16.47		
检验与试验 Inspection&test		API598		
公称压力 Norminal pressure(MPa)		CLASS150	CLSS300	CLSS600
试验压力(MPa) Test pressure	壳体试验 Shell test	2.93	7.58	15.0
	高压密封 High pressure seal test	2.07	5.52	11.03
	低压密封 Low pressure seal test	0.6	0.6	0.6
适用温度 Applicable temperature		-46℃~550℃(不同的工况温度选用不同的材质) Different raw material for different work temperature		
适用介质 Applicable medium		水、油、气及各类腐蚀性介质（不同的介质选用有同的材质） Water、oil、gas and other causticity medium(Different raw material for different medium)		

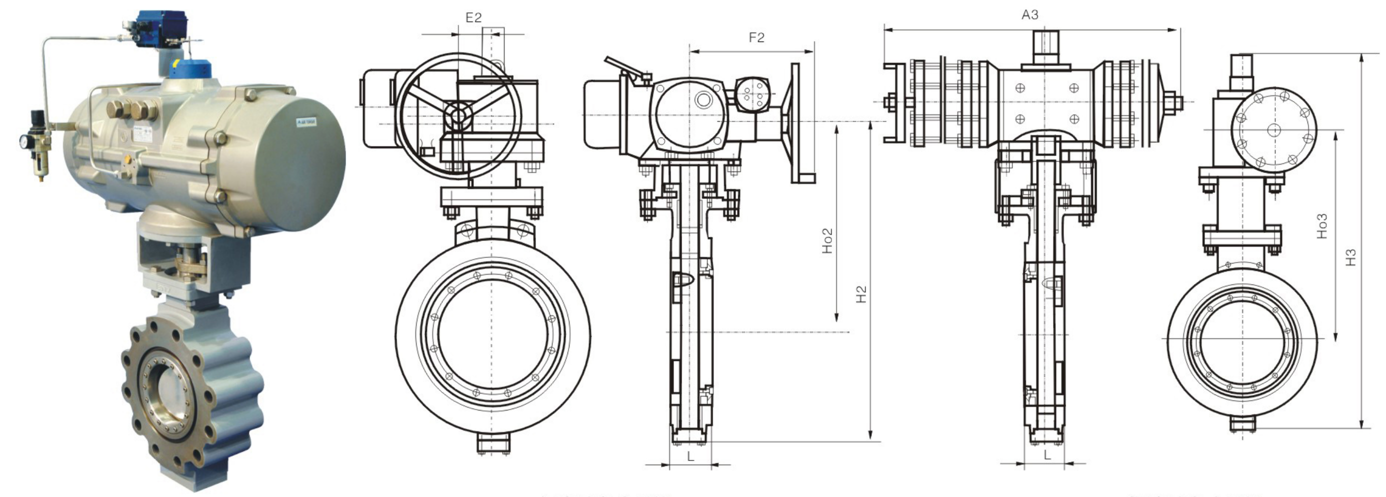
注：表中压力试验值根据WCB的压力温度等级而定。
Note: the experimental value of pressure in the table is subject to the pressure and temperature rating of WCB.

◆三偏心蝶阀供货范围 Triple Offset Butterfly Valve Product Line

规格 Size（mm）		压力等级 Pressure		
DN	NPS	CLASS150	CLSS300	CLSS600
50	2"	△/★/☆	△/★/☆	△/★/☆
65	2-1/2"	△/★/☆	△/★/☆	△/★/☆
80	3"	△/★/☆	△/★/☆	△/★/☆
100	4"	△/★/☆	△/★/☆	△/★/☆
125	5"	△/★/☆	△/★/☆	△/★/☆
150	6"	△/★/☆	△/★/☆	△/★/☆
200	8"	△/★/☆	△/★/☆	△/★/☆
250	10"	△/★/☆	△/★/☆	△/★/☆
300	12"	△/★/☆	△/★/☆	△/★/☆
350	14"	△/★/☆	△/★/☆	△/★/☆
400	16"	△/★/☆	△/★/☆	△/★/☆
450	18"	△/★/☆	△/★/☆	△/★/☆
500	20"	△/★/☆	△/★/☆	△/★/☆
600	24"	△/★/☆	△/★/☆	△/★/☆
700	28"	△/★/☆	–	–
750	30"	△/★/☆	–	–
800	32"	△/★/☆	–	–
900	36"	△/★/☆	–	–
1000	40"	△/★/☆	–	–
1050	42"	△/★/☆	–	–
1200	48"	△/★/☆	–	–
1400	56"	△/★/☆	–	–
1500	60"	–	–	–
1600	64"	–	–	–
1800	72"	–	–	–

注：●表示手柄操作阀门；
☆表示齿轮箱操作阀门；
△表示气动操作阀门；
★表示电动操作阀门；
/表示没有此选项，
表中未涉及的可按用户的要求制造。

●Stands for handle operated valves;
☆Stands for gearbox operated valves;
△Stands for air operated valves;
★Stands for electrically operated valves;
/Stands for no option of this.
Those not covered in the table can be custom made to users' requirements.



电动对夹式蝶阀
Electric wafer butterfly valve
SYD973H/Y/F

气动对夹式蝶阀
Pneumatic Wafer Butterfly Valve
SYD673H/Y/F

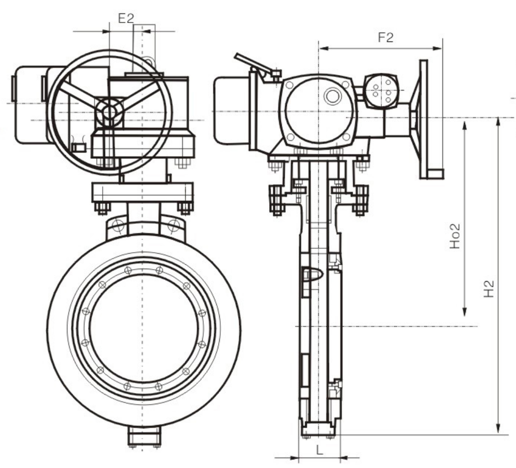
◆主要外形连接尺 Main Outline Dimensions

CLASS150 mm

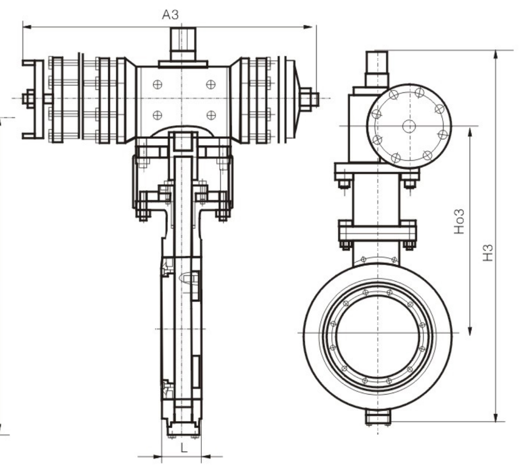
NPS	L	蜗轮蜗杆传动 Worm gear driven					电动 Electric				气动 Pneumatic			重量 Weight Kg	
		H1	Ho1	E1	F1	W1	H2	Ho2	E2	F2	H3	Ho3	A3	WF	WL
3"	49	340	230	50	203	203	513	263	180	178	–	–	–	9	9
4"	54	400	265	60	191	203	535	282	180	178	–	–	–	11	14
5"	57	480	325	60	215	250	563	293	180	178	–	–	–	15	18
6"	58	530	345	67	289	305	602	322	180	178	–	–	–	17	20
8"	64	620	395	67	308	460	745	296	370	235	690	323	275	25	31
10"	71	680	425	86	346	460	805	325	370	235	750	355	275	40	49
12"	81	800	495	111	403	610	883	365	370	235	955	475	378	61	79
14"	92	880	555	60	601	350	965	408	370	235	1032	513	378	82	107
16"	102	950	590	60	605	457	1033	443	370	235	1182	598	530	123	150
18"	114	1000	630	60	652	610	1120	485	370	235	1265	635	530	150	182
20"	127	1110	700	60	805	762	1186	518	370	235	1335	667	530	204	253
24"	154	1230	750	103	763	762	1380	625	370	235	1642	830	680	300	398
30"	167	1450	870	310	460	400	1650	777	515	245	1782	910	680	454	490
36"	184	1660	1000	410	480	400	1870	875	540	360	1920	975	680	762	771
40"	217	1720	1080	410	480	400	2030	965	540	360	–	–	–	975	1179
46"	254	1800	1130	410	480	400	2078	1022	540	360	–	–	–	1451	1724
48"	254	2080	1250	520	640	400	2188	1100	540	360	–	–	–	1678	1928
56"	275	2440	1475	520	640	400	2328	1325	565	385	–	–	–	2223	2631
60"	333	2594	1559	450	785	630	2530	1515	565	385	–	–	–	2903	3447

注：表中为无驱动装置重量，WF为对夹式蝶阀(WAFER)，WL为凸耳对夹式蝶阀(LUG)。
Note:the weight in the table is that without drive unit, WF is wafer butterfly valve, and WL is lug wafer butterfly valve.

API三偏心对夹凸耳式蝶阀
Triple Offset Wafer Butterfly Valve



电动对夹式蝶阀
Electric wafer butterfly valve
SYD973H/Y/F



气动对夹式蝶阀
Pneumatic wafer butterfly valve
SYD673H/Y/F

◆主要外形连接尺寸 Main Outline Dimensions

CLASS300 mm

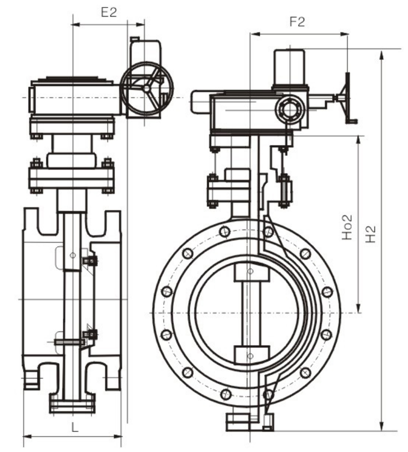
NPS	L	蜗轮蜗杆传动 Worm gear driven					电动 Electric				气动 Pneumatic			重量Weight Kg	
		H1	Ho1	E1	F1	W1	H2	Ho2	E2	F2	H3	Ho3	A3	WF	WL
3"	49	420	270	73	229	152	530	253	180	178	–	–	–	13.5	15.5
4"	54	490	305	73	229	305	552	274	180	178	–	–	–	18	21
5"	57	530	345	73	229	305	580	312	180	178	–	–	–	24	28
6"	59	590	380	108	254	305	610	351	180	178	–	–	–	28	34
8"	73	650	410	108	254	305	755	392	370	235	750	368	275	49	60
10"	83	750	470	133	305	610	816	480	370	235	909	442	378	68	88
12"	92	860	545	133	305	610	912	515	370	235	1075	535	530	109	117
14"	117	940	590	194	356	610	980	555	370	235	1158	572	530	186	207
16"	133	990	640	194	356	356	1057	590	370	235	1230	610	530	264	308
18"	149	1100	690	194	356	356	1140	636	370	235	1462	736	680	297	408
20"	159	1200	740	194	356	356	1243	685	515	245	1328	765	680	363	468
24"	181	1360	850	165	686	686	1420	934	817	351	–	–	–	454	748
30"	254	1495	1010	165	686	686	1906	1060	817	351	–	–	–	816	1338
36"	305	1585	1110	165	686	686	2327	1190	973	440	–	–	–	1429	2154
42"	324	1766	1235	429	805	903	2515	1385	973	440	–	–	–	2155	2427

CLASS600 mm

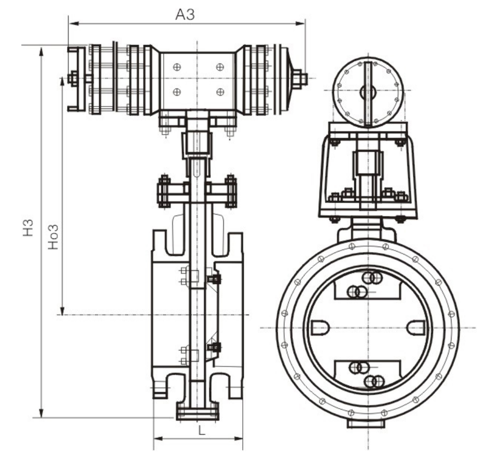
NPS	L	蜗轮蜗杆传动 Worm gear driven					电动 Electric				气动 Pneumatic			重量Weight Kg	
		H1	Ho1	E1	F1	W1	H2	Ho2	E2	F2	H3	Ho3	A3	WF	WL
6"	78	686	490	152	240	315	743	387	180	178	–	–	–	45	56
8"	102	757	536	168	300	315	1055	417	370	235	–	–	–	70	94
10"	117	897	641	192	320	315	1172	465	370	235	–	–	–	103	141
12"	140	1034	727	237	368	400	1392	546	515	245	–	–	–	149	201
14"	155	1087	757	237	368	400	1475	579	515	245	–	–	–	243	333
16"	178	1216	825	237	368	400	1557	643	540	360	–	–	–	318	401
18"	200	1240	840	269	559	400	1625	673	540	360	–	–	–	431	575
20"	216	1330	978	350	645	400	1679	701	540	360	–	–	–	472	708
24"	232	1583	1070	350	645	400	1834	775	540	360	–	–	–	826	1061

注：表中为无驱动装置重量，WF为对夹式蝶阀(WAFER)，WL为凸耳对夹式蝶阀(LUG)。
Note:the weight in the table is that without drive unit, WF is wafer butterfly valve, and WL is lug wafer butterfly valve.

API三偏心法兰连接蝶阀
Triple Offset Flange Butterfly Valve



电动法兰连接蝶阀
Electric flanged butterfly valve
SYD943H/Y/F



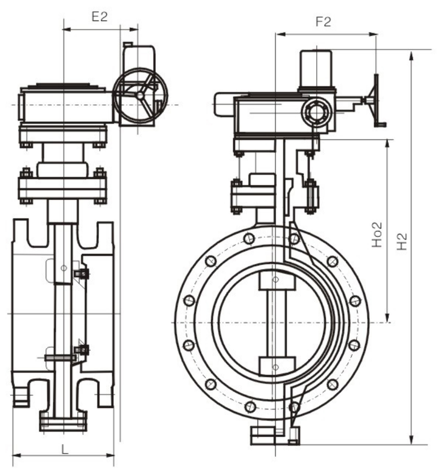
气动法兰连接蝶阀
Pneumatic flanged butterfly valve
SYD643H/Y/F

◆主要外形连接尺寸 Main Outline Dimensions

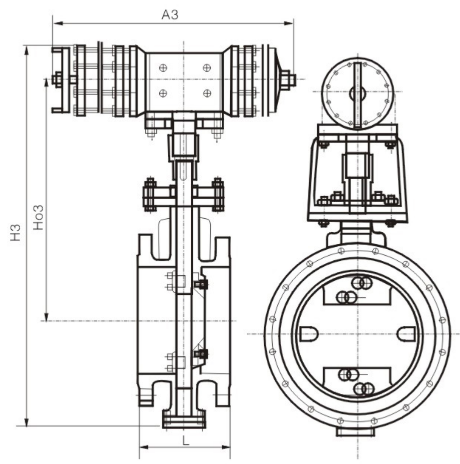
CLASS150 mm

NPS	L	蜗轮蜗杆传动 Worm gear driven					电动 Electric				气动 Pneumatic			重量 Kg Weight
		H1	Ho1	E1	F1	W1	H2	Ho2	E2	F2	H3	Ho3	A3	蜗轮传动 Worm driven
3"	114	340	230	50	203	203	513	263	180	178	–	–	–	15.4
4"	127	400	265	60	191	203	535	282	180	178	–	–	–	23
5"	140	480	325	60	215	250	563	293	180	178	–	–	–	29
6"	140	530	345	67	289	305	602	322	180	178	–	–	–	33
8"	152	620	395	67	308	460	745	296	370	235	690	323	275	50
10"	165	680	425	86	346	460	805	325	370	235	750	355	275	73
12"	178	800	495	111	403	610	883	365	370	235	955	475	378	108
14"	190	880	555	60	601	350	965	408	370	235	1032	513	378	143
16"	216	950	590	60	605	457	1033	443	370	235	1182	598	530	186
18"	222	1000	630	60	652	610	1120	485	370	235	1265	635	530	234
20"	229	1110	700	60	805	762	1186	518	370	235	1335	667	530	277
24"	267	1230	750	103	763	762	1380	625	370	235	1642	830	680	408
28"	292	1380	830	245	400	315	1587	745	515	245	1711	859	680	653
30"	318	1450	870	310	460	400	1650	777	515	245	1782	910	680	816
32"	318	1550	950	310	460	400	1717	810	515	245	1856	942	680	914
36"	330	1660	1000	410	480	400	1870	875	540	360	1920	975	680	1157
40"	410	1720	1080	410	480	400	2030	965	540	360	–	–	–	1610
44"	450	1800	1130	410	480	400	2078	1022	540	360	–	–	–	2160
48"	470	2080	1250	520	640	400	2188	1100	540	360	–	–	–	2359
52"	490	2300	1405	520	640	400	2214	1150	565	385	–	–	–	2720
56"	530	2440	1475	520	640	400	2328	1325	565	385	–	–	–	3353
60"	570	2594	1559	450	785	630	2530	1515	565	385	–	–	–	3629

注：1、表中阀门的结构长度：DN<2000,按ISO5752的13系列；DN≥2000，按ISO5752的14系列。
1.Structural length of valves in the table: DN<2000,to ISO5752 13series;DN≥2000,to ISO5752 14 series.



电动法兰连接蝶阀
Electric flanged butterfly valve
SYD943H/Y/F



气动法兰连接蝶阀
Pneumatic flanged butterfly valve
SYD643H/Y/F

◆主要外形连接尺寸 Main Outline Dimensions

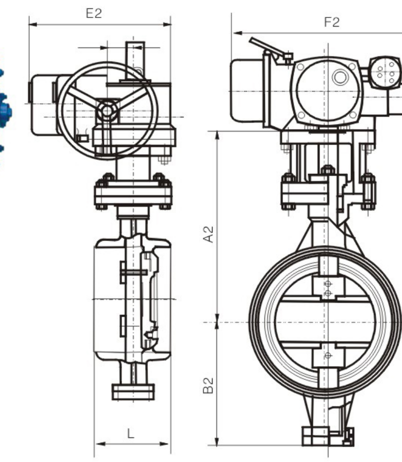
CLASS300 mm

NPS	L	蜗轮蜗杆传动 Worm gear driven					电动 Electric				气动 Pneumatic			重量Weight Kg		
		H1	Ho1	E1	F1	W1	H2	Ho2	E2	F2	H3	Ho3	A3	蜗轮Worm	电动 Electric	气动 Pneumatic
2"	108	385	250	35	169	152	407	237	180	178	–	–	–	19	27	–
3"	114	420	270	73	229	152	530	253	180	178	–	–	–	29	43	–
4"	127	490	305	73	229	305	552	274	180	178	–	–	–	39	51	–
5"	140	530	345	73	229	305	580	312	180	178	–	–	–	48	58	–
6"	140	590	380	108	254	305	610	351	180	178	–	–	–	54	67	–
8"	152	650	410	108	254	305	755	392	370	235	750	368	275	84	107	–
10"	165	750	470	133	305	610	816	480	370	235	909	442	378	118	150	–
12"	178	860	545	133	305	610	912	515	370	235	1075	535	530	170	225	–
14"	191	940	590	194	356	610	980	555	370	235	1158	572	530	231	266	–
16"	216	990	640	194	356	356	1057	590	370	235	1230	610	530	299	369	–
18"	222	1100	690	194	356	356	1140	636	370	235	1462	736	680	390	429	–
20"	229	1200	740	194	356	356	1243	685	515	245	1328	765	680	499	590	–
24"	267	1360	850	165	686	686	1420	934	817	351	–	–	–	726	766	–
28"	292	1410	980	165	686	686	1812	1039	817	351	–	–	–	1360	–	–
30"	292	1495	1010	165	686	686	1906	1060	817	351	–	–	–	1429	–	–
32"	318	1535	1080	165	686	686	2021	1120	817	351	–	–	–	1757	–	–
36"	330	1585	1110	165	686	686	2327	1190	973	440	–	–	–	2223	–	–
40"	410	1605	1150	165	686	686	2451	1234	973	440	–	–	–	2531	–	–

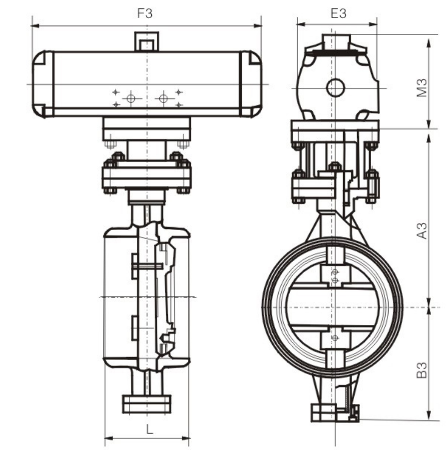
CLASS600 mm

NPS	L	蜗轮蜗杆传动 Worm gear driven					电动 Electric				气动 Pneumatic			重量Weight Kg		
		H1	Ho1	E1	F1	W1	H2	Ho2	E2	F2	H3	Ho3	A3	蜗轮Worm	电动 Electric	气动 Pneumatic
3"	180	541	414	63	140	250	606	295	180	178	–	–	–	182	79	–
4"	190	607	447	63	140	250	650	358	180	178	–	–	–	125	96	–
5"	200	680	395	108	200	250	695	371	180	178	–	–	–	165	154	–
6"	210	686	490	152	240	315	743	387	180	178	–	–	–	191	172	–
8"	230	757	536	168	300	315	1055	417	370	235	–	–	–	247	248	–
10"	250	897	641	192	320	315	1172	465	370	235	–	–	–	413	308	–
12"	270	1034	727	237	368	400	1392	546	515	245	–	–	–	576	467	–
14"	290	1087	757	237	368	400	1475	579	515	245	–	–	–	664	585	–
16"	310	1216	825	237	368	400	1557	643	540	360	–	–	–	971	807	–
18"	330	1240	840	269	559	400	1625	673	540	360	–	–	–	1117	1003	–
20"	350	1330	978	350	645	400	1679	701	540	360	–	–	–	1639	1139	–
24"	390	1583	1070	350	645	400	1834	775	540	360	–	–	–	2082	1767	–

注：1、表中阀门的结构长度：DN<2000,按ISO5752的13系列；600Lb，按ISO5752的14系列。
1.Structural length of valves in the table: DN<2000,to ISO5752 13series;600Lb,to ISO5752 14 series.



电动对焊连接蝶阀
Electric butt-welded butterfly valve
SYD963H/Y/F



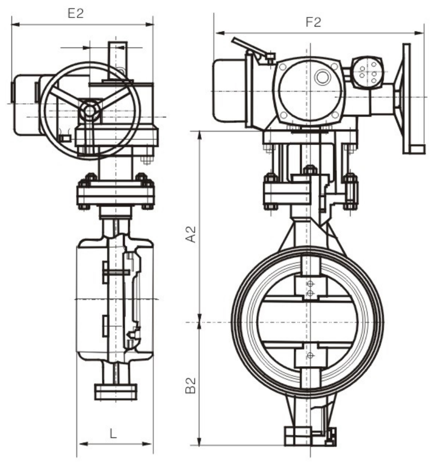
气动对焊连接蝶阀
Pneumatic butt-welded butterfly valve
SYD663H/Y/F

◆主要外形连接尺寸 Main Outline Dimensions

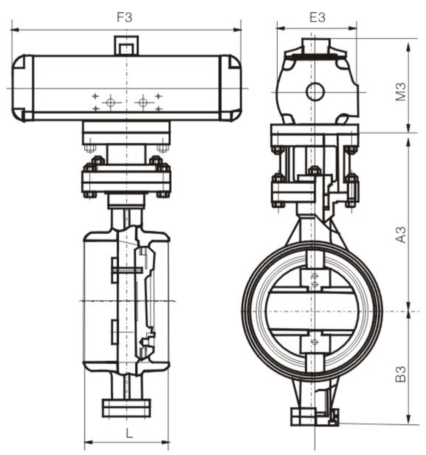
CLASS150 mm

NPS	L	蜗轮蜗杆传动 Worm gear driven							电动 Electric				气动 Pneumatic				重量Weight Kg			
		A1	B1	M1	E1	F1	J	Do1	A2	B2	E2	F2	A3	B3	E3	F3	M3	蜗轮 Worm	电动 Electric	气动 Pneumatic
3"	114	295	135	115	84	198	84	200	295	135	513	467	295	135	115	344	140	32	37	–
4"	127	305	155	115	84	198	84	200	305	155	513	467	305	155	115	344	140	35	39	–
5"	140	322	167	115	84	198	84	200	322	167	513	467	322	167	126	390	175	39	42	–
6"	140	366	170	115	94	211	84	250	366	170	525	475	366	170	150	450	187	43	43	–
8"	152	396	198	134	117	267	145	250	396	198	580	470	396	198	280	762	270	60	57	–
10"	165	429	231	134	175	254	114	315	429	231	635	560	429	231	330	900	305	90	80	–
12"	178	483	269	159	175	254	114	315	483	269	705	560	483	269	405	1182	385	107	104	–
14"	190	498	297	159	239	404	145	315	498	297	765	615	498	297	405	1182	385	153	141	–
16"	216	579	333	163	239	404	145	315	579	333	825	615	579	333	405	1182	385	207	197	–
18"	222	630	366	163	239	404	191	315	630	366	875	820	630	366	445	1292	410	267	247	–
20"	229	655	394	163	300	465	191	400	655	394	960	820	655	394	445	1292	410	327	307	–
24"	267	744	452	185	300	465	191	400	744	452	1040	820	744	452	500	1442	465	473	427	–
28"	292	790	511	185	300	465	191	400	790	511	1155	945	790	511	630	1865	500	653	667	–
30"	308	815	536	220	300	559	269	400	815	536	1225	945	815	536	630	1865	500	760	773	–
32"	318	874	577	220	300	559	269	400	874	577	1275	945	874	577	630	1865	500	1033	1047	–
36"	330	899	602	255	300	559	269	400	899	602	1375	1145	899	602	–	–		1200	1213	–
40"	410	1064	696	255	300	559	269	400	1064	696	1490	1145	1064	696	–	–		1487	1500	–
42"	430	1092	721	255	300	559	335	400	1092	721	1550	1335	1092	721	–	–		1640	1637	–
44"	450	1148	731	255	300	572	335	400	1148	731	1600	1335	1148	731	–	–		1800	1813	–
48"	470	1270	800	320	300	572	335	400	1270	800	1715	1370	1270	800	–	–		2007	2020	–
52"	490	1314	850	320	425	635	365	500	1314	850	1835	1370	1314	850	–	–		2720	2733	–
56"	530	1384	895	335	425	635	365	500	1384	895	2005	1425	1384	895	–	–		2980	2993	–
60"	570	1504	1025		425	635	365	500	1504	1025	2115	1425	1504	1025	–	–		3387	3420	–

注：1、阀门的结构长度按照ISO5752的14系列。
2、焊接端坡口按GB/T12224的规定。
Note:1.The structural length to ISO5752 14series
2.Welding groove to GB/T12224 specifications



电动对焊连接蝶阀
Electric butt-welded butterfly valve
SYD963H/Y/F



气动对焊连接蝶阀
Pneumatic butt-welded butterfly valve
SYD663H/Y/F

◆主要外形连接尺寸 Main Outline Dimensions

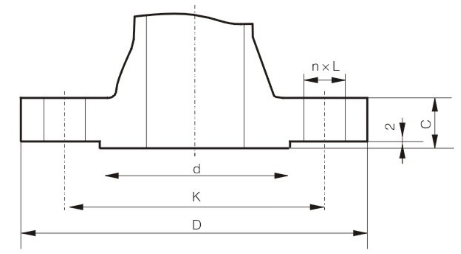
CLASS300 mm

NPS	L	蜗轮蜗杆传动 Worm gear driven							电动 Electric				气动 Pneumatic				重量Weight Kg			
		A1	B1	M1	E1	F1	J	Do1	A2	B2	E2	F2	A3	B3	E3	F3	M3	蜗轮 Worm	电动 Electric	气动 Pneumatic
3"	114	295	132	114	84	198	84	200	298	132	467	513	295	132	126	390	175	34	–	–
4"	127	358	150	114	84	198	84	200	358	150	467	513	358	150	150	450	187	44	–	–
5"	140	365	167	168	117	267	145	250	365	167	467	513	365	167	280	762	270	58	–	–
6"	140	389	188	163	175	254	114	315	389	188	564	523	389	188	330	900	305	73	–	–
8"	152	417	221	163	175	254	114	315	417	221	615	544	417	221	405	1182	385	132	–	–
10"	165	465	252	185	239	404	145	315	465	252	615	544	465	252	405	1182	385	151	–	–
12"	178	546	290	185	239	404	145	315	546	290	823	513	546	290	405	1182	385	257	–	–
14"	191	579	318	221	300	465	191	400	579	318	823	513	579	318	445	1292	410	286	–	–
16"	216	642	368	221	300	465	191	400	642	368	945	513	642	368	445	1292	410	416	–	–
18"	222	673	396	221	300	465	191	400	673	396	945	544	673	396	500	1442	465	497	–	–
20"	229	701	422	254	300	559	269	400	701	422	945	544	701	422	500	1442	465	571	–	–
24"	267	775	495	254	399	559	269	400	775	495	945	544	775	495	630	1865	500	881	–	–
28"	292	904	559	305	510	648	351	400	904	559	1158	826	904	559	630	1865	500	1320	–	–
30"	292	963	594	305	510	648	351	400	963	594	1158	826	963	594	–	–	–	1478	–	–
32"	318	1054	617	305	510	648	351	400	1054	617	1158	826	1054	617	–	–	–	1688	–	–
36"	330	1161	676	368	615	805	429	630	1161	676	1420	1039	1161	676	–	–	–	2379	–	–
40"	410	1242	719	368	615	805	429	630	1242	719	1420	1039	1242	719	–	–	–	2427	–	–

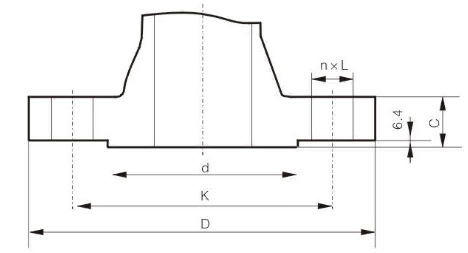
CLASS600 mm

NPS	L	蜗轮蜗杆传动 Worm gear driven							电动 Electric				气动 Pneumatic				重量 Weight Kg			
		A1	B1	M1	E1	F1	J	Do1	A2	B2	E2	F2	A3	B3	E3	F3	M3	蜗轮Worm	电动 Electric	气动 Pneumatic
3"	180	343	127	135	94	211	81	250	343	127	564	523	343	127	330	900	305	75	–	–
4"	190	371	160	170	152	267	145	250	371	160	615	544	371	160	405	1182	385	117	–	–
5"	200	388	178	163	175	254	114	315	388	178	615	544	388	178	405	1182	385	154	–	–
6"	210	401	196	163	175	254	114	315	401	196	823	513	401	196	405	1182	385	186	–	–
8"	230	447	221	163	175	254	114	315	447	221	823	513	447	221	445	1292	410	235	–	–
10"	250	544	290	185	239	404	145	315	544	290	945	513	544	290	445	1292	410	398	–	–
12"	270	610	307	220	300	465	191	400	610	307	945	544	610	307	500	1442	465	554	–	–
14"	290	640	330	220	300	465	191	400	640	330	945	544	640	330	500	1442	465	654	–	–
16"	310	701	391	254	400	559	269	400	701	391	945	544	701	391	630	1865	500	935	–	–
18"	330	716	406	254	400	559	269	400	716	406	945	544	716	406	630	1865	500	1085	–	–
20"	350	828	452	305	510	645	351	400	828	452	1158	826	828	452	630	1865	500	1610	–	–
24"	390	920	513	305	510	645	351	400	920	513	1158	826	920	513	–	–	–	1998	–	–

注：1、表阀门的结构长度:300Lb，按ISO5752的13系列；600Lb，按ISO5752的14系列。
2、焊接端坡口按ASME B16.34的规定。
Note:1. Structural length of valves in the table:300Lb, to ISO5752 13series;600Lb, to ISO5752 14series
2.Welding groove to ASME B16.34 specifications



CLASS≤300Lb (RF)PN≤5.0MPa 凸面
Raised face



CLASS≥400Lb (RF)PN≥6.8MPa 凸面
Raised face

ASME B16.5、B16.47A(MSS SP-44)、B16.47B(API 605)

◆ CLASS150 RF.法兰 连接尺寸 Dimensions of Flanges

Size		D		K		d		n-L		C		螺栓直径 Diameter of bolts		双头螺栓长度(mm) Length of bolts	
DN	NPS	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	凸面2mm Raised face	环连接 Ring joint
15	1/2	90	3.50	60.5	2.375	35	1.375	4-15	4-0.62	10	–	M14	1/2	55	–
20	3/4	100	3.875	70	2.75	43	1.6875	4-15	4-0.62	10	–	M14	1/2	65	–
25	1	110	4.25	79.5	3.125	51	2	4-15	4-0.62	12.7	0.44	M14	1/2	65	75
32	1 1/4	115	4.625	89	3.50	64	2.50	4-15	4-0.62	14	0.50	M14	1/2	70	85
40	1 1/2	125	5	98.5	3.875	73	2.875	4-15	4-0.62	16	0.56	M14	1/2	70	85
50	2	150	6	120.5	4.75	92	3.625	4-19	4-0.75	18	0.62	M16	5/8	85	95
65	2 1/2	180	7	139.5	5.50	105	4.125	4-19	4-0.75	20	0.69	M16	5/8	90	100
80	3	190	7.50	152.5	6	127	5	4-19	4-0.75	22	0.75	M16	5/8	90	100
100	4	230	9	190.5	7.50	157	6.1875	8-19	8-0.88	24	0.94	M16	5/8	90	100
125	5	255	10	216	8.50	186	7.3125	8-22	8-0.88	24	0.94	M20	3/4	95	110
150	6	280	11	241.5	9.50	216	8.50	8-22	8-0.88	26	1	M20	3/4	100	115
200	8	345	13.50	298.5	11.75	270	10.625	8-22	8-0.88	29	1.12	M20	3/4	110	120
250	10	405	16	362	14.25	324	12.75	12-25	12-1	31	1.19	M24	7/8	115	125
300	12	485	19	432	17	381	15	12-25	12-1	32	1.25	M24	7/8	120	135
350	14	535	21	476	18.75	413	16.25	12-29	12-1.12	35	1.38	M27	1	135	145
400	16	595	23.50	540	21.25	470	18.50	16-29	16-1.12	37	1.44	M27	1	135	145
450	18	635	25	578	22.75	533	21	16-32	16-1.25	40	1.56	M30	1 1/8	145	160
500	20	700	27.50	635	25	584	23	20-32	20-1.25	43	1.69	M30	1 1/8	160	170
600	24	815	32	749.5	29·50	692	27.25	20-35	20-1.38	48	1·88	M33	1 1/4	170	185
650	26	785	–	744.5	–	711	–	36-22	–	39.8	–	M20	3/4	–	–
700	28	835	–	795.3	–	762	–	40-22	–	43.0	–	M20	3/4	–	–
750	30	885	–	846.1	–	813	–	44-22	–	43.0	–	M20	3/4	–	–
800	32	940	–	900.1	–	864	–	48-22	–	44.6	–	M20	3/4	–	–
850	34	1005	–	957.3	–	921	–	40-26	–	47.7	–	M24	7/8	–	–
900	36	1055	–	1009.6	–	972	–	44-26	–	50.9	–	M24	7/8	–	–
950	38	1125	–	1070.0	–	1022	–	40-30	–	52.5	–	M27	1	–	–
1000	40	1175	–	1120.8	–	1080	–	44-30	–	54.1	–	M27	1	–	–
1050	42	1225	–	1171.6	–	1130	–	48-30	–	57.3	–	M27	1	–	–
1100	44	1275	–	1222.4	–	1181	–	52-30	–	58.9	–	M27	1	–	–
1150	46	1340	–	1284.3	–	1235	–	40-33	–	60.4	–	M30	1 1/8	–	–
1200	48	1390	–	1335.1	–	1289	–	44-33	–	63.6	–	M30	1 1/8	–	–
1250	50	1445	–	1385.9	–	1340	–	48-33	–	66.8	–	M30	1 1/8	–	–
1300	52	1495	–	1436.7	–	1391	–	52-33	–	68.4	–	M30	1 1/8	–	–
1350	54	1550	–	1492.2	–	1441	–	56-33	–	70.0	–	M30	1 1/8	–	–
1400	56	1600	–	1543.0	–	1492	–	60-33	–	71.6	–	M30	1 1/8	–	–
1450	58	1675	–	1611.3	–	1543	–	48-36	–	73.1	–	M33	1 1/4	–	–
1500	60	1725	–	1662.1	–	1600	–	52-36	–	74.7	–	M33	1 1/4	–	–

◆ CLASS300 RF.法兰 连接尺寸 Dimensions of Flanges

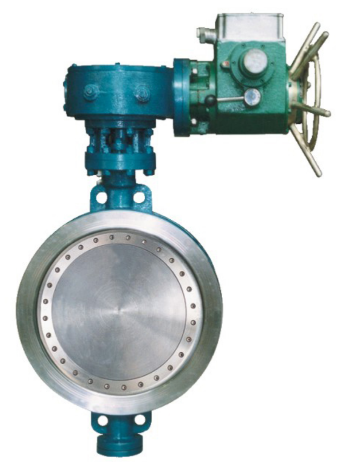
Size		D		K		d		n-L		C		螺栓直径 Diameter of bolts		双头螺栓长度(mm) Length of bolts	
DN	NPS	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	凸面2mm Raised face	环连接 Ring joint
15	1/2	95	3.75	66.7	2.62	35	1.38	4-16	4-0.62	15	0.56	M14	1/2	65	75
20	3/4	115	4.60	82.5	3.25	43	1.69	4-19	4-0.75	16	0.62	M16	5/8	75	90
25	1	125	4.88	89	3.50	51	2	4-19	4-0.75	18	0.69	M16	5/8	75	90
32	1 1/4	135	5.25	98.5	3.88	64	2.50	4-19	4-0.75	19	0.75	M16	5/8	80	95
40	1 1/2	155	6.12	114.5	4.50	73	2.88	4-22	4-0.88	21	0.81	M20	3/4	90	100
50	2	165	6.50	127	5.0	92	3.62	8-19	8-0.62	23	0.88	M16	5/8	90	100
65	2 1/2	190	7.50	149	5.88	105	4.12	8-22	8-0.88	26	1	M20	3/4	100	115
80	3	210	8.25	168.5	6.62	127	5	8-22	8-0.88	29	1.12	M20	3/4	110	120
100	4	255	10	200	7.88	157	6.19	8-22	8-0.88	32	1.25	M20	3/4	115	125
125	5	280	11	235	9.25	186	7.31	8-22	8-0.88	35	1.38	M20	3/4	120	135
150	6	320	12.50	270	10.62	216	8.50	12-22	12-0.88	37	1.44	M20	3/4	120	140
200	8	380	15.0	330	13.0	270	10.62	12-26	12-1	42	1.62	M24	7/8	140	150
250	10	445	17.50	387.5	15.25	324	12.75	16-29	16-1.12	48	1.88	M27	1	160	170
300	12	520	20.50	451	17.75	381	15	16-32	16-1.25	51	2	M30	1 1/8	170	185
350	14	585	23.0	514.5	20.25	413	16.25	20-32	20-1.25	54	2.12	M30	1 1/8	180	190
400	16	650	25.50	571.5	22.50	470	18.50	20-35	20-1.38	58	2.25	M33	1 1/4	190	205
450	18	710	28.0	628.5	24.75	533	21	24-35	24-1.38	61	2.38	M33	1 1/4	195	210
500	20	775	30.50	686	27.0	584	23	24-35	24-1.38	64	2.50	M33	1 1/4	205	220
600	24	915	36.0	813	32.0	692	27.25	24-41	24-1.62	70	2.75	M39X3	1 1/2	230	255
650	26	865	–	803.3	–	737	–	32-36	–	87.4	–	M33	1 1/4	–	–
700	28	920	–	857.2	–	787	–	36-36	–	87.4	–	M33	1 1/4	–	–
750	30	990	–	920.8	–	845	–	36-39	–	92.1	–	M36X3	1	–	–
800	32	1055	–	977.9	–	902	–	32-42	–	101.6	–	M39X3	1 1/2	–	–
850	34	1110	–	1031.9	–	953	–	36-42	–	101.6	–	M39X3	1 1/2	–	–
900	36	1170	–	1089.0	–	1010	–	32-45	–	101.6	–	M42X3	1 5/8	–	–
950	38	1220	–	1139.8	–	1060	–	36-45	–	109.6	–	M42X3	1 5/8	–	–
1000	40	1275	–	1190.6	–	1114	–	40-45	–	114.3	–	M42X3	1 5/8	–	–
1050	42	1335	–	1244.6	–	1168	–	36-48	–	117.3	–	M45X3	1 3/4	–	–
1100	44	1385	–	1295.4	–	1219	–	40-48	–	125.5	–	M45X3	1 3/4	–	–
1150	46	1460	–	1365.2	–	1270	–	36-51	–	127.0	–	M48X3	1 7/8	–	–
1200	48	1510	–	1416.0	–	1327	–	40-51	–	127.0	–	M48X3	1 7/8	–	–
1250	50	1560	–	1466.8	–	1378	–	44-51	–	136.6	–	M48X3	1 7/8	–	–
1300	52	1615	–	1517.6	–	1429	–	48-51	–	141.3	–	M48X3	1 7/8	–	–
1350	54	1675	–	1578.0	–	1480	–	48-51	–	145.0	–	M48X3	1 7/8	–	–
1400	56	1765	–	1651.0	–	1537	–	36-60	–	152.4	–	M56X3	2 1/4	–	–
1450	58	1825	–	1712.9	–	1584	–	40-60	–	152.4	–	M56X3	2 1/4	–	–
1500	60	1880	–	1763.7	–	1651	–	40-60	–	149.3	–	M56X3	2 1/4	–	–

◆ CLASS600 RF.法兰 连接尺寸/Dimensions of Flanges

Size		D		K		d		n-L		C		螺栓直径 Diameter of bolts		双头螺栓长度(mm) Length of bolts	
DN	NPS	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	凸面2mm Raised face	环连接 Ring joint
15	1/2	95	3.75	66.7	2.62	35	1.38	4-16	4-0.62	15	0.56	M14	1/2	75	75
20	3/4	115	4.62	82.5	3.25	43	1.69	4-19	4-0.75	16	0.62	M16	5/8	80	90
25	1	125	4.88	88.9	3.50	51	2	4-19	4-0.75	18	0.69	M16	5/8	90	90
32	1 1/4	135	5.25	98.4	3.88	64	2.50	4-19	4-0.75	21	0.81	M16	5/8	95	95
40	1 1/2	155	6.12	114.3	4.50	73	2.88	4-22	4-0.88	23	0.88	M20	3/4	110	110
50	2	165	6.50	127	5.0	92	3.62	8-19	8-0.75	26	1	M16	5/8	110	110
65	2 1/2	190	7.50	149.2	5.88	105	4.12	8-22	8-0.88	29	1.12	M20	3/4	120	120
80	3	210	8.25	168.3	6.62	127	5	8-22	8-0.88	32	1.25	M20	3/4	125	125
100	4	275	10.75	215.9	8.50	157	6.19	8-26	8-1.00	38	1.50	M24	7/8	145	145
125	5	330	13.0	266.7	10.5	186	7.31	8-29	8-1.12	45	1.75	M27	1	165	165
150	6	355	14.0	292.1	11.5	216	8.50	12-29	12-1.12	48	1.88	M27	1	170	170
200	8	420	16.50	349.2	13.75	270	10.62	12-32	12-1.25	56	2.19	M30	1 1/8	190	190
250	10	510	20.0	431.8	17.0	324	12.75	16-35	16-1.38	64	2.50	M33	1 1/4	215	215
300	12	560	22.0	489	19.25	381	15	20-35	20-1.38	67	2.62	M33	1 1/4	220	220
350	14	605	23.75	527	20.75	413	16.25	20-39	20-1.50	70	2.75	M36x3	1 3/8	235	235
400	16	685	27.0	603.2	23.75	470	18.50	20-42	20-1.62	76	3.00	M39X3	1 1/2	255	255
450	18	745	29.25	654	25.75	533	21	20-45	20-1.75	83	3.25	M42x3	1 5/8	275	275
500	20	815	32.0	723.9	28.50	584	23	24-45	24-1.75	89	3.50	M42x3	1 5/8	285	290
600	24	940	37.0	838.2	33.0	692	27.25	24-51	24-2.00	102	4.00	M48x3	1 7/8	330	335
650	26	890	–	806.4	–	727	–	28-45	–	111.2	–	M42x3	1 5/8	–	–
700	28	950	–	863.6	–	784	–	28-48	–	115.9	–	M45x3	1 3/4	–	–
750	30	1020	–	927.1	–	841	–	28-51	–	125.5	–	M48x3	1 7/8	–	–
800	32	1085	–	984.2	–	895	–	28-55	–	130.2	–	M52x3	2	–	–
850	34	1160	–	1054.1	–	953	–	24-60	–	141.3	–	M56x3	2 1/4	–	–
900	36	1215	–	1104.9	–	1010	–	28-60	–	146.1	–	M56x3	2 1/4	–	–
950	38	–	–	–	–										
1000	40	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1050	42	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1100	44	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1150	46	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1200	48	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1250	50	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1300	52	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1350	54	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1400	56	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1450	58	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1500	60	–	–	–	–	–	–	–	–	–	–	–	–	–	–


SYD373H/F


SYD673H/F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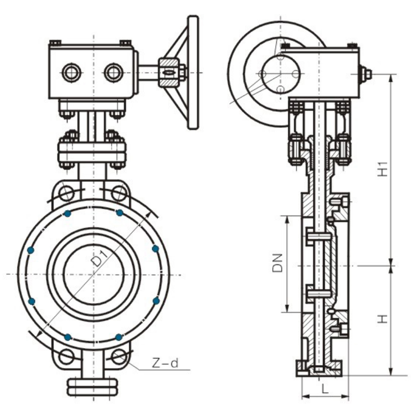
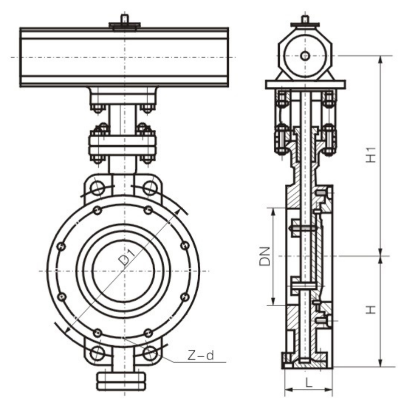
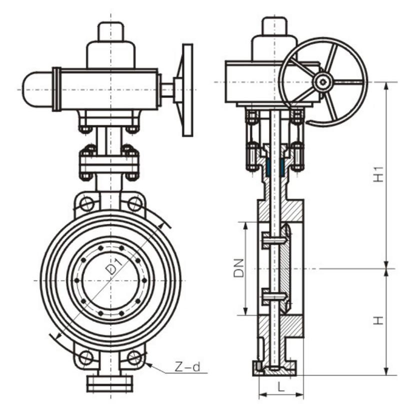






◆ 主要性能参数 Main performance parameter

公称通径 Nominal diameter DN(mm)	公称压力 Nominal pressure PN(MPa)	试验压力 Test pressure(MPa) 强度试验 Strength test	密封试验 Seal test	气密封试验 Gas seal test	适用介质 Suitable medium	适用温度 Suitable temperature
50～1600	0.25	0.375	0.275	0.5～0.7MPa	水、油品、蒸汽、煤气、酸、碱等 Water, oil, steam, coal gas, acid, alkali	-40℃～570℃
	0.6	0.9	0.66			
	1.0	1.5	1.1			
	1.6	2.4	1.76			
	2.5	3.75	2.75			
	4.0	6.0	4.4			
	6.4	9.6	7.04			

◆ 主要零部件材料 Material for main parts

名称 Name	材料 Material
阀体 Body	碳钢、不锈钢、铬钼钒钢、合金钢、铝青铜等 Carbon steel, stainless steel, chromium molybdenum vanadium steel, alloy steel, aluminum bronze, etc
阀板 Disc	碳钢、不锈钢、铬钼钒钢 Carbon steel, Stainless steel, Chrome-molybdenumvanadium steel
阀杆 Stem	2Cr13 不锈钢、铬钼钒钢 17-4PH等 Stainless steel, Chrome-molybdenum-vanadium steel,7-4PH etc
密封圈 Seal ring	不锈钢、聚四氟乙烯、硬软叠层式金属片 Stainless steel, PTFE, Hard and soft laminated metal flakes
阀座 Seat	不锈钢、堆司太立等硬质合金 Stainless steel, Satile etc.hard alloy
填料 Packing	柔性石墨、聚四氟乙烯 Flexible graphite, PTFE

◆ 连接尺寸 Connection dimension

单位Unit: mm

通径 Diameter (mm)	主要尺寸 Main dimension L1	L2	H	H1	0.25MPa D1	D2	Z-φ(M)d	0.6MPa D1	D2	Z-φ(M)d	1.0MPa D1	D2	Z-φ(M)d
SYD373H/F、D673H/F、D973H/F													
50	43	43	72	200	110	90	4-φ14	110	90	4-φ14	125	100	4-φ18
65	46	46	110	225	130	110	4-φ14	130	110	4-φ14	145	120	4-φ18
80	49	64	115	240	150	125	4-φ18	150	125	4-φ18	160	135	4-φ18
100	56	64	130	255	170	145	4-φ18	170	145	4-φ18	180	155	4-φ18
125	64	70	150	305	200	175	4-φ18	200	175	4-φ18	210	185	4-φ18
150	70	76	165	325	225	200	4-φ18	225	200	4-φ18	240	210	4-φ22
200	71	89	210	380	280	255	4-φ18	280	255	4-φ18	295	265	4-φ22
250	76	114	245	410	335	310	4-φ18	335	310	4-φ18	350	320	4-φ22
300	83	114	280	460	395	362	4-φ22	395	362	4-φ22	400	368	4-φ22
350	92	127	315	525	445	412	4-φ22	445	412	4-φ22	460	428	4-φ22
400	102	140	345	545	495	462	4-φ22	495	462	4-φ22	515	482	4-φ26
450	114	152	380	630	550	518	4-φ22	550	518	4-φ22	565	532	4-φ26
500	127	152	415	650	600	568	4-φ22	600	568	4-φ22	620	585	4-φ26
600	154	178	460	680	705	670	4-φ26	705	670	4-φ26	725	685	4-φ30
700	165	229	488	780	810	775	4-φ26	810	775	4-φ26	840	800	4-M27
800	190	241	572	860	920	880	4-φ30	920	880	4-φ30	950	905	4-M30
900	203	241	628	900	1020	980	4-φ30	1020	980	4-φ30	1050	1005	4-M30
1000	216	300	698	1000	1120	1080	4-φ30	1120	1080	4-φ30	1160	1115	4-M33
1200	254	360	810	1100	1320	1280	4-φ30	1340	1295	4-φ33	1380	1325	4-M36
1400	279	390	940	1200	1520	1480	4-φ30	1560	1510	4-φ36	1590	1530	4-M39
1600	318	440	1090	1330	1730	1690	4-φ30	–	–	–	–	–	–

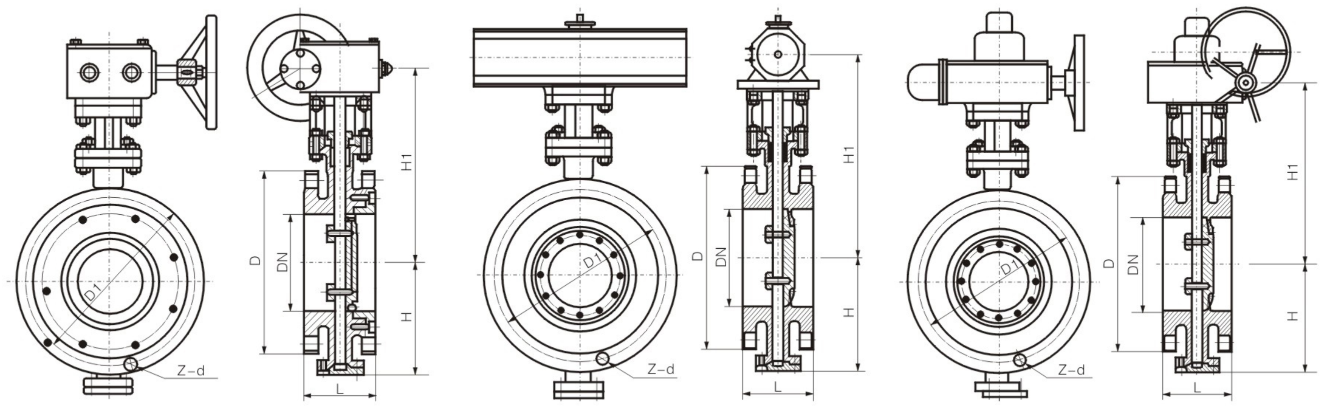
通径 Diameter (mm)	主要尺寸 Main dimension L1	L2	H	H1	1.6MPa D1	D2	Z-φ(M)d	2.5MPa D1	D2	Z-φ(M)d	4.0MPa D1	D2	Z-φ(M)d
50	43	43	72	200	125	100	4-φ18	125	100	4-φ18	125	100	4-φ18
65	46	46	110	225	145	120	4-φ18	145	120	4-φ18	145	120	4-φ18
80	49	64	115	240	160	135	4-φ18	160	135	4-φ18	160	135	4-φ18
100	56	64	130	255	180	155	4-φ18	190	160	4-φ22	190	160	4-φ22
125	64	70	150	305	210	185	4-φ18	220	188	4-φ26	220	188	4-φ26
150	70	76	165	325	240	210	4-φ22	250	218	4-φ26	250	218	4-φ26
200	71	89	210	380	295	265	4-φ22	310	278	4-φ26	320	282	4-φ30
250	76	114	245	410	355	320	4-φ26	370	332	4-φ30	385	345	4-φ33
300	83	114	280	460	410	375	4-φ26	430	390	4-φ30	450	408	4-φ33
350	92	127	315	525	470	435	4-φ26	490	448	4-φ33	510	465	4-φ36
400	102	140	345	545	525	485	4-φ30	550	505	4-φ36	585	535	4-φ39
450	114	152	380	630	585	545	4-M27	600	555	4-M33	610	560	4-M36
500	127	152	415	650	650	608	4-M30	660	610	4-M33	670	612	4-M39
600	154	178	460	680	775	718	4-M33	770	718	4-M36	795	735	4-M45
700	165	229	488	780	840	788	4-M33	875	815	4-M39	–	–	–
800	190	241	572	860	950	898	4-M36	990	930	4-M45	–	–	–
900	203	241	628	900	1050	998	4-M36	1090	1028	4-M45	–	–	–
1000	216	300	698	1000	1170	1110	4-M39	1210	1140	4-M52	–	–	–
1200	254	360	810	1100	1390	1325	4-M45	1420	1350	4-M52	–	–	–
1400	279	390	940	1200	1590	1530	4-M45	–	–	–	–	–	–
1600	318	440	–	–	–	–	–	–	–	–	–	–	–

注：偏心型软密封(X)(J)蝶阀连接尺寸同上。
Note: Eccentric soft seal (X)(J) butterfly valve commection dimensions same as above.

SYD343H/F

SYD643H/F

SYD943H/F



◆ 主要性能参数 Main performance parameter

公称通径 Nominal diameter DN(mm)	公称压力 Nominal pressure PN(MPa)	试验压力 Test pressure(MPa)			适用介质 Suitable medium	适用温度 Suitable temperature
		强度试验 Strength test	密封试验 Seal test	气密封试验 Gas seal test		
50～2000	0.25	0.375	0.275	0.5～0.8MPa	水、油品、蒸汽、煤气、酸、碱等 Water, oil, steam, coal gas, acid, alkali	-40℃～570℃
	0.6	0.9	0.66			
	1.0	1.5	1.1			
	1.6	2.4	1.76			
	2.5	3.75	2.75			
	4.0	6.0	4.4			
	6.4	9.6	7.04			

◆ 主要零部件材料 Material for main parts

名称 Name	材料 Material
阀体 Body	碳钢、不锈钢、铬钼钒钢、合金钢、铝青铜等 Carbon steel, stainless steel, chromium molybdenum vanadium steel, alloy steel, aluminum bronze, etc
阀板 Disc	碳钢、不锈钢、铬钼钒钢 Carbon steel, Stainless steel, Chrome-molybdenumvanadium steel
阀杆 Stem	2Cr13 不锈钢、铬钼钒钢 17-4PH等 Stainless steel, Chrome-molybdenum-vanadium steel,7-4PH etc
密封圈 Seal ring	不锈钢、聚四氟乙烯、硬软叠层式金属片 Stainless steel, PTFE, Hard and soft laminated metal flakes
阀座 Seat	不锈钢、堆司太立等硬质合金 Stainless steel, Satile etc.hard alloy
填料 Packing	柔性石墨、聚四氟乙烯 Flexible graphite, PTFE

◆ 连接尺寸 Connection dimension

国标 GB/T 9113.1-2000 单位Unit: mm

通径 Diameter (mm)	主要尺寸 Main dimension				0.6MPa					1.0MPa					1.6MPa				
	L1	L2	H	H1	D	D1	D2	Z-φd	b×f	D	D1	D2	Z-φd	b×f	D	D1	D2	Z-φd	b×f
SYD343H/F、D643H/F、D943H/F																			
50	108	150	75	200	140	110	88	4-φ12	16×2	165	125	99	4-φ18	20×2	165	125	99	4-φ18	20×2
65	112	170	93	210	160	130	108	4-φ12	16×2	185	145	118	8-φ18	20×2	185	145	118	4-φ18	20×2
80	114	180	98	226	190	150	124	4-φ16	18×2	200	160	132	8-φ18	20×2	200	160	132	8-φ18	20×2
100	127	190	130	250	210	170	144	4-φ16	18×2	220	180	150	8-φ18	22×2	220	180	156	8-φ18	22×2
125	140	200	165	295	240	200	174	8-φ16	18×2	250	210	184	8-φ18	22×2	250	210	184	8-φ18	22×2
150	140	210	175	315	265	225	199	8-φ16	20×2	285	240	211	8-φ22	24×2	285	240	211	8-φ22	24×2
200	152	230	220	380	320	280	254	8-φ16	22×2	340	295	266	8-φ22	24×2	340	295	266	12-φ22	24×2
250	165	250	250	405	375	335	309	12-φ16	24×2	395	350	319	12-φ22	26×2	405	355	319	12-φ26	26×2
300	178	270	300	480	440	395	363	12-φ20	24×2	445	400	370	12-φ22	26×2	460	410	370	12-φ26	28×2
350	190	290	330	545	490	445	413	12-φ20	24×2	505	460	429	16-φ22	26×2	520	470	429	16-φ26	30×2
400	216	310	360	550	540	495	463	16-φ20	24×2	565	515	480	16-φ26	26×2	580	525	480	16-φ30	32×2
450	222	330	380	620	595	550	518	16-φ20	24×2	615	565	530	20-φ26	28×2	640	585	548	20-φ30	40×2
500	229	350	410	680	645	600	568	20-φ20	26×2	670	620	582	20-φ26	28×2	715	650	609	20-φ33	44×2
600	267	390	460	750	755	705	667	20-φ24	30×2	780	725	682	20-φ30	34×2	840	770	720	20-φ36	54×2
700	292	430	530	820	860	810	772	24-φ24	26×5	895	840	794	24-φ30	34×5	910	840	794	24-φ36	40×5
800	318	470	610	910	975	920	878	24-φ27	26×5	1015	950	901	24-φ33	36×5	1025	950	901	24-φ39	42×5
900	330	510	640	930	1075	1020	978	24-φ27	26×5	1115	1050	1001	28-φ33	38×5	1125	1050	1001	28-φ39	44×5
1000	410	550	720	980	1175	1120	1078	28-φ27	26×5	1230	1160	1112	28-φ36	38×5	1255	1170	1112	28-φ42	46×5
1200	470	630	820	1220	1405	1340	1295	32-φ30	28×5	1455	1380	1328	32-φ39	44×5	1485	1390	1328	32-φ48	52×5
1400	530	710	930	1310	1630	1560	1510	36-φ33	32×5	1675	1590	1530	36-φ42	48×5	1685	1590	1530	36-φ48	58×5
1600	600	790	980	1460	1830	1760	1710	40-φ33	34×5	1915	1820	1750	40-φ48	52×5	1930	1820	1750	40-φ55	64×5
1800	670	870	1090	1560	2045	1970	1918	44-φ36	36×5	2115	2020	1950	44-φ48	56×5	2130	2020	1950	44-φ55	68×5
2000	760	950	1190	1670	2265	2180	2125	48-φ39	38×5	2325	2230	2150	48-φ48	60×5	2345	2230	2150	48-φ60	70×5

通径 Diameter (mm)	2.5MPa					4.0MPa					6.4MPa					10.0MPa				
	D	D1	D2	Z-φd	b×f	D	D1	D2	Z-φd	b×f	D	D1	D2	Z-φd	b×f	D	D1	D2	Z-φd	b×f
50	165	125	99	4-φ18	20×2	165	125	99	4-φ18	20×2	180	135	99	4-φ22	26×2	195	145	99	4-φ26	28×2
65	185	145	118	8-φ18	22×2	185	145	118	8-φ18	22×2	205	160	118	8-φ22	26×2	220	170	118	8-φ26	30×2
80	200	160	132	8-φ18	24×2	200	160	132	8-φ18	24×2	215	170	132	8-φ22	28×2	230	180	132	8-φ26	32×2
100	235	190	156	8-φ22	24×2	235	190	156	8-φ22	24×2	250	200	156	8-φ26	30×2	265	210	156	8-φ30	36×2
125	270	220	184	8-φ26	26×2	270	220	184	8-φ26	26×2	295	240	184	8-φ30	34×2	315	250	184	8-φ33	40×2
150	300	250	211	8-φ26	28×2	300	250	211	8-φ26	28×2	345	280	211	8-φ33	36×2	355	290	211	12-φ33	44×2
200	360	310	274	12-φ26	30×2	375	320	284	12-φ30	34×2	415	345	284	12-φ36	42×2	430	360	284	12-φ36	52×2
250	425	370	330	12-φ30	32×2	450	385	345	12-φ33	38×2	470	400	345	12-φ36	46×2	505	430	345	12-φ39	60×2
300	485	430	389	16-φ30	34×2	515	450	409	16-φ33	42×2	530	460	409	16-φ36	52×2	585	500	409	16-φ42	68×2
350	555	490	448	16-φ33	38×2	580	510	465	16-φ36	46×2	600	525	465	16-φ39	56×2	655	560	465	16-φ48	74×2
400	620	550	503	16-φ36	40×2	660	585	535	16-φ39	50×2	670	585	535	16-φ42	60×2	715	620	535	16-φ48	82×2
450	670	600	548	20-φ36	46×2	685	610	560	20-φ39	57×2	–	–	–	–	–	–	–	–	–	–
500	730	660	609	20-φ36	48×2	755	670	615	20-φ42	57×2	–	–	–	–	–	–	–	–	–	–
600	845	770	720	20-φ39	58×2	890	795	735	20-φ48	72×2	–	–	–	–	–	–	–	–	–	–
700	960	875	820	24-φ42	50×5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
800	1085	990	928	24-φ48	54×5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
900	1185	1090	1028	28-φ48	58×5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1000	1320	1210	1140	28-φ55	62×5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1200	1530	1420	1350	32-φ55	70×5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1400	1755	1640	1560	36-φ60	76×5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1600	1975	1860	1780	40-φ60	84×5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1800	2195	2070	1985	44-φ68	90×5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2000	2425	2300	2210	48-φ68	96×5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

◆连接尺寸 Connection dimension

机械部 JB/T 79.1–1994 / JB/T 82.1–1994 单位Unit: mm

通径 Diameter (mm)	主要尺寸 Main dimension				0.25MPa					0.6MPa					1.0MPa				
	L1	L2	H	H1	D	D1	D2	Z–φd	b×f	D	D1	D2	Z–φd	b×f	D	D1	D2	Z–φd	b×f
SYD343H/F、D643H/F、D943H/F																			
50	108	150	75	200	140	110	90	4–φ14	12×3	140	110	90	4–φ14	14×3	165	125	100	4–φ18	16×3
65	112	170	93	210	160	130	110	4–φ14	12×3	160	130	110	4–φ14	14×3	185	145	120	4–φ18	18×3
80	114	180	98	226	190	150	125	4–φ18	14×3	190	150	125	4–φ18	16×3	200	160	135	4–φ18	18×3
100	127	190	130	250	210	170	145	4–φ18	14×3	210	170	145	4–φ18	16×3	220	180	155	8–φ18	20×3
125	140	200	165	295	240	200	175	8–φ18	14×3	240	200	175	8–φ18	18×3	250	210	185	8–φ18	22×3
150	140	210	175	315	265	225	200	8–φ18	14×3	265	225	200	8–φ18	18×3	285	240	210	8–φ23	22×3
200	152	230	220	380	320	280	255	8–φ18	16×3	320	280	255	8–φ18	20×3	340	295	265	8–φ23	22×3
250	165	250	250	405	375	335	310	12–φ18	20×3	375	335	310	12–φ18	22×3	395	350	320	12–φ23	24×3
300	178	270	300	480	440	395	362	12–φ23	20×4	440	395	362	12–φ23	22×4	445	400	368	12–φ23	26×4
350	190	290	330	545	490	445	412	12–φ23	20×4	490	445	412	12–φ23	22×4	505	460	428	16–φ23	26×4
400	216	310	360	550	540	495	462	16–φ23	20×4	540	495	462	16–φ23	22×4	565	515	482	16–φ26	26×4
450	222	330	380	620	595	550	518	16–φ23	20×4	595	550	518	16–φ23	22×4	615	565	532	20–φ26	26×4
500	229	350	410	680	645	600	568	16–φ23	24×4	645	600	568	16–φ23	24×4	670	620	585	20–φ26	28×4
600	267	390	460	750	755	705	670	20–φ26	24×5	755	705	670	20–φ26	24×5	780	725	685	20–φ30	28×5
700	292	430	530	820	860	810	775	24–φ26	24×5	860	810	775	24–φ26	24×5	895	840	800	24–φ30	30×5
800	318	470	610	910	975	920	880	24–φ30	24×5	975	920	880	24–φ30	24×5	1015	950	905	24–φ34	32×5
900	330	510	640	930	1075	1020	980	24–φ30	26×5	1075	1020	980	24–φ30	26×5	1115	1050	1005	28–φ34	34×5
1000	410	550	720	980	1175	1120	1080	28–φ30	26×5	1175	1120	1080	28–φ30	26×5	1230	1160	1115	28–φ36	34×5
1200	470	630	820	1220	1375	1320	1280	32–φ30	28×5	1405	1340	1290	32–φ34	28×5	1455	1380	1325	32–φ41	38×5
1400	530	710	930	1310	1575	1520	1480	36–φ30	28×5	1630	1560	1510	36–φ34	32×5	–	–	–	–	–
1600	600	790	980	1460	1790	1730	1690	40–φ30	28×5	–	–	–	–	–	–	–	–	–	–
1800	670	870	1090	1560	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2000	760	950	1190	1670	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

通径 Diameter (mm)	主要尺寸 Main dimension				1.6MPa					2.5MPa					4.0MPa				
	L1	L2	H	H1	D	D1	D2	Z–φd	b×f	D	D1	D2	Z–φd	b×f	D	D1	D2	Z–φd	b×f
50	108	150	75	200	165	125	100	4–φ18	16×3	165	125	100	4–φ18	20×3	165	125	100	4–φ18	20×3
65	112	170	93	210	185	145	120	4–φ18	18×3	185	145	120	8–φ18	22×3	185	145	120	8–φ18	22×3
80	114	180	98	226	200	160	135	8–φ18	20×3	200	160	135	8–φ18	22×3	200	160	135	8–φ18	24×3
100	127	190	130	250	220	180	155	8–φ18	20×3	230	190	160	8–φ23	24×3	235	190	160	8–φ23	26×3
125	140	200	165	295	250	210	185	8–φ18	22×3	270	220	188	8–φ26	26×3	270	220	188	8–φ26	28×3
150	140	210	175	315	285	240	210	8–φ23	22×3	300	250	218	8–φ26	28×3	300	250	218	8–φ26	30×3
200	152	230	220	380	340	295	265	12–φ23	24×3	360	310	278	12–φ26	30×3	375	320	282	12–φ30	38×3
250	165	250	250	405	405	355	320	12–φ26	26×3	425	370	332	12–φ30	32×3	450	385	345	12–φ34	42×3
300	178	270	300	480	460	410	375	12–φ26	28×4	485	430	390	16–φ30	36×4	515	450	408	16–φ34	46×4
350	190	290	330	545	520	470	435	16–φ26	32×4	555	490	448	16–φ34	40×4	580	510	465	16–φ36	52×4
400	216	310	360	550	580	525	485	16–φ30	36×4	620	550	505	16–φ36	44×4	660	585	535	16–φ41	58×4
450	222	330	380	620	640	585	545	20–φ30	38×4	670	600	555	20–φ36	46×4	685	610	560	20–φ41	60×4
500	229	350	410	680	715	650	608	20–φ34	42×4	730	660	610	20–φ36	48×4	755	670	612	20–φ42	62×4
600	267	390	460	750	840	770	718	20–φ36	46×5	845	770	718	20–φ41	54×5	–	–	–	–	–
700	292	430	530	820	910	840	788	24–φ36	48×5	960	875	815	24–φ42	58×5	–	–	–	–	–
800	318	470	610	910	1025	950	898	24–φ41	50×5	1085	990	930	24–φ48	60×5	–	–	–	–	–
900	330	510	640	930	1125	1050	998	28–φ41	52×5	–	–	–	–	–	–	–	–	–	–
1000	410	550	720	980	1255	1170	1110	28–φ42	54×5	–	–	–	–	–	–	–	–	–	–
1200	470	630	820	1220	1485	1390	1325	32–φ48	56×5	–	–	–	–	–	–	–	–	–	–
1400	530	710	930	1310	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1600	600	790	980	1460	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1800	670	870	1090	1560	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2000	760	950	1190	1670	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

◆连接尺寸 Connection dimension

化工部 HG 20592–97 单位Unit: mm

通径 Diameter (mm)	主要尺寸 Main dimension				0.25MPa					0.6MPa					1.0MPa				
	L1	L2	H	H1	D	D1	D2	Z–φd	b×f	D	D1	D2	Z–φd	b×f	D	D1	D2	Z–φd	b×f
SYD343H/F、D643H/F、D943H/F																			
50	108	150	75	200	140	110	90	4–φ14	14×2	140	110	90	4–φ14	14×2	165	125	102	4–φ18	18×2
65	112	170	93	210	160	130	110	4–φ14	14×2	160	130	110	4–φ14	14×2	185	145	122	8–φ18	18×2
80	114	180	98	226	190	150	128	4–φ18	16×2	190	150	128	4–φ18	16×2	200	160	138	8–φ18	20×2
100	127	190	130	250	210	170	148	4–φ18	16×2	210	170	148	4–φ18	16×2	220	180	158	8–φ18	20×2
125	140	200	165	295	240	200	178	8–φ18	18×2	240	200	178	8–φ18	18×2	250	210	188	8–φ18	22×2
150	140	210	175	315	265	225	202	8–φ18	18×2	265	225	202	8–φ18	18×2	285	240	212	8–φ22	22×2
200	152	230	220	380	320	280	258	8–φ18	20×2	320	280	258	8–φ18	20×2	340	295	268	8–φ22	24×2
250	165	250	250	405	375	335	312	12–φ18	22×2	375	335	312	12–φ18	22×2	395	350	320	12–φ22	26×2
300	178	270	300	480	440	392	365	12–φ22	22×2	440	395	365	12–φ22	22×2	445	400	370	12–φ22	26×2
350	190	290	330	545	490	445	415	12–φ22	22×2	490	445	415	12–φ22	22×2	505	460	430	16–φ22	26×2
400	216	310	360	550	540	495	465	16–φ22	22×2	540	495	465	16–φ22	22×2	565	515	482	16–φ26	26×2
450	222	330	380	620	595	550	520	16–φ22	22×2	595	550	520	16–φ22	22×2	615	565	532	20–φ26	28×2
500	229	350	410	680	645	600	570	20–φ22	24×2	645	600	570	20–φ22	24×2	670	620	585	20–φ26	28×2
600	267	390	460	750	755	705	670	20–φ26	30×2	755	705	670	20–φ26	30×2	780	725	685	20–φ30	34×2
700	292	430	530	820	860	810	775	24–φ26	24×2	860	810	775	24–φ26	24×2	895	840	800	24–φ30	34×2
800	318	470	610	910	975	920	880	24–φ30	24×2	975	920	880	24–φ30	24×2	1015	950	905	24–φ33	36×2
900	330	510	640	930	1075	1020	980	24–φ30	26×2	1075	1020	980	24–φ30	26×2	1115	1050	1005	28–φ33	38×2
1000	410	550	720	980	1175	1120	1080	28–φ30	26×2	1175	1120	1080	28–φ30	26×2	1230	1160	1110	28–φ36	38×2
1200	470	630	820	1220	1375	1320	1280	32–φ30	28×2	1405	1340	1295	32–φ33	28×2	1455	1380	1330	32–φ39	44×2
1400	530	710	930	1310	1575	1520	1480	36–φ30	32×2	1630	1560	1510	36–φ36	32×2	1675	1590	1535	36–φ42	48×2
1600	600	790	980	1460	1790	1730	1690	40–φ30	34×2	1830	1760	1710	40–φ36	34×2	1915	1820	1760	40–φ48	52×2
1800	670	870	1090	1560	1990	1930	1890	44–φ30	36×2	2045	1970	1920	44–φ39	36×2	2115	2020	1960	44–φ48	56×2
2000	760	950	1190	1670	2190	2130	2090	48–φ30	38×2	2265	2180	2125	48–φ42	38×2	2325	2230	2170	48–φ48	60×2

通径 Diameter (mm)	1.6MPa					2.5MPa					4.0MPa					6.4MPa				
	D	D1	D2	Z–φd	b×f	D	D1	D2	Z–φd	b×f	D	D1	D2	Z–φd	b×f	D	D1	D2	Z–φd	b×f
50	165	125	102	4–φ18	18×2	165	125	102	4–φ18	20×2	165	125	102	4–φ18	22×2	180	135	102	4–φ22	26×2
65	185	145	122	8–φ18	18×2	185	145	122	8–φ18	22×2	185	145	122	8–φ18	22×2	205	160	122	8–φ22	26×2
80	200	160	138	8–φ18	20×2	200	160	138	8–φ18	24×2	200	160	138	8–φ18	24×2	215	170	138	8–φ22	28×2
100	220	180	158	8–φ18	20×2	235	190	162	8–φ22	24×2	235	190	162	8–φ22	24×2	250	200	162	8–φ26	30×2
125	250	210	188	8–φ18	22×2	270	220	188	8–φ26	26×2	270	220	188	8–φ26	26×2	295	240	188	8–φ30	34×2
150	285	240	212	8–φ22	22×2	300	250	218	8–φ26	28×2	300	250	218	8–φ26	28×2	345	280	218	8–φ33	36×2
200	340	295	268	12–φ22	24×2	360	310	278	12–φ26	30×2	375	320	285	12–φ30	34×2	415	345	285	12–φ36	42×2
250	405	355	320	12–φ26	26×2	425	370	335	12–φ30	32×2	450	385	345	12–φ33	38×2	470	400	345	12–φ36	46×2
300	460	410	378	12–φ26	28×2	485	430	395	16–φ30	34×2	515	450	410	16–φ33	42×2	530	460	410	16–φ36	52×2
350	520	470	428	16–φ26	30×2	555	490	450	16–φ33	38×2	580	510	465	16–φ36	46×2	600	525	465	16–φ39	56×2
400	580	525	490	16–φ30	32×2	620	550	505	16–φ36	40×2	660	585	535	16–φ39	50×2	670	585	535	16–φ42	60×2
450	640	585	550	20–φ30	40×2	670	600	555	20–φ36	46×2	685	610	560	20–φ39	57×2	–	–	–	–	–
500	715	650	610	20–φ33	44×2	730	660	615	20–φ36	48×2	755	670	615	20–φ42	57×2	–	–	–	–	–
600	840	770	725	20–φ36	54×2	845	770	720	20–φ39	58×2	890	795	735	20–φ48	72×2	–	–	–	–	–
700	910	840	795	24–φ36	42×2	960	875	820	24–φ42	50×2	–	–	–	–	–	–	–	–	–	–
800	1025	950	900	24–φ39	42×2	1085	990	930	24–φ48	54×2	–	–	–	–	–	–	–	–	–	–
900	1125	1050	1000	28–φ39	44×2	1185	1090	1030	28–φ48	58×2	–	–	–	–	–	–	–	–	–	–
1000	1255	1170	1115	28–φ42	46×2	1320	1210	1140	28–φ55	62×2	–	–	–	–	–	–	–	–	–	–
1200	1485	1390	1330	32–φ48	52×2	1530	1420	1350	32–φ55	70×2	–	–	–	–	–	–	–	–	–	–
1400	1685	1590	1530	36–φ48	58×2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1600	1930	1820	1750	40–φ56	64×2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
1800	2130	2020	1950	44–φ56	68×2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2000	2345	2230	2150	48–φ62	70×2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

◆ 用途及特点 Purpose and characteristic

软密封蝶阀适用于温度≤120℃，公称压力≤1.6MPa的食品、医药、化工、石油、电力、冶金、城建、轻纺、造纸等给排水、气体管道上作调节流量和截流介质的作用。其主要特点为：

1、设计新颖、合理，结构独特，重量轻，启闭迅速。
2、操力矩小，操作方便，省力灵巧。
3、可以任何位置安装、维修方便。
4、密封件可以更换，密封性能可靠达到双向密封零泄漏。
5、密封材料耐老化、耐腐蚀，使用寿命长等特点。

Soft sealing butterfly valve is suitable for water supplying and draining, gas pipe as adjust flux and cut off medium in foodstuff,pharmacy,chemical Industry, petroleum, electric power, light textile, paper making etc with temperature≤120℃, nominal pressure≤1.6MPa.

The main characteristic such as:

1. Novel and reasonable design, special structure, light and start and stop rapidly.
2. Tiny operative moment, operation conveniently and skillfully.
3. Installation in any position, easy to maintain
4. It can exchange sealed component, antisepsis, reliable hermetical capacity and seal in double direction with zero leakage.
5. Hermetical material aging resistant, antisepsis, and long service life etc.

◆ 采用标准 Adoption standard

设计标准 Design standard	法兰连接尺寸 Flange connection dimension	结构长度 Structure length	压力试验 Pressure test
GB/T12238-1989 ISO 10631-1994 BS EN593-1998	GB/T17241.6-1998 ISO 7005-2 BSEN1092-2002	GB/T12221-1989 ISO 5752-1988 BS EN558-1	GB/T13927-1992 JB/T9092-1999 ISO 5028-1993 BS 6755-I-1986

◆ 主要性能参数 Main performance parameter

公称通径 Nominal diameter DN(mm)	公称压力 Nominal pressure PN(MPa)	试验压力 Test pressure		适用介质 Suitable medium	驱动形式 Drive modality
		强度试验 Strength test	密封试验 Seal test		
50~2000	0.6	0.9	0.66	空气、水、污水、蒸气、煤气、油品等 Air, Water, Sewage, Steam, Coal gas, Oil etc.	手动、蜗轮传动、气传动、电传动 Hand drive, Worm wheel drive, Pneumatic drive, Electric drive
	1.0	1.5	1.1		
	1.6	2.4	1.76		

◆ 主要零部件材料 Material for main parts

零件名称 Parts name	材料 Material
阀体 Body	球墨铸铁、铸钢、合金钢、不锈钢 Ductile cast iron, Cast steel, Alloy steel, Stainless steel
蝶板 Disc	灰铸铁、球墨铸钢、铸钢、不锈钢及特殊材料 Gray cast iron, Ductile cast steel, Cast steel, Stainless steel and ad hoc material
密封圈 Seal ring	各种橡胶、聚四氟乙烯 Manifold rubber
阀杆 Stem	2Cr13、不锈钢 Stainless steel
填料 Packing	O型圈、柔性石墨 O Type ring, Flexible graphite

◆ 密封材料选用和适用温度 Seal material choice and appropriate temperature

材料品种 Material variety	氯丁橡胶 Neoprene	丁腈橡胶 Styrene rubber	乙丙橡胶 Ethane propyl rubber	聚四氟乙烯 PTFE	硅橡胶 Silicon rubber	氟橡胶 Fluorine rubber
代号 Code name	X或or J	XA或or JA	XB或or JB	XC、JC或or F	XD或or JD	XE或or JE
耐最高温度 Resistance highest temperature	82℃	93℃	150℃	232℃	250℃	204℃
耐最低温度 Resistance lowest temperature	-40℃	-40℃	-40℃	-268℃	-70℃	-23℃
适用工作温度 Appropriate working temperature	≤65℃	≤80℃	≤120℃	≤200℃	≤200℃	≤180℃

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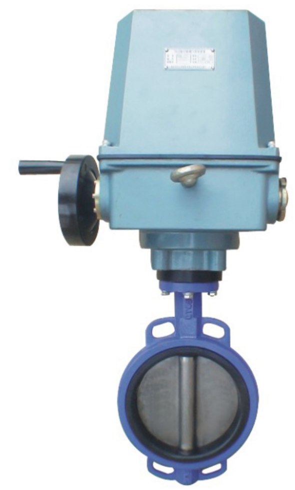

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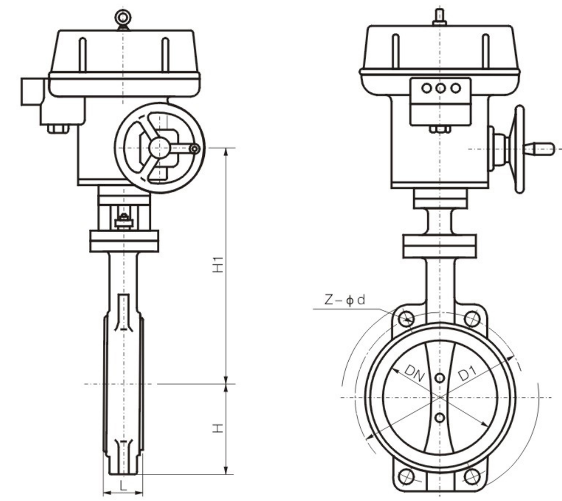

◆ 连接尺寸 Connection dimension

单位Unit: mm

公称通径 Nominal diameter		主要尺寸 Main dimension			0.25MPa~0.6MPa			1.0MPa			1.6MPa		
mm	inch	L	H	H1	D1	Z-ϕ(M)d	a	D1	Z-ϕ(M)d	a	D1	Z-ϕ(M)d	a
SYD71、D371、D671、D971 (X.J)													
50	2	43	80	160	110	4-ϕ14	45°	125	4-ϕ18	45°	125	4-ϕ18	45°
65	2 1/2	46	88	175	130	4-ϕ14	45°	145	4-ϕ18	45°	145	4-ϕ18	45°
80	3	46	96	180	150	4-ϕ18	22° 30'	160	4-ϕ18	22° 30'	160	4-ϕ18	22° 30'
100	4	52	115	200	170	4-ϕ18	22° 30'	180	4-ϕ18	22° 30'	180	4-ϕ18	22° 30'
125	5	56	128	213	200	4-ϕ18	22° 30'	210	4-ϕ18	22° 30'	210	4-ϕ18	22° 30'
150	6	56	140	225	225	4-ϕ18	22° 30'	240	4-ϕ23	22° 30'	240	4-ϕ23	22° 30'
200	8	60	175	260	280	4-ϕ18	22° 30'	295	4-ϕ23	22° 30'	295	4-ϕ23	15°
250	10	68	202	290	335	4-ϕ18	15°	350	4-ϕ23	15°	355	4-ϕ25	15°
300	12	78	242	330	395	4-ϕ23	15°	400	4-ϕ23	15°	410	4-ϕ25	15°
350	14	78	266	360	445	4-ϕ23	11° 15'	460	4-ϕ23	11° 15'	470	4-ϕ25	11° 15'
400	16	102	298	390	495	4-ϕ23	11° 15'	515	4-ϕ25	11° 15'	525	4-ϕ30	11° 15'
450	18	114	315	410	550	4-ϕ23	9°	565	4-ϕ25	9°	585	4-ϕ30	9°
500	20	127	348	430	600	4-ϕ23	9°	620	4-ϕ25	9°	650	4-ϕ34	9°
600	24	154	400	490	705	4-ϕ25	9°	725	4-ϕ30	9°	770	4-ϕ41	9°
700	28	165	520	550	810	4-ϕ25	7° 30'	840	4-M27	7° 30'	840	4-M36	7° 30'
800	32	190	591	610	920	4-ϕ30	7° 30'	950	4-M30	7° 30'	950	4-M36	7° 30'
900	36	203	660	680	1020	4-M27	6° 26'	1050	4-M30	6° 26'	1050	4-M36	6° 26'
1000	40	216	670	730	1120	4-M27	6° 26'	1160	4-M30	6° 26'	1170	4-M42	6° 26'
1200	48	254	780	835	1340	4-M30	5° 38'	1380	4-M36	5° 38'	1390	4-M45	5° 38'
1400	56	279	950	985	1560	4-M33	-	-	-	-	-	-	-

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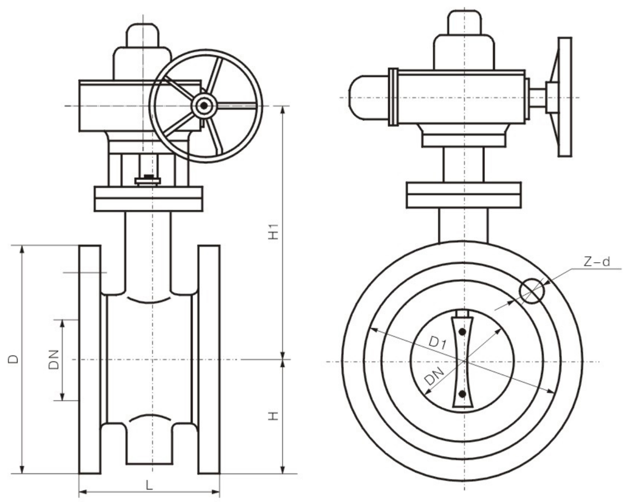

◆ 连接尺寸 Connection dimension

单位Unit: mm

公称通径 Nominal diameter		主要尺寸 Main dimension			0.25MPa～0.6MPa			1.0MPa			1.6MPa		
mm	inch	L	H	H1	D	D1	Z-φd	D	D1	Z-φd	D	D1	Z-φd
SYD41、D341、D641、D941(X.J)													
80	3	114	115	235	185	150	4-18	195	160	4-18	195	160	8-18
100	4	127	120	240	205	170	4-18	215	180	8-18	215	180	8-18
125	5	140	130	270	235	200	8-18	245	210	8-18	245	210	8-18
150	6	140	150	300	260	225	8-18	280	240	8-23	280	240	8-23
200	8	152	180	300	315	280	8-18	335	295	8-23	335	295	12-23
250	10	250	220	400	370	335	12-18	390	350	12-23	405	355	12-25
300	12	270	250	410	435	395	12-23	440	400	12-23	460	410	12-25
350	14	290	270	460	485	445	12-23	500	460	16-23	520	470	16-25
400	16	310	290	510	535	495	16-23	565	515	16-25	585	525	16-30
450	18	330	320	560	590	550	20-23	615	565	20-25	640	585	20-30
500	20	350	360	590	640	600	20-23	670	620	20-25	705	650	20-34
600	24	390	390	660	755	705	20-25	780	725	20-30	840	770	20-41
700	28	430	460	780	860	810	24-25	895	840	24-30	910	840	24-41
800	32	470	530	850	975	920	24-30	1010	950	24-34	1020	950	24-41
900	36	510	570	920	1075	1020	24-30	1110	1050	28-34	1120	1050	28-41
1000	40	550	630	990	1175	1120	28-30	1220	1160	28-34	1255	1170	28-48
1200	48	630	750	1115	1400 1375	1340 1320	32-34 32-30	1450	1380	32-41	1485	1390	32-54
1400	56	710	850	1228	1620 1575	1560 1520	36-34 36-30	1675	1590	36-48	-	-	-
1600	64	790	990	1340	1820 1785	1760 1730	40-34 40-30	1915	1820	40-54	-	-	-
1800	72	870	1100	1570	2045 1985	1970 1930	44-41 44-30	2115	2020	44-54	-	-	-
2000	80	950	1170	1680	2265 2185	2180 2130	48-48 48-30	2325	2230	46-54	-	-	-

◆ 用途及特点 Purpose and characteristic

通风蝶阀采用与阀体相同材料加工成密封圈，其适用温度随阀体选材而定，公称压力≤1.0MPa，一般适用于工业、冶金、环保等管道作通风调节介质流量之用。其主要特点为：

1、设计新颖、合理，结构独特，重量轻，启闭迅速。
2、操力矩小，操作方便，省力灵巧。
3、采用适应的材料以满足低、中、高不同介质温度其及腐蚀性介质等。

Ventilated butterfly valve use same material as body to process gasket, the suitable temperature is according to material of body, nominal pressure is≤1.0MPa, generally, it is utilized in pipe of industry, metallurgy, environmental protection etc. as ventilation and adjust medium flux. The main characteristic as below:

1. Novel and reasonable design, particular configuration, light, and open and close rapidly.
2. Small operative moment, operation easily, laboursaving and skilful.
3. Use suitable material to satisfy low, middle, high different medium and corrosive medium etc.

◆ 采用标准 Adoption standard

设计标准 Design standard	法兰连接尺寸 Flange connection dimension	结构长度 Structure length	压力试验 Pressure test
GB/T12238-1989, JB/T8692-1998	GB/T9115.1-2000	GB/T12221-1989	GB/T13927-1992, JB/T9092-1999

◆ 主要性能参数 Main performance parameter

公称通径 Nominal diameter DN(mm)	公称压力 Nominal pressure PN(MPa)	试验压力 Test pressure		适用介质 Suitable medium	驱动形式 Drive modality
		强度试验 Strength test	密封试验 Seal test		
50～2000	0.05	0.075	≤1.5% 泄漏量 Leakage	煤气、含尘气体、烟道气等 Coal gas, Gas containing dust, Flue gas	手动、蜗杆蜗轮传动、气传动、电传动 Hand drive, Worm wheel drive, Pneumatic drive, Electric drive
	0.25	0.375			
	0.6	0.9			

◆ 主要零部件材料 Material for main parts

零件名称 Parts name	材料 Material
阀体 Body	铸钢、不锈钢、铬镍钼钛钢、铬钼钛钢等特殊材料 Cast steel, Stainless steel, Cr.Ni.Mo.Ti Steel, Cr.Mo.Ti Steel and ad hoc material
蝶板 Disc	铸钢、不锈钢、铬镍钼钛钢、铬钼钛钢等特殊材料 Cast steel, Stainless steel, Cr.Ni.Mo.Ti Steel, Cr.Mo.Ti Steel and ad hoc material
密封圈 Seal ring	与阀体相同 Same as body of valve
阀杆 Stem	碳钢、2Cr13、不锈钢、铬镍钼钛钢 Carbon steel, 2Cr13, Stainless steel, Cr.Ni.Mo.Ti steel
填料 Packing	柔性石墨 Flexible graphite

◆ 密封材料选用和适用温度 Seal material choice and appropriate temperature

材料品种 Material variety	碳素钢 Carbon steel	低温碳钢 Sub-zero carbonic steel	合金钢 Alloy steel		奥氏体不锈钢 ZG00Cr18Ni10	铬钼钢 Cr.Mo.Steel
代号 Code name	WCB	LCB	WC6或WC9	C5或C12	铬Cr-18型type、304、316	12CrMoV
耐最高温度 Resistance highest temperature	425℃	345℃	595℃	650℃	600℃	560℃
耐最低温度 Resistance lowest temperature	-29℃	-46℃	-29℃	-29℃	-196℃	-40℃
适用工作温度 Appropriate working temperature	≤425℃	≤345℃	≤595℃	≤650℃	≤600℃	≤560℃

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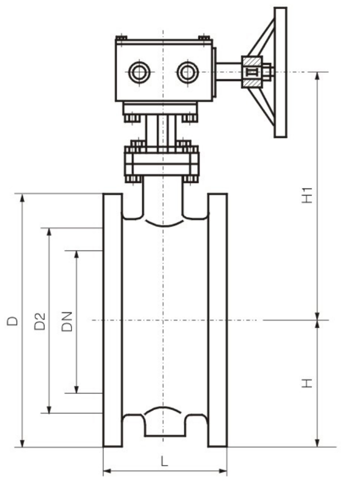

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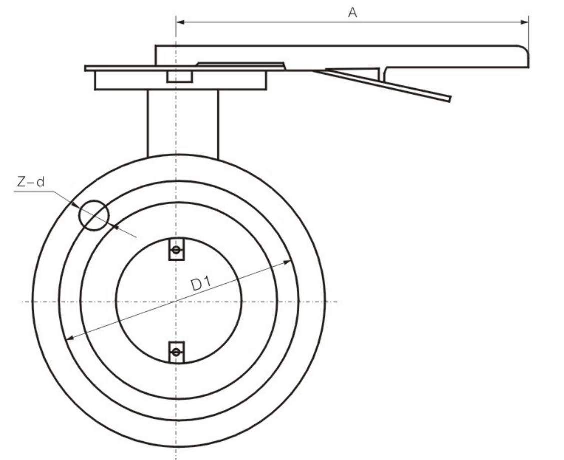

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◆ 连接尺寸 Series connection dimension

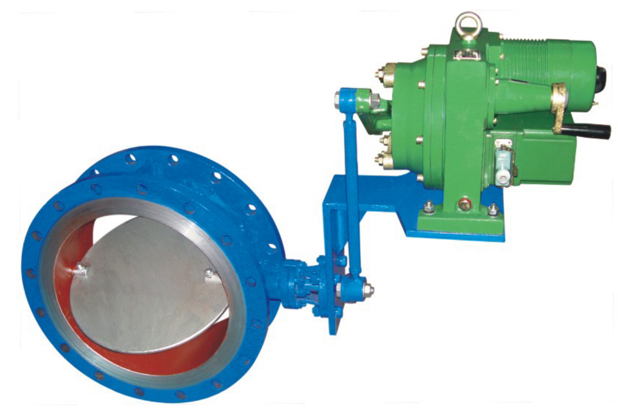
单位Unit: mm

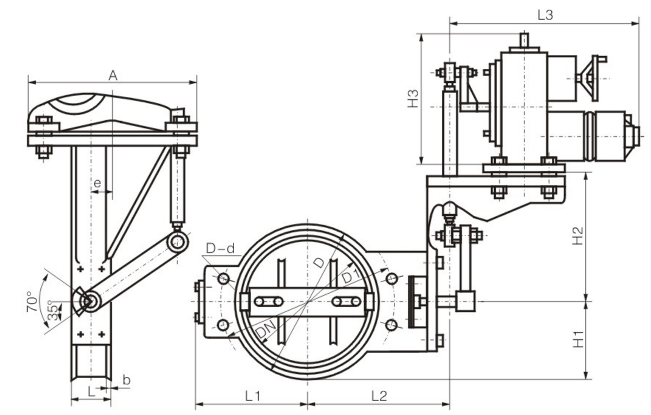
公称通径 Nominal diameter		结构长度(标准值) Structure length (standard)	外形尺寸(参考值) External dimension (consult)		连接尺寸(标准值) Connection dimension(standard)								参考重量(kg) Consult wight
					0.05MPa、0.25MPa				0.6MPa				
mm	inch	L	H	H1	D	D1	D2	Z-d	D	D1	D2	Z-d	
100	4	120	105	219	210	170	144	4-18	210	170	144	4-18	20
125	5	120	120	234	240	200	174	8-18	240	200	174	8-18	25
150	6	120	132	247	265	225	199	8-18	265	225	199	8-18	29
200	8	140	160	403	320	280	254	8-18	320	280	254	8-18	47
250	10	140	187	433	375	335	309	12-18	375	335	309	12-18	67
300	12	170	220	465	440	395	363	12-22	440	395	363	12-22	78
350	14	170	245	539	490	445	413	12-22	490	445	413	12-22	96
400	16	190	270	543	540	495	463	16-22	540	495	463	16-22	130
450	18	190	297	571	595	550	518	16-22	595	550	518	16-22	142
500	20	190	322	644	645	600	568	20-22	645	600	568	20-22	191
600	24	210	377	701	755	705	667	20-26	755	705	667	20-26	230
700	28	210	430	753	860	810	772	24-26	860	810	772	24-26	250
800	32	210	487	807	975	920	878	24-30	975	920	878	24-30	320
900	36	250	537	973	1075	1020	978	24-30	1075	1020	978	24-30	410
1000	40	250	587	1023	1175	1120	1078	28-30	1175	1120	1078	28-30	510
1200	48	250	687	1153	1375	1320	1280	32-30	1405	1340	1295	32-33	720
1400	56	300	760	1810	1575	1520	1480	36-30	1630	1560	1510	36-36	1270
1600	64	300	895	1815	1790	1730	1690	40-30	1830	1760	1710	40-36	1730
1800	72	300	995	1920	1990	1930	1890	44-30	2045	1970	1918	44-39	2750
2000	80	300	1095	2025	2190	2130	2090	48-30	2265	2180	2125	48-42	3050

◆ 用途及特点 Purpose and features

ZAJW型电动调节蝶同DKJ角行程电动执行机构和蝶阀组成，它与电动单元给合仪表配合使用。具有结构简单、口径大、重量轻、操作方便等特点。广泛应用于冶金，电站、石油、化工等部门。

ZAJW Electrical control butterfly with the DKJ angle traveling schedule electrically operated implementing agency and the reed valve composition, it for gathers the measuring appliance coordination use with the electrically operated unit. Has the structure simply, the caliber big, the weight light, characteristics and so on ease of operation. Widely applies in the metallurgy, departments and so on power plant, petroleum, chemical industry.





SYZAJW

◆ 规格与技术参数 Technical parameters

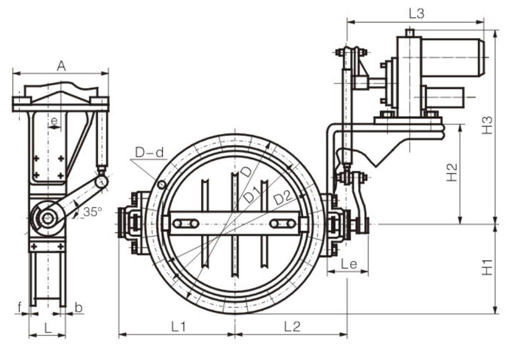
公称通径 Nominal diameter		额定流量系数 Rating flux coefficient Kv	执行机构号型 Matches the implementing agency	公称压力 Nominal pressure	介质温度 Medium temperautre	转角范围 Corner scope	流量特性 Flow chara-cteristic	接管法兰 Takes over control the flange	动作时间 Action time	阀体材质 Valve body material
mm	inch									
50	2	85	DKJ	0.6	常温(Normal temperature): -15~+200 (铸铁 Cast iron), -29~+250 (铸钢), 中温(middle temperature): -40~+450 (不锈钢 Stainless steel)	平行阀板 (Parallel valve board) 0~70° 倾板 (Leans the board) 0~60°	近似等百分比 Linearity equal percentage	按JB78中对夹式法兰连接 Wafer type flange connection	25s	HT200, 35, WCB, 1Cr18Ni9Ti, ZG1Cr18 Ni12Mo2Ti, CF8, CF8M
80	3	225								
100	4	340								
125	5	500								
150	6	770								
200	8	1360								
250	10	2130								
300	12	3060								
350	14	4160								
400	16	5450								
450	18	6900								
500	20	8500								
600	24	12200								
700	28	16600								
800	32	21700								
1000	40	34000								
1200	48	49000								
1400	56	66600								
1600	64	87000								
1800	72	110000								
1900	76	123000								
2000	80	136000								

主要技术性能指标

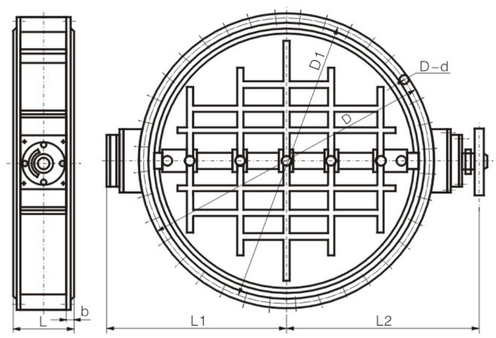
项目 Project	指标值 Target value
基本误差% Basic error	±8.0
回差% Returns	≤6.0
死区% Dead area	≤5.0
额定行程偏差% Fixed traveling schedule deviation	±4.0
允许泄漏量L/h Permission spillage	平行阀板: $2\times10^{-2}\times$ 阀额定容量 颂斜阀板: $5\times10^{-3}\times$ 阀额定容量 Parallel valve board: $2\times10^{-2}\times$ Valve rated capacity Praises valve board: $5\times10^{-3}\times$ Valve rated capacity

执行机构主要技术参数

型号 Model	输入信号 Input signal	输入电阻 Input resistance	输出转角 Output corner	输出力矩 Output moment of force N, m	电源 Power source
SYDJK-110	DC~10mA DC4~20mA	200Ω	0~90	40	200V 50HZ
SYDJK-210				100	
SYDJK-310				250	
SYDJK-410				600	
SYDJK-510				1600	



DN600~1000



DN1200~2000

连接尺寸 Connection dimension

单位Unit: mm

公称通径 Nominal diameter mm	inch	D	D1	A	e	b	L	L1	L2	L3	H1	H2	H3	n-d	配执行机构
50	2		110	245	30		60	92	139	357	55	299	270	4-14	DKJ-210
80	3	125	150	245	30		60	92	139	357	62.5	299	270	4-18	DKJ-210
100	4	145	175	245	30	12	60	102	149	357	72.5	299	270	4-18	DKJ-210
125	5	175	200	245	30	12	60	117	168	357	87.5	299	270	8-18	DKJ-210
150	6	200	225	245	30	12	60	130	181	357	100	299	270	8-18	DKJ-210
200	8	255	280	245	30	12	70	172	221	357	127.5	299	270	8-18	DKJ-210
250	10	310	335	300	36	14	70	197	258	507	155	340	298	12-18	DKJ-310
300	12	362	395	300	36	14	80	227	283	507	181	340	298	12-23	DKJ-310
350	14	412	445	300	36	14	80	252	290	507	206	340	298	12-23	DKJ-310
400	16	462	495	365	45	16	100	296	348	529	231	400	381	16-23	DKJ-410
450	18	518	550	365	45	16	100	321	371	529	259	400	381	16-23	DKJ-410
500	20	558	600	3.65	45	16	100	346	396	529	284	400	381	16-23	DKJ-410
600	24	755	706	365	45	30	150	480	418	530	377.5	863	482	20-25	DKJ-410
700	28	860	810	365	45	32	150	530	531	530	430	863	482	24-25	DKJ-410
800	32	975	920	420	51	34	200	595	586	681	487.5	917	480	24-30	DKJ-510
1000	40	1175	1120	420	51	36	200	735	721	681	587.5	917	480	28-30	DKJ-510
1200	48	1400	1340	-	60	45	250	906	980	-	-	-	-	32-34	DKJ-610
1400	56	1575	1520	-	60	25	300	965	1012	-	-	-	-	36-30	DKJ-610
1600	64	1785	1730	-	60	25	350	1065	1112	-	-	-	-	40-30	DKJ-610
1800	72	-	-	-	-	-	-	-	-	-	-	-	-	-	DKJ-610
1900	76	2100	2020	-	60	25	350	1217	1315	-	-	-	-	44-30	DKJ-610
2000	80	-	-	-	60	-	-	-	-	-	-	-	-	-	DKJ-610

产品型号说明 Type explaining

□□□□□□□□—□□

- 阀门材料：C-碳钢，Q-球墨铸铁 P-奥氏不锈钢，K-超低碳不锈钢
  Valve Material code name Q-Spheroidal castiron
- 公称压力代号：其数位置，以MPa为单位公称压力级的10倍
  Nominal pressure
- 密封材料：X-优质丁腈橡胶；F-氟橡胶；H-合金钢
  Seal material code name X-High -qulity stytene rubber, F-FPM, H-Alloy steel
- 结构形式：3-双偏心；5-三偏心结构
  Structure type code name 3- Double-eccentric, 5-Three-eccentric
- 连接方式：4-法兰，6-焊接，7-对夹
  Connection type code name 4-Flanged type, 6-Jointing, 7-Wafer type
- 功能代号：S-锁定型自动保压重锤型，B-自动保压重锤型，Q-全液控型，
  T-弹簧式快开，X-蓄能器块类型式，XS-锁定蓄能器型
  Function code number: S-lock already type, B-Protec to press the type,
  Q-Presses to control the type, T-Quick pass in spring coil Energy saving tank
  X-Energy reserve quick closing type
- 驱动方式：7-液动，9-电动
  Drive type code name 7-Hydraulic actuator drive
- 阀门类型：D-蝶阀
  Model code name Butterfrly valve
- 特殊代号：K-快速关闭或开启：H-缓闭止回阀；T-通风型 NK-真空型
  V-调节型 C-成套装置
  Function characteristic: K-Fast close or open H-Dashpot check valve
  NK-vaccum type V-adjusting type C-complet equipment
- 公称压力代号
  Nominal pressure code name

液控蝶阀概述 Hydraulic controlled butterfly valve in the paper

液控蝶阀主要由三大部件组成：蝶阀、液压站和电器，该阀采用当前流体力学和管道阀门控制的新概念，利用电液联动和液压控制原理，它兼并闸阀、蝶阀、止回阀等功能。并能通过快关和缓闭动作来消除水锤危害保护水泵及管网系统安全。该阀具有自动保压、自动锁紧、自动蓄能和快速关闭或开起等功能，或广泛用于电力、冶金、水司、市政、环保等行业自动化给排水泵站的离心泵、混流泵、出水管系统上。

Brief Introduction to Hydraulic Control Butterfly Valve Hydraulic control butterfly valve is composed of three major parts: butterfly valve, hydraulic pressure station and electric . This kind of valve adopts the current new concepts of hydrodynamics and pipeline valve control etc. and takes advantage of electrohydraulic actuating and hydraulic control principle, combining the functions of gate valve, butterfly valve and check valve etc. It guarantees the security of pumps and pipenets by quick-shutting and gradual closing action withch eliminates the harm may be caused by water hammer. This kind of valve has many functions such as automatic pressure keeping, self-olcking, self-energy-saving and quick closing or opening etc. It is widely used in the centrifugal pump, mixed-flow pump and discharge pipe system in automatic waterand sewage engineering pump stations of industries like electric power, metallurgy, water power, city planning and environmental protection etc.

用途及特点 Prrpose And Characteristic

本蝶阀是在引进国外产品的基础上在性能上经过改进和完善的产品。它能按预定实现泵阀联动；开启和关闭远距离自动近控制、自动保压不掉锤，蝶板不抖动，流阻小；具有可调快、慢关两个阶段，特别是当突然停电或事故停泵时，永存的重锤势能，将自动按预先调定的快慢关两个阶段关阀，防止水锤危害，保护水泵及管网系统安全。

本阀广泛用于水厂、电厂、冶金、排灌等大中型工程管道泵站。

The butterfly valve is made on basis of imported products from abroad withimproved performance. It has a lot of functions such as linkage between pump and valve as preset program, automatic control of open and close at long dista-nce,automatic pressure protection without dropping the water hammer,non-vibration disc,small flow resistant and it has adjustable quickstop or slow stop,when power is cut off suddenly or the valve breaks down, he everlasting mom-entum of the heavy water hammer will automatically stop the valve quickly and slowly as preset, which prevents water hammer to damage and protect the waterpumps and pipe network.

The valve is to be widely used in medium and large project pipeline pumps such as water factory, power factory, metallurgy,drainage and etc.

主要零件材料 Material For Main Parts

名称 Name	材料 Material
阀体 Body	灰铸铁、球墨铸铁、碳素钢 Gray cast iron,spheroidal graphite cast iron,carbon steel
蝶板 Butterfly board	灰铸铁、球墨铸铁、碳素钢 Gray cast iron,spheroidal graphite cast iron,carbon steel
阀轴 Valve axis	碳素钢（表面防腐处理）、不锈钢 Carbon steel (corrosion proof treated surface),stainless steel
阀体密封圈 Body seat ring	不锈钢、铜合金 Stainless steel,copper alloy
蝶板密封圈 Disc seal ring	优质橡胶 Quality rubber

◆ 采用标准 Adoption Standard

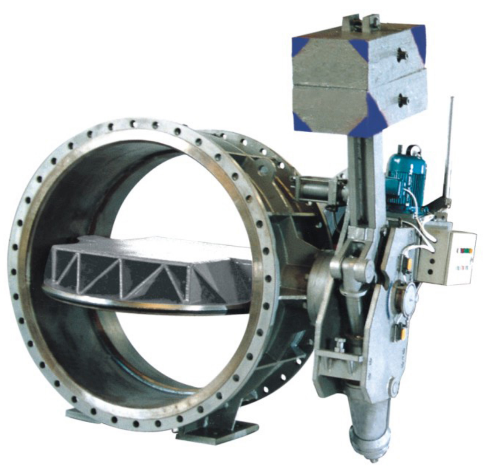
设计参照：GB/T 12238-1989；JB/T 5299；JB/T 8527-1997；
法兰连接：GB/T 17241.6-1998；GB/T 9113-2000；
结构长度：GB/T 12221-1989；
压力试验：GB/T 13927-1992；

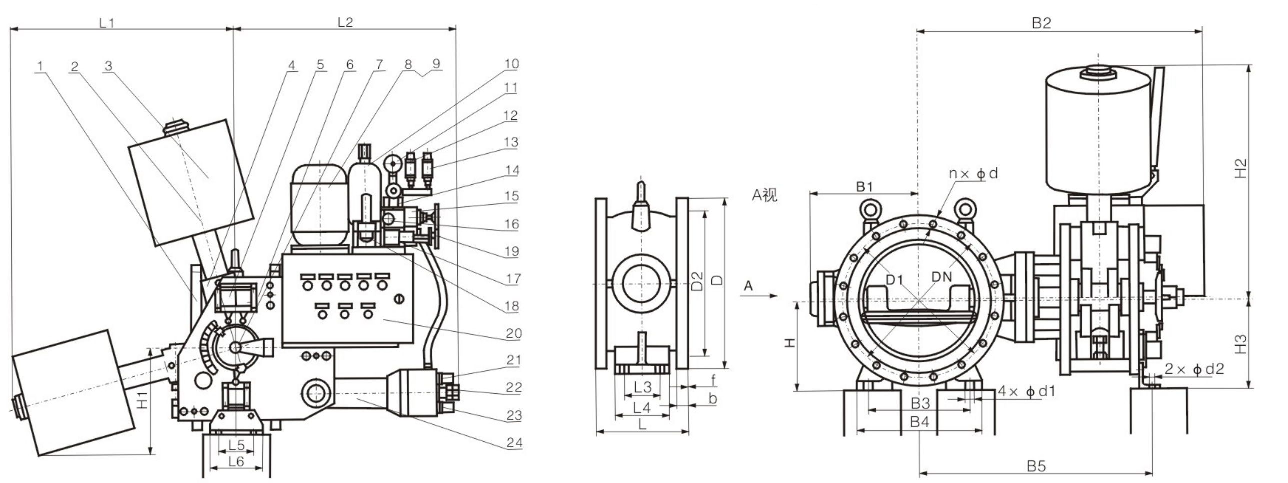
The design refers to: GB/T 12238-1989; JB/T 5299; JB/T 8527-1997;
Connecting giange: GB/T 17241.6-1998; GB/T 9113-2000;
Face to face: GB/T 12221-1989;
Test pressure: GB/T 13927-1992;

◆ 主要技术参数 Main Technique Number

公称通径(DN) Nominal diameter	公称压力(MPa) Nominal pressure	试验压力 Test pressure		适用温度 Appropriate temperatuer	适用介质 Appropria temedium
		壳体 Shell	密封 Sealed		
300-1000	2.5	3.75	2.75	80℃	水、海水、泥沙水等 water, sea water and sand water
300-1800	1.6	2.4	1.76		
300-2000	1.0	1.5	1.1		
1200-2500	0.6	0.9	0.66		
2000-2600	0.25	0.375	0.275		

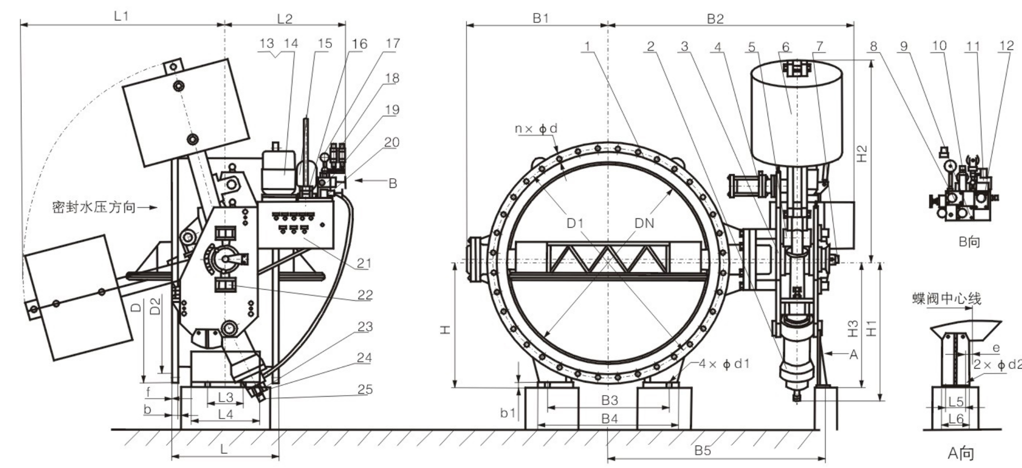
重锤式自动保压液控缓闭止回蝶阀外形及连接尺寸图（DN≤500）
Extend and connect dimension figure of weighted self control pressure hydraulic slow-closure check butterlfy valve（DN≤500）





1、阀体 Body
2、杠杆 Lever
3、重锤 Hammer
4、摇臂 Swing Arm
5、行程开关 Travel Switch
6、墙板 Party Wall
7、开度电位器 Opening Potentiometer
8、电机 Electric Motor
9、油泵 Oil Pump
10、蓄能器 Accumulator
11、耐震压力表 Seismic pressure gauge
12、低压力开关 Low Pressure Switch
13、高压力开关 High Pressure Switch
14、电磁阀 Magnetic Valve
15、截止阀(常开) Globe Valve(normally Open)
16、流量控制阀 Flow Control Valve
17、溢流阀 Over Flow Valve
18、手动泵 Hand Pump
19、截止阀(常闭) Globe Valve(normally Close)
20、电气控制箱 Electrical Control Box
21、快关调节阀 Quick-closing Control Valve
22、快慢角度调节 Quick-slow Angle Control
23、慢关调节阀 Slow-closing Control Valve
24、油缸 Cylinder

重锤式自动保压锁定型液控缓闭止回蝶阀外形及连接尺寸图（DN≥600）
Extend and connect dimension figure of weighted self control pressure hydraulic slow-closure check butterlfy valve



1、阀体 Valve
2、油缸 Cylinder
3、传动支架 Operating Roke
4、锁定油缸 Latching Cylinder
5、摇臂 Swing Arm
6、重锤 Hammer Open
7、开度电位器 Opening Potentiometer
8、常开截止阀 Normally-closed Globe Valve
9、常闭截止阀(一) Normally-closed Globe Valve
10、主电磁阀 Main Magnetic Valve
11、锁定电磁阀 Latching Magnetic Valve
12、常闭截止阀(二) Normally-closed Globe Valve
13、电机 Electric Motor
14、油泵 Oil Pump
15、蓄能器 Accumulator
16、手动泵 Hand Pump
17、压力表 Pressure Gauge
18、压力开关 Pressure Switch
19、流量控制阀 Flow Control Valve
20、溢流阀 Over Flow Valve
21、电气控制箱 Electrical Control Box
22、行程开关 Travel Switch
23、快关调节阀 Quick-closing Control Valve
24、慢关调节阀 Slow-closing Control Valve
25、快慢角度调节 Quick-slow Angle Control

◆ SYD7$^{S}_{B}$41$^{3}_{5}$$^{H}_{X}$泵站型自动保压液控蝶阀规格及连接尺寸表 overall and connecting dimensions

单位：(mm)

DN	L	D	D1	D2	b	f	n	d	L1	L2	L3	L4	L5	L6	H	H1	H2	H3	B1	B2	B3	B4	B5	b1	e	d1	d2
PN=0.25Mpan																											
300	270	435	395	366	26	4	12	23	800	850	100	150	120	180	300	365	780	280	280	900	320	380	683	30	–	30	24
350	290	490	445	413	28	4	12	23	800	850	100	140	120	180	300	365	780	280	305	930	320	380	713	30	–	30	24
400	310	540	495	463	32	4	16	23	900	850	120	180	120	180	300	390	880	280	365	980	340	420	765	30	–	30	24
500	350	645	600	568	34	4	20	23	1100	850	150	220	120	180	350	443	1070	280	440	1045	400	500	830	40	–	32	24
600	390	755	705	667	35	5	20	26	1275	860	150	250	160	220	405	860	1245	610	525	1210	430	546	965	40	65	32	24
700	430	860	810	772	35	5	24	26	1275	860	180	290	160	220	460	860	1245	610	555	1250	570	700	1005	40	65	32	24
800	470	975	920	878	40	5	24	31	1275	860	180	310	160	220	520	860	1245	610	605	1300	610	740	1055	40	65	32	24
900	510	1075	1020	978	40	5	24	31	1385	860	180	320	160	220	570	935	1350	685	670	1360	700	860	1110	40	40	35	24
1000	550	1175	1120	1078	42	5	28	31	1385	860	200	360	160	220	640	935	1350	685	755	1480	740	900	1237	40	40	35	24
1200	630	1375	1320	1280	45	5	32	31	1385	860	200	360	160	220	750	935	1350	685	855	1580	790	950	1337	40	40	35	24
1300	630	1475	1420	1380	30	5	32	31	1510	870	260	460	160	220	780	1065	1475	820	935	1695	820	960	1468	40	40	42	28
1400	630	1575	1520	1480	30	5	36	31	1510	870	260	460	160	220	835	1065	1475	820	1010	1760	840	1000	1536	40	40	42	28
1500	630	1690	1630	1590	30	5	36	31	1510	870	260	500	160	220	900	1065	1475	820	1055	1800	900	1040	1572	40	40	42	28
1600	630	1790	1730	1690	32	5	40	31	1765	870	270	500	160	220	950	1075	1720	820	1120	1875	960	1140	1598	40	40	42	28
1750	630	1935	1880	1840	32	5	44	31	1765	870	270	500	160	220	1000	1075	1720	820	1175	1910	1350	1500	1682	45	40	42	28
1800	870	1990	1930	1890	34	5	44	31	1765	870	270	500	160	220	1040	1075	1720	820	1210	1940	1370	1570	1708	45	40	42	28
2000	870	2190	2130	2090	34	5	48	31	2060	910	360	600	200	280	1130	1180	1990	910	1380	2080	1370	1650	1848	45	40	42	32
2200	870	2405	2340	2295	36	6	52	34	2060	910	360	600	200	280	1240	1180	1990	910	1480	2180	1600	1880	1948	45	40	42	32
2400	1000	2605	2540	2495	38	6	56	34	2150	910	450	800	200	280	1340	1250	2080	980	1590	2350	1740	2020	2118	45	40	42	32
2600	1000	2805	2740	2695	40	6	60	34	2150	910	500	900	200	280	1440	1250	2080	980	1770	2470	1850	2200	2238	50	40	42	32
2800	1000	3030	2960	2910	42	6	64	37	2050	910	600	950	200	280	1560	1180	1990	1050	–	2640	2000	2400	2355	50	20	48	32
3000	1000	3230	3160	3110	42	6	68	37	2050	950	600	1000	200	280	1660	1180	1990	1050	–	2820	2160	2560	2535	50	20	48	32
3200	1200	3430	3360	3310	44	6	72	37	2150	950	700	1100	200	280	1760	1250	2080	1180	–	2980	2360	2760	2695	50	20	48	32
3400	1200	3630	3560	3510	46	6	76	37	2150	950	750	1200	200	280	1860	1250	2080	1180	–	3140	2420	2920	2855	50	20	48	32
3500	1200	3730	3660	3610	48	6	78	37	2150	950	750	1200	200	280	1910	1250	2080	1180	–	3210	2680	3180	2925	50	20	48	32

◆ SYD7$^{S}_{B}$41$^{3}_{5}$$^{H}_{X}$泵站型自动保压液控蝶阀规格及连接尺寸表 overall and connecting dimensions 单位：(mm)

DN	L	D	D1	D2	b	f	n	d	L1	L2	L3	L4	L5	L6	H	H1	H2	H3	B1	B2	B3	B4	B5	b1	e	d1	d2
PN=0.6MPa																											
300	270	440	395	363	26	4	12	23	800	850	100	150	120	180	300	365	780	280	280	900	320	380	683	30	–	30	24
350	290	490	445	413	28	4	12	23	800	850	100	140	120	180	300	365	780	280	305	930	320	380	713	30	–	30	24
400	310	540	495	463	32	4	16	23	900	850	120	180	120	180	300	390	880	280	365	980	340	420	765	30	–	30	24
500	350	645	600	568	34	4	20	23	1100	850	150	220	120	180	350	443	1070	280	440	1045	400	500	830	40	–	32	24
600	390	755	705	667	35	5	20	28	1275	860	150	250	160	220	405	860	1245	610	525	1210	430	546	965	40	65	32	24
700	430	860	810	772	35	5	24	28	1275	860	180	290	160	220	460	860	1245	610	555	1250	570	700	1005	40	65	32	24
800	470	975	920	878	40	5	24	31	1275	860	180	310	160	220	520	860	1245	610	605	1300	610	740	1055	40	65	32	24
900	510	1075	1020	978	40	5	24	31	1385	860	180	320	160	220	570	935	1350	685	670	1360	700	860	1110	40	40	35	24
1000	550	1175	1120	1078	42	5	28	31	1385	860	200	360	160	220	640	935	1350	685	755	1480	740	900	1237	40	40	35	24
1200	630	1405	1340	1295	45	5	32	34	1385	860	200	360	160	220	750	935	1350	685	855	1580	790	950	1337	40	40	35	24
1300	630	1520	1450	1405	35	5	32	37	1510	870	260	460	160	220	800	1065	1475	820	935	1695	820	960	1468	40	40	42	28
1400	630	1630	1560	1510	46	5	36	37	1510	870	260	460	160	220	865	1065	1475	820	1010	1760	840	1000	1536	40	40	42	28
1500	630	1730	1660	1610	40	5	36	37	1510	870	260	500	160	220	925	1065	1475	820	1055	1800	900	1040	1572	40	40	42	28
1600	630	1830	1760	1710	50	5	40	37	1765	870	270	500	160	220	980	1075	1720	820	1120	1875	960	1140	1598	40	40	48	28
1750	630	1995	1920	1868	50	5	44	40	1765	870	270	500	160	220	1070	1075	1720	820	1175	1910	1350	1500	1682	45	40	48	28
1800	870	2045	1970	1918	52	5	44	40	1765	870	270	500	160	220	1110	1075	1720	820	1210	1940	1370	1570	1708	45	40	48	28
2000	870	2265	2180	2125	40	5	48	43	2060	910	360	600	200	280	1185	1180	1990	910	1380	2080	1370	1650	1848	45	40	48	32
2200	870	2475	2390	2335	42	6	52	43	2060	910	360	600	200	280	1300	1180	1990	910	1480	2180	1600	1880	1948	45	40	48	32
2400	1000	2685	2600	2545	45	6	56	43	2150	910	450	800	200	280	1410	1250	2080	980	1590	2350	1740	2020	2118	45	40	48	32
2600	1000	2905	2810	2750	46	6	60	49	2150	910	500	900	200	280	1480	1250	2080	980	1770	2470	1850	2200	2238	50	40	56	32
2800	1000	3115	3020	2960	48	6	64	49	2050	910	600	950	200	280	1580	1180	1990	1050	–	2640	2000	2400	2355	50	20	56	32
3000	1000	3315	3220	3160	50	6	68	49	2050	950	600	1000	200	280	1680	1180	1990	1050	–	2820	2160	2560	2535	50	20	56	32
3200	1200	3525	3430	3370	54	6	72	49	2150	950	700	1100	200	280	1780	1250	2080	1180	–	2980	2360	2760	2695	50	20	56	32
3400	1200	3735	3640	3580	56	6	76	49	2150	950	750	1200	200	280	1890	1250	2080	1180	–	3140	2420	2920	2855	50	20	56	32
3500	1200	3840	3745	3685	58	6	78	49	2150	950	750	1200	200	280	1940	1250	2080	1180	–	3210	2680	3180	2925	50	20	56	32

DN	L	D	D1	D2	b	f	n	d	L1	L2	L3	L4	L5	L6	H	H1	H2	H3	B1	B2	B3	B4	B5	b1	e	d1	d2
PN=1.0 MPa																											
300	270	445	400	370	26	4	12	23	800	850	100	150	120	180	300	365	780	280	280	900	320	380	683	30	–	30	24
350	290	505	460	429	28	4	16	23	800	850	100	140	120	180	300	365	780	280	305	930	320	380	713	30	–	30	24
400	310	565	515	480	32	4	16	28	900	850	120	180	120	180	300	390	880	280	365	980	340	420	765	30	–	30	24
500	350	670	620	582	34	4	20	28	1100	850	150	220	120	180	350	443	1070	280	440	1045	400	500	830	40	–	32	24
600	390	780	725	682	35	5	20	31	1275	860	150	250	160	220	405	860	1245	610	525	1210	430	546	965	40	65	32	24
700	430	895	840	794	35	5	24	31	1275	860	180	290	160	220	460	860	1245	610	555	1250	570	700	1005	40	65	32	24
800	470	1015	950	901	40	5	24	34	1275	860	180	310	160	220	520	860	1245	610	605	1300	610	740	1055	40	65	32	24
900	510	1115	1050	1001	40	5	28	34	1385	860	180	320	160	220	570	935	1350	685	670	1360	700	860	1110	40	40	35	24
1000	550	1230	1160	1112	42	5	28	37	1385	860	200	360	160	220	640	935	1350	685	755	1480	740	900	1237	40	40	35	24
1100	550	1340	1270	1222	42	5	28	37	1385	860	200	360	160	220	710	935	1350	685	805	1530	760	920	1287	40	40	35	24
1200	630	1455	1380	1328	45	5	32	40	1385	860	200	360	160	220	750	935	1350	685	855	1580	790	950	1337	40	40	35	24
1250	630	1505	1430	1378	45	5	32	40	1510	870	200	360	160	220	810	1065	1475	760	910	1670	1140	1280	1442	40	40	42	28
1300	630	1575	1490	1425	45	5	32	43	1510	870	260	460	160	220	800	1065	1475	820	935	1695	820	960	1468	40	40	42	28
1400	630	1675	1590	1530	46	5	36	43	1510	870	260	460	160	220	865	1065	1475	820	1010	1760	840	1000	1536	40	40	42	28
1500	630	1785	1700	1640	46	5	36	49	1510	870	260	500	160	220	925	1065	1475	820	1055	1800	900	1040	1572	40	40	42	28
1600	630	1915	1820	1750	50	5	40	49	1765	870	270	500	160	220	980	1075	1720	820	1120	1875	960	1140	1598	40	40	48	28
1750	630	2065	1970	1900	50	5	44	49	1765	870	270	500	160	220	1070	1075	1720	820	1175	1910	1350	1500	1682	45	40	48	28
1800	870	2115	2020	1950	52	5	44	49	1765	870	270	500	160	220	1110	1075	1720	820	1210	1940	1370	1570	1708	45	40	48	28
2000	870	2325	2230	2150	54	5	48	49	1960	910	360	600	200	280	1185	1180	1895	910	1380	2080	1370	1650	1848	45	40	48	32
2200	870	2550	2440	2370	58	5	52	56	2060	910	360	600	200	280	1300	1180	1990	910	1480	2180	1600	1880	1948	45	40	56	32
2250	870	2600	2490	2420	60	5	52	56	2060	910	360	600	200	280	1330	1180	1990	910	1510	2210	1600	1880	1978	45	40	56	32
2400	1200	2760	2650	2570	65	6	56	56	2150	910	450	800	200	280	1410	1250	2080	980	1590	2350	1740	2020	2118	45	40	56	32

◆ SYD7$^{S}_{B}$41$^{3}_{5}$$^{H}_{X}$泵站型自动保压液控蝶阀规格及连接尺寸表 overall and connecting dimensions 单位：(mm)

DN	L	D	D1	D2	b	f	n	d	L1	L2	L3	L4	L5	L6	H	H1	H2	H3	B1	B2	B3	B4	B5	b1	e	d1	d2
PN=1.6MPa																											
300	270	460	410	375	26	4	12	27	800	850	100	150	120	180	300	365	780	280	280	900	320	380	683	30	–	30	24
350	290	520	470	429	28	4	16	27	800	850	100	140	120	180	300	365	780	280	305	930	320	380	713	30	–	30	24
400	310	580	525	480	32	4	16	31	900	850	120	180	120	180	300	390	880	280	365	980	340	420	765	30	–	30	24
500	350	715	650	609	34	4	20	34	1100	850	150	220	120	180	350	443	1070	280	440	1045	400	500	830	40	–	32	24
600	390	840	770	720	35	5	20	37	1275	860	150	250	160	220	405	860	1245	610	525	1210	430	546	965	40	65	32	24
700	430	910	840	794	35	5	24	37	1275	860	180	290	160	220	460	860	1245	610	555	1250	570	700	1005	40	65	32	24
800	470	1025	950	901	40	5	24	40	1275	860	180	310	160	220	520	860	1245	610	605	1300	610	740	1055	40	65	32	24
900	510	1125	1050	1001	40	5	28	40	1385	860	180	320	160	220	570	935	1350	685	670	1360	700	860	1110	40	40	35	24
1000	550	1255	1170	1112	42	5	28	43	1385	860	200	360	160	220	640	935	1350	685	755	1480	740	900	1237	40	40	35	24
1100	550	1370	1280	1222	42	5	28	43	1385	860	200	360	160	220	710	935	1350	685	805	1530	760	920	1287	40	40	35	24
1200	630	1485	1390	1328	45	5	32	49	1510	870	200	360	160	220	750	1065	1475	760	855	1605	790	950	1387	40	40	35	24
1250	630	1535	1440	1378	46	5	32	49	1510	870	200	360	160	220	810	1065	1475	760	910	1670	1140	1280	1442	40	40	42	24
1300	630	1585	1490	1425	50	5	32	49	1510	870	260	460	160	220	800	1065	1475	820	935	1695	820	960	1468	40	40	42	28
1400	630	1685	1590	1530	54	5	36	49	1510	870	260	460	160	220	865	1065	1475	820	1010	1760	840	1000	1536	40	40	42	28
1500	630	1820	1710	1640	54	5	36	49	1765	870	260	500	160	220	925	1075	1720	820	1055	1800	900	1040	1572	40	40	42	28
1600	630	1930	1820	1750	56	5	40	56	1765	870	270	500	160	220	980	1075	1720	820	1120	1875	960	1140	1598	40	40	48	28
1750	630	2080	1970	1900	60	5	44	56	1765	870	270	500	160	220	1070	1075	1720	820	1175	1910	1350	1500	1682	45	40	48	28
1800	870	2308	2020	1950	60	5	44	56	1765	870	270	500	160	220	1110	1075	1720	820	1210	1940	1370	1570	1708	45	40	48	28
2000	870	2345	2230	2150	65	5	48	62	1960	910	360	600	200	280	1200	1180	1895	910	1380	2080	1370	1650	1848	45	40	48	32
2200	870	2555	2440	2360	70	5	52	62	2060	910	360	600	200	280	1300	1180	1990	910	1480	2180	1600	1880	1948	45	40	56	32
2250	870	2605	2490	2410	70	5	52	62	2060	910	360	600	200	280	1330	1180	1990	910	1510	2210	1600	1880	1978	45	40	56	32

DN	L	D	D1	D2	b	f	n	d	L1	L2	L3	L4	L5	L6	H	H1	H2	H3	B1	B2	B3	B4	B5	b1	e	d1	d2
PN=2.5 MPa																											
300	270	485	430	389	34	4	16	31	800	850	100	150	120	180	300	365	780	280	280	838	320	380	683	30	–	32	24
350	290	555	490	448	38	4	16	34	800	850	100	140	120	180	300	365	780	280	305	868	320	380	713	30	–	32	24
400	310	620	550	503	40	4	16	37	1275	860	120	180	160	220	330	860	1245	610	365	970	340	420	815	30	65	32	24
500	350	730	660	609	44	4	20	37	1275	860	150	220	160	220	380	860	1245	610	440	1090	400	500	880	40	65	35	24
600	390	845	770	720	46	5	20	40	1275	860	150	250	160	220	430	860	1245	610	525	1210	430	546	965	40	40	35	24
700	430	960	875	820	50	5	24	43	1385	860	180	290	160	220	500	935	1350	685	555	1250	570	700	1005	40	40	35	24
800	470	1085	990	928	54	5	24	49	1385	860	180	310	160	220	550	935	1350	685	605	1300	610	740	1055	40	40	38	24
900	510	1185	1090	1028	58	5	28	49	1385	860	180	320	160	220	610	935	1350	685	670	1360	700	860	1110	40	40	38	24
1000	550	1320	1210	1140	62	5	28	56	1510	870	200	360	160	220	670	1065	1475	760	755	1505	740	900	1287	40	40	42	24
1100	550	1425	1315	1245	65	5	28	56	1510	870	200	360	160	220	750	1065	1475	760	805	1555	760	920	1337	40	40	42	24
1200	630	1530	1420	1350	70	5	32	56	1510	870	200	360	160	220	780	1065	1475	760	855	1605	790	950	1387	40	40	48	24
1250	630	1575	1470	1400	70	5	32	56	1510	870	200	360	160	220	800	1065	1475	760	910	1670	1140	1280	1442	40	40	48	24
1300	630	1640	1530	1450	74	5	32	62	1510	870	260	460	160	220	840	1065	1475	820	935	1695	820	960	1468	40	40	48	28
1400	630	1755	1640	1560	76	5	36	62	1765	870	260	460	160	220	890	1075	1720	820	1010	1760	840	1000	1536	40	40	52	28
1500	630	1865	1750	1670	80	5	36	62	1765	870	260	500	160	220	960	1075	1720	820	1055	1800	900	1040	1572	40	40	52	28
1600	630	1975	1860	1780	84	5	40	62	1765	870	270	500	160	220	1010	1075	1720	820	1120	1875	960	1140	1598	40	40	56	28
1750	630	2145	2020	1935	90	5	44	70	1960	910	270	500	200	280	1100	1180	1895	910	1175	1935	1350	1500	1732	45	40	56	28
1800	870	2195	2070	1985	90	5	44	70	1960	910	270	500	200	280	1110	1180	1895	910	1210	1965	1370	1570	1758	45	40	56	28

◆ 主要特点 Main feature

SYDX7K41H型蓄能罐式液控缓闭金属密封止回阀和SYDX7K41X型蓄能罐式液控缓闭橡胶密封止回阀是我公司引进国外先进技术研制而成的新产品。它兼有闸阀和止回阀的功能，具有较完善的液压系统和电气控制系统，即可现场操作，也可远距离操作能实现泵阀联锁程序控制及微机集中控制。能取代重锤式液控蝶阀，主要将重锤势能变为流体蓄能，节省了长期运行支承重锤所耗的能量，改善了液压系统的保压性能。阀门可以全开、全闭、半开、也可以快关和缓闭，能按用户实际要求设定程序，有效的防止生产破坏性水锤，保证管线安全运行，是一种理想的控制设备。

SYDX7K41H Energy saving tank type hydraulic control slow close metal sealed check valve and SYDX7K41X energy saving tank type Hydraulic control slow close rubber sealed check valve are new products made with imported overseas advanced technology by our company. It has both the function of gate valves and check valve. With rather complete hydraulic system and electric control system, is can be operated on spot or at a long distance to realize pump-valve programmed linkage and computer integrated control. It can replace heavy hammer hydraulic butterfly valve. By changing heavy hammer momentum into hydraulic saved energy, it saves energy that is lost in operation to support the heavy hammer, and improves the pressure protection of hydraulic system. The valves are available in full open, full close, semi open or quick open and slow close. It can preset the program according to customer's requirements, which effectively avoids destructive water hammer, and protect the pipeline operation. It is an ideal control equipment.

◆ 产品型号说明 Type explaining

□□□□□□□□

- 公称压力(MPa) Nominal pressure
- 密封面材料(Material of sealed surface): X–橡胶 Rubber、H–不锈钢 Stainless steel
- 结构形式(Type of construction): 1–垂直板式 Vertival plate
- 连接形式(Connection from): 4–法兰式 Flange
- 调节方式(Adjustable method): K–液控 Hydraulic control
- 传动方式(Driving model): 7–液动 Hydraulic
- 特征(Feature): X–蓄能罐式 Energy saving tank
- 类型(Type): D–蝶阀 Butterfly valve

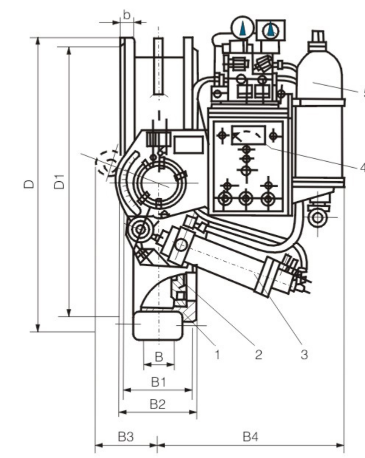
◆ 性能规范和型号意义 Performance specifications and code meaning

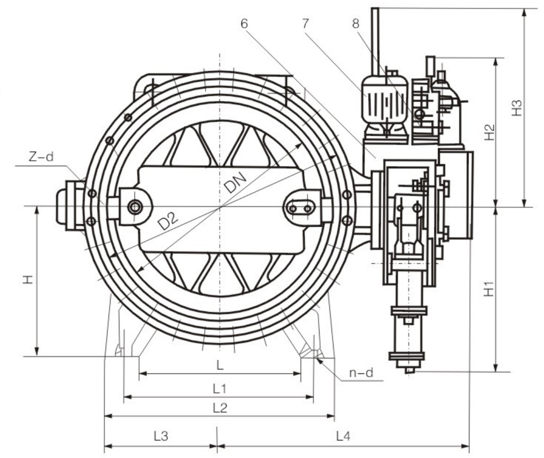
		阀门通径 Valve diameter	
开阀时间(s) Time of valve open		≤1200	≤1400
		10–60	15–60
关阀时间(s) Time of valve close	快关 Quick close	1.2–25	2–30
	慢关 Slow close	2–60	4–60
关阀角度 Angle of valve closing	快关 Quick close	65°±10°	
	慢关 Slow close	25°±10°	

◆ SYDX7K41H/X型外形尺寸及连接尺寸 Overall and connection dimension

单位Unit: mm

PN(MPa)	通径 Diameter mm	通径 Diameter inch	D	D1	b	L	L1	L2	L3	L4
1.0	200	8	340	295	28	–	–	–	168	720
	250	10	395	350	28	–	–	–	200	770
	300	12	445	400	28	–	–	–	235	795
	350	14	505	460	30	260	340	420	265	820
	400	16	565	515	32	310	410	510	296	900
	450	18	615	565	32	320	420	520	320	920
	500	20	670	620	34	350	450	530	345	1010
	600	24	780	725	36	400	565	640	414	1055
	700	28	895	840	40	630	650	760	530.5	1070
	800	32	1015	950	44	600	740	860	601.5	1130
	900	36	1230	1160	50	728	900	1040	735	1240
	1000	42	1115	1050	46	668	820	950	664	1180
	1200	48	1455	1380	56	868	1070	1240	1097.5	1250
0.6	1400	56	1630	1560	44	1000	1230	1430	873	1440
	1600	64	1830	1760	48	1130	1400	1620	1212.2	1540
	1800	72	2045	1970	50	1260	1550	1800	957.5	1690
	2000	80	2265	2180	54	1280	1700	1980	1347.5	1810
	2200	88	2475	2390	60	1620	2040	2340	1660	2100
0.25	2400	96	2605	2540	38	1740	2070	2400	1687.5	2310
	2600	104	2805	2740	40	1940	2270	2600	1887.5	2410





◆ 主要零件材料 Material far main parte

部件名称 Component name		阀体蝶板 Body disc	阀轴 Valve axis	阀体密封圈 Body seat ring	蝶板密封圈 Disc seal ring
材料 Material	DX7K41X	灰铸铁 Gray cast iron	不锈钢 Stainless steel	黄铜 Brass	丁晴耐油橡胶 Butyronitrile oil-proof rubber
	DX7K41H	碳素钢 Carbon steel	不锈钢 Stainless steel	合金钢 Alloy steel	不锈钢 Stainless steel

◆ 外形尺寸及连接尺寸 Overall and connection dimension

单位Unit: mm

B	B1	B2	B3	B4	H	H1	H2	H3	Z-d	n-d
–	–	152	250	670	–	620	730	1300	8-22	–
–	–	250	250	670	–	620	730	1300	12-22	–
–	–	270	250	690	–	620	730	1300	12-22	–
–	100	290	250	690	320	620	730	1300	16-22	4-ϕ18
–	120	310	285	760	340	675	750	1300	16-26	4-ϕ22
–	134	330	285	760	370	675	750	1300	20-26	4-ϕ22
–	136	350	285	760	400	675	750	1300	20-26	4-ϕ26
–	158	390	285	760	460	675	750	1300	20-30	4-ϕ26
–	210	430	315	805	520	885	820	1300	24-30	4-ϕ26
–	220	470	315	805	580	885	820	1300	24-33	4-ϕ30
–	220	510	315	825	630	885	820	1300	28-33	4-ϕ30
130	280	550	355	855	690	925	890	1300	28-36	4-ϕ30
160	330	630	355	855	810	935	890	1500	32-39	4-ϕ33
180	370	710	405	920	920	1010	930	1500	36-36	4-ϕ36
220	420	790	405	920	1040	1010	970	1500	40-36	4-ϕ36
260	470	870	460	960	1140	1080	1460	1500	44-39	4-ϕ39
290	520	950	560	1030	1250	1080	1460	1500	48-42	4-ϕ39
300	530	1000	580	1150	1350	1230	1520	1700	52-42	4-ϕ39
690	1010	1100	580	1150	1420	1230	1520	1700	56-33	4-ϕ42
700	1110	1200	580	1150	1520	1230	1520	1700	60-33	4-ϕ42

◆ 产品型号说明 Type explaining

K D 7 t 4 5 P 10 C

- 阀门材料: C-碳钢, P-奥氏不锈钢, K-超低碳不锈钢
  Valve material code name: C-Carbon steel, P-stainless steel, K-low carbon stainless steel
- 公称压力代号
  Nominal pressure code name
- 密封材料: H-合金钢, P-奥氏不锈钢
  Seal material code name: H-metal alloy steel, stainless steel
- 结构形式: 3-双偏心, 5-三偏心
  Structure type code name: 3-Two eccentric, 5-Three-eccentric
- 连接方式: 4-法兰, 6-焊接, 7-对夹
  Connection type code name: 4-Flanged type, 6-Jointing, 7-Wafer type
- 液压驱动形式代号: t-弹簧式快关
  Hydraulic actuator code name: t-Quick pass in spring coil
- 驱动方式: 7-液动
  Drive type code name: 7-Hydraulic actuator
- 阀门类型: D-蝶阀
  Valve type: D-Butterfly valve
- 功能代号: K-快速关闭或开启
  Function code number: K-Fast close or open

◆ 产品结构特征 Products design feature

在煤气余热发电系统和抽汽供热式汽轮机系统中，本系列阀门作为系统安全的保障，得到了日益广泛的应用。其关闭迅速、流通阻力小、截止可密封等优良性能使其可以代替原来系统设计中的电动截止蝶阀和止回阀使用。

The valve can be widely used in the generation system of residual heat of coal gas and steamer system of bleeding steam type,perforning for the safeguard of the system. It features rapid shutting and low flow rate, as well as the stop performance can be sealed, thus it can take place of electrical stop butterfly valve and check valve in the design of the system.

◆ 用途 Purpose

本阀主要用在热电厂并联机组和煤气余热发电机组上,用以作为保护系统安全的紧急切断阀门。

The valve is one kind of emergent-cutting valve to protect the safety of the system, which is mainly applied in parallelled machine set of the model electricity plant and generator set of residual heat of coal gas.

◆ 特点 Characters

1、快速关闭时间可达0.5秒，紧急切断安全可靠。
2、三偏心金属密封结构，启闭轻便灵活，密封零泄露。
3、常温介质可选用双偏心软密封结构，造价低，密封可靠。
4、关阀末端缓冲，有效避免阀门惯性冲击。
5、可以用弹簧实现快关，也可以用蓄能器实现快关，两种型式异曲同工，同样安全可靠。

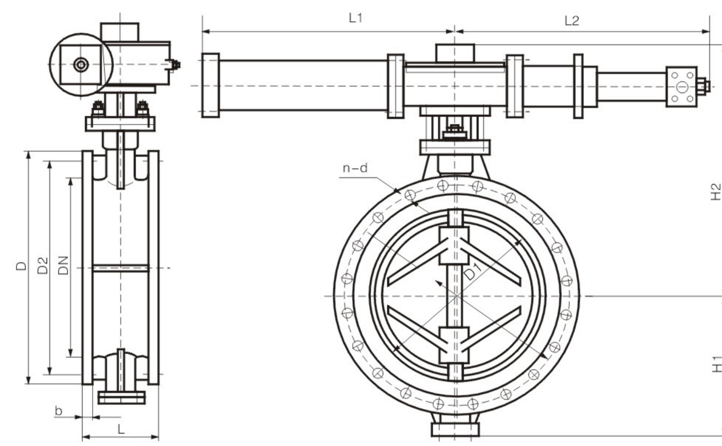
1.The time for rapid shutting can reach 0.5 seconds, as well as safe and reliable for emergent cutting.
2.The structure employs triple-eccentricity metal seal, it is flexible for starting and closing and zero leakage for its seal.
3.The medium with normal temperature can employ double-eccentricity soft seal, which features low cost and reliable seal.
4.The inertia impact on the valve can be avoided effectively due to buffer at the end of the valve.
5.The fast close can be performed by spring of accumulator, both modes are safe and reliable.

◆ 采用标准 Adoption standard

设计标准 Design standard	法兰连接尺寸 Flange connection dimension	结构长度 Structure length	压力试验 Pressure test
GB/T 12238-1989, JB/T 5299, JB/T 8527-1997	GB/T 17241.6-1998, GB/T 9113-2000	GB/T 12221-1989	GB/T 13927-1992

◆ 主要技术参数 Main technique number

公称压力 Nominal pressure(MPa)		0.6	1.0	1.6	2.5
公称通径 Nominal diameter		400～1600mm			
试验压力 Test pressure(MPa)	强度试验 Strength test	0.9	1.5	2.4	3.75
	密封试验 Seal test	0.66	1.1	1.76	2.75
工作压力(MPa) Working pressure		0.6	1.0	1.6	
适用介质 Applicable medium		水、蒸汽、煤气 Water, Steam, Coal gas			
适用温度 Appropriate temperature		软密封：≤80℃；硬密封：≤425℃			



◆ SYKD7t43/45P主要外形尺寸 Main size of outside

单位Unit: mm

公称通径 Nominal diameter mm	inch	PN	L	L1	L2	H1	H2	备注 Note
400	16	0.6	216	966	1449	320	780	
		1.0	216	966	1449	330	785	
		1.6	216	966	1449	345	800	
450	18	0.6	222	966	1449	370	805	
		1.0	222	966	1449	380	810	
		1.6	222	966	1449	395	835	
500	20	0.6	229	966	1449	400	898	
		1.0	229	966	1449	410	898	
		1.6	229	966	1449	425	898	
600	24	0.6	267	966	1449	440	898	
		1.0	267	966	1449	460	920	
		1.6	267	1150	1820	470	1020	
700	28	0.6	292	966	1449	436	950	
		1.0	292	1150	1820	550	1075	
		1.6	292	1150	1820	570	1100	
800	32	0.6	318	1150	1820	625	1142	
		1.0	318	1150	1820	640	1158	
		1.6	318	1150	1820	660	1183	
900	36	0.6	330	1150	1820	700	1190	
		1.0	330	1150	1820	710	1210	
		1.6	330	1150	1820	725	1239	
1000	42	0.6	410	1150	1820	760	1250	
		1.0	410	1150	1820	770	1275	
		1.6	410	1360	2180	790	1306	
1200	48	0.6	470	1150	1820	875	1360	
		1.0	470	1360	2180	890	1385	
		1.6	470	1360	2180	915	1418	
1400	56	0.6	530	1360	2180	1000	1478	
		1.0	530	1360	2180	1020	1510	
		1.6	530	1360	2180	1045	1546	
1600	64	0.6	600	1360	2180	1120	1599	
		1.0	600	1360	2180	1140	1639	
		1.6	600	1610	2520	1170	1738	

注：可根据用户要求从DN250-3000生产(GB12221-89)长系列，从DN1200-3000带底脚的需注明。
Note: The production of the series GB12221-89 ranging DN250~3000 can be done according to the requirements of customer It should.
Be indicated whether equipped with foot or not for the range of DN1200~3000.

◆ 三偏心蝶阀扭矩值 Triple Offset Butterfly Valve Torques(NM)

公称尺寸 Nominal size		公称压力 Nominal pressure PN/MPa						CL		
		0.6	1.0	1.6	2.5	4.0	6.4	150	300	600
DN/mm	NPS/in	力矩/N.m								
50	2	25	29	37	59	83	127	42	92	182
65	21/2	29	35	60	82	106	142	69	123	213
80	3	34	57	81	102	148	290	174	271	460
100	4	61	102	141	180	259	526	250	395	834
125	5	104	165	228	289	412	641	283	548	979
150	6	178	250	450	564	790	1060	473	825	2938
200	8	201	400	601	800	1201	1567	674	1503	3616
250	10	353	518	956	1250	1862	2697	983	1887	5649
300	12	635	992	1352	1711	2428	3147	2022	2508	11863
350	14	819	1623	2234	2844	4067	4855	2520	4158	14123
400	16	1047	1944	2842	3738	5533	6473	3175	6271	17061
450	18	1451	2451	3452	4412	6454	13450	4239	7864	21015
500	20	2043	3285	4527	5769	8253	16993	5531	10361	26551
600	24	2779	5548	6018	9495	13443	24586	6011	17559	38415
700	28	3080	6331	6890	14200	22720	–	10440	27923	–
750	30	3230	6723	7700	16552	26483	–	12654	33105	–
800	32	3912	7307	8760	19847	31755	–	14462	39696	–
900	36	5275	8474	9750	26438	36188	–	18078	52877	–
1000	40	6915	11717	13560	35553	44113	–	24179	71105	–
1050	42	8135	15253	16270	40110	51827	–	28457	80219	–
1200	48	12540	20563	23360	48900	61962	–	36155	–	–
1300	52	18300	21806	29977	–	–	–	–	–	–
1400	56	24650	26589	34900	–	–	–	–	–	–
1500	60	26440	36155	43397	–	–	–	–	–	–
1600	64	40850	43375	48600	–	–	–	–	–	–

◆ 运输与贮存 Transport and Storage

1、蝶阀在搬运过程中，应对两密封面加以保护，以防止碰伤。
2、蝶阀应在防雨、防尘、干燥处存放，使蝶板处于开启5° –10° 状态，并加以覆盖，防止杂物进入密封面。

1. During transport, the two seal faces of butterfly valve should be well protected to avoid damage.
2. Keep butterfly valves in a rain-proof, dust-proof and dry place, with disc opened at 5o–10o. Keep them covered to avoid impurities entering sealing face.

◆ 安装使用注意事项 Notes for Installation and Operation

1、安装前应核对蝶阀规格、压力、温度、耐腐性是否满足使用要求。应检查各部零件是否损坏或松动。
2、本蝶阀可安装在任意角度的管道上，应关闭安装为宜；焊接管道法兰时应将阀门密封口用板挡住以防止颗粒、杂物挫伤密封面，焊后取下阀门，对阀门密封面及管道内腔进行清洁，然后再安装固定阀门。
3、安装时请注意阀门关闭状态承压方向，普通管道阀门安装按(图1)泵门前阀安装按(图2)。
4、安装前应将密封面(两端密封面、蝶板密封面、阀座密封面)彻底擦干净，去掉灰尘和污物。
5、安装前应空试蝶阀，启闭应灵活，启闭位置与指针指示位置相符合。
6、手动操作顺时针为关，逆时针为开，指针指示到位后不准再加力启闭阀门。
7、阀门做压力试验时，不准用单法兰进行安装试压，必须采用双法兰安装试压(见图3)。其试验压力应符合GB/T13927标准规定。
8、紧固螺栓时应对称交替进行紧固，不准依次单独紧固。
9、限位螺钉出厂前，已经调好，不准轻易调整。若配置驱动装置为电 动、气动时请阅配套驱动装置说明书。
10、电动蝶阀出厂时已将控制机构的启闭行程调好，为防止电源接通时方向搞错，用户在第一次接通电源前要先手动开启至半开位置，再按点动开关，检查指示盘方向与阀门开启方向一致即可。
11、发现阀门启闭失常应查明原因进行修理和排除，防止用加力方法开关阀门，造成阀门的损坏。
12、阀门故障实在无法排除，请通知我们将为您做好产品安装使用售后服务。

1. Before installation, check whether the specifications, pressure, temperature and anti–corrosion property of butterfly valve arein accordance with the requirements, and make sure that all components are not damaged and loosened.
2. This butterfly valve may be installed to pipeline of arbitrary angles. It is optimal to be installed under closing state. When welding pipeline flange, place a plate before valve seal to avoid granules and impurities damaging sealing surface. After welding, take off valve and clean valve sealing face and pipe line, and then install and fix valve.
3. When installing, note the bearing direction under closing state. Refer to Graph 1 for installing ordinary pipeline valve and Graph 2 for installing pump valve.
4. Before installation, thoroughly clean away the dust and dirt in sealing face (sealing faces at two ends, disc sealing face and seat sealing face)
5. No–load test should be carried out before installation to make sure the flexibility of on–off and on–off position being in accordance with pointer indication.
6. For hand operation, clockwise is for OFF and anticlockwise is for ON. When pointer is positioned, don't open or close valve.
7. Upon pressure test,never use single flange to carry out pressure test.Nstead,youmust use double flange.(See graph 3).Its test pressure shou–ld be in accordance with GB/T13927 standard.
8. Fasten bolts symmetrically in turn. Never do it independently one by one.
9. The limit bolt has been adjusted already before going out of factory, no random adjustment is allowed. If the driving device being electric or pneu–matic, pleaseread carefully the manual of driving device.
10. The start–stop stroke of the control mechanism of electric butterfly valve has been adjusted before going out of factory. To avoid misdirection of power connection, when first connecting power supply, make it half open by hand. And then, press switch and check to make sure of the same direction of indicator dial and valve's opening.
11. Carry out troubleshooting measures if valves don't start or stop normally. To open and close valves by hard pressing is prohibited,as it may damage the valves.
12. In case that errors cannot be treated, inform us and we'll provide you with fter–sale service of installation and operation.

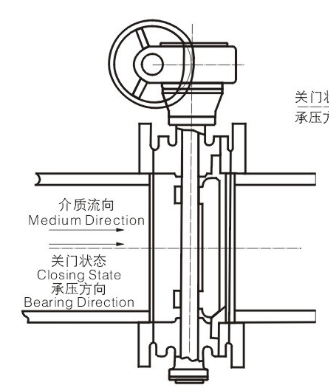
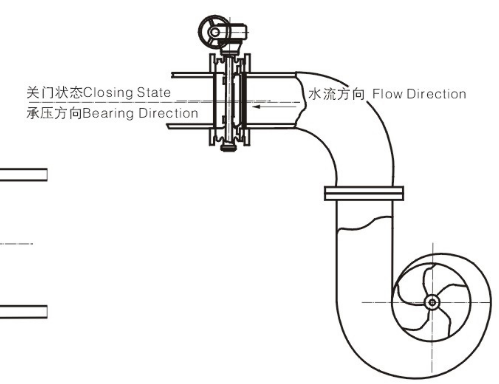


图1普通管道阀门安装
Graph 1 Valve Installationof Ordinary Pipeline



(图2)泵前阀门安装
Graph 2 Valve Installation of Pump

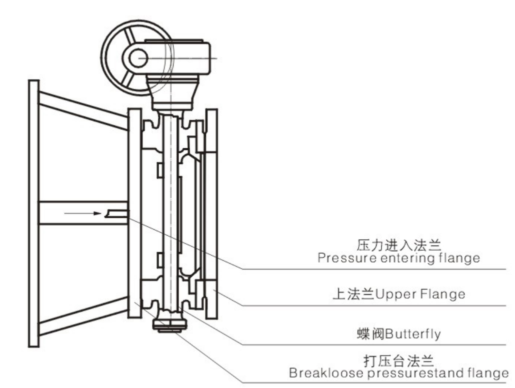


图3打压安装
Graph 3 BreakloosePressure Installation

◆ 可能发生的故障及消除方法 Sixth.probably hitch and solution

故障现象 Troubiesome	分析产生原因 Analyzes reasons	消除故障方法 Method to eliminate failures
填料处的外漏 External leakage of packing	1、填料超期使用，已老化； 2、操作时用力过大； 3、填料压套螺栓没有拧紧。 1.Packing is used overtime and aged. 2.Operated with over strength. 3.Packing gland hasn't been tightened enough.	1、应及时更换老化、损坏的填料，逐圈安放，接头呈30~45°； 2、应收正常力均匀操作，不许加套管或用其它办法加长臂力； 3、均匀拧紧压住填料用螺栓。 1.Replace the aged and damaged packing in time and putthe packing rings one by one leaving joints 30-45° . 2.Operate with normal strength eveniy and don't use sleeve or other method to increase the arm of force. 3.Tighten the bolts around packing evenly.
密封面泄漏 Leakage at sealing surfaces	1、蝶阀密封面夹有杂物 2、阀门安装方向与介质流向不符； 3、关闭不到位； 4、久闭的阀门在密封面上积垢； 5、密封面轻微擦伤； 6、密封面损伤严重。 1.Installed valve direction is not in accordance with fluid direction. 2.Valve is not fully closed. 3.Dirt assembled on the sealing surfaces when valve is closed for a long time. 4.Sealing surface is slightly damaged. 5.Sealing surface is severely damaged.	1、清除杂物，清洗阀门内腔 2、注意安装检查； 3、重新调整执行机构上的调整螺钉，关严到位； 4、将阀门开一条缝，让高速流体冲掉积垢； 5、调整垫片进行补偿； 6、重新研磨，调整垫片补偿。 1.Check the installation. 2.Readjust the adjusting screw on the actuator to close the valve completely. 3.Openthe valve a little bit to let the high-speed flow flush away the dirt. 4.Readjust the gasket to make it up. 5.Regrind the sealing surface and readjust the gasket to make itup.
法兰连接处泄漏 External leakage at thejoint between flangesand body	1、螺柱拧紧力不均；或未压紧 2、垫片老化损伤； 3、垫片选用材质与工况介质要求不符。 1.Bolting is not tightened evenly. 2.Aged gasket or damaged gasket. 3.Gasket material is not applicable to the working condition.	1、重新均匀拧紧螺栓； 2、更换垫片； 3、按工矿要求正确选用垫片材料和型式，必要时请与厂家联系，请求帮助选材、选型、订货时要详细说明要求。 1.Retighten the bolting evenly. 2.Replace the gaset. 3.Select appropriate gasket material and type according to the working condition.Contact for help in selecting gasket material and type.Specify requirements when ordering.
手柄、手轮的损坏 Damage of handle and handwheel	1、使用不正确； 2、紧固件松脱； 3、手柄、手轮与阀杆连接损伤。 1.Inappropriate usage of hand operator. 2.Fasteners have loosened. 3.Damage at the joint of hand operator and stem.	1、禁止使用管钳、长杠杆、撞击工具等； 2、随时修配； 3、随时修复。 1.Pipe tongs,long lever and impact tools are forbidden. 2.Can be repaired at any time. 3.Can be recovered at any time.
蜗轮蜗杆转动卡咬 Seizing-up between worm gear and worm	1、不清洁嵌入人脏物，影响润滑； 2、操作不善。 1.Dirty seat affects lubrication. 2.Inappropriate operation.	1、清除脏物，保持清洁，定期加油； 2、若操作时发现卡咬，阻力很大时，不能继续操作，就立即停止，彻底检查。 1.Clean the dirt,remain clean and refill grease regularly. 2.Stop and check carefully if strong seizing-up occurs during operation.
电动安装故障 Failure of motor installation	1、润滑不良，阀门内有异物卡住，造成转矩过大损坏； 2、电机故障。 1.Damage caused by over torque due to not enough lubrication or impurities inside valve. 2.Failure of motor.	1、就加油，使油管良好，填料压紧应适度，应及时排除阀内异物，保持清洁； 2、电机工作时间不超过15分钟，电源应正常，避免电机受潮。 1.Refill with grease to keep oil pipe in good condition and the packing should be tightened moderately.Impurities inside valve should be eliminated in time and keep clean. 2.Consistent operation of motor should not exceed 15 minutes. Enaure the power supply is normal and avoid the motor from getting wet.

球阀系列
Ball Valve Series

DBV上海东宝阀门制造有限公司

◆ 用途 Purpose

球阀问世于20世纪50年代，随着科学技术的飞速发展，生产工艺及产品结构的的不断改进，在短短的50年时间里，已迅速发展成为一种主要的阀类。在西方国家工业发达的国家，球阀的使用正在逐年不断的上升，在我国，球阀被广泛的应用在石油炼制、长输管线、化工、造纸、制药、水利、电力、市政、钢铁等行业，在国民经济中占有举足轻重的地位。

球阀主要用于截断或接通管路中的介质，亦可用于流体的调节与控制，其中本公司生产的硬密封V型球阀其V型球芯与堆焊硬质合金的金属阀座之间具有很强的剪切力，特别适用于含纤维、微小固体颗料等介质。而多通球阀在管道上不仅可灵活控制介质的合流、分流、及流向的切换，同时也可关闭任一通道而使另外两个通道相连。

Ball valve birthed on 50th 20 century, with the speedy development of science and technology and constant advancement of produce craftwork and product structure, it is becoming to be a main kind of valve in just 40 years. In developed west industry country, the usage of ball calve increasing year by year, at home, ball valve is widely used in such field as petroleum melting, long-distance transportation, chemical industry, papermaking, pharmaceutical industry, water power, electric power, city planning, steel, etc., hold the balance of national economy.

Ball valve mainly used to throw-off or throw-in the medium in pipeline and also used in adjustment and control of fluid. As my company's stiff sealing V-shaped ball valve which has super shearing function between the v-shaped spool and metallic valve seat made from butt-welding hard alley, specially suit to the medium of fiber and slight solid grain. And when use in the pipeline the multiply-way ball valve can not merely control the confluence, diffluence and switch of flow direction of medium, also can close any alleyway and make the other two alleyway connecting.

◆ 结构特点 construction charcters

①流体阻力小，球阀是所有阀类中流体阻力最小的一种，即使是缩径球阀，其流体阻力也相当小。
②开关迅速、方便，只要阀杆转动90o，球阀就完成了全开或全关动作，很容易实现快速启闭。
③阀座密封性能好。大多数球阀的密封圈都采用聚四乙烯等弹性材料制造，软密封结构易于保证密封，而且球阀的密封力随着介质压力的增高而增大。
④阀杆密封可靠。球阀启闭时阀杆只作旋转运动而不作升降运动，阀杆的填料密封不易破坏，且阀杆倒密封的密封力随着介质压力的增高而增大。
⑤由于聚四氟乙烯等材料具有良好的自润滑性，与球体的摩擦损小，故球阀的使用寿命长。
⑥可配置气动、电动、液动等多种驱动机构，实现远距离控制和自动化操作。
⑦阀体内通道平整光滑，可以输送粘性流体、浆液以及固体颗粒。
⑧安装简便，能以任意方向安装于管道中的任意部位。

1、Low fluid resistance, the fluid resistance of ball valve is the smallest among all valve varieties, even for reducing ball valve.
2、Easily and speedily to open and close, only rotate the stem for an angle of 90o, will finish the action of wide-open or wide-close, easy to realize fast on-off.
3、Great sealing function of valve seat. Most sealing ring of ball valve are made of elastic materials of PTEF etc. soft seal structure ensured openclose, And the sealing strength of ball valve will be stronger with the increasing of medium pressure.
4、Reliable stem seal. When open-and close, the stem of ball valve only do rotary movement but not lifting. The stuffing seal of stem is difficult to be broken, and the backward seal strength of stem will be larger with the arising of the medium pressure.
5、For advance self-lubrication of the materials as PTFE, the low friction makes the ball valve's service life much longer.
6、Equipped with kinds of derive actuator as pneumatic, electric, hydraulic, etc. to realize long-distance control and automatic operation.
7、The pipeline of valve seat is flat and slide can delivery viscosity fluid, slurry and solid grain.
8、Easily and convenient installation, can be installed in each place with each direction.

◆ 球阀的试验压力Ball valve test pressure

公称压力或压力极 Nominal pressure	壳体试验压力 (Mpa) Shell test pressure	密封试验压力(MPa) Pressure testing pressure		压力级 Pressure stage	试验压力PN(MPa) Test pressure		
		低压气密封 The low pressure is mad the seal	高压液密封 High-pressured fluid seal		壳体 Shell	高压液密封 High-pressured fluid seal	低压液密封 Low pressure fluid seal
PN1.0MPa	1.5	0.6	1.1	CLASS150	2.94	2.16	0.6
PN1.6MPa	2.4	0.6	1.76	CLASS300	7.67	5.62	0.6
PN2.5MPa	3.8	0.6	2.75	CLASS600	15.3	11.32	0.6
PN4.0MPa	6.0	0.6	4.4	CLASS900	23.0	16.85	0.6
PN6.3(6.4)0MPa	9.5	0.6	7.0	JIS 10K	2.4	1.5	0.6

◆ 球的型号编制方法Ball model establishment method

1单元unit 2单元unit 3单元unit 4单元unit 5单元unit 6单元unit 7单元unit

阀体材料Valve body material
公称压力Nominal pressure
结构形式Structural style
阀座材料Valve seat material
连接形式Valve seat material
驱动形式Actuation form
阀门类型Valve type

1单元unit

阀门类型 Valve type	代号 Number
球阀 Ball valve	Q
V型球阀 V ball valve	VQ
保温球阀 ball valve	BQ

2单元unit

驱动方式 Drive type	代号 Number
手动 Manual	无
蜗轮 Worm gear	3
气动 Pneumatic	6
液动 Fluid moves	7
电动 Electric	9

3单元unit

连接方式 Connection way	代号 Numberr
内螺纹 Thread	1
外螺纹 Thread	2
法兰 Flange	4
焊接 Welding	6
对夹 To clamps	7
卡箍Clip	8
卡套 Card sheath	9

4单元unit

结构形式 Structural style	代号 Number
半球直通 hemisphere goes nonstop to	0
浮动球全直通 fluctuation ball all goes nonstop to	1
浮动球三通L型 Fluctuation ball Three Contacts L	4
浮动球三通T型 Fluctuation ball Three Contacts T	5
浮动球三通Y型 Fluctuation ball Three Contacts Y	6
固定球全直通 The fixed ball all goes nonstop to	7
固定球三通式 Fixed ball three	8

5单元unit

阀座材料 Valve seat material	代号 Number
聚四氟乙烯 Teflon	F
增强聚四氟乙烯 Enhancement teflon	E
对位聚苯 Gathers the benzene to the position	PPL
硬质合金 Hard alloy	Y
合金钢 Alloy steel	H

7单元unit

阀体 Valve body	代号 Number
WCB	C
1Cr18Ni9Ti	P
1Cr18Ni12Mo2Ti	R
CF8(304)	P8
CF3(304L)	P3
CF8M(316)	R8
CF8M(316L)	R3

注：(1)手轮，手柄和板手传动省略第二单元代号。对于第三单元的气动或液动常开式用6K，7K，常闭式用6B、7B表示，气动带手动的用6S表示，防 防爆电动用9B表示，户外型用9R表示。
(2)第五单元材料如用阀体直接加工的用“W”表示，当相互接触的两个密封面材料不同时，用低硬的材代号表示。
(3)对于PN≤1.6MPa的灰铸铁阀门和PN≥2.5MPa的碳素钢阀门可以省略第七单元代号。
(4)如没特别说明，球体及主要内件与阀体同材质。
示例：Q641F-16P为压力为1.6MPa\气动传动\法兰连接\阀座材料为聚四氟乙烯的不锈钢球阀

Note: (1) the handwheel, the handle and the trigger transmission abbreviates the second unit code number. Air operated or the fluid moves Chang Kaishi regarding the third unit to use 6K, 7K, often the type with 6B, 7B indicated, the air operated belt manual indicated with 6S, the explosion-proof electricity uses 9B to indicate, the outdoors indicated with 9R.
(2) fifth unit material like with valve body direct processing using "W" expression, when mutually contacts when two packing surfaces materials are different, expressed with the low hard material code number.
(3) may abbreviate the seventh unit code number regarding the PN <= 1.6MPa gray iron valve and the PN >= 2.5MPa carbon steel valve.
(4) like not specially explained, spheroid and main contents and valve body same material quality.
Demonstration: Q641F-16P is the pressure is 1.6MPa\ pneumatic actuator \ the flange connection \ valve seat material for the teflon stainless steel ball valve.

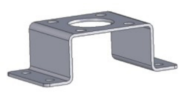
球阀配置示意图
Ball Valve Disposition Schematic Drawing

APL210限位开关
Limit switch

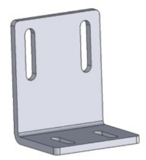
ALS限位开关
ALS Limit switch

BF防爆限位开关
BF Guards against explosions
the limit switch

电气阀门定位器
Guards against explosions
the limit switch

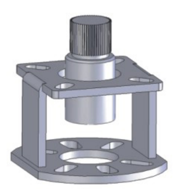


APL210专用支架
Special-purpose support



限位开关支架
Limit switch support

气源处理三联件
Gas Treatment Element



球阀专用支架
Ball valve special-purpose support

电磁换向阀
Reversing solenoid valve

手动操用机构
Manual holds with the
organization

国标球阀
GB code ball valve

高平台浮动球阀
High platform fluctuation
ball valve

固定球阀
Fixed ball valve

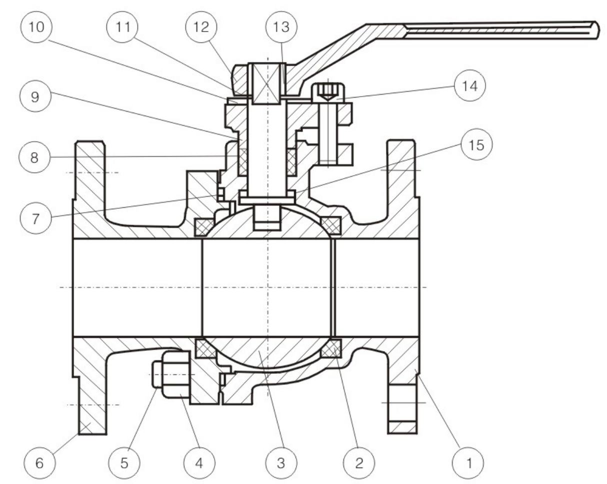
三通球阀
Three Contacts ball valve

V 型球阀
V ball valve

法兰连接浮动球阀
Flange-connection Floating Ball Valve

产品特征
Specifications
适用介质：水、气、油品、天然气和酸碱腐蚀性介质
Applicable medium : Water,gas,oil product,net gas and corrosive mediums as acids,alkalis,etc .

适用温度：-196~350℃
驱动方式：手动、气动、电动、液动等
Driving Means : Manual , pneumatic , motor , hydro-dynamic , etc .
公称通径：DN15~250mm 1/2"~10"
Inside Nomimal Diameter : DN 15~250mm 1/2"~10



◆ 技术规范 Technical Specification

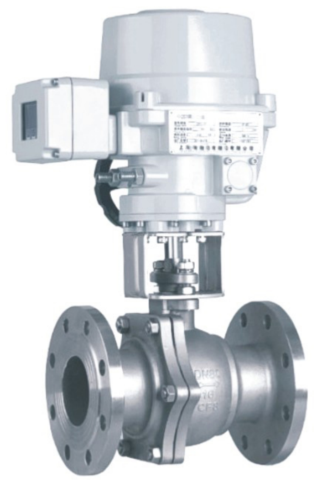
设计依据 Design Reference	GB系列 GB series	API系列 API series	
设计标准 Design Standard	GB/T12237	AP16D	ANSI B16. 34
法兰连接结构长度 Strucural Length of Flange-Connecting	GB/T12221	AP16D	ANSI B16. 10
结构长度(焊接) Strucural Length(Welding)	GB/T15188.1	AP16D	ANSI B16. 10
连接法兰 Connecting giange	GB/T9113 JB/T79 HG20592	ANSI B16. 5、B16. 47	
对焊端 Butt-weiding ends	GB/T12224	ANSI B16. 25	
试验和检验 Test & Inspection	GB/T9092	AP16D	AP1598

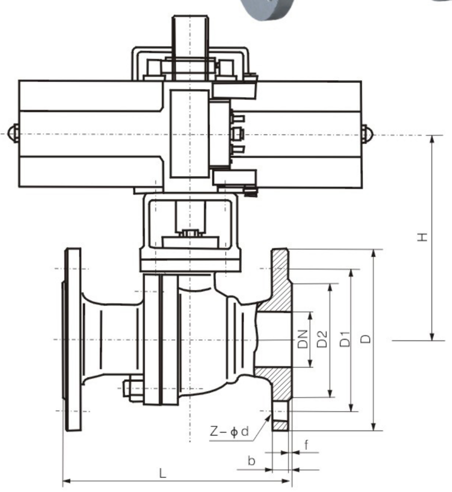
◆ 试验压力 Test Pressure

压力等级 Pressure grade		试验压力(MPa) Test pressure(MPa)	
公称压力(PN) Nominal pressure	磅级(Class) Pound(Class)	壳体试验 Shell test	密封试验 Sealing test
1.0	-	1.5	1.1
1.6	-	2.5	1.76
2.5	-	3.8	2.75
4.0	-	6.0	4.4
6.4	-	9.6	7.04
-	150	3.0	2.2
-	300	7.6	5.6
-	600	15.0	11.0
-	10K	2.4	1.5
-	20K	5.8	4.0

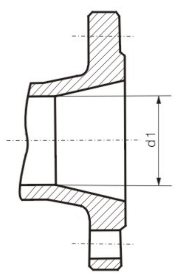
◆ 主要零件及材质 Main Parts and Materials

序号 No.	零件名称 Accessory name	材质 Material	
		GB	ASTM
1	阀体 Body	WCB	A216-WCB
2	密封圈 Sealing Ring	PTFE	PTFE
3	球体 Globe Ball	1Cr18Ni9Ti	SS304
4	螺母 Nut	35	A194-2H
5	螺柱 Stud	35CrMoA	A193-B7
6	石体 Bonnet	WCB	A216-WCB
7	垫片 Gasket	柔性石墨+不锈钢 graphite+stainless steel	B12.10-304/F.G
8	填料 Stuffing	PTFE	PTFE
9	填料压盖 Gland	WCB	A216-WCB
10	定位片 Locating piece	25	A105
11	挡圈 Ring	65Mn	AISI 1066
12	手柄 Wrench	K33	A47-667 Gr.32510
13	阀杆 Stem	1Cr33	A276-410
14	螺钉 Ccrew nial	35	A193-B7
15	止推垫片 Gasket	PTFE	PTFE

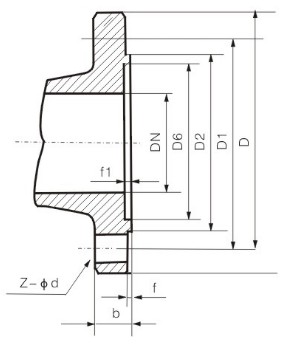




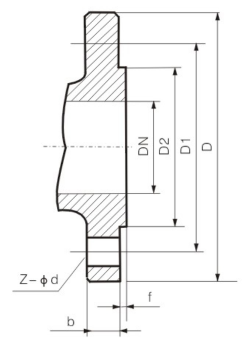
SYQ641型Type



缩径流道
Crinkled-Diameter
Interval Channel



PN4.0、6.4、10.0MPa
法兰 flange



Class600、900
法兰 flange

◆ GB系列主要连接尺寸表 Form of GB Series Main Connecting Dimension

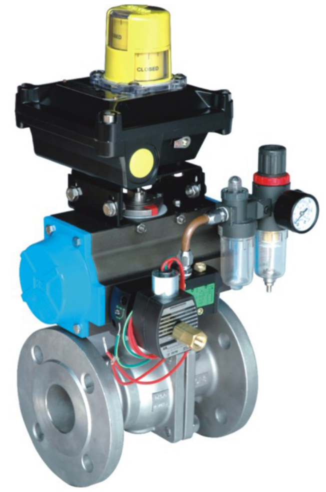
公称压力 PN(MPa) Nominal pressure	公称通径 DN(mm) Norminal diameter	尺寸Dimension(mm)													重量Kg (Weight)
		L		d1		D	D1	D2	b	f	z-ϕd	W	H		
		RF	BW	全通径	缩径							手动	41型	641型	41型
	15	108	140	15	–	95	65	45	14		4~14	130	75	200	2.5
	20	117	152	20	–	105	75	55	14	2	4~14	170	84	205	3
	25	127	165	25	–	115	85	65	14		4~14	170	90	215	4.5
	32	140	178	32	–	135	100	78	16		4~18	200	107	240	6.5
	40	165	190	40	–	145	110	85	16		4~18	250	127	265	8.5
	50	178	216	50	–	160	125	100	16		4~18	250	140	275	10
	65	190	241	65	–	180	145	120	18		4~18	350	164	380	16
	80	203	283	80	65	195	160	135	20		4~18	350	177	390	19
1.0	100	229	305	100	80	215	180	155	20	3	8~18	420	206	416	33
	125	356	381	125	100	245	210	185	22		8~18	700	292	542	55
	150	394	457	150	125	280	240	210	22		8~23	1000	320	575	82
	200	457	521	200	150	335	295	265	24		8~23	1300	365	610	140
	250	533	559	250	200	390	350	320	26		12~23	1800	420	650	–
	300	610	635	300	250	440	400	368	26		12~23	–	–	–	–
	350	686	762	350	300	500	460	428	26		16~25	–	–	–	–
	400	762	838	400	350	565	515	482	26	4	16~25	–	–	–	–
	450	864	914	450	350	615	565	532	28		20~25	–	–	–	–
	500	914	991	500	400	670	620	585	28		20~25	–	–	–	–

◆ GB系列主要连接尺寸表 Form of GB Series Main Connecting Dimension

续表 Continued form

公称压力 PN(MPa) Nominal pressure	公称通径 DN(mm) Norminal diameter	尺寸Dimension(mm)														重量Kg (Weight)
		L		d1		D	D1	D2	D6	b	f/f1	z-ϕd	W	H		
		RF	BW	全通径	缩径								手动	41型	641型	41型
	15	108	140	15	–	95	65	45	–	14		4~14	130	75	200	2.5
	20	117	152	20	–	105	75	55	–	14	2	4~14	170	84	205	3
	25	127	165	25	–	115	85	65	–	14		4~14	170	90	215	4.5
	32	140	178	32	–	135	100	78	–	16		4~18	200	107	240	6.5
	40	165	190	40	–	145	110	85	–	16		4~18	250	127	265	8.5
	50	178	216	50	–	160	125	100	–	16		4~18	250	140	275	10
	65	190	241	65	–	180	145	120	–	18		4~18	350	164	380	16
	80	203	283	80	65	195	160	135	–	20		8~18	350	177	390	19
	100	229	305	100	80	215	180	155	–	20	3	8~18	420	206	416	33
1.6	125	356	381	125	100	245	210	185	–	22		8~18	700	292	542	55
	150	394	457	150	125	280	240	210	–	24		8~23	1000	320	575	82
	200	457	521	200	150	335	295	265	–	26		12~23	1300	365	610	140
	250	533	559	250	200	405	355	320	–	30		12~25	1800	420	650	
	300	610	635	300	250	460	410	375	–	30		12~25	–	–	–	–
	350	686	762	350	300	520	470	435	–	34		16~25	–	–	–	–
	400	762	838	400	350	580	525	485	–	36	4	16~30	–	–	–	–
	450	864	914	450	350	640	585	545	–	40		20~30	–	–	–	–
	500	914	991	500	400	705	650	608		44		20~34	–	–	–	–
	15	140	140	15	–	95	65	45	–	16		4~14	130	75	200	2.5
	20	152	152	20	–	105	75	55	–	16	2	4~14	170	84	205	3
	25	165	165	25	–	115	85	65	–	16		4~14	170	90	215	4.5
	32	178	178	32	–	135	100	78	–	18		4~18	200	107	240	6.5
	40	190	190	40	–	145	110	85	–	18		4~18	250	127	265	8.5
	50	216	216	50	–	160	125	100	–	20		4~18	250	140	275	10
	65	241	241	65	–	180	145	120	–	22		8~18	350	164	380	16
	80	283	283	80	65	195	160	135	–	22		8~18	350	177	390	20
	100	305	305	100	80	230	190	160	–	24	3	8~23	420	206	416	35
2.5	125	381	381	125	100	270	220	188	–	28		8~25	700	292	542	60
	150	403	457	150	125	300	250	218	–	30		8~25	1000	320	575	92
	200	502	521	200	150	360	310	278	–	34		12~25	1300	365	625	175
	250	568	559	250	200	425	370	332	–	36		12~30	1800	420	660	–
	300	648	635	300	250	485	430	390	–	40		16~30	–	–	–	–
	350	762	762	350	300	550	490	448	–	44		16~34	–	–	–	–
	400	838	838	400	350	610	550	505	–	48	4	16~34	–	–	–	–
	450	914	914	450	350	660	600	555	–	50		20~34	–	–	–	–
	500	991	991	500	400	730	660	610	–	52		20~41	–	–	–	–
	15	140	140	15	–	95	65	45	40	16		4~14	130	75	200	3
	20	152	152	20	–	105	75	55	51	16	2/4	4~14	170	84	205	4
	25	165	165	25	–	115	85	65	58	16		4~14	170	90	215	5
	32	178	178	32		135	100	78	66	18		4~18	200	107	240	7
	40	190	190	40	–	145	110	85	76	18		4~18	250	127	265	9
	50	216	216	50		160	125	100	88	20	3/4	4~18	250	140	360	12
	65	241	241	65	–	180	145	120	110	22		8~18	350	164	380	18
	80	283	283	80	65	195	160	135	121	22		8~18	350	177	452	28
4.0	100	305	305	100	80	230	190	160	150	24		8~23	420	206	480	46
	125	381	381	125	100	270	220	188	176	28		8~25	700	292	646	75
	150	403	457	150	125	300	250	218	204	30	3/4.5	8~25	1000	320	666	106
	200	502	521	200	150	360	320	282	260	38		12~30	1300	365	815	190
	250	568	559	250	200	425	385	345	313	42		12~34	–	–	–	–
	300	648	635	300	250	485	450	408	364	46	4/4.5	16~34	–	–	–	–
	350	762	762	350	300	550	510	465	422	52		16~34	–	–	–	–
	400	838	838	400	350	610	585	535	474	58		16~41	–	–	–	–
	450	914	914	450	350	660	610	560	524	60	4/5	20~41	–	–	–	–
	500	991	991	500	400	730	670	612	576	62		20~48	–	–	–	–

气动球阀
Pneumatic ball valve



国标高平台气动球阀
Pneumatic ball valve

国标高平台气动球阀
Pneumatic ball valve

GB系列主要连接尺寸表 Form of GB Series Main Connecting Dimension

续表 Continued form

公称压力 PN(MPa) Nominal pressure	公称通径 DN(mm) Norminal diameter	尺寸Dimension(mm)														重量Kg (Weight)
		L		d1		D	D1	D2	D6	b	f/f1	z-φd	W	H		
		RF	BW	全通径	缩径								手动	41型	641型	41型
6.4	15	165	165	15	-	105	75	55	40	18	2/4	4~14	170	80	200	4.5
	20	191	191	20	-	125	90	68	51	20		4~18	200	89	205	6
	25	216	216	25	-	135	100	78	78	22		4~18	200	95	215	8
	32	229	229	32	-	150	110	82	66	24		4~23	250	112	240	12
	40	241	241	40	-	165	125	95	76	24	3/4	4~23	350	132	265	14
	50	292	292	50	40	175	135	105	88	26		4~23	350	145	360	18
	65	330	330	65	50	200	160	130	110	28		8~23	420	169	380	28
	80	356	356	80	65	210	170	140	121	30		8~23	420	182	452	40
	100	406	406	100	80	250	200	168	150	32	3/4.5	8~25	700	211	480	65
	125	508	508	125	100	295	240	202	176	36		8~30	1000	302	646	98
	150	495	495	150	125	340	280	240	204	38		8~34	1300	330	666	140
	200	597	597	200	150	405	345	300	260	44		12~34	-	-	-	-
	250	673	673	250	200	470	400	352	313	48		12~41	-	-	-	-
	300	762	762	300	250	530	460	412	364	54	4/4.5	16~41	-	-	-	-
	350	826	826	350	300	595	525	475	422	60		16~41	-	-	-	-
	400	902	902	400	350	670	585	525	474	66	4/5	16~48	-	-	-	-
	500	1054	1054	500	400	800	705	640	576	70		20~54	-	-	-	-
10.0	15	165	165	15	-	105	75	55	40	20	2/4	4~18	170	80	200	5.5
	20	191	191	20	-	125	90	68	51	22		8~18	200	89	205	7
	25	216	216	25	-	135	100	78	58	24		8~18	200	95	215	10
	32	229	229	32	-	150	110	82	66	24		4~23	250	112	240	15
	40	241	241	40	-	165	125	95	76	26	3/4	4~23	350	132	265	18
	50	292	292	50	40	195	145	112	88	28		4~25	350	145	360	25
	65	330	330	65	50	220	170	138	110	32		8~25	420	169	380	32
	80	356	356	80	65	230	180	148	121	34		8~25	420	182	452	46
	100	432	432	100	80	265	210	172	150	38	3/4.5	8~30	700	211	480	75
	125	508	508	125	100	310	250	210	176	42		8~34	-	-	-	-
	150	559	559	150	125	350	290	250	204	46		12~34	-	-	-	-
	200	660	660	200	150	430	360	312	260	54		12~41				
	250	787	787	250	200	500	430	382	313	60		14~41	-	-	-	-
	300	838	838	300	250	585	500	442	364	70	4/4.5	16~48	-	-	-	-
	350	889	889	350	300	655	560	498	422	76	4/5	16~54	-	-	-	-

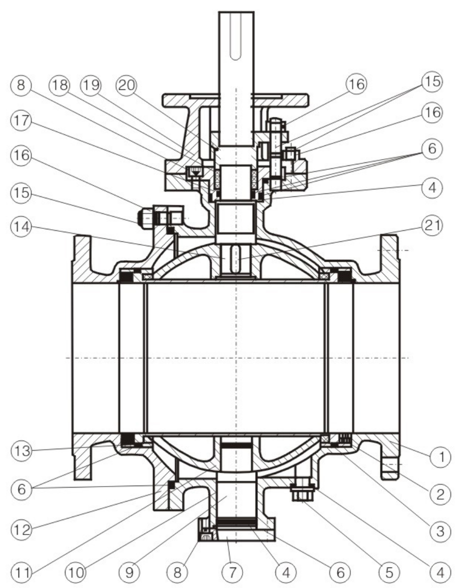
API系列主要连接尺寸表 Form of GB Series Main Connecting Dimension

续表 Continued form

压力级 Pressure class	公称通径 DN(mm) Norminal diameter	尺寸Dimension(mm)													重量Kg (Weight)
		L		d1		D	D1	D2	b	f	z-φd	W	H		
		RF	BW	全通径	缩径							手动	41型	641型	41型
Class150	1/2	108	140	13	-	89	60.5	35	-	1.6	4~15	130	75	200	2
	3/4	117	152	19	-	98	70	43	-		4~15	170	84	205	2.5
	1	127	165	25	-	108	79.5	51	12		4~15	170	90	215	4.5
	$1^{1}/2$	140	178	32	-	117	89	64	13		4~15	200	107	240	6
	$1^{1}/4$	165	190	38	-	127	98.5	73	15		4~15	250	127	265	7.5
	2	178	216	51		152	120.5	92	16.0		4~19	250	140	275	9.5
	$2^{1}/2$	190	241	64	-	178	139.5	105	18		4~19	350	164	3680	14
	3	.203	283	76	64	190	152.5	127	19		4~19	350	177	390	19
	4	229	305	102	76	229	190.5	157	24		8~19	420	206	415	30
	5	356	381	127	102	254	216.0	186	24		8~22	700	292	545	58
	6	394	457	152	127	279	241.5	216	26		8~22	1000	320	575	88
	8	457	521	203	152	343	298.5	270	29		8~22	1300	365	600	150
	10	533	559	254	203	406	362	324	31		12~25	-	-	-	-
	12	610	635	305	254	483	432	381	32		12~25	-	-	-	-
	14	686	762	337	305	533	476	413	35		12~29	-	-	-	-
	16	762	838	387	337	597	540	470	37		16~29	-	-	-	-
	18	864	914	438	337	635	578	533	40		16~32	-	-	-	-
	20	914	991	489	387	699	635	584	43		20~32	-	-	-	-
	24	1067	1143	591	489	813	749.5	692	48		20~35	-	-	-	-
Class300	1/2	140	140	13	-	95	66.5	35	15	1.6	4~15	130	75	200	3
	3/4	152	152	19		117	82.5	43	16		4~19	170	84	205	4
	1	165	165	25	-	124	89.0	51	18		4~19	170	90	215	6
	$1^{1}/2$	178	178	32	-	133	98.5	64	19		4~19	200	107	240	8
	$1^{1}/4$	190	190	38	-	156	114.5	73	21		4~22	250	127	265	10
	2	216	216	51	-	165	127.0	92	23		8~19	250	140	360	13
	$2^{1}/2$	241	241	64	-	190	149.0	105	26		8~22	350	164	380	20
	3	283	283	76	64	210	168.5	127	29		8~22	350	177	455	32
	4	305	305	102	76	254	200.0	157	32		8~22	420	206	480	52
	5	381	381	127	102	279	235.0	186	35		8~22	700	292	645	82
	6	457	457	152	127	318	270.0	216	37		12~22	1000	320	665	115
	8	521	521	203	152	381	330.0	270	42		12~25	1300	365	815	200
	10	559	559	254	203	445	387.5	324	48		16~29	-	-	-	-
	12	635	635	305	254	521	451	381	51		16~32	-	-	-	-
	14	762	762	337	305	584	514.5	413	54		20~32	-	-	-	-
	16	838	838	387	337	648	571.5	470	58		20~35	-	-	-	-
	18	914	914	432	337	711	628.5	533	61		24~35	-	-	-	-
	20	991	991	483	387	775	686	584	64		24~35	-	-	-	-
	24	1143	1143	591	483	914.5	813	692	70		24~41	-	-	-	-
Class600	1/2	165	165	13	-	95	66.5	35	15	6.4	4~15	170	80	200	5.5
	3/4	191	191	19	-	118	82.5	43	16		4~19	200	89	205	7
	1	216	216	25		124	89	51	18		4~19	200	95	215	10
	$1^{1}/2$	229	229	32	-	133	98.5	64	21		4~19	250	112	240	15
	$1^{1}/4$	241	241	38	-	156	114.5	73	23		4~22	350	132	265	18
	2	292	292	51	38	165	127	92	26		8~19	350	145	360	25
	$2^{1}/2$	330	330	64	51	190	149	105	29		8~22	420	169	380	32
	3	356	356	76	64	210	168.5	127	32		8~22	420	182	455	46
	4	406	406	102	76	273	216	157	38		8~25	700	211	480	75
	6	559	559	152	127	356	292	216	48		12~29	-	-	-	-
	8	660	660	200	152	419	349	270	56		12~32	-	-	-	-
	10	787	787	248	200	508	432	324	64		16~35	-	-	-	-
	12	838	838	298	248	559	489	381	67		20~35	-		-	-
	14	889	889	327	298	603	527	413	70		20~38	-	-	-	-
	16	991	991	375	327	686	603	470	77		20~41	-	-	-	-
	18	1092	1092	432	327	743	654	533	83		20~45	-	-	-	-
	20	1194	1194	483	375	813	724	584	89		24~45	-	-	-	-
	24	1397	1397	591	483	940	838	692	102		24~51	-	-	-	-

产品特征
Specification
适用介质：水气油品天然气和酸碱腐蚀性介质
Applicable medium: Water,gas,oil product,natural gas and corrosive mediums as acids , alkais , etc .

适用温度： −196～350℃
Applicable Temperature : −196～350℃
驱动方式：手动、气动，电动、液动等
Driving Means : Manual ,pneumatic , motor , hydro-dynamic , etc .
公称通径：DN15～800mm 1/2"～32"
Inside Nominal Diameter : DN15～800mm



◆ 技术规范 Technical Specification

设计依据 Design Reference	GB系列 GB series	API系列 API series	
设计标准 Design Standard	GB/T12237	AP16D	ANSI B16. 34
法兰连接结构长度 Strucural Length of Flange-Connecting	GB/T12221	AP16D	ANSI B16. 10
结构长度(焊接) Strucural Length(Welding)	GB/T15188.1	AP16D	ANSI B16. 10
连接法兰 Connecting giange	GB/T9113 JB/T79 HG20592	ANSI B16. 5、B16. 47	
对焊端 Butt-weiding ends	GB/T12224	ANSI B16. 25	
试验和检验 Test & Inspection	GB/T9092	AP16D	AP1598

◆ 试验压力 Test Pressure

压力等级 Pressure grade		试验压力(MPa) Test pressure(MPa)	
公称压力(PN) Nominal pressure	磅级(Class) Pound(Class)	壳体试验 Shell test	密封试验 Sealing test
1.0		1.5	1.1
1.6	−	2.5	1.76
2.5	−	3.8	2.75
4.0	−	6.0	4.4
6.4	−	9.6	7.04
−	150	3.0	2.2
−	300	7.6	5.6
−	600	15.0	11.0
−	10K	2.4	1.5
−	20K	5.8	4.0

◆ 主要零件及材质 Main Parts and Materials

序号 No.	零件名称 Accessory name	材质 Material	
		GB	ASTM
1	阀体 Body	WCB	A216-WCB
2	弹簧 Spring	60Si2Mn	AISI 9260
3	密封圈 Sealing Ring	PTFE	PTFE
4	垫片 Gasket	PTFE	PTFE
5	排污螺塞 Blowoff screw	25	A105
6	"0" 型密封圈 "0" Ring	橡胶 Rubber	橡胶 Rubber
7	底盖 bottom cover	25	A105
8	螺钉 Ccrew nial	35	A193-B7
9	固定轴 Fix spindle	1Cr13	A276-410
10	滑动轴承 Sliding bearing	PTFE & stainless steel	PTFE & stainless steel
11	球体 Ball	1Cr18Ni9Ti	SS304
12	阀盖 Bonnet	WCB	A216-WCB
13	阀座 Seat	25	A105
14	阀杆 Stem	1Cr13	A276-410
15	螺柱 Stud	35CrMoA	A193-B7
16	螺母 Nut	35	A194-2H
17	压套 Cover	25	A105
18	填料 Stuffing	PTFE	PTFE
19	支架 Support	WCB	A216-WCB
20	填料压盖 Gland	WCB	A216-WCB
21	键 Key	45	AISI C 1045

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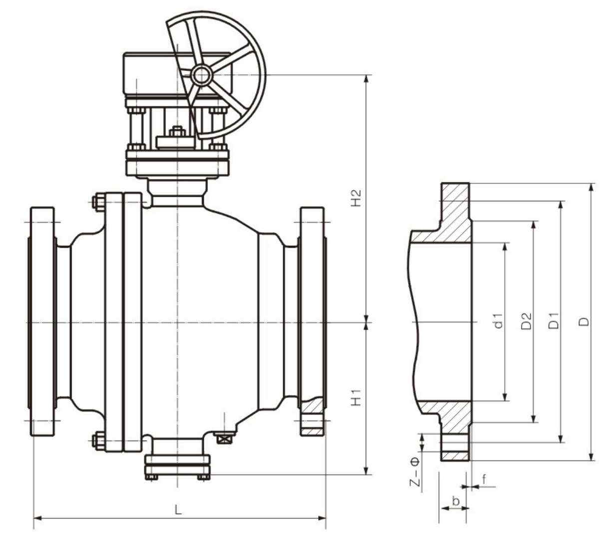
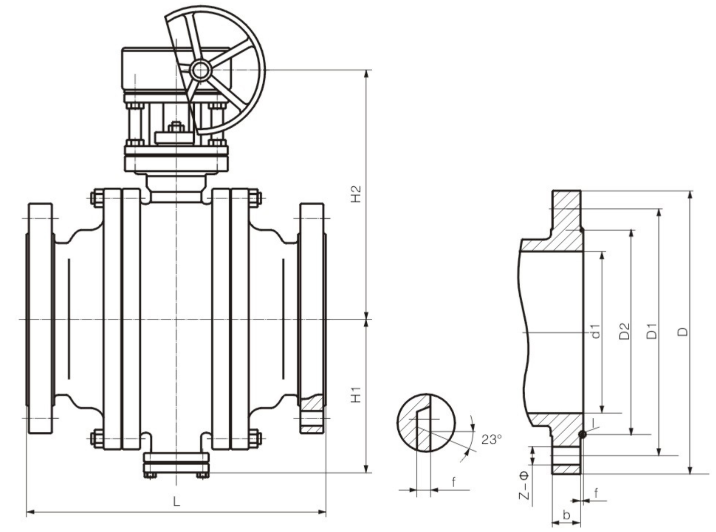


◆ GB系列主要连接尺寸表 Form of GB Series Main Connecting Dimension

公称压力 PN(MPa) Nominal pressure	公称通径 DN(mm) Norminal diameter	尺寸 (mm)									
		d1	L	D	D1	D2	f	b	Z-Φd	H1	H2
	25	25	127	115	85	65	2	14	4-14	−	75
	32	32	140	135	100	78	2	16	4-18	−	85
	40	40	165	145	110	85	3	16	4-18	−	95
	50	50	178	160	125	100	3	16	4-18	−	107
	65	65	190	180	145	120	3	18	4-18	−	142
	80	80	285	195	160	135	3	20	8-18	−	152
	100	100	305	215	180	155	3	20	8-18	−	178
	125	125	356	245	210	185	3	22	8-18	−	252
	150	150	394	280	240	210	3	24	8-23	−	272
1.6	200	200	457	335	295	265	3	26	12-23	335	398
	250	250	533	405	355	320	3	26	12-25	385	495
	300	300	610	460	410	375	4	30	12-25	430	580
	350	350	686	520	470	435	4	34	16-25	470	625
	400	400	762	580	525	485	4	36	16-30	590	720
	500	500	914	705	650	608	4	44	20-34	700	840
	600	600	1067	840	770	718	5	48	20-41	780	1050
	700	700	1245	910	840	788	5	50	24-41	950	1150
	800	781	1372	1020	950	898	5	52	24-41	−	1150
	25	25	165	115	85	65	2	16	4-14	−	75
	32	32	180	135	100	78	2	18	4-18	−	85
	40	40	190	145	110	85	3	18	4-18	−	95
	50	50	216	160	125	100	3	20	4-18	−	107
	65	65	241	180	145	120	3	22	8-18	−	142
	80	80	283	195	160	135	3	24	8-18	−	152
	100	100	305	230	190	160	3	28	8-23	−	178
	125	125	381	270	220	188	3	30	8-25	−	252
	150	150	403	300	250	218	3	34	8-25	−	272
	200	200	502	360	310	278	3	34	12-25	−	398
2.5	250	250	568	425	370	332	3	36	12-25	335	495
	300	300	648	485	430	390	4	40	12-30	385	580
	350	350	762	550	490	448	4	44	16-34	430	625
	400	400	838	610	550	501	4	48	16-34	470	720
	500	500	991	730	660	610	4	52	20-41	590	840
	600	600	1143	840	770	718	5	56	20-41	700	1050
	700	700	1346	955	875	815	5	60	24-48	780	1150
	800	781	1524	1070	990	930	5	64	24-48	950	1150

◆ GB系列主要连接尺寸表 Form of GB Series Main Connecting Dimension

公称压力 PN(MPa) Nominal pressure	公称通径 DN(mm) Norminal diameter	尺寸（mm）											
		d1	L	D	D1	D2	D6	f	f2	b	Z-Φd	H1	H2
4.0	25	25	165	115	85	65	58	2	4	16	4-14	–	75
	32	32	180	135	100	78	66	2	4	18	4-18	–	85
	40	40	190	145	110	85	76	3	4	18	4-18	–	95
	50	50	216	160	125	100	88	3	4	20	4-18	–	107
	65	65	241	180	145	120	110	3	4	22	8-18	–	142
	80	80	283	195	160	135	121	3	4	22	8-18	–	152
	100	100	305	230	190	160	150	3	4.5	24	8-23	–	178
	125	125	381	270	220	188	176	3	4.5	28	8-23	–	252
	150	150	43	300	250	218	204	3	4.5	30	8-25	–	272
	200	200	502	375	320	282	260	3	4.5	38	12-30	–	398
	250	250	568	445	385	345	313	3	4.5	42	12-34	283	495
	300	300	618	510	450	408	364	4	4.5	46	16-34	380	580
	350	350	762	570	510	465	422	4	4	52	16-34	425	625
	400	400	838	655	585	535	474	4	5	58	16-41	492	720
	500	500	991	755	670	612	576	4	5	62	20-48	555	840
	600	600	1143	890	795	30	678	5	6	62	20-54	675	1050
	700	700	1346	995	900	838	768	5	6	68	24-54	850	1150
	800	781	1524	1135	1030	960	876	5	6	76	24-58	950	1150
6.4	25	25	216	135	100	78	58	2	4	22	4-18	–	75
	32	32	229	150	110	82	66	2	4	24	4-23	–	85
	40	40	241	165	125	95	76	3	4	24	4-23	–	95
	50	50	292	175	135	105	88	3	4	26	4-23	–	107
	65	65	330	200	160	130	110	3	4	28	8-23	–	142
	80	80	356	210	170	140	121	3	4	30	8-23	–	152
	100	100	432	250	200	168	150	3	4.5	32	8-25	–	178
	150	150	660	340	280	240	204	3	4.5	38	8-34	–	272
	200	200	787	405	345	300	260	3	4.5	44	12-34	–	398
	250	250	838	470	400	352	313	3	4.5	48	12-41	283	445
	300	300	889	530	460	412	364	4	4.5	54	16-41	380	515
	350	350	991	595	525	475	422	4	4	60	16-41	425	550
	400	400	1092	670	585	525	474	4	5	66	16-48	498	615
	500	500	1194	800	705	640	576	4	5	70	20-54	555	810
	600	600	1397	930	820	750	678	5	6	76	20-58	675	845
	700	700	1549									850	1089
10.0	25	25	216	135	100	78	58	2	4	24	4-18	–	75
	32	32	229	150	110	82	66	2	4	24	4-23	–	85
	40	40	241	165	125	95	76	3	4	26	4-23	–	95
	50	50	292	195	145	112	88	3	4	28	4-25	–	107
	65	65	330	220	170	138	110	3	4	32	8-25	–	142
	80	80	356	230	180	148	121	3	4	34	8-25	–	152
	100	100	432	265	210	172	150	3	4.5	38	8-30	–	178
	150	150	559	350	290	250	204	3	4.5	46	12-34	–	272
	200	200	660	430	360	312	260	3	4.5	54	12-41	–	398
	250	250	787	500	430	382	313	3	4.5	60	12-41	283	445
	300	300	838	585	500	442	364	4	4.5	70	16-18	380	515
	350	350	889	655	560	498	422	4	5	76	16-54	425	550
	400	400	991	715	620	558	474	4	5	80	16-54	498	615



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◆ API系列主要连接尺寸表 Form of GB Series Main Connecting Dimension

压力级 Pressure class	公称通径 DN(mm) Norminal diameter	尺寸（mm）									
		d1	L	D	D1	D2	f	b	Z-Φd	H1	H2
150	1/2"	13	108	89	60.5	35	2	12	4-15	–	59
	3/4"	19	117	98	70	43	2	12	4-15	–	63
	1"	25	127	108	79.5	51	2	12	4-15	–	75
	1 1/2"	38	165	127	98.5	73	2	15	4-15	–	95
	2"	51	178	152	120.5	92	2	16	4-19	–	107
	2 1/2"	64	190	178	139.5	105	2	18	4-19	–	142
	3"	76	203	190	152.5	127	2	19	4-19	–	152
	4"	102	229	229	190.5	157	2	24	8-19	–	178
	5"	127	356	254	216	186	2	24	8-22	–	252
	6"	152	394	279	241.5	216	2	26	8-22	–	272
	8"	203	457	343	298.5	270	2	29	8-22	–	398
	10"	254	533	406	362	324	2	31	12-26	335	495
	12"	305	610	483	432	381	2	32	12-26	385	580
	14"	337	686	533	476	413	2	35	12-29	430	625
	16"	387	762	597	540	470	2	37	16-29	470	720
	20"	489	914	699	635	584	2	43	20-32	590	840
	24"	591	1067	813	749.5	692	2	48	20-35	700	1050
300	1/2"	13	140	95	66.5	35	2	15	4-15	–	59
	3/4"	19	152	117	82.5	43	2	16	4-19	–	63
	1"	25	165	124	89	51	2	18	4-19	–	75
	1 1/2"	38	190	156	114.5	73	2	19	4-22	–	95
	2"	51	216	165	127	92	2	23	8-19	–	107
	2 1/2"	64	241	190	149	105	2	26	8-22	–	142
	3"	76	283	210	168.5	127	2	29	8-22	–	152
	4"	102	305	254	200	157	2	32	8-22	–	178
	5"	127	381	279	235	186	2	35	8-22	–	252
	6"	152	403	318	270	216	2	37	12-22	–	272
	8"	203	502	381	330	270	2	42	12-25	–	398
	10"	254	568	445	387.5	324	2	48	16-29	335	495
	12"	305	648	512	451	381	2	51	16-32	385	580
	14"	337	762	584	514.5	413	2	54	20-32	430	625
	16"	387	838	648	571.5	470	2	58	20-35	470	720
	20"	489	991	775	686	584	2	64	24-35	590	840
	24"	591	1143	914	813	692	2	70	24-41	700	1050

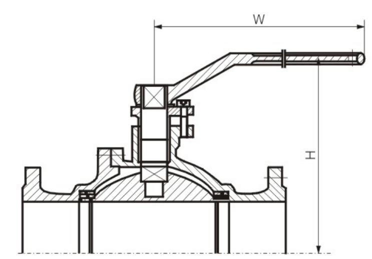
◆ API系列主要连接尺寸表 Form of GB Series Main Connecting Dimension

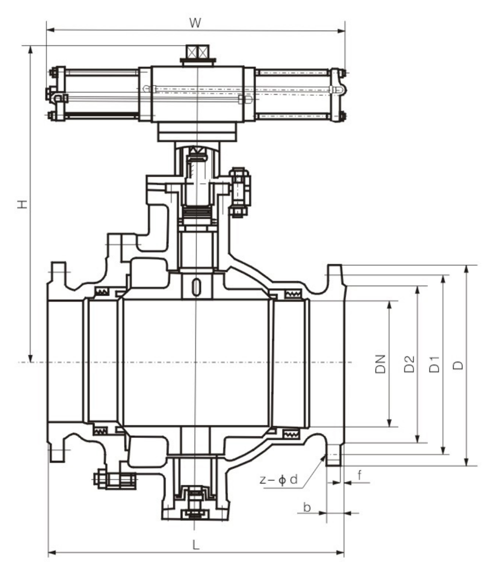
压力级 Pressure class	公称通径 DN(mm) Norminal diameter	尺寸（mm）										
		d1	L	D	D1	D2	I	f	b	Z-Φd	H1	H2
400	1/2"	13	165	95	66.7	35		6.4	14.5	4-15	-	59
	3/4"	19	190	117	82.5	43		6.4	16	4-19	-	63
	1"	25	216	124	88.9	51		6.4	17.5	4-19	-	75
	1 1/2"	38	241	156	114.3	73		6.4	22.5	4-22	-	95
	2"	51	292	165	127	92		6.4	25.5	8-19	-	107
	4"	102	406	254	200	157		6.4	35	8-26	-	178
	6"	152	495	318	269.9	216		6.4	41.5	12-26	250	300
	8"	203	597	381	330.2	270		6.4	48	12-29	294	374
	10"	254	673	445	387.3	324		6.4	54	16-32	370	445
	12"	305	762	520	450.8	381		6.4	57.5	16-35	420	515
	14"	337	825	585	514.3	413		6.4	60.5	20-35	460	550
	16"	387	902	650	571.5	470		6.4	63.5	20-39	505	615
	20"	489	1054	775	685.8	584		6.4	70	24-42	630	810
	24"	591	1232	915	812.8	692		6.4	76.5	24-48	825	1010
600	1/2"	13	165	95	66.5	35	-	6.4	15	4-15	-	59
	3/4"	19	190	118	82.5	43	-	6.4	16	4-19	-	63
	1"	25	216	124	89	51	-	6.4	18	4-19	-	75
	1 1/2"	38	241	156	114.5	73	-	6.4	23	4-22	-	95
	2"	51	292	165	127	92	-	6.4	26	8-19	-	107
	4"	102	432	273	216	157	-	6.4	38	8-25	-	178
	6"	152	559	356	292	216	-	6.4	48	12-29	250	300
	8"	203	660	419	349	270	-	6.4	56	12-32	294	374
	10"	254	787	508	432	324	-	6.4	64	16-35	370	445
	12"	305	838	559	489	381	-	6.4	67	20-35	420	515
	14"	337	889	603	527	413	-	6.4	70	20-38	460	550
	16"	387	991	686	603	470	-	6.4	77	20-41	505	615
	20"	489	1194	813	724	574	-	6.4	89	24-44	630	810
	24"	591	1397	940	838	692	-	6.4	102	24-52	825	1010
900	80	80	384	241	190.5	156	123.82	7.92	38.5	8-26	191	259
	100	100	460	292	234.5	181	149.22	7.92	44.5	8-32	216	297
	150	150	613	381	317.5	241	211.12	7.92	56	12-32	270	360
	200	200	740	470	393.7	308	269.88	7.92	63.5	12-39	322	394
	250	250	841	545	469.9	362	323.85	7.92	70	16-39	420	502
	300	300	968	610	533.4	419	381.00	7.92	79.5	20-39	470	572
	350	350	1038	640	558.8	467	419.10	11.13	86	20-42	510	675
	400	400	1140	705	615.9	524	469.90	11.13	89	20-45	600	762
	450	450	1232	785	685.8	594	533.40	12.7	102	20-51	700	866
	500	500	1334	855	749.6	648	584.20	12.7	108	20-54	720	894
	600	600	1569	1040	901.7	772	692.15	15.88	140	20-67	810	856
1500	15	15	216	121	82.5	60.5	39.67	6.35	22.5	4-23	-	138
	20	20	229	130	88.9	66.5	44.45	6.35	25.5	4-23	-	144
	25	25	254	149	101.6	71.5	50.80	6.35	29	4-26	-	147
	40	40	305	178	123.8	92	68.28	6.35	32	4-29	139	210
	50	50	371	216	165.1	124	95.25	7.92	38.5	8-26	126	217
	80	80	473	267	203.2	168	135.52	7.92	48	8-32	191	259
	100	100	549	311	241.3	194	161.92	7.92	54	8-35	216	297
	150	150	711	394	317.5	218	211.12	9.52	83	12-39	296	365
	200	200	841	483	393.7	318	269.88	11.13	92	12-45	378	475
	250	250	1000	585	482.6	371	323.85	11.13	108	12-51	495	578
	300	300	1146	675	571.5	438	381.00	14.27	124	12-54	542	696
	350	350	1276	750	635	489	419.10	15.88	133.5	16-61	590	761
	400	400	1407	826	704.8	546	469.90	17.48	146.5	16-67	670	831
	450	450	1559	915	774.7	613	533.40	17.48	162	16-74	710	900
	500	500	1686	985	831.8	643	574.20	17.48	178	16-80	750	950
	600	600	1972	1170	990.6	794	692.15	20.62	203.5	16-93	850	1080

◆ 产品结构特点 Construction Features

本系列球阀是作为控制含尘、含固体粉末，特别适用于高炉煤粉喷吹、空气管路及喷枪管路等系列。
1、阀座带有磨损自动补偿装置，有效确保阀门的密封性能。
2、特殊材料制成的密封圈，具有耐高温、耐磨损、使用寿命长的特点。
3、阀门结构紧凑、启闭灵活、安装维修方便。

The Air operated ball valve series are designed for controlling the powders containing dusts or solid bodies , especially for those fields or systems as coal-power infection in high-furnace ,airflow lines , etc .
1. Wear-auto-compensation equipment is applied with the valve seat to effectively ensure the sealing performance of the valve .
2.The seal ring made from exotic materials features such specialties as high-temperature resistance , abrasion-resistance ,long service-life, etc .
3.The valve bears those characteristics like compact structure , flexible on-off ,and convenient method for installation and maintenance .





◆ 主要零件及材质 Main Parts and Materials

零件名称Accessory name	材质 Material
阀体、阀盖Body、bonnet	WCB
球体、阀座Globe Ball, seat	1Cr18Ni9Ti+硬铬
阀杆 Stem	2Cr13
密封圈Sealing ring	特种耐磨耐高温四氟
螺栓 Bolt	中碳钢Medium Carbon stell

◆ 技术规范 Technical Specification

公称压力Nominal pressure	1.6MPa
公称通径Norminal diameter	2.4MPa
高压液密封High-Pressure Liquid Sealing	1.76MPa
低压液密封Low-Pressure Liquid Sealing	0.6MPa
适用温度Applicable Temperature	-28~300℃
适用介质Applicable mediums	含尘埃气体、煤粉等
结构长度按Physical dimension follows	GB1221-89
法兰尺寸按Flange dimension follows	GB9113、JB79-59
检验试验按Teat and inspection follows	JB/T9092-99
驱动方式 Driving manner	手动、气动

◆ 主要连接尺寸表 Main Connecting Dimension

公称压力 PN(MPa) Nominal pressure	公称通径 DN(mm) Norminal diameter	尺寸Dimension(mm)				
		L	W		H	
			手动	气动	手动	气动
1.6	25	180	140	235	90	298
	32	200	155	235	107	304
	40	220	250	330	127	370
	50	220	250	330	140	376
	65	241	350	400	164	425
	80	283	350	510	177	484
	100	305	420	510	206	531
	125	356	700	580	292	570
	150	394	1000	720	320	570
	200	457	-	720	-	610
	250	533	-	900	-	670
	300	610	-	1050	-	740
	350	686	-	1290	-	790
	400	762	-	1600	-	905

其余连接尺寸请参阅样本《主要外型与连接尺寸表》
Please refer to the sample book of Form of Main Types and Connecting Dimension for other connection dimensions.

◆ V型球阀 V-shaped ball valve

V型球阀是一种球芯带有V形缺口的旋转式切断阀，它与阀门定位器配套使用可实现比例调节。广泛应用于石油、化工、造纸、冶金、水处理等工业部门，对管道内介质进行调节或切断，它流量系数大，阀座带有增能环，可调节密封力，确保密封。

V-shaped ball valve is a rotary shut off valve with V-shaped gap in the core. Using it with valve positioner may realize ratio adjustment. It is widely used in industrial sectors such as petroleum, chemical, papermaking, metallurgy, water treatment, and so on. It may regulate or cut off the media in pipeline . With a big flow coefficient, booster ring at valve seat for adjusting sealing force load, it can ensure tight seal.

◆ 产品特点 Product features

A、采用弹簧加载的可动阀座结构，防止了球芯与阀座发生卡阻或脱离等问题，密封可靠，使用寿命长。
B、V型切口的球芯与金属阀座之间有剪切作用，特别适用于含纤维、微小固体颗粒、浆料等介质。
C、全开时流通能力大，压力损失小，且介质不会沉积在阀体中腔。
D、本阀具有精确调节并可靠定位功能，流量特性为近似等百分比，可调范围大，最大可调比为100：1。

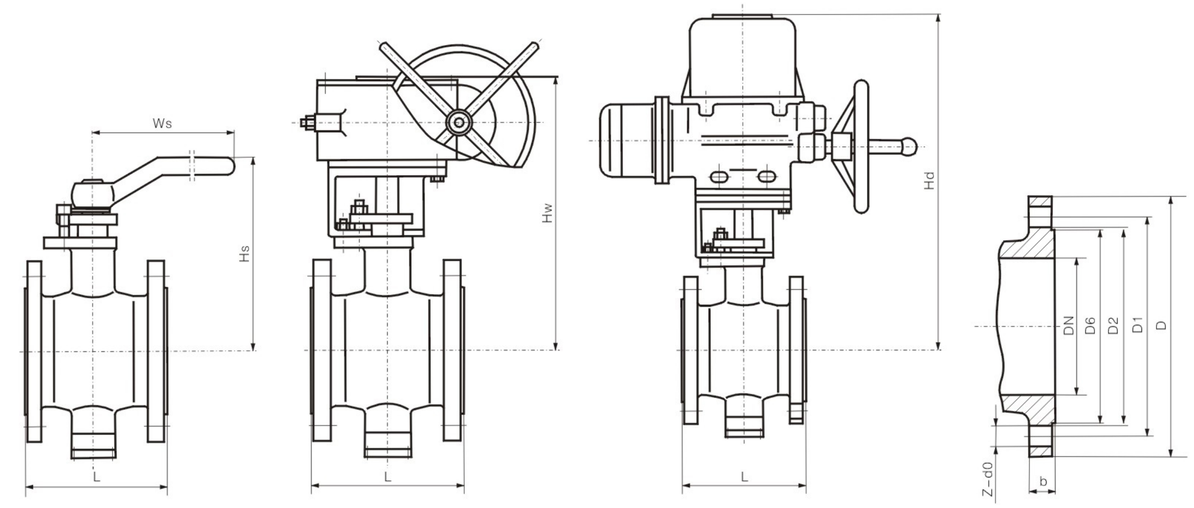
A、Movable spring-loaded valve seat structure prevents jamming or severing between ball core and valve seat to make the seal reliable and useful life long.
B、There is shearing action between V-shaped notch ball core and metal valve seat, so it is applicable especially to media containing fiber, micro solid materials, pulp, and so on.
C、When it is fully open, there will be a big flow capacity and small pressure loss and the medium will not deposit in the valve cavity.
D、The valve has precise adjustment and reliable position function. The flow characteristic is approximate equal percentage and the adjustable range is wide with largest adjustable ratio of 100:1.

◆ 主要设计参数 Principle design parameters

公称压力：PN1.6~6.4MPa
Nominal pressure: PN1.6~PN6.4MPa
使用温度：常温-28~+180℃
Operating temperature: room temperature -28~+180℃
中温：-28~+250℃
Medium temperature: -28~+250℃
高温：-40~+425℃
High temperature: -40~+425℃
阀体材料：WCB Cf8 CF8M CF3M
Valve body material: WCB Cf8 CF8M CF3M
阀杆：2Cr13 304 316
Valve stem: 2Cr13 304 316
回转角度：90°
Revolution angle: 90°
阀座：PTFE 0Cr17Ni4Cu4Nb
Valve seat: PTFE 0Cr17Ni4Cu4Nb
阀芯材料：CF8 CF8M CF3M
Valve disk material: Cf8 CF8M CF3M
基本误差：≤1.5%
Basic error: ≤1.5%
回差：≤1.5%
Return difference: ≤1.5%
死区：≤0.5%
Dead zone: ≤0.5%

公称通径DN、额定流量系数Kv、允许压差△P见表
Nomianl diameter DN, rated flow coefficient Kv, allowable pressure difference △P see the table

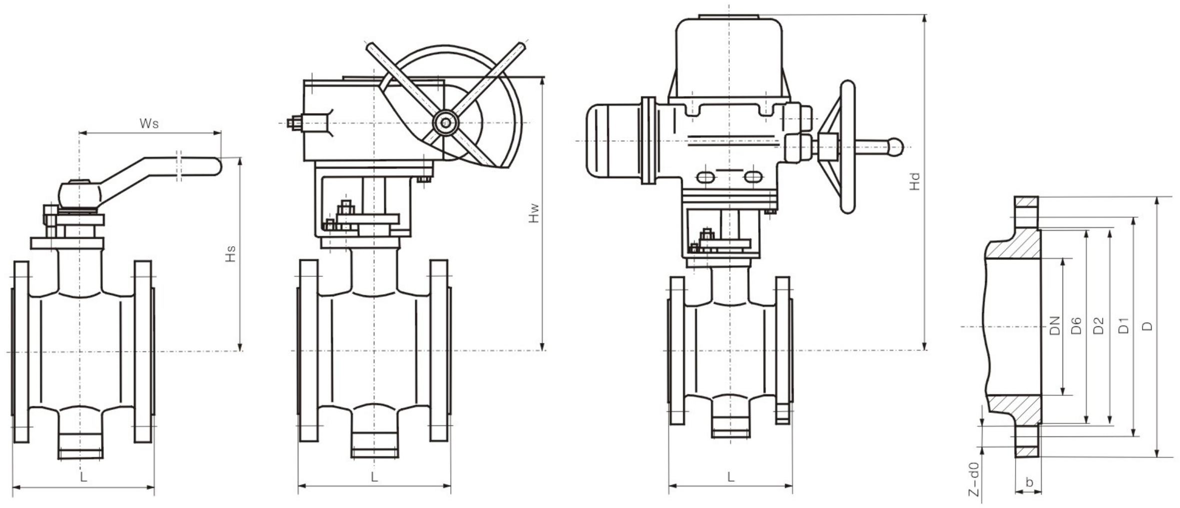
DN(mm)	25	32	40	50	65	80	100	150	200	250	300	350	400
Kv	22	36	58	82	145	200	355	798	418	2209	3185	4309	5664
△P(MPa)	14	8	10	9	20	14	8	6	3.5	1.6	2.5	2	1.5



手动 manual　　SYVQ647F/Y 蜗轮传动 Worm gear　　SYVQ947F/Y 电动 Electric

◆ 主要外形与连接尺寸表 Form of Main Types and Connection Dimension

公称压力 PN(MPa) Nominal diameter	公称通径 DN(mm) Nominal prssure	尺寸 Dimension (mm)								
		L	D	D1	D2	f	B	H	L1	N-Φ
1.6MPa	25	102	115	85	65	2	14	150	260	4-14
	32	102	135	100	78	2	16	165	260	4-18
	40	114	145	110	85	3	16	170	260	4-18
	50	124	160	125	100	3	16	190	260	4-18
	65	145	180	145	120	3	18	208	260	8-18
	80	165	195	160	135	3	20	250	260	8-18
	100	194	215	180	155	3	20	265	262	8-18
	125	213	245	210	185	3	22	290	262	8-18
	150	229	280	240	210	3	24	330	370	8-23
	200	243	335	295	265	3	26	390	370	12-23
	250	297	405	355	320	3	30	450	370	12-25
	300	338	460	410	375	4	30	480	370	12-25
	350	400	520	470	435	4	34	540	370	16-25
	400	400	580	525	548	4	36	540	370	16-30
2.5MPa	25	102	115	85	65	2	16	150	260	4-14
	32	102	135	100	78	2	18	165	260	4-18
	40	114	145	110	85	3	18	170	260	4-18
	50	124	160	125	100	3	20	190	260	4-18
	65	145	180	145	120	3	22	208	260	8-18
	80	165	195	160	135	3	22	250	260	8-18
	100	194	230	190	160	3	24	265	262	8-23
	125	213	270	220	188	3	28	290	262	8-25
	150	229	300	250	218	3	30	330	370	8-25
	200	243	360	310	278	3	34	390	370	12-25
	250	297	425	370	332	3	36	450	370	12-30
	300	338	485	430	390	4	40	480	370	16-30
	350	400	550	490	448	4	44	540	370	16-34
	400	400	610	550	505	4	48	540	370	16-34



手动 manual　　SYVQ647F/Y 蜗轮传动 Worm gear　　SYVQ947F/Y 电动 Electric

◆ 主要外形与连接尺寸表 Form of Main Types and Connection Dimension

公称压力 PN(MPa) Nominal diameter	公称通径 DN(mm) Nominal prssure	尺寸 Dimension (mm)								
		L	D	D1	D2	f	b	H	D6	N-Φ
4.0MPa	25	102	115	85	65	2	16	150	58	4-14
	32	102	135	100	78	2	18	165	66	4-18
	40	114	145	110	85	2	18	170	76	4-18
	50	124	160	125	100	3	20	225	225	8-18
	5	143	180	145	120	3	22	235	235	8-18
	80	165	195	160	135	3	22	260	260	8-18
	100	194	230	190	160	3	24	270	270	8-23
	125	213	270	220	188	3	28	320	320	8-25
	150	229	300	250	218	3	30	340	340	8-25
	200	243	375	320	282	3	38	390	390	12-30
	250	297	445	385	345	3	42	420	420	12-34
	300	338	510	450	408	4	46	510	510	16-34
6.4MPa	25	102	135	100	78	2	22	150	150	4-18
	32	102	150	110	82	2	24	165	165	4-23
	40	114	165	125	95	3	24	170	170	4-23
	50	124	175	135	105	3	26	225	225	4-23
	65	145	200	160	130	3	28	235	235	8-23
	80	165	210	170	140	3	30	260	260	8-23
	100	194	250	200	168	3	32	270	270	8-25
	125	213	295	240	202	3	36	320	320	8-30
	150	229	340	280	240	3	38	340	340	8-34
	200	243	405	345	300	3	44	390	390	12-34
	250	297	470	400	352	3	48	420	420	12-41
	300	338	530	460	412	4	54	510	510	16-41

◆ 产品概述 Product overview

SYPBQ双偏心半球阀是在消化吸收德国CANALI公司生产的对夹式大流量直通阀（Maxiflbu-stellventile）的基础上研制成功的。其结构采用偏心一契紧原理通过传动机构达到闸紧、调节、关闭的目的，密封副是金属面环带硬面接触密封，双偏心结构在开启时阀芯位于藏球室内，流通截面大，且阀门不被冲刷，关闭时阀芯不被冲刷，开启时阀芯球面沿阀座渐进，有效地切除结垢障碍，实现可靠密封。它对两相混流易结垢固体析出的混流输送特别有效。第二个特点阀门的半球用双金属，母材上堆焊不同的合金，阀座也作相应堆焊经特殊的处理，密封面组合成防腐、耐磨、高强度等各种类型，满足不同场合需求。第三特点密封严禁，输送有害气体可达零泄漏，第四个特点是密封副的阀芯留有补偿量，当阀座磨损（阀座硬度低于阀芯）后，关闭时再转动少许，仍能可靠密封，延长使用寿命，此外，用户将压紧螺母拧掉，调整或更换后阀座仍可使用，避免了现行众多阀门密封失效整台报废的弊端。

因此堆焊不同合金（或组合球）双金属密封副的选配可以用于耐磨、耐腐蚀、耐高温等且又要求严格密封的不同工业部分。产品的主要用途及特点：

1、通用阀：规格型号PN1.0-4.0MPa，DN40-1200。适用于污水处理、纸浆、城市采暖供热等要求严格的场合。

2、油化式工专用阀：规格DN40-1200，PN1.0-4.0MPa适用于原油、重油等各类油品、化工行业弱腐蚀、二相混流介质。耐温可达425℃。

3、燃气专用阀：规格DN40-1200，PN1.0-4.0MPa适用于煤气、天然气、液化气的输送控制。产品结构特点是密封副堆焊不同的含铬不锈钢，密封严紧、抗腐蚀。

4、料浆专用阀：规格DN40-1200，适用于液态、固态两相混流或液态输送中化学反应有结晶析出或结构的工业管道输送。产品结构特点根据客户需求介质、温度不同，密封副堆焊阀芯用铬钼钒合金堆焊，阀座采用铬钼合金、铬合金、不锈钢合金焊条堆焊满足不同料浆输送的需要。

5、煤粉灰渣专用阀：规格DN40-1200，适用于电厂、水力排渣或气态输送管道的控制，产品要求耐磨性能，阀芯采用组合球式双金属，具有相当高的刚度并 非常耐磨，阀座采用整体耐磨1号或全堆焊，且具有硬密封球阀的优点。

SYPBQ double eccentric half ball valve is developed based on absorbing Maxiflub-stellventile made by Germany CANALI Company. The structure is eccentric-tignt principle through transmission gear to achieve the purpose of tighten, adjust and close. Vice-seal is metal surface ring with hard surface contact sealing. The double eccentric structure will be located in ball storing room and make the flow cross-section large and the valve will not be washed. When closed the valve disk will not be washed and when open the valve disk ball surface will asymptote along valve seat to remove the scaling obstacles and achieve reliable seal. It is effective especially to the mixed flow transportation separated out of two mixed flowing easily scaling solids. The second feature is that the half ball of valve os double metal and different alloy overlaid on the bade metal; the valve seat is also overlaid by special treatment of retirement to make the sealing surface different types of anti-corrosion, wear-resistant, high-strength and so on to meet the needs of different occasions. The third feature is tight seal to achieve zero leakage at transmission of harmful gases. The forth features is that vice-seal left compensation amount. After the valve seat is wore (the rigidity of valve seat is lower than of the valve disk), when move a little after close, the seal will be still reliable to extend the useful life. Besides, the valve is still useful when the user screw off the pressed nut or adjust or change the valve seat to avoid the short-coming of existing valves seal invalidation result in the whole valve scraps.

So overlaid different alloy (or assembly ball) double metal vice-seal can be applied to different industrial sectors of wear-resistant, corrosion-resisitant,high temperature and so in as well as strictly seal requirements. The main purpose and features of product:

1.General valve: model specification PN1.0-4.0MPa, DN40-1200. It is applicable to stringent requirements of the occasion such as sewage treatment, aper pulp, urban heating supply and soon.

2.Oil-workers dedicated valve: model specification DN40-1200, PN1.0-4.0MPa. It is applicable to weak corrosion, two-phase flow in kinds of oil, chemical industry such as crude oil, heavy oil and so on. Temperature resistance up to 425℃.

3.Gas dedicated valve: model specifications DN40-1200, PN1.0-4.0MPa. It is applicable to transmission control of gas, natural gas, liquefied gas. Product structure characteristic is that overlay chromium stainless steel vice-seal to make the seal tight and corrosion-resistant.

4.Slurry dedicated valve: model specifications DN40-1200. It is applicable to industrial pipe transmission of liquid, solid two-phase flow or solid transmission with crystal precipitation or scaling in chemical reactions. According to the mix to customer needs, medium, the temperature requirements: use V-Cr-Mo alloy to overlay the valve disk and use Cr-Mo alloy, chrome, stainless steel alloy rod to overlay the valve seat to meet the needs of different slurry transportation.

5.Coal ash dedicated valve: model specifications DN40-1200. It is applicable to power station, water cleaner and gaseous transmission pipeline controlThe product requires wear-resustance. The valve uses composite ball double-meta with a very high steel degree and is very wear-resistant. The valveuses completely wear-resistant one and completely overlaying with hard dense ball valve merit.

◆ 产品特点 Product feature

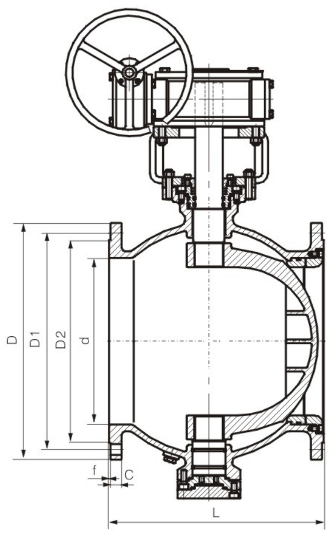
1、流通面积大，流阻小。这是因为开启后阀芯为于藏球室，流体直通。
2、操作扭矩小，转90度即可启闭完成，操作轻便。
3、密封严紧，双偏心金属硬密封。结垢不影响启闭，这是半球阀最显著的优点。
4、使用寿命长，密封副耐磨，且有补偿量，阀座可调整或更换。

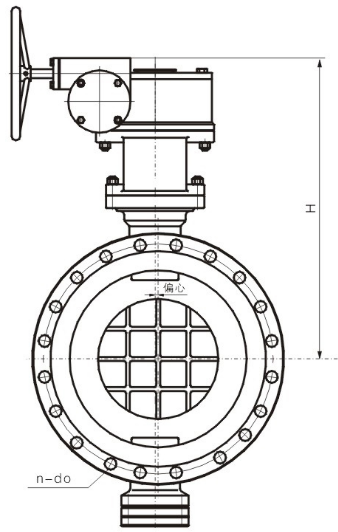
1.The circulation area is big so that the flow resistance is small. This is because the valve disk is located in the ball storing room after the valve open, and the fluid is straight through.

2.The operation torque is small. Need only a 90-degree turn to complete the open close. The operation is portable.

3.The seal is tight with two-eccentric metal sealed hard. Scaling does not affect the open and close, which is the most significant advantage of a half ball valve.

4.It has long useful life, wear-resrstant seal with compensation. The valve seat is adjustable and replaceable.





◆ 执行标准 Carried standard

1、设计与制造：GB/T12237-89；
2、法兰尺寸：GB/9113-2000 JB79.1
3、结构与长度：GB/T12221-89；
4、检查和试验：GB/T13927-92

1.Design and manufacture: GB/T12237-89
2.Flange dimensions: GB/9113-2000 JB79.1
3.Structure and length: GB/T12221-89
4.Check and test: GB/T13927-92.

◆ SYPBQ $\substack{3\\6\\9}$40型主要连接尺寸 Type Main Connection Dimension

公称通径 DN(mm) Nominal prssure	连接尺寸（mm）Connection size							
	L	D	D1	D2	b	f	H	n-do
	公称压力 PN(MPa) Nominal diameter							
40	165	130	100	78	16	2	210	4-14
50	178	140	110	88	16	2	230	4-14
65	190	160	130	108	16	2	245	4-14
80	203	190	150	124	18	2	265	4-18
100	229	210	170	144	18	2	310	4-18
125	254	240	20	174	18	2	350	8-18
150	267	265	225	199	20	2	395	8-18
200	292	320	280	254	22	2	435	8-18
250	330	375	335	309	24	2	480	12-18
300	502	440	395	363	24	2	550	12-22
350	572	490	445	413	24	2	620	12-22
400	610	540	495	463	24	2	670	16-22
450	660	595	550	518	24	2	700	16-22
500	711	645	600	568	26	2	760	20-22
600	787	755	705	667	30	2	850	20-26
700	900	860	810	775	32	3	920	24-26
800	1000	975	920	880	34	5	1100	24-30
900	1100	1075	1020	980	36	5	1300	24-30
1000	1200	1175	1120	1080	36	5	1600	28-30
1200	1300	1405	1340	1295	40	5	1950	32-33

◆ SYPBQ $\substack{3\\6\\9}$40型主要连接尺寸 Type Main Connection Dimension

公称通径 DN(mm) Nominal prssure	连接尺寸（mm）Connection size							
	L	D	D1	D2	b	f	H	n-do
	公称压力 PN(MPa) Nominal diameter							
40	165	150	110	84	18	2	210	4-18
50	178	165	125	99	20	2	230	4-18
65	190	185	145	118	20	2	245	4-18
80	203	200	160	132	20	2	265	8-18
100	229	220	180	156	22	2	310	8-18
125	254	250	210	184	22	2	350	8-18
150	267	285	240	211	24	2	395	8-22
200	292	340	295	266	24	2	435	8-22
250	330	395	350	319	26	2	480	12-22
300	502	445	400	370	26	2	550	12-22
350	572	505	460	429	26	2	620	16-22
400	610	565	515	480	26	2	670	16-26
450	660	615	565	530	28	2	700	20-26
500	711	670	620	582	28	2	760	20-26
600	787	780	725	682	34	2	850	20-30
700	900	895	840	784	34	5	920	24-30
800	1000	1015	950	901	36	5	1100	24-33
900	1100	1115	1050	976	38	5	1300	28-33
1000	1200	1230	1160	1080	38	5	1600	28-36
1200	1300	1455	1380	1292	44	5	1950	28-39

公称通径 DN(mm) Nominal prssure	连接尺寸（mm）Connection size							
	L	D	D1	D2	b	f	H	n-do
	公称压力 PN(MPa) Nominal diameter							
40	165	150	110	84	18	2	210	4-18
50	178	165	125	99	20	2	230	4-18
65	190	185	145	118	20	2	245	4-18
80	203	200	160	132	20	2	265	8-18
100	229	220	180	156	22	2	310	8-18
125	254	250	210	184	22	2	350	8-18
150	267	285	240	211	24	2	395	8-22
200	292	340	295	266	24	2	435	12-22
250	330	405	355	319	26	2	480	12-26
300	502	460	410	370	28	2	550	12-26
350	572	520	470	429	30	2	620	16-33
400	610	580	525	480	32	2	670	16-30
450	660	640	585	548	34	2	700	20-30
500	711	715	650	609	34	2	760	20-22
600	787	840	770	720	36	2	850	20-36
700	900	910	840	794	40	3	920	24-36
800	1000	1025	950	901	42	5	1100	24-39
900	1100	1125	1050	966	44	5	1300	28-39
1000	1200	1255	1170	1070	46	5	1600	28-42
1200	1300	1485	1390	1278	52	5	1950	32-48

◆ SYPBQ$\begin{smallmatrix}3\\6\\9\end{smallmatrix}$40型主要连接尺寸 Type Main Connection Dimension

公称通径 DN(mm) Nominal prssure	连接尺寸（mm）Connection size							
	L	D	D1	D2	b	f	H	n-do
	公称压力 PN(MPa) Nominal diameter							
40	165	150	110	84	18	2	210	4-18
50	178	165	125	99	20	2	230	4-18
65	190	185	145	118	22	2	245	4-18
80	203	200	160	132	24	2	265	8-18
100	229	235	190	156	24	2	310	8-22
125	254	270	220	184	26	2	350	8-26
150	267	300	250	211	28	2	395	8-26
200	292	360	310	274	30	2	435	12-26
250	330	425	370	330	32	2	480	12-30
300	502	485	430	389	34	2	550	16-30
350	572	555	490	448	38	2	620	16-33
400	610	620	550	503	40	2	670	16-36
450	660	670	600	548	46	2	700	20-36
500	711	730	660	609	48	2	760	20-36
600	787	845	770	720	48	2	850	20-39
700	900	960	875	820	50	5	920	24-42
800	1000	1085	990	928	54	5	1100	24-48
900	1100	1185	1090	988	58	5	1300	24-48
1000	1200	1320	1210	1094	62	5	1600	28-55
1200	1300	1530	1420	1306	70	5	1950	32-55

公称通径 DN(mm) Nominal prssure	连接尺寸（mm）Connection size								
	L	D	D1	D2	D6	f	f2	b	H	n-do
	公称压力 PN(MPa) Nominal diameter									
40	165	150	110	84	76	4	3	18	210	4-18
50	178	165	125	99	88	4	3	20	230	4-18
65	190	185	145	118	110	4	3	22	245	8-18
80	203	200	160	132	121	4	3	24	265	8-18
100	229	235	190	156	150	4.5	3.5	24	310	8-22
125	254	270	220	184	176	4.5	3.5	26	350	8-26
150	267	300	250	211	204	4.5	3.5	28	395	8-26
200	292	375	320	284	260	4.5	3.5	34	435	12-30
250	330	450	385	345	313	4.5	3.5	38	480	12-33
300	502	515	450	409	364	4.5	3.5	42	550	16-33
350	572	580	510	465	422	5	4	46	620	16-36
400	610	660	585	535	474	5	4	50	670	16-39
450	660	685	610	560	524	5	4	57	700	20-39
500	711	755	670	613	576	5	4	57	760	20-42
600	787	890	785	735	676	5	4	62	850	20-48
700	900	995	900	835	768	5	4	68	920	24-54
800	1000	1135	1030	960	876	5	4	76	1100	24-58

◆ 概述Outline

三通球阀是一种三通道的回转型球阀，O型三通球阀的阀芯有L型和T型，可以满足不同的生产工艺要求。三通球阀可以根据需要，任何一个管道都可以作为入口或出口。L型阀是对三条管道中的两条管道进行切除，T型阀实现把三条连通管道进行合流与分流。

电动O型球阀用于工业控制系统中，它由电子式电动执行机构和三通球阀组成，电动执行机构是三通球阀的驱动装置，当工作电源通电时，电动执行机构从0～900回转，使三通球阀由关（开）的位置到开（关）的位置，达到对管道内介质实现流通（切断）满足不同的工艺要求（详见图）。电动三通球阀有两种型式，阀芯有L型和T型，可实现两种不同的控制要求。（如图）

The Three Contacts ball valve is one kind of Three Contacts head rotation ball valve, the O Three Contacts ball valve valve core has L and T, may satisfy the different production technological requirement. The Three Contacts ball valve may according to the need, any pipeline all be allowed to take the entrance or the exportation. The L valve is carries on the excision to in three pipelines two pipelines, the T valve realization connects three the pipeline to carry on the confluence and diverges.

The electrically operated O ball valve uses in the industry control system, it is composed by the electrically operated implementing agency and the Three Contacts ball valve, the electrically operated implementing agency is the Three Contacts ball valve drive, when work power source circular telegram, the electrically operated implementing agency from 0 ~ 900 rotations, causes the Three Contacts ball valve from closes (opens) the position to opens (closes) the position, achieved the medium realization circulation (shuts off) to the pipeline in satisfies the different technological requirement (to for details see chart). The electrically operated Three Contacts ball valve has two kind of patterns, the valve core has L and T, may realize two kind of different controls requests. (Like chart)

气动三通球阀
Pneumatic three-way ball valve

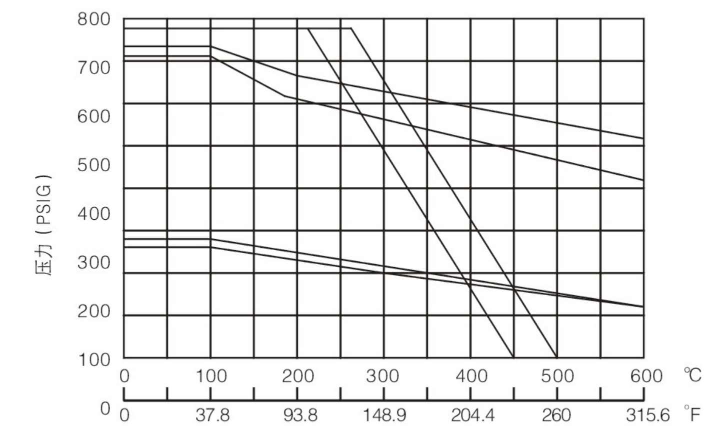
气动三通球阀
Pneumatic three-way ball valve

电动三通球阀
Electric Three-way ball valve

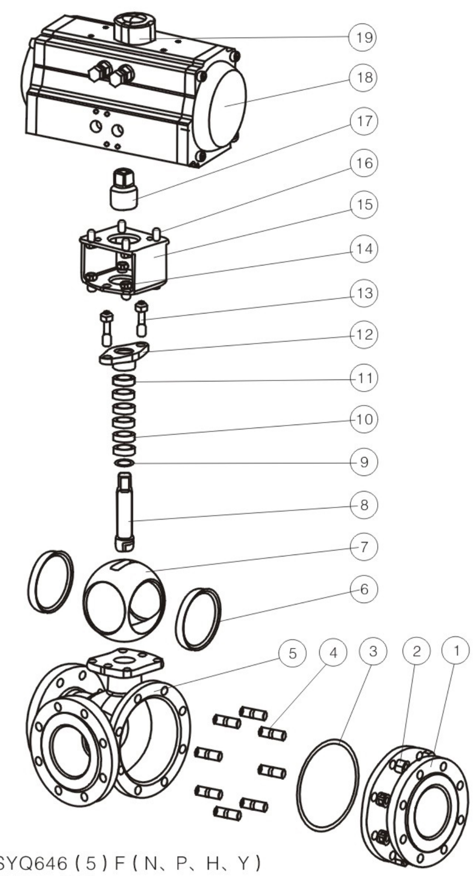
三通球阀一般采用两阀座结构，如流向图A所示两种工况，选用两阀座L型结构（即SYQ44型）。流向图B中①和④两种工况亦可选用两阀座T型结构(即QSY45型)。流向图B中②和③两种工况必须选用四阀座T型结构（即SYQ45型）。其余工况也可选用四阀座结构，但应在订货合同中注明阀座结构。

The Three Contacts ball valve generally uses two valve seats structures, if flow graph A shows two kind of operating modes, selects two valve seats L structure (namely SYQ44). In flow graph B (1) and (4) two kind of operating modes also may select two valve seats T structure (namely SYQ45). In flow graph B (2) and (3) two kind of operating modes must select four valve seats T structure (namely SYQ45). Other operating modes also may select four valve seats structures, but should indicate the valve seat structure in the ordering contract.

◆ 主要材料压力、温度曲线Main material pressure, temperature curve



SYQ644(5)F(N、P、H、Y)-PN16、25



型号：SYQ646（5）F（N、P、H、Y）
口径：DN15~300mm
压力：1.6、2.5、4.0、6.4MPa;150Lb、300Lb、600Lb;
结构：法兰式、内螺纹式
尺寸标准：国标、美标、日标
阀体材质：碳钢（WCB）、不锈钢（CF8、CF8M、CF3、CF3M）
阀座材料：聚四氟乙苯烯（F）、对位聚苯PPL（P）、硬质合金（H、Y）
作用方式：双作用、单作用（弹簧复位）
控制方式：换向、分流、合流
附件选择：电磁阀、定位器、限位开关
气源处理三联件、手动机构

◆ 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：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 ofball 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 Flesible 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 Connecing Yoke	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	AT系列、AW系列 AT Series、AW Series		
19	位置指示器 Location Indicator	塑料 Plastic		

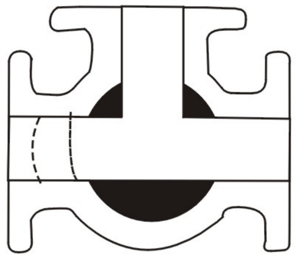
※注：系列球阀主要零部件及密封圈的材质可根据实际条件或用户特殊要求设计选用。
Note: main sparts and sealing-ning materials of ball valve series can be designed for options asper real working conditions and users'special requirements.

Model:SYQ644(5)F(N,P,H,Y)
Bore:DN15~300mm
Pressure:1.6,2.5,4.0,6.4MPa;150Lb,300Lb,600Lb;
Structure:Flanged,Inside thread
Dimension standard:CB, American Standard, Japanese Standard
Body material:Carbon steel (WCB),
Stainess stell(CF8,CF8M,CF3,CF3M)
Seat material:PTEE,PPL,H,Y
Mode of ation:the double-acting/single-acting type(spring reposition)of pneumatic actuator
Control:by-pass flow,flow,Exchange
Selection of Accessories:solenoid valve,Locator, Limit switch,F,R,L.Combination Unit,Manual Device.

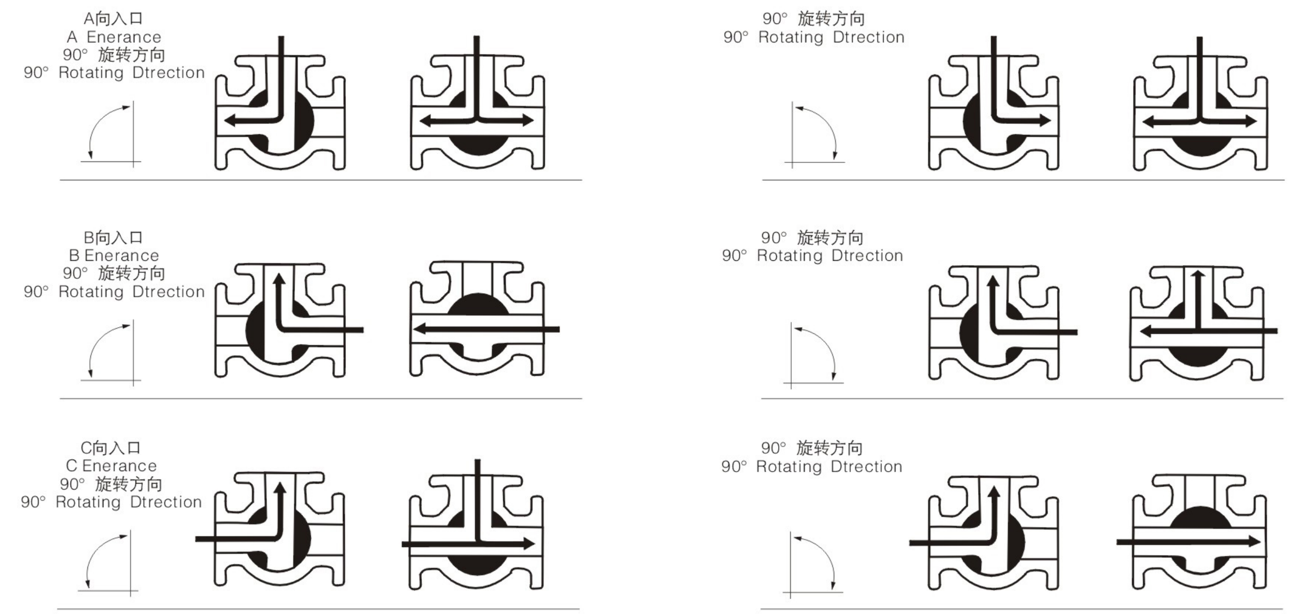
◆ 三通球阀介质流向示意图 Sketch of Medium Flow-direction of Three-way Ball Valve

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口球阀，任一通口可用作入口而无泄漏。三通既可制成L型通口也可制成T型通口。

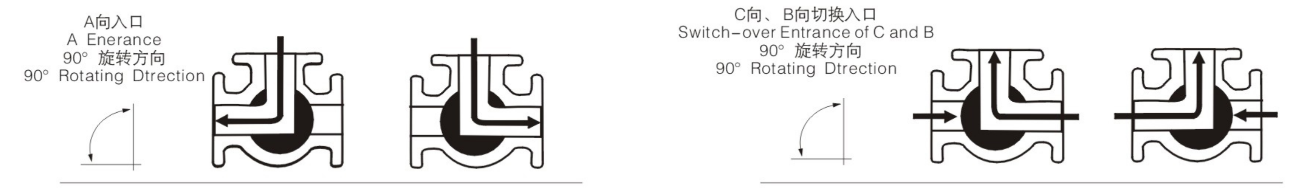
Three-way ball valve is used for diffluence or confluent circulation with two-sideor four-side valve base embodying multiple channels. All The channels can be usedas entrance, with no leakage.The three-way can be made to L-shaped channel or T-shaped channel.



◆ T型通口 T-shaped Passage

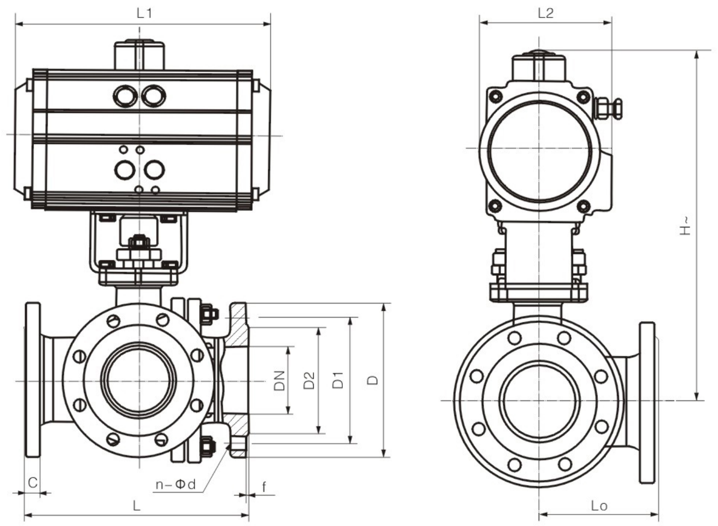


◆L型通口 L-shaped Passage



※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。
※注：数据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 strrctural length and connecting flange size of ball valve 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(sring 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.

气动T/L型三通法兰式球阀
Pneumatic T/L-type Three-way Flanged Ball Valve



◆ **主要外形及连接法兰尺寸 SYQ644(5)F(N、P、H、Y)-PN16(1.6MPa)**
Main Outline and Connecting Flange Size

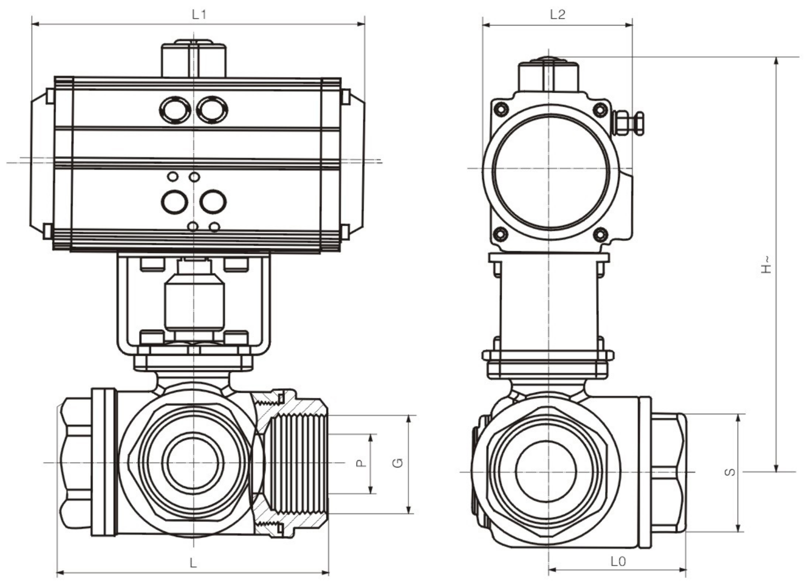
公称通径 Nominal diameter		外形尺寸 Outline Size					连接尺寸 Connecting Size						执行器型号 Actuator Model
mm	in	L	Lo	L1	L2	~H	D	D1	D2	C	F	N-Φd	
15	1/2	150	72	145/169	75/84	204/235	95	65	65	14	2	4-Φ14	AT052DR/AT063SC
20	3/4	160	80	169/201	84/98	240/252	105	75	75	16	2	4-Φ14	AT063DR/AT075SC
25	1	180	90	201/209	98/108	257/265	115	85	85	16	2	4-Φ14	AT075DR/AT083SC
32	1 1/4	200	100	201/242	98/120	277/312	140	100	100	18	3	4-Φ18	AT075DR/AT092SC
40	1 1/2	220	110	209/275	108/132	292/317	150	110	110	18	3	4-Φ18	AT083DR/AT105SC
50	2	240	120	242/332	120/148	325/347	165	125	125	20	3	4-Φ18	AT092DR/AT125SC
62	2 1/2	260	130	275/385	132/165	357/389	185	145	145	20	3	4-Φ18	AT105DR/AT140SC
80	3	280	140	332/385	148/165	368/400	200	160	160	20	3	8-Φ18	AT125DR/AT140SC
100	4	320	160	385/507	165/215	410/498	220	180	180	22	3	8-Φ18	AT140DR/AT190SC
125	5	380	190	450/562	188/235	470/538	250	210	210	22	3	8-Φ18	AT160DR/AT210SC
150	6	440	220	507/646	215/272	556/591	285	240	240	24	3	8-Φ22	AT190DR/AT240SC
200	8	550	260	562/722	235/305	648/687	340	295	295	24	3	12-Φ22	AT210DR/AT270SC

◆ **主要外形及连接法兰尺寸 SYQ644(5)F(N、P、H、Y)-PN25(2.5MPa)**
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
mm	in	L	Lo	L1	L2	~H	D	D1	D2	C	F	N-Φd	
15	1/2	150	72	169/201	84/98	235/274	95	65	46	14	2	4-Φ14	AT063DR/AT075SC
20	3/4	160	80	201/209	98/108	252/260	105	75	56	16	2	4-Φ14	AT075DR/AT083SC
25	1	180	90	209/242	108/120	265/289	115	85	65	16	2	4-Φ14	AT083DR/AT092SC
32	1 1/4	200	100	209/275	108/132	287/312	140	100	76	18	3	4-Φ18	AT083DR/AT105SC
40	1 1/2	220	110	242/332	120/148	317/339	150	110	84	18	3	4-Φ18	AT092DR/AT125SC
50	2	240	120	275/332	132/148	325/347	165	125	99	20	3	4-Φ18	AT105DR/AT125SC
65	2 1/2	260	130	275/385	132/165	357/389	185	145	118	22	3	4-Φ18	AT105DR/AT140SC
80	3	280	140	332/450	148/188	400/425	200	160	132	24	3	8-Φ18	AT125DR/AT160SC
100	4	320	160	385/507	165/215	443/531	235	190	156	24	3	8-Φ22	AT140DR/AT190SC
125	5	380	190	450/562	188/235	548/538	270	220	184	26	3	8-Φ26	AT160DR/AT210SC
150	6	440	220	507/646	215/572	628/665	300	250	211	28	3	8-Φ26	AT190DR/AT240SC
200	8	550	260	562/722	235/305	695/744	360	310	274	30	3	12-Φ26	AT210DR/AT270SC

气动三通内螺纹球阀
Pneumatic Three-way Ball Valve With internal Thread

上海东宝阀门制造有限公司DBV

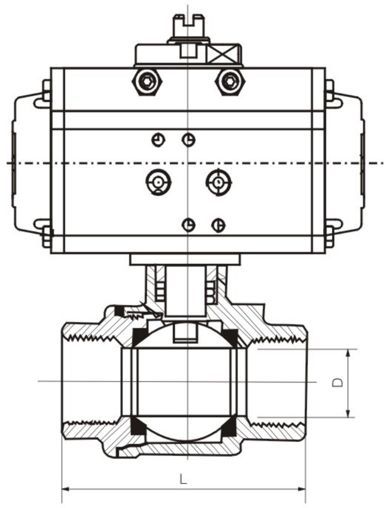


◆ **主要外形及连接尺寸 SYQ614(5)F(N、P)-PN16 64(1.6 6.4MPa)**
Main Outline and Connecting Flange Size

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	145/169	75/84	177/208	26	AT052DR/AT063SC
20	3/4	15	3/4"	78	39	145/169	75/84	180/211	32	AT052DR/AT063SC
25	1	20	1"	86	43	169/201	84/98	199/227	38	AT063DR/AT075SC
32	1 1/4	25	1 1/4"	111	55.5	201/209	98/108	231/251	49	AT075DR/AT083SC
40	1 1/2	32	1 1/2"	126	63	209/242	108/120	235/265	56	AT083DR/AT092SC
50	2	38	2"	143	71.5	242/275	120/132	263/298	70	AT092DR/AT105SC

※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。
※注：数据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。
Note:The strrctural length and connecting flange size of ball valve series can be designed and manufactured as per users' requirements
Note:Data xxx/xxx represent respectively the double-acting/single-acting type(sring reposition) of pneumatic actuator.
Note:The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model.

二片式球阀
Two Piece Of Types Ball Valves



◆ 产品特征Product characteristic

公称压力：1.6~6.4MPa
适用温度范围：-20～185℃
适用介质：水、油、气及某些腐蚀性流体(W.O.G)。
螺纹类型：G・NPT.BSPT.BSP.DIN259/2999

Nominal pressure: 1.6~6.4MPa
Is suitable the temperature range: -20～185 ℃
Is suitable the medium: Water, oil, gas and certain corrosive fluid (W.O.G).
Thread type: G .NPT.BSPT.BSP.DIN259/2999

◆ 主要连接尺寸及重量Main connection size and weight

单位Unit:mm

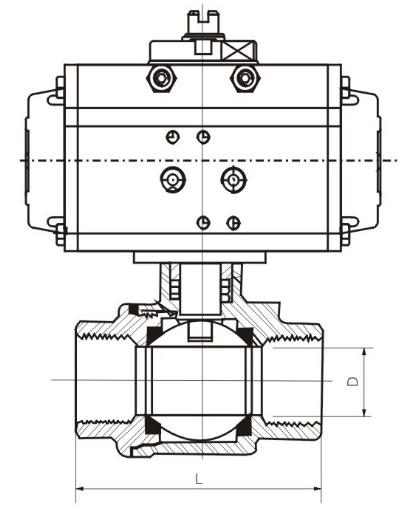
规格Specification	1/4"	3/8"	1/2"	3/4"	1"	11/4"	11/2"	2"	21/2"	3"	4"
D	11.6	12.7	15	20	25	32	38	50	65	80	100
L	55	55	65	75	88	102	110	125	162	189	260

◆ 主要零件材料Major parts material

序号 Serial number	零件名称 Components name	材质Material quality	
		不锈钢Stainless steel	碳钢Carbon steel
1	阀体Valve body	不锈钢Stainless steel CF8M	碳钢Carbon steel WCB
2	球体Spheroid	不锈钢Stainless steel SS316	不锈钢Stainless steel SS316
3	密封圈Seal packing collar	聚四氟乙烯Teflon PTFE	聚四氟乙烯Teflon PTFE
4	密封垫Gasket	聚四氟乙烯Teflon PTFE	聚四氟乙烯Teflon PTFE
5	阀盖Valve cover	不锈钢Stainless steel CF8	碳钢Carbon steel WCB
6	阀杆Valve lever	不锈钢Stainless steel SS316	不锈钢Stainless steel SS304
7	止推垫圈Stops pushes the gasket	聚四氟乙烯Teflon PTFE	聚四氟乙烯Teflon PTFE
8	填料Padding	聚四氟乙烯Teflon PTFE	聚四氟乙烯Teflon PTFE
9	填料压盖螺母Padding gland nut	不锈钢Stainless steel SS304	不锈钢Stainless steel SS304
10	手柄Handle	不锈钢Stainless steel SS304	不锈钢Stainless steel SS304
11	垫圈Gasket	不锈钢Stainless steel SS304	不锈钢Stainless steel SS304
12	阀杆螺母Valve stem nut	不锈钢Stainless steel SS304	不锈钢Stainless steel SS304
13	手柄套Handle wrap	塑料Plastic	塑料Plastic

注：二片式球阀连接形式另有对焊(BW)承插焊(SW)，并均可带国际标准ISO支架和锁定装置。
Note: Two piece of types ball valves connection form has the butt welding (BW) to receive in addition inserts welds (SW), and may bring the international standard ISO support and the fixing device.

三片式球阀
Three Piece Of Types Ball Valves



◆ 产品特征Product characteristic

公称压力：1.6~6.4MPa
适用温度范围：-20～185℃
适用介质：水、油、气及某些腐蚀性流体(W.O.G)。
螺纹类型：G・NPT.BSPT.BSP.DIN259/2999

Nominal pressure: 1.6~6.4MPa
Is suitable the temperature range: -20～185 ℃
Is suitable the medium: Water, oil, gas and certain corrosive fluid (W.O.G).
Thread type: G ・NPT.BSPT.BSP.DIN259/2999

◆ 主要连接尺寸及重量Main connection size and weight

单位Unit:mm

规格Specification	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/4"	3"	4"
D	11.6	12.7	15	20	25	32	38	50	65	80	100
L	68	68	72	82	90	112	120	145	185	210	268
H	100	100	130	130	165	165	190	190	250	250	280
E	100	100	130	130	165	165	190	190	250	250	280

◆ 主要零件材料Major parts material

序号 Serial number	零件名称 Components name	材质Material quality	
		不锈钢Stainless steel	碳钢Carbon steel
1	阀体Valve body	不锈钢Stainless steel CF8M	碳钢Carbon steel WCB
2	密封圈Seal packing collar	聚四氟乙烯Teflon PTFE	聚四氟乙烯Teflon PTFE
3	阀盖Valve cover	不锈钢Stainless steel CF8M	碳钢Carbon steel WCB
4	球体Spheroid	不锈钢Stainless steel SS316	不锈钢Stainless steel SS304
5	阀杆Valve lever	不锈钢Stainless steel SS316	不锈钢Stainless steel SS316
6	螺母Nut	不锈钢Stainless steel SS304	FCD45
7	垫圈Gasket	不锈钢Stainless steel SS304	FCD45
8	手柄套Handle wrap	塑料Plastic	塑料Plastic
9	手柄Handle	不锈钢Stainless steel SS304	不锈钢Stainless steel SS304
10	阀杆螺母Valve stem nut	不锈钢Stainless steel SS304	B7
11	垫圈Gasket	不锈钢Stainless steel SS304	不锈钢Stainless steel SS304
12	填料压盖螺母Padding gland nut	不锈钢Stainless steel SS304	FCD45
13	填料Padding	聚四氟乙烯Teflon PTFE	聚四氟乙烯Teflon PTFE
14	止推垫圈Stops pushes the gasket	聚四氟乙烯Teflon PTFE	聚四氟乙烯Teflon PTFE
15	填料Padding	聚四氟乙烯Teflon PTFE	聚四氟乙烯Teflon PTFE
16	螺栓Bolt	不锈钢Stainless steel SS304	B8

注：三片式系列球阀均可带国际标准ISO支架和锁定装置。
Note: Three piece of types series ball valve may bring the international standard ISO support and the fixing device.

特种阀门系列
Special Valve Series

DBV上海东宝阀门制造有限公司

◆ 闸阀概述Gate valve outline

SYZS41/0/H/Y系列气动带手动楔式闸阀是我厂定型的最新产品。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、海运等部门作为输送气体、液体介质的管道开闭装置而广泛使用。

本产品是具有气动执行机构(双层气缸，并带有缓冲机构)和手动及其保护机构(手动和可自锁的气动手动转换装置)的低支架明杆闸阀。该阀由于采用双层气缸结构，其与单气缸式气动闸阀相比，提升力增大了一倍。这就从根本上解决了单气缸气动闸阀的某些阀板在阀体内楔死而打不开的弊病。而且，由于该阀具备缓冲机构，能有效地减轻了关闭阀门时。由于活塞下行冲击而造成的阀板密封面和阀体密封面的磨损，同时，也能避免闸板卡死的现象。为了配合用户实现操作自动化，我厂除供应本系列产品之外，还可单独提供包括支架在内的气缸体，帮助用户对已有的种类繁多的手动闸阀进行改造。将我公司生产的气缸体安装在手动闸阀的阀体大盖上，即可构成双缸式气动手动两用闸阀。

SYZS41/0/H/Yseries pneumatic-manual wedge type gate valve if our company's new shaped product. For the advance technology, reliable fun-ction, convenient operation switch maintenance, it is widely used as pipeline on-off equipmentfor transmit gas, liquid medium in the section of petroleum industry, chemical industry, metallurgy industry, electric power, sea transportation, etc.

This is a kind of low support and bare rod gate valve with pneumatic actuator(double-cylinder with extrusion actuator) and manual protection ac-tuator(self-lock and pneumatic manual switch equipment). For the double-cylinder structure, its lifting ability is one time larger than the singlecylinder type pneumatic gate valve. This can basically resolve the defect of some board of single pneumatic gate valve the hard wedged in the valve body and can't open. For the extrusion actuator, it effectively reduced the friction that caused by the thrust between the sealing face of valve board and valve body when the piston moving downwards. And without the phenomenon of locking.

In order to help the users to carry out operation automatization, besides the series of products, we can also supply cylinders including support to help the user to rebuild the various manual gate valve in hand. The gate valve will be a two cylinder pneumatic& manual type that equip with the cylinder on the body cap

◆ 工作原理及特点 Work principle and feature

本系列产品以0.4～0.6MPa(表压)净化压缩空气作为工作动力，推动活塞，带动闸板作垂直于流体的位移，实现开启关闭阀门的目的。

双层气缸和缓冲机构的工作原理，按闸阀工作的四个阶段分述如下：(附插原理图①、②、③、④)

1、闸阀开启前阶段：上层气缸的活塞(以下简称上活塞)和下层气缸的活塞(以下简称下活塞)同时受力，阀杆在上、下活塞的推动下，以单活塞近二倍的提升力，克服闸板密封面和阀体密封面之间的最大静摩擦力，带动闸板上升。压缩空气由上气缸的下气室，经由设置在隔板的特定通道，通过连通管，到达下气缸的下气室，推动上下活塞同时工作。下气缸上气室中的气体，经过设置在隔板内的另一特定通道。畅通无阻地排出气缸体外。

2、闸阀开启的后阶段：在闸板稍稍开启以后|下活塞就运行到了上死点，闸板在上活塞的带动下，继续提升，直至到了全开位置。

3、闸阀关闭的前阶段：在上活塞的推动下，闸板离开全开位置，开始下降。

4、闸阀关闭的后阶段：当上活塞碰到下活塞凸台，并带动下活塞一起继续下降时，由于下气缸上气室的进气通道和下气缸下气室的排气通道设有阻碍，明显地减慢了下行的速度，进至闸板下降到了全关位置。减缓闸板下行的冲击，自行可关严阀门，又不使阀板楔得过紧，同时，还保护了密封面，免受猛烈冲击而损坏。

This series of product takes 0.4~0.6MPa(face pressure) pure compressed air as operation motor to push the piston, then bring the gate board move vertical to the liquid and carry out the purpose of open and close the valve.

The operation principle of double-floor cylinder and extrusion actuator according to the four phases of gate valve's work is divided as follows:

1、the fore-phase when opening the gate valve: the piston of top floor cylinder(short for top piston) and the piston of lower-floor(short for downpiston) under stress at the same time and push the stem, take two times lifting strength more than single cylinder to overcome the max static friction between the board sealing face and body face, bring the gate board lifting then. From the top cylinder's down air-room the compressed air go through the assigned alleyway which set on the clapboard and go across the connecting piper, then reach t o down cylinder's down air-room and thrust top and down piston work at the same time. the air in the top air-room of down cylinder go through the other special alleyway that set in the clapboard and expelled from the cylinder flowingly.

2、the after-phase when opening the gate valve: open the gate board and the down piston will move to the up die point, by the drive of the top piston, it lifting continuously and finally to the wide open position.

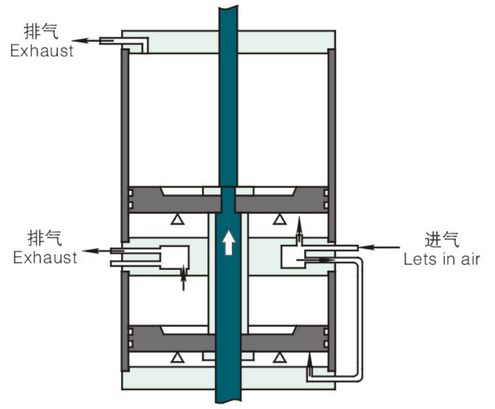
3、the fore-phase when close the gate valve: under the drive of top piston, the board away from the wide open position and start to decline.

4、the after-phase when close the gate valve: when the top piston touch the male tap of down piston and drive the down piston declining continuously together, the top piston reduced the speed obviously, because of the obstruction at the inlet air alleyway of top air-room and the discharge alleyway of the down air-room in the down cylinder, then the gate board to the wide close position. Ease the thrust when the gate board down moving, the valve self-closed. In this case, the board won't wedged too tight, protect the sealing face and without damage from fierce thrust.

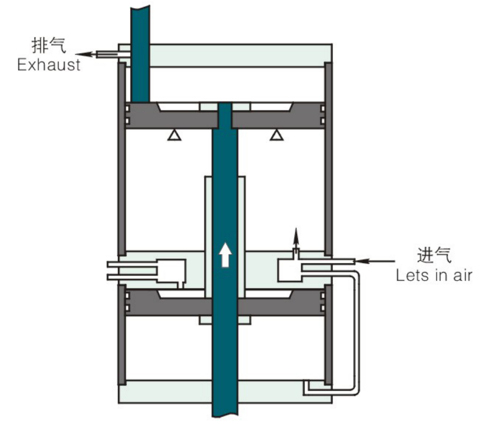
◆ 阀体性能Valve body performance

型号 Model	公称压力 PN(MPa)	阀体试验压力PN(MPa) Valve body test pressure		工作温度(℃)Operating temperature							
				120	200	225	250	300	350	400	425
		强度试验 Structural testing	密封试验 Pressure testing	工作压力(MPa)Working pressure							
Z6S41T—10	1.0	1.5	1.0	1.0	0.9	0.85	–	–	–	–	–
Z6S41H—16	1.6	2.4	1.6	–	1.6	–	1.5	1.3	1.2	1.0	0.9
Z6S41H—25	2.5	3.8	2.5	–	2.5	–	2.3	2.0	1.8	1.6	1.4
Z6S41H—40	4.0	6.0	4.0	–	4.0	–	3.6	3.2	2.8	2.6	2.2
Z6S41H—64	6.4	9.6	6.4		6.4	–	5.7	5.2	4.6	3.8	3.6

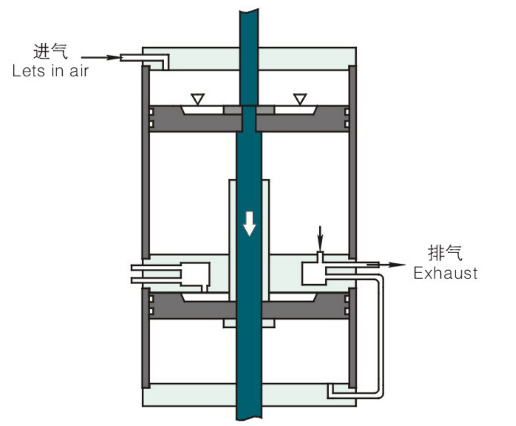
◆ 工作原理示意图Principle of work schematic drawing



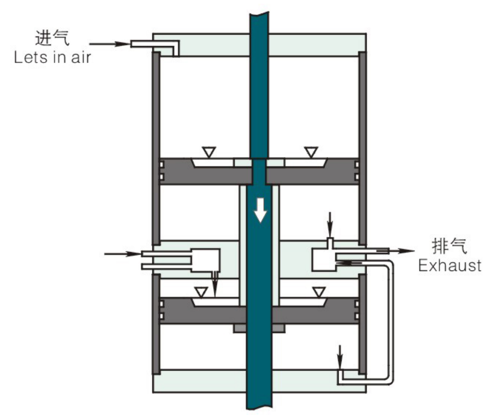
工作状况(1)--开阀初始阶段工作力＝2P
The working condition (1) -- opens valve preliminary stage ＝ 2P



工作状况(2)--开阀终了阶段工作力＝P
The working condition (2) -- opened valve end stage = P



工作状况(3)--关阀初始阶段工作力＝P
The working condition (3) -- closes valve preliminary stage = P



工作状况(2)--关阀终了阶段工作力＝P
Working condition (2) -- Guan Fazhong stage = P

灵活可靠的气动－－手动转换机构，装在气缸盖上部的气动－－手动转换机构，在闸阀开启和关闭过程的任何位置上，都可十分方便地转动操作手柄，直接地进行由气动至手动或由手动至气动的操作方式的转换，转换操作手柄采用定位销式自锁设计、手柄定位后，可靠定。当电磁阀及其控制电路或供风系统发生故障时，不需其他辅助工具，即可迅速转换成手动操作状态，保证线路正常运行，避免事故发生。同时在新建工程的自控系统未完成之前，本系列闸阀可以可靠地作为手动闸阀使用，动作时 灵活轻快。

关阀时间可以整，安装在隔板上的缓冲机构，还可以在一定范围内调整闸阀关闭的时间。

可配用回讯器

本阀可以配用电的或气的回讯器，用以发送阀门开关状态信息。因此，使用本阀可以实现远距离控制，集中控制和自动控制。

本阀的气缸选用无缝钢管制造，内表面镀以耐腐性硬铬，并经抛光处理，具有摩擦力小、不易锈蚀、高硬度、寿命长等优点。

气缸中的密封圈采用丁晴橡胶。形密封圈，密封性能可靠。维修时更换方便。

Flexible and reliable pneumatic manual switch actuator that equipped on the top of cylinder cap, at any position in the process of open and close can rotate the operating handle conveniently and directly switch from pneumatic to manual or from manual to pneumatic operating way. the handle uses knock lock way self-lock design for lock the handle, reliable and steady. When the solenoid valve and its control current or wind supply system fails, it can immediately switch to the manual operation status without any assisting tool, this ensure the normal course of circuit and avoid the accident. Mean-while, before the automatic system unfinished this series gate valve can reliably to be used as manual gate valve with flexible movement.

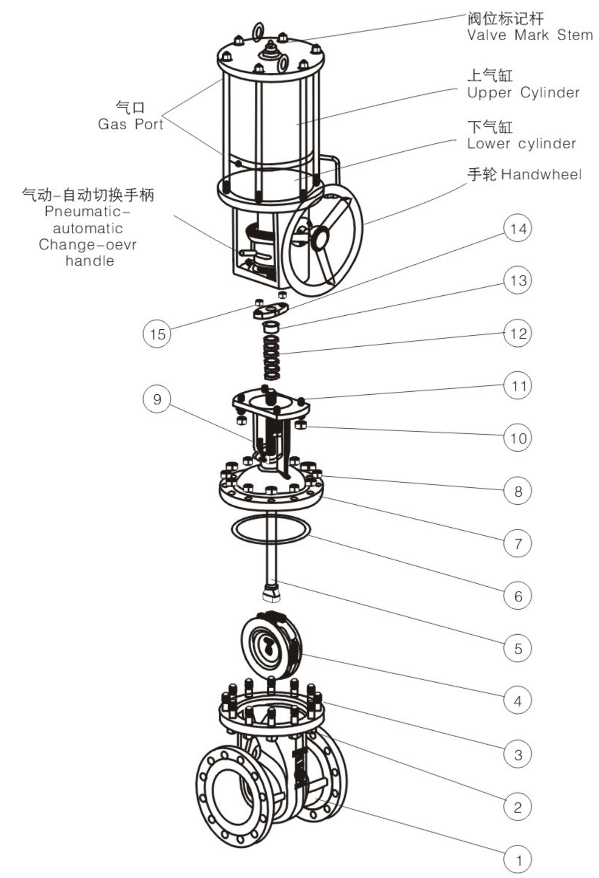
The valve closing time is adjustable, and with the extrusion on the clapboard, it can regulate the closing time in certain range.Can be equipped with acceptor

This kind of valve can be equipped with electric or pneumatic acceptor for sending the message of on-off situation of valve. Therefore, carry out the long-distance control, central control, and auto-control with the valve.

The cylinder of this valve made from seamless steel pipe, the inner face is polished and finished with anti-corrosion hard chrome-plating. It has the advantages of low-friction, anti-corrosion,, high hard, long service life, etc.

The seal ring in the cylinder uses NBR for reliable sealing function and convenient replace.

SYZ641（0）H（Y）



◆ 技术规范 Technique norm

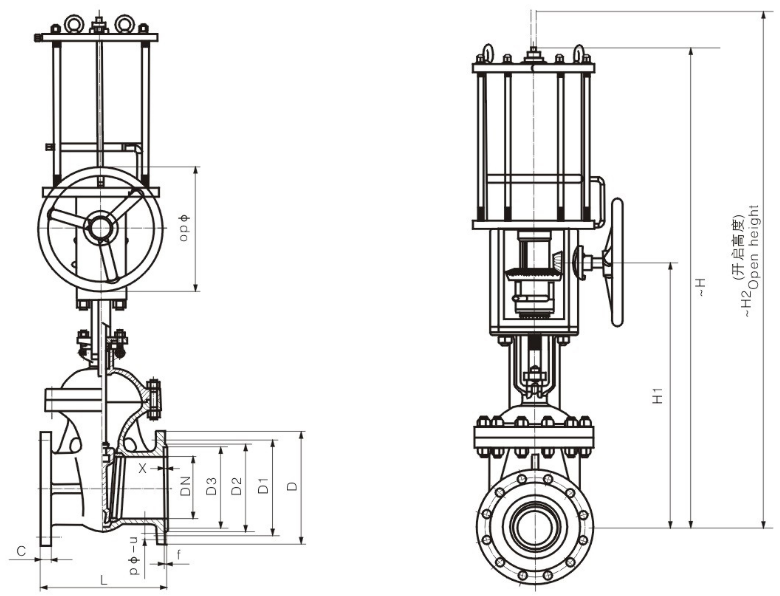
设计依据 Design Basis		GB 标准 Standard	ANSI标准Standard
设计标准 Design standard		GB/12234	ANSI B16.34
结构长度 Face to face dimension	对夹连接 Flange Connecting	GB/12221	ANSI B16.10
连接法兰尺寸 Connecting Flange Size		GB/9113、JB/T79	ANSI B16.5(2~24") ANSI B16.47(28~30")
试验和检验 Test & inspection		JB/T9092	API 598

※注：系列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 Bonnet	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
8	螺帽 Screw cap	35	304	304
9	吊环螺栓 Liftingring 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Graphite、PTFE		
13	填料压套 Packing screw	WCB	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
14	填料压板 Packing gland	WCB	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
15	螺帽 Screw cap	35	304	304

※注：系列闸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选用。
Note:The main sparts and sealing-ning materials of gate valve series can be for options asper real working conditions and users'special requirements.



◆ 主要外形及连接法兰尺寸 SYZ641（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	Φd0	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	2150	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 relative sizes are subject to change responding to the difference in valve torque, medium and actuator model

◆ 主要外形及连接法兰尺寸 SYZ641(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	H1	~H2	Φd0	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	24	3	8–Φ18
100	300	1050	560	1150	250	235	190	156	24	3	8–Φ22
150	350	1240	660	1390	320	300	250	211	28	3	8–Φ26
200	400	1520	810	1720	400	360	310	274	30	3	12–Φ26
250	450	1700	930	1950	400	425	370	330	32	3	12–Φ30
300	500	1930	1090	2230	450	485	430	389	34	4	16–Φ30
350	550	2160	1230	2510	450	555	490	448	38	4	16–Φ33
400	600	1330	1360	2730	500	620	550	503	40	4	16–Φ36
450	650	2540	1510	2990	500	670	600	548	42	4	20–Φ36
500	700	2750	1660	2150	550	730	660	609	44	4	20–Φ36
600	800	3080	1910	3680	550	845	770	720	46	5	20–Φ39
700	900	3570	2200	4270	600	960	875	820	50	5	24–Φ42
800	1000					1085	990	928	54	5	24–Φ48

◆ 主要外形及连接法兰尺寸 SYZ641(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	H1	~H2	Φd0	D	D1	D2	C	D3×X	f	n–Φd
50	250	790	420	840	180	165	125	99	20	88×4	3	4–Φ18
80	310	910	460	990	200	200	160	132	24	121×4	3	8–Φ18
100	350	1050	560	1150	250	235	190	156	24	150×4.5	3	8–Φ22
150	450	1240	660	1390	320	300	250	211	28	204×4.5	3	8–Φ26
200	550	1520	810	1720	400	375	320	284	34	260×4.5	3	12–Φ30
250	650	1700	930	1950	400	450	385	315	38	313×4.5	3	12–Φ33
300	750	1930	1090	2230	450	515	450	409	42	364×4.5	4	16–Φ33
350	850	2160	1230	2510	450	580	510	465	46	422×5	4	16–Φ36
400	950	1330	1360	2730	500	660	585	535	50	474×5	4	16–Φ39
450	1050	2540	1510	2990	500	685	610	560	50	524×5	4	20–Φ39
500	1150	2750	1660	2150	550	755	670	615	52	576×5	4	20–Φ42
600	1350	3080	1910	3680	550	890	795	735	60	676×5	5	20–Φ48

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

产品结构特点 Products design features

阀体有铸造和焊接两种结构。

Cast and weld two structures with the body

阀座采用O形密封圈密封和施加预紧力的浮动阀座结构，使阀门进出口双向密封；并且该结构的启闭力矩仅为普通阀门的1/2，能达到轻松开、关阀门。

The seat ring uses the floating seat ring structure with o-seal ring sealed and pre-tightening force applied to have inlet and outlet dual-way sealed; and the open-close moment with this structure is 1/2 that of the common valves only, able to lightly open and close valves.

阀座采用密封面上镶嵌PTFE，具有PTFE对金属和金属对金属的双重密封，PTFE密封面同时清除闸板脏物的作用。

The seat ring uses the sealing face inlaid with PTFE, so has dual seals of PTFE to metal and metal to metal, the PTFE sealing face also acts as removing the dirt on the wedge disc.

金属对金属密封的阀门，阀体外部设有注油脂结构，油脂通过注脂器、阀座进入阀门密封面，使阀门达到零泄漏。

For the valve with the metal to metal seal, there is grease injector outside of it, grease gets into the sealing face through the injector and the seat ring to have the valve up to null leak.

带导流孔阀门的闸板，无论是全开或是全关始终与密封面吻合，密封面得到保护不受介质直接冲刷，从而延长使用寿命。

The wedge disc of the valve with flow guide hole is always fitted with the sealing face whether in full open or full close status to have the sealing face protected without being directly eroded by the medium so as to extend the duration.

阀门在全开时，通道平滑为直线，流阻系数极小，无压力损失，可通毛球清扫管线。

When fully opened, the valve's channel is smooth and linear, with an extremely small flow resisting coefficient and no pressure loss, and the pipeline can be cleaned with hair-ball through it.

本阀门采用带自密封能力的填料结构，无需经常调节，开、关极为轻便，且密封性可靠，填料函处设有辅助密封油脂注入结构，密封性能绝对可靠，真正达到零泄漏；解决了通用阀门填料处最容易外漏的弊病。

This valve uses the packing structure with the ability of self-seal, needs no constant adjustment, features very light open and close and a reliable seal. An assisting sealing grease injection structure is set in the packing to have the sealing performance absolutely reliable and get a true null leak, settling the problem for the packing place of universal valves to be easiest leak outward.

阀门关闭时能自动卸掉内腔高压(详见工作原理图)，保证使用安全。

Automatic removal of the high pressure in the internal cavity when the valve is about to close (see the working principle diagram for the details) so as to ensure safety.

全封闭结构，防护性能好，可适应全天候要求。

Fully sealed structure leaves a good protective property, suitable for the requirement of 24-hour duty.

阀门设有指示杆或观察窗以表示阀门的启闭情况。

An indication rod or viewing window is set with the valve to show the open-close condition.

产品主要参数 Main parameter of the products

基本型号 Serial models	SY(K)Z43WF、SY(K)Z43WY、SY(K)Z43WD、SY(K)Z44WF、SY(K)Z44WY、SYY(K)Z44WD SY(K)Z543WF、SY(K)Z543WY、SY(K)Z543WD、SY(K)Z544WF、SY(K)Z544WY、SY(K)Z544WD SY(K)Z643WF、SY(K)Z643WY、SY(K)Z643WD、SY(K)Z644WF、SY(K)Z644WY、SY(K)Z644WD SY(K)Z943WF、SY(K)Z943WY、SY(K)Z943WD、SY(K)Z944WF、SY(K)Z944WY、SY(K)Z944WD			
压力等级范围 Pressure grade range	PN1.6～15.0MPa			Class150～900
通径范围 Drift diameter range	DN25～1000mm			1"～40"
驱动方式 Driving manner	手轮驱动 Hand wheel driving			齿轮动、气动、液动、电动 Gear driving, air-operating, hydrodynamic driving and electric driving
适用范围 Scope of application	Class150～300 (PN1.6～4.0)	Class400 (PN6.4)	Class600～900 (PN10.0～15.0)	Class150～900
	1"～40" (DN25～1000mm)	1"～28" (DN25～700mm)	1"～12" (DN25～300mm)	1"～40" (DN25～1000mm)

注：本公司可根据用户要求提供产品。
Notes: Our company can provide products at customres'request.

执行标准 Administer Standard

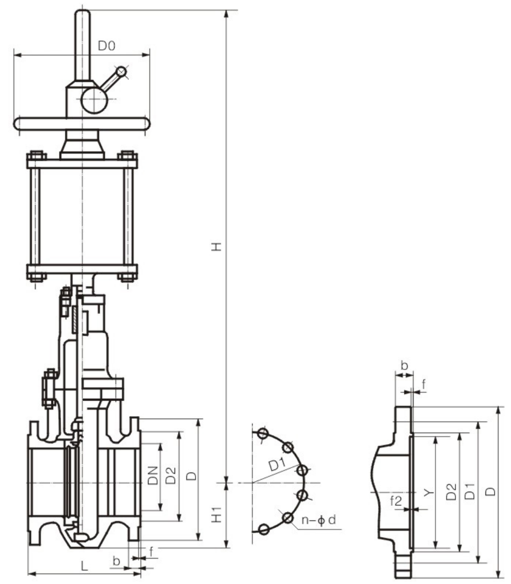
设计规范 Design Spec	结构长度 Face to Face	连接法兰 Flange End	试验与检验 Test & Check	压力-温度 Pressure-Temp.	产品标识 Marking
JB/T 5298	JB/T 5298	JB/T 79	JB/T 5298	GB 9131	GB/T 12220
API 6D	API 6D	ANSI B16.5	API 6D	ANSI B16.34	MSS SP-25

压力试验 Pressure Test

压力等级 Pressure Class		常温下试验压力（MPa） Normal Temperature Test Pressure				适用温度℃ Suitbale Temperature℃			适用介质 Suitbale medium	
		壳体 Shell	左密封 Left Seal	右密封 Right Seal	低压密封 Pressure Seal	"G" 型	"D" 型	普通型 Ordinary	"抗硫" 型	"基本" 型
公称压力 Nominal Pressure PN(MPa)	1.6	2.4	1.76	1.76	0.6	-29~250	-46~121	-29~121	H2S和Co2总含量大于500mg/m3的介质	石油、天然气、水等 Water Natural gas Oil
	2.5	3.75	2.75	2.75	0.6					
	4.0	6.0	4.4	4.4	0.6					
	6.4	9.6	7.04	7.04	0.6					
磅级Lb Pound Class	150	3.0	2.2	2.2	0.6					
	300	7.7	5.6	5.6	0.6					

主要零件材料及性能 Main Part Materials and Property

阀门/阀盖 Body/Bonnet	WCB	WC6	A352-LCB	A351-CF8M
闸板 Wedge	2Cr13+ENP	20CrMoV+STL	ANSI 410+ENP	ANSI 316+ENP
阀杆 Stem	2Cr13	2Cr13	A182-F6a	A182-F316S
阀座 Seat	25+PTFE	20CrMoV+STL	A105+PTFE	A182-F316+PTFE
填料 Packing	NBR/FPM	柔性石墨/Flexible Graphite		聚四氟乙烯/PTFE+FPM
垫片 Gasket	18-8/柔性石墨/18-8/Flexible Graphite			
螺栓 Bolt	35	35CrMo	A193-B7M	A193-B8
适用介质 Suitable Medium	水、油品、蒸汽 Water,Oil,Steam	蒸汽、油品 Steam, Oil	丙烷、乙烯 Propane、Ethylene	硝酸类 Nitric Acid



◆ 主要外形和连接尺寸凸面法兰R F SY(K)Z643WF-16C (1.6MPa)Main External and Connection Dimension

公称通径(DN) Nominal diameter	连接尺寸 Connecting size								
	L	D	D1	D2	D0	f	b	H	H1	N−Φd
50	178	160	125	100	250	3	16	584	80	4−Φ18
65	191	180	145	120	250	3	18	634	95	4−Φ18
80	203	195	160	135	250	3	20	688	100	8−Φ18
100	229	215	180	155	300	3	20	863	114	8−Φ18
125	254	245	210	185	350	3	22	940	132	8−Φ18
150	267	280	240	210	350	3	24	1030	150	8−Φ23
200	292	335	295	265	350	3	26	1277	168	12−Φ23
250	330	405	355	320	400	3	30	1491	203	12−Φ25
300	356	460	410	375	450	4	30	1701	237	12−Φ25
350	381	520	470	435	500	4	34	1875	265	16−Φ25
400	406	580	525	485	305	4	36	2180	300	16−Φ30
450	432	640	585	545	305	4	40	2440	325	20−Φ30
500	457	705	650	608	305	4	44	2860	360	20−Φ34
600	508	840	770	718	305	5	48	3450	425	20−Φ41
700	610	910	840	788	305	5	50	3960	460	24−Φ41
800	660	1020	950	898	305	5	52	4550	512	24−Φ41

◆ 主要外形和连接尺寸凸面法兰R F SY(K)Z643WF-25 (2.5MPa)Main External and Connection Dimension

公称通径(DN) Nominal diameter	连接尺寸 Connecting size								
	L	D	D1	D2	D0	f	b	H	H1	N−Φd
50	178	160	125	100	250	3	16	584	80	4−Φ18
65	191	180	145	120	300	3	22	634	95	8−Φ18
80	203	195	160	135	350	3	22	688	100	8−Φ18
100	229	230	190	160	350	3	24	863	114	8−Φ23
125	254	270	220	188	350	3	28	940	132	8−Φ25
150	267	300	250	218	400	3	30	1030	150	8−Φ25
200	292	360	310	278	450	3	34	1277	168	12−Φ25
250	330	425	370	332	500	3	36	1491	203	12−Φ30
300	356	485	430	390	305	4	40	1701	237	12−Φ30
350	381	550	490	448	305	4	44	1875	265	16−Φ34
400	406	610	550	505	305	4	48	2180	300	16−Φ34
450	432	660	600	555	305	4	50	2440	325	20−Φ34
500	457	730	660	610	305	4	52	2860	360	20−Φ41
600	508	840	770	718	305	5	56	3450	425	20−Φ41
700	610	955	875	815	305	5	60	3960	460	24−Φ48
800	660	1070	990	930	305	5	64	4550	512	24−Φ48

◆ 主要外形和连接尺寸凹凸法兰MFM SY(K)Z643WF-40 (4.0MPa)Main External and Connection Dimension

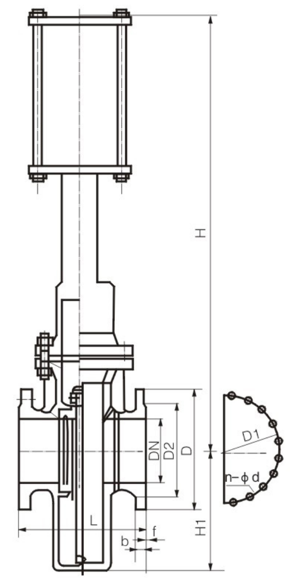
公称通径(DN) Nominal diameter	连接尺寸 Connecting size											
	L	D	D1	D2	Y	D0	f	f2	b	H	H1	n−ϕd
50	250	160	125	100	88	250	3	4	20	584	80	4−Φ18
65	280	180	145	120	110	250	3	4	22	634	95	8−Φ18
80	310	195	160	135	121	250	3	4	22	679	102	8−Φ18
100	350	230	190	160	150	300	3	4.5	24	863	115	8−Φ23
125	400	270	220	188	176	350	3	4.5	28	940	133	8−Φ25
150	450	300	250	218	204	350	3	4.5	30	1040	152	8−Φ25
200	550	375	320	282	260	350	3	4.5	38	1282	188	12−Φ30
250	650	445	385	345	313	400	3	4.5	42	1495	223	12−Φ34
300	750	510	450	408	364	450	4	4.5	46	1701	250	16−Φ34
350	850	570	510	465	422	500	4	5	52	1880	280	16−Φ34
400	950	655	585	535	474	305	4	5	58	2200	310	16−Φ34
450	1050	680	610	560	524	305	4	5	60	2480	335	20−Φ41
500	1150	755	670	612	576	305	4	5	62	2890	380	20−Φ41
600	1350	890	795	730	678	305	5	6	62	3460	450	20−Φ48
700	1450	995	900	835	768	305	5	6	68	3985	500	20−Φ54
800	1650	1135	1030	960	876	305	5	6	76	4750	570	24−Φ54

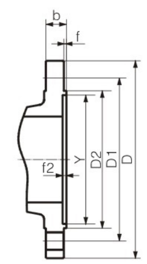
◆ 主要外形和连接尺寸凹凸法兰MFM SY(K)Z643WF-64 (6.4MPa)Main External and Connection Dimension

公称通径(DN) Nominal diameter	连接尺寸 Connecting size											
	L	D	D1	D2	Y	D0	f	f2	b	H	H1	n−ϕd
50	250	175	135	105	88	250	3	4	26	584	90	4−Φ23
65	280	200	160	130	110	250	3	4	28	634	105	8−Φ23
80	310	210	170	140	121	250	3	4	30	679	110	8−Φ23
100	350	250	200	168	150	300	3	4.5	32	763	130	8−Φ25
125	400	295	240	202	176	350	3	4.5	36	970	150	8−Φ30
150	450	340	280	240	204	350	3	4.5	38	1038	175	8−Φ34
200	550	405	345	300	260	350	3	4.5	44	1282	210	12−Φ34
250	650	470	400	352	313	400	3	4.5	48	1495	240	12−Φ41
300	750	530	450	412	364	450	4	4.5	54	1965	270	16−Φ41
350	850	595	525	475	422	500	4	5	60	2185	300	16−Φ41
400	950	670	585	525	474	305	4	5	66	2573	335	16−Φ48
450	1050	715	630	570	524	305	4	5	68	2800	360	20−Φ48
500	1150	800	705	640	576	305	4	5	70	3280	405	20−Φ54
600	1350	930	820	750	678	305	5	6	76	3800	470	20−Φ58

◆ 主要外形和连接尺寸凹凸法兰MFM SY(K)Z643WF-100 (10.0MPa)Main External and Connection Dimension

公称通径(DN) Nominal diameter	连接尺寸 Connecting size											
	L	D	D1	D2	Y	D0	f	f2	b	H	H1	n−ϕd
50	250	195	145	112	88	250	3	4	28	590	100	4−Φ25
65	280	220	170	138	110	250	3	4	32	640	115	8−Φ25
80	310	230	180	148	121	250	3	4	34	680	120	8−Φ25
100	350	265	210	172	150	300	3	4.5	38	870	135	8−Φ30
125	400	310	250	210	176	350	3	4.5	42	980	155	8−Φ34
150	450	350	290	250	204	350	3	4.5	46	1100	180	12−Φ34
200	550	430	360	312	260	350	3	4.5	54	1315	220	12−Φ41
250	650	500	430	382	313	400	3	4.5	60	1605	255	12−Φ41
300	750	585	500	442	364	450	4	4.5	70	1925	295	16−Φ48
350	850	665	560	498	422	500	4	5	76	2280	335	16−Φ54
400	950	715	620	558	474	305	4	5	80	2580	360	16−Φ54





◆ 主要外形和连接尺寸凸面法兰R F SY(K)Z643F-16C (1.6MPa)Main External and Connection Dimension

公称通径(DN) Nominal diameter	连接尺寸 Connecting size									
	L	D	D1	D2	D0	f	b	H	H1	N-Φd
50	178	160	125	100	250	3	16	584	80	4-Φ18
65	191	180	145	120	250	3	18	634	95	4-Φ18
80	203	195	160	135	250	3	20	688	100	8-Φ18
100	229	215	180	155	300	3	20	863	114	8-Φ18
125	254	245	210	185	350	3	22	940	132	8-Φ18
150	267	280	240	210	350	3	24	1030	150	8-Φ23
200	292	335	295	265	350	3	26	1277	168	12-Φ23
250	330	405	355	320	400	3	30	1491	203	12-Φ25
300	356	460	410	375	450	4	30	1701	237	12-Φ25
350	381	520	470	435	500	4	34	1875	265	16-Φ25
400	406	580	525	485	305	4	36	2180	300	16-Φ30
450	432	640	585	545	305	4	40	2440	325	20-Φ30
500	457	705	650	608	305	4	44	2860	360	20-Φ34
600	508	840	770	718	305	5	48	3450	425	20-Φ41
700	610	910	840	788	305	5	50	3960	460	24-Φ41
800	660	1020	950	898	305	5	52	4550	512	24-Φ41

◆ 主要外形和连接尺寸凸面法兰R F SY(K)Z643F-25 (2.5MPa)Main External and Connection Dimension

公称通径(DN) Nominal diameter	连接尺寸 Connecting size									
	L	D	D1	D2	D0	f	b	H	H1	N-Φd
50	178	160	125	100	250	3	20	584	80	4-Φ18
65	190	180	145	120	300	3	22	634	95	8-Φ18
80	203	195	160	135	350	3	22	688	100	8-Φ18
100	229	230	190	160	350	3	24	863	114	8-Φ23
125	254	270	220	188	350	3	28	940	132	8-Φ25
150	267	300	250	218	400	3	30	1030	150	8-Φ25
200	292	360	310	278	450	3	34	1277	168	12-Φ25
250	330	425	370	332	500	3	36	1491	203	12-Φ30
300	356	485	430	390	305	4	40	1701	237	16-Φ30
350	381	550	490	448	305	4	44	1875	265	16-Φ34
400	406	610	550	505	305	4	48	2180	300	16-Φ34
450	432	660	600	555	305	4	50	2440	325	20-Φ34
500	457	730	660	610	305	4	52	2860	360	20-Φ41
600	508	840	770	718	305	5	56	3450	425	20-Φ41
700	610	955	875	815	305	5	60	3960	460	24-Φ48
800	660	1070	990	930	305	5	64	4550	512	24-Φ48

◆ 主要外形和连接尺寸凹凸法兰MFM SY(K)Z643F-40 (4.0MPa)Main External and Connection Dimension

公称通径(DN) Nominal diameter	连接尺寸 Connecting size											
	L	D	D1	D2	Y	D0	f	f2	b	H	H1	n-φd
50	250	160	125	100	88	250	3	4	20	584	80	4-Φ18
65	280	180	145	120	110	250	3	4	22	634	95	8-Φ18
80	310	195	160	135	121	250	3	4	22	679	102	8-Φ18
100	350	230	190	160	150	300	3	4.5	24	863	115	8-Φ23
125	400	270	220	188	176	350	3	4.5	28	940	133	8-Φ25
150	450	300	250	218	204	350	3	4.5	30	1040	152	8-Φ25
200	550	375	320	282	260	350	3	4.5	38	1282	188	12-Φ30
250	650	445	385	345	313	400	3	4.5	42	1495	223	12-Φ34
300	750	510	450	408	364	450	4	4.5	46	1701	250	16-Φ34
350	850	570	510	465	422	500	4	5	52	1880	280	16-Φ41
400	950	655	585	535	474	305	4	5	58	2200	310	20-Φ41
450	1050	680	610	560	524	305	4	5	60	2480	335	20-Φ41
500	1150	755	670	612	576	305	4	5	62	2890	380	20-Φ48
600	1350	890	795	730	678	305	5	6	62	3460	450	20-Φ54
700	1450	995	900	835	768	305	5	6	68	3985	500	24-Φ54
800	1650	1135	1030	960	876	305	5	6	76	4750	570	24-Φ58

◆ 主要外形和连接尺寸凹凸法兰MFM SY(K)Z643F-64 (6.4MPa)Main External and Connection Dimension

公称通径(DN) Nominal diameter	连接尺寸 Connecting size											
	L	D	D1	D2	Y	D0	f	f2	b	H	H1	n-φd
50	250	175	135	105	88	250	3	4	26	584	90	4-Φ23
65	280	200	160	130	110	250	3	4	28	634	105	8-Φ23
80	310	210	170	140	121	250	3	4	30	679	110	8-Φ23
100	350	250	200	168	150	300	3	4.5	32	763	130	8-Φ25
125	400	295	240	202	176	350	3	4.5	36	970	150	8-Φ30
150	450	340	280	240	204	350	3	4.5	38	1038	175	8-Φ34
200	550	405	345	300	260	350	3	4.5	44	1282	210	12-Φ34
250	650	470	400	352	313	400	3	4.5	48	1495	240	12-Φ41
300	750	530	450	412	364	450	4	4.5	54	1965	270	16-Φ41
350	850	595	525	475	422	500	4	5	60	2185	300	16-Φ41
400	950	670	585	525	474	305	4	5	66	2573	335	16-Φ48
450	1050	715	630	570	524	305	4	5	68	2800	360	20-Φ48
500	1150	800	705	640	576	305	4	5	70	3280	405	20-Φ54
600	1350	930	820	750	678	305	5	6	76	3800	470	20-Φ58

◆ 主要外形和连接尺寸凹凸法兰MFM SY(K)Z643F-100 (10.0MPa)Main External and Connection Dimension

公称通径(DN) Nominal diameter	连接尺寸 Connecting size											
	L	D	D1	D2	Y	D0	f	f2	b	H	H1	n-φd
50	250	195	145	112	88	250	3	4	28	590	100	4-Φ25
65	280	220	170	138	110	250	3	4	32	640	115	8-Φ25
80	310	230	180	148	121	250	3	4	34	680	120	8-Φ25
100	350	265	210	172	150	300	3	4.5	38	870	135	8-Φ30
125	400	310	250	210	176	350	3	4.5	42	980	155	8-Φ34
150	450	350	290	250	204	350	3	4.5	46	1100	180	12-Φ34
200	550	430	360	312	260	350	3	4.5	54	1315	220	12-Φ41
250	650	500	430	382	313	400	3	4.5	60	1605	255	12-Φ41
300	750	585	500	442	364	450	4	4.5	70	1925	295	16-Φ48
350	850	665	560	498	422	500	4	5	76	2280	335	16-Φ54
400	950	715	620	558	474	305	4	5	80	2580	360	16-Φ54

◆ 概述Outline

SYZ673气动刀闸阀采用全圆形的通道设计，刀板底端加工成刀刃、光洁度高，保证了良好的密封性。在刀板上端安装有硬聚四乙烯、刮泥器，可防止粉尘砂砾等擦伤性物质进入填料盒。聚胶脂或含Ni耐磨铸铁制成的耐磨折边锥体安装在刀闸阀的进口端，可防止颗粒物料直接冲刷在密封上，从而可改善的工作条件，延长寿命。根据需要，可在阀体四周设置多个冲洗口，直接用空气、蒸汽或水进行冲洗，防止沉淀物逐渐堆积，对于输入困难的流体特别有效。该阀设计紧凑、占据空间小、重量轻、易于安装、耐磨防堵措施完善、便于维修、使用寿命长。广泛满足造纸、纸浆工业、工业污水和城市污水处理、化工厂、飞灰处理、散状物料输送、食品饮料工业的使用要求及工作条件苛刻的环境条件下。

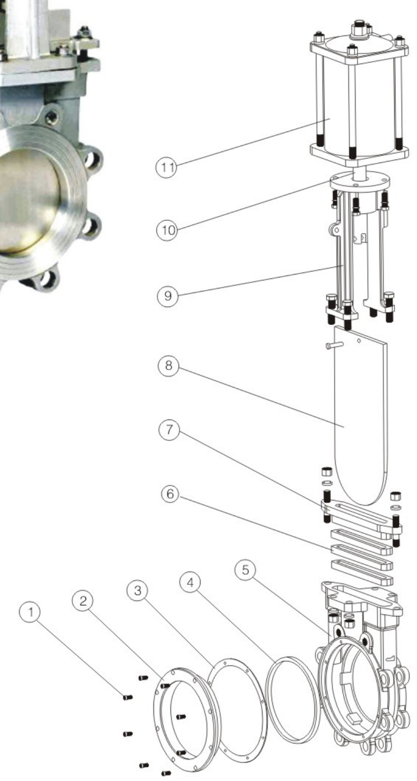
The SYZ673 air operated knife gate valve used entire circular the channel design, the knife board bottom end processes the knife edge, the smooth finish is high, has guaranteed the good leak-proof quality. Has in the knife board upper extreme installment hardly poly four ethylene, the scraper, may prevent abrasion matter and so on dust gravel enters the stuffing box. Gathers the rubber fat or contains the wear-resisting cone which the Ni wear-resisting cast iron makes to install in the knife gate valve import end, may prevent the pellet material directly washes out in the seal, thus may improve the working condition, lengthens the life. According to the need, may all around establish many flushings mouth in the valve body, straight takes over the use of the air, the steam or the water carries on the flushing, prevented the settling gradually piles up, is specially effective regarding the input difficult fluid. This valve design compact, occupies the space slightly, the weight light, is easy to install, wear-resisting to guard against stops up the measure to consummate, to be advantageous for the service, the service life is long. Widely satisfies the papermaking, the paper pulp industry, the industrial sewage and the city sewage treatment, the chemical plant, flies ash processing, disperses the shape material transportation, food drink industry operation requirements and under the working condition harsh environmental condition.

◆ 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/T9002	API598

注：系列刀形闸阀结构长度及连接尺寸可根据用户要求设计制造。
Note: series of knife gate valve structure form length and connecting size according to user requirements design manufacturing.

SYPZ673

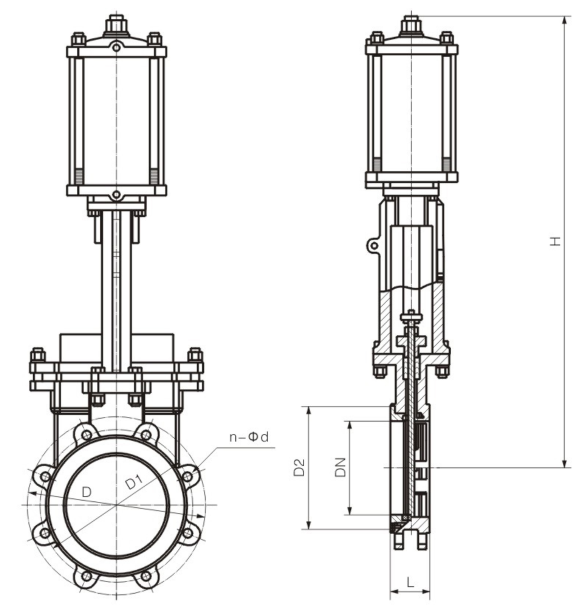


◆ 主要零件材质表 Form of Main Parts Materials

序号 No	零件名称 Name of parts	材质 Material		
		C	P	R
1	内六角螺丝 Inside hexagonal screw	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
2	阀盖 Bonnet	WCB	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
3	垫片 Gasket	PTFE	PTFE	PTFE
4	阀座 seat	1Cr18Ni9Ti 或PTFE	1Cr18Ni9Ti 或PTFE	1Cr18Ni12Mo2Ti 或PTFE
5	阀体 Body	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
6	密封填料 Packing	丁腈橡胶 或PTFE	丁腈橡胶 或PTFE	丁腈橡胶 或PTFE
7	压盖 gland	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
8	闸板 Shut-off device	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
9	支架 stents	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
10	推拉杆 Push-pull adjustments	45#钢镀铬	45#钢镀铬	45#钢镀铬
11	气动执行器 Pneumatic actuators			

注：系列刀形闸阀主要零件部件及密封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: series of knife gate valves are the major parts and components form of seal valve sealing material according to actual working conditions or user's special design requirement for selection.

SYPZ673

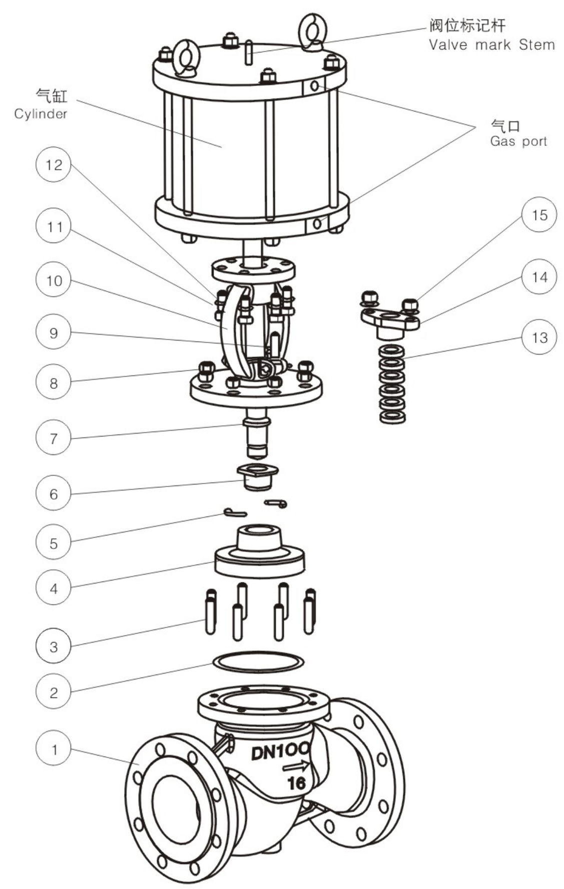


◆ 气动对夹式刀形闸阀 Pneumatic wafer knife gate valves SYPZ673 (H、W、Y、F) -PN10、CLASS150Lb

公称通径(DN) Nominal diameter		GB标准外形及连接尺寸（PN1.0MPa） GB appearance and connection size (PN1.0 Mpa)						ANSI标准外形及连接尺寸（Class150） ANSI standard appearance and connection size (Class150)					
DN	In	L	H	D	D1	D2	n-Φd	L	H	D	D1	D2	n-Φd
50	2	60	335	165	125	100	2-Φ18 2-M16	48	335	152	120.5	92	2-Φ19 2-ΦM16
65	21/2	60	363	185	145	120	2-Φ18 2-M16	48	363	178	139.5	105	2-Φ19 2-ΦM16
80	3	60	395	200	160	135	2-Φ18 2-M16	50	395	190	152.5	127	2-Φ19 2-ΦM16
100	4	60	465	220	180	155	6-Φ18 2-M16	50	465	229	190.5	157	6-Φ19 2-ΦM16
125	5	60	530	250	210	185	6-Φ18 2-M16	57	530	254	216	186	6-Φ22 2-ΦM20
150	6	70	630	285	240	210	6-Φ23 2-M20	57	630	279	241.5	216	6-Φ22 2-ΦM20
200	8	80	750	340	295	265	6-Φ23 4-M20	70	750	343	298.5	270	6-Φ22 2-ΦM20
250	10	86	900	395	350	320	8-Φ23 4-M20	70	900	406	362	324	8-Φ25 4-ΦM22
300	12	92	1120	445	400	368	8-Φ23 6-M20	76	1120	483	432	381	8-Φ25 4-ΦM22
350	14	100	1260	505	460	428	10-Φ23 6-M20	76	1260	533	476	413	8-Φ29 4-ΦM27
400	16	120	1450	565	515	482	10-Φ25 6-M22	89	1450	597	540	470	12-Φ29 4-ΦM27
450	18	125	1600	615	565	532	14-Φ25 6-M22	89	1600	635	578	533	12-Φ29 4-ΦM30
500	20	130	1800	670	620	585	14-Φ25 6-M22	114	1800	699	635	584	14-Φ32 6-ΦM30
600	24	130	2300	780	725	685	14-Φ30 6-M27	114	2300	813	749.5	692	14-Φ35 6-ΦM33

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: according to different valve torque, use medium matching, different execution, ware, its related size changed.

SYJ641H（W、F、Y）-PN16 40



◆ 技术规范 Technique norm

设计依据 Design Basis		GB 标准 Standard
设计标准 Design standard		GB/12233
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

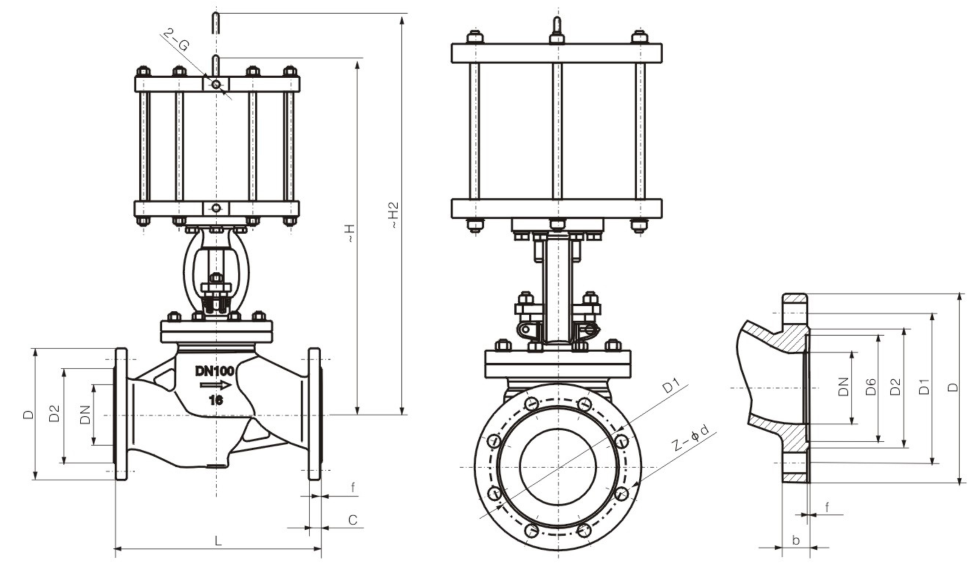
※注：系列截止阀结构长度及连接法兰尺寸可根据用户要求设计制造。
Note:The structural length and connecting flange size of globe valve series can be designed and manufactured as per users'requirements.

◆ 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 Stud	35	304	304
4	阀瓣 Disc	WCB+堆焊304 或Stelite、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 Stud	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圈的材质可根据实际工况条件或用户特殊要求选用。
Note:The main sparts and sealing–ning materials of globe valve series can be for options asper real working conditions and users'special requirements.

SYJ641H（W、F、Y）-PN16 40

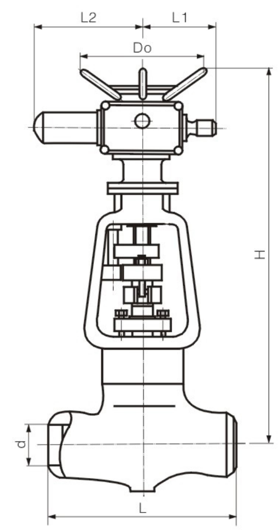


◆ 主要外形及连接法兰尺寸 SYJ641H/Y-16 Main outline and connecting flange size

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	D1	D2	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	
80	310	683	200	160	132	20	3	8	18	
100	350	745	220	180	156	22	3	8	18	3/8"
125	400	855	250	210	184	22	3	8	18	
150	480	870	285	240	211	24	3	8	22	
300	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 relative sizes are subject to change responding to the difference in valve torque, medium and actuator model

SYJ961Y CLASS 900Lb 2500Lb



◆ 主要外形尺寸 Main Dimensions

CLASS 900Lb

DN mm	DN in	L	D	d	X	电装型号 Electric Actuator Code	L1	Do	H
100	4	368	117	84	13	SMC-0	955	305	1030
125	5	559	144	100	13	SMC-0	975	305	1125
150	6	610	172	125	13	SMC-0	975	305	1681
200	8	737	223	158	13	SMC-1	1074	305	1960
CLASS 1500Lb									
100	4	546	114	80	6	SMC-0	975	305	1030
125	5	673	141	96	6	SMC-1	1074	305	1125
150	6	705	168	118	6	SMC-1	1074	305	1681
200	8	832	219	154	6	SMC-1	1074	305	1960
CLASS 2500Lb									
100	4	673	114	70	6	SMC-1	1074	305	1220
125	5	794	141	88	6	SMC-2	1128	457	1425
150	6	914	168	104	6	SMC-3	1530	610	1685
200	8	1022	219	144	6	SMC-3	1530	610	1965

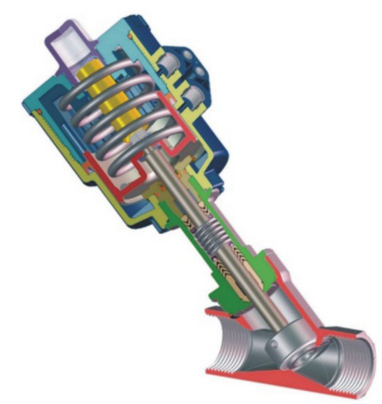
◆ 特点及用途 Characteristic and use

本系列角座阀是本公司最新引进国外先进生产技术，结合现代工业应用研发而成的新一代气动角座阀。它广泛应用于食品和化学过程，灭菌机、高压消毒器、干洗机、干衣机、啤酒生产线等。与传统角座阀相比，它具有以下新特点：

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：气控头可以作360° 旋转，甚至限位开关也可以360° 旋转。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：阀杆契形特氟隆（PTEE）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。

This series of pneumatic angle seat valve is a new generation of angle valve which developed from advance foreign produce technology and modern industry application. This is widely used in the process of foodstuff and chemical producing, sterilizer, high pressure sterilizer , dry cleaning machine, dryer, beer produce line etc. Compare with traditional angle valve, its new characteristic as follow:

1. Visual position direction: connect limit button or urgency manual equipment
2. Easiness installment: pneumatic control head and even the limit button can do 360° rotation. Can equip one to two limit button with conveniently.
3. Advance pneumatic controller: thicker engineering plastic outside shell for reliable and safe. Low-friction piston structure, large volume and low gas consumption. The inner element is self-lubricated and free of protection.
4. Many control way: normal open, normal close, double acting
5. Require for smaller pneumatic actuator: could select smaller connection when the liquid flow into the stem.
6. Easiness connection: use inserting metal joint according to MAMUR standard,
7. Long service life for guide level: the stem sealed with PTFE and has best fix after special finish, avoid the waste and can self-revise. Self lubricated And protection-free.
8. No water-stamp effort: the water-stamp will be absorbed, when the fluid flows into the stem.
9. Advance valve body organ: the liquid is 30% greater than normal angle seat, volume is smaller, flow regime of the liquid is more excellent. Valve body uses stainless 316 material, PTFE sealing, high temperature resistance, anti-corrosion, and the service life is more than 7 thousand times.

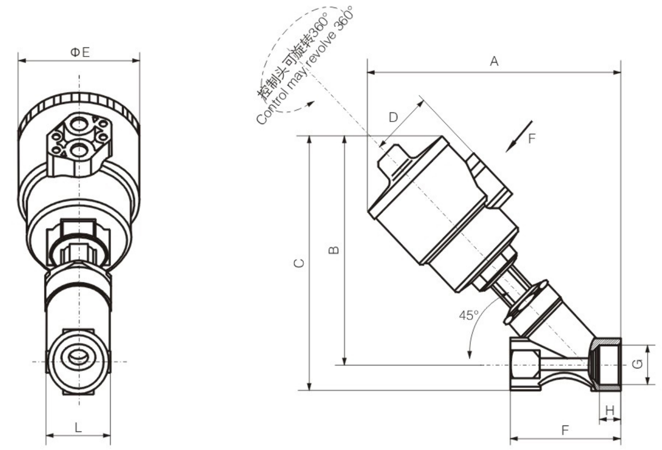


◆ 技术特性表 Technical characteristic table

接口G Connection		3/8A	3/8B	1/2A	1/2B	3/4A	3/4B*	3/4B	1*	1	11/4	11/2*	11/2	2*	2
通径(mm) Passes the diameter		15	15	15	15	20	20	20	25	25	32	40	40	50	50
KV(m 3/h)		4.5	4.5	5.3	5.7	9.2	10.5	10.8	20	20	29	46	46.5	59	67
执行器 ΦExecution		40	40	40	50	40	50	63	63	90	90	90	110	90	110
控制气源 (MPa) Controls he source	最小 Smallest	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	最大 Biggest	6	6	6	6	6	6	6	6	6	6	6	6	6	6
最大耐压力(MPa) Most greatly bears the pressure		1	16	16	16	16	8	10*/16	16	11* /16	16	14* /16	16	4.4	10*/16
重量(Kg) Weight		1	1.1	1	1	1.2	1.2	1.2	16	1.7	3	3.7	4		5.3*/7.6

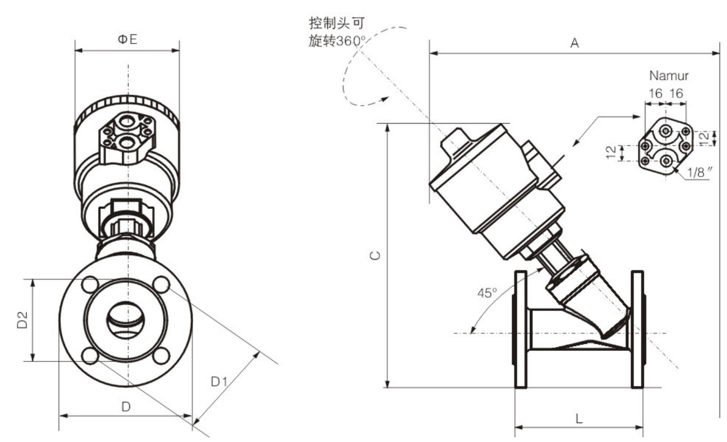
注: *常闭无水锤 **常闭有水锤 A为ARES型 B为ZEUS型
Note: * Chang Biwu * often shuts has A is ARES B is ZEUS

气动角座阀(丝扣)
Air Operated Angle Place Valve



公称通径 DN(mm)	尺寸 Size (mm)								
	接口G	气控头(DN)	A	B	C	D	ΦE	F	H	L
15	1/2"	50	190	156	169	44	70	85	15	25
20	3/4"	50	195	160	276	44	70	95	16.3	31
25	1"	63	259	222	242	50.5	70	105	19.5	38
32	$1^1/4"$	63	226	186	209	50.5	116.4	120	19	47
40	$1^1/2"$	90	271	230	258	66.2	140.6	130	18	54
50	2"	90	285	240	274	66.2	116.4	150	20	66

气动角座阀(法兰)
Air Operated Angle Place Valve(flange)



DN	接口G	气控头	A	C	D	D1	D2	T	L
15	1/2"	DN50	190	169	95	65	45	14	108
20	3/4"	DN50	195	276	105	75	55	14	117
25	1"	DN63	210	202	115	85	65	14	127
32	$1^1/4"$	DN63	226	209	135	100	78	16	140
40	$1^1/2"$	DN90	307	294	145	110	85	16	165
50	2"	DN90	321	310	160	125	100	16	203
65	$2^1/2"$	DN90	350	355	180	145	120	18	216

注：可根据需求提供NPT连接 **NAMUR连接(不需NAMUR连接板)
Note: May provide NPT according to the demand to connect the **NAMUR connection (not to need the NAMUR junction panel)

英标、国标电动隔膜阀
Electric Diaphragm Vlave

SYG/E941W/J/F46

技术规范 Technical specificastion

设计与制造 Design and manufacture: Bs5156
结构长度 Face to face dimension: Bs5156
法兰连接尺寸 Connection dimension of flange:BS4504、DIN2532、JIS B2212、ANSI B16.1 ISO2004

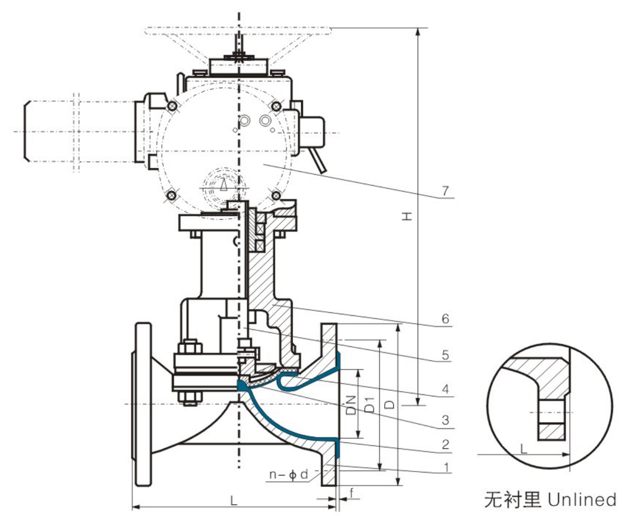
部件列表 Component list:

1	阀体	Body
2	阀体衬里	Body lining
3	隔膜	Diaphrgm
4	阀瓣	Disc
5	阀杆	Stem
6	阀盖	Bonnet
7	电动头	Electric actuator

部件材料 Component Materials:

阀体：铸铁、球墨铸铁、碳钢、不锈钢
阀盖：铸铁、球墨铸铁、碳钢、不锈钢
衬里：无衬里、氟塑料、橡胶
隔膜：氟塑料、橡胶
阀瓣：铸铁 、碳钢
阀杆：碳钢、不锈钢
支撑架：铸铁、碳钢
电动装置：组合件

Body: Cast iron, spheroidal graphite cast iron, carbon steel, stainless steel
Bonnet: Cast iron, spheroidal graphite cast iron, carbon steel, stainless steel
Lining: Unlined, fluorine plastic, Rubber
Diaphragm: Fluorine plastic, Rubber
Disc: Cast iron, carbon steel
Stem: Carbon steel, stainless steel
Sustaining: Cast iron, carbon steel
electric actuator :Assembly actuator



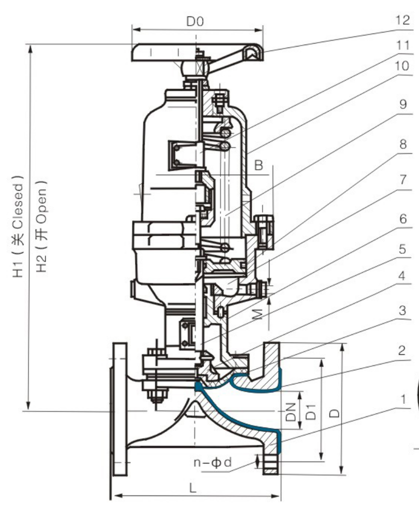
无衬里 Unlined

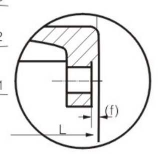
主要外形尺寸及重量 Main dimensions and weight

公称通径 Nominal DN mm	inch	公称压力 Mpa Nominal pressure	工作压力 Mpa Working pressure	L mm	D mm	D1 mm	N-φd mm	F mm	H mm	型号 Model	输出力矩 Output torque N-m	启闭时间 On and off time S	重量 Weight kg/kilos
15	1/2"	1.6		108	95	65	4-14	2					
20	3/4"			117	105	75	4-14	2					
25	1"			127	115	85	4-14	2	445	Z5-18/16	50	17	40
32	11/4"			146	140	100	4-18	2	457	Z5-18/16	50	20	41
40	11/2"			159	150	110	4-18	2	466	Z5-18/16	50	14	44
50	2"			190	165	125	4-18	2	480	Z10-18/16	50	20	50
65	21/2"	1.0		216	185	145	4-18	2	517	Z10-18/16	150	28	60
80	3"			254	200	160	8-18	2	539	Z10-36/25	100	160	70
100	4"			305	220	180	8-18	2	576	Z10-36/25	100	17	77
125	5"			356	250	210	8-18	3	634	Z15-18/25	150	32	92
150	6"			406	285	240	8-22	3	660	Z20-18/25	200	53	120
200	8"	0.6		521	340	295	8-22	3	860	Z20-18/25	300	33	180
250	10"			635	395	350	12-22	5					
300	12"			749	445	400	12-22	5					

注：电动装置可按客户要求配置。
Note: The electric actuator can be equipped according to the requirement.

SYG6B41W/J/F46





无衬里 Unlined

◆ 技术规范 Technical specificastion

设计与制造 Design and manufacture: GB12239
结构长度 Face to face dimension: GB12221、JB1688
法兰连接尺寸 Connection dimension of flange: GB4216、JB78

◆ 部件列表 Component list:

1	阀体	Body
2	阀体衬里	Body lining
3	隔膜	Diaphrgm
4	阀瓣	Disc
5	下阀杆	Lower Stem
6	阀盖	Bonnet
7	气缸	Cylider
8	活塞	Piston
9	弹簧	Spring
10	气缸盖	Cylinder cover
11	上阀杆	Upper stem
12	手轮	Handwheel

◆ 部件材料 Component Materials:

阀体：铸铁、球墨铸铁、碳钢、不锈钢
阀盖：铸铁、球墨铸铁、碳钢、不锈钢
衬里：无衬里、氟塑料、橡胶
隔膜：氟塑料、橡胶
阀瓣：铸铁、碳钢
气缸：球墨铸铁
阀杆：碳钢
手轮：铸铁

Body：Cast iron, spheroidal graphite cast iron,carbon steel, stainless steel
Bonnet：Cast iron, spheroidal graphite cast iron,carbon steel, stainless steel
Lining：Unlined, fluorine plastic,rubber
Diaphragm：Fluorine plastic,rubber
Disc：Cast iron, carbon steel
Cylinder：Spheroidal graphite cast iron
Piston：Carbon steel
Stem：Carbon steel
Handwheel：Cast iron

◆ 主要外形尺寸及重量 Main dimensions and weight

公称通径 Nominal DN mm	公称通径 Nominal DN inch	公称压力 Nominal pressure Mpa	工作压力 Working pressure] Mpa	L mm	D mm	D1 mm	N-ϕd mm	F mm	H1 mm	H2 mm	D0 mm	B mm	气源压力 Air pressure Mpa	气源接头 Air joint in	耗气量 Air consu-mption cm^3	重量 Weight kg/kilos
15	1/2"	1.0	1.0	125	95	65	4-14	2								
20	3/4"			139	105	75	4-14	2								
25	1"			145	115	85	4-18	2	296	310	120	94	0.4	10×1	2.395×102	8
32	11/4"			160	135	100	4-18	2	398	416	140	120	0.4	12×1.25	6.082×102	15
40	11/2"			180	145	110	4-18	3	406	426	140	120	0.4	12×1.25	6.082×102	17.5
50	2"			210	160	125	4-18	3	464	489	160	185	0.4	12×1.25	1.235×103	26
65	21/2"		0.6	250	180	145	4-18	3	635	675	160	245	0.5	16×1.5	1.235×103	56
80	3"			300	195	160	4-18	3	645	685	200	245	0.5	16×1.5	3.725×103	61
100	4"			350	215	180	8-18	3	710	760	240	330	0.5	16×1.5	9.458×103	94.5
125	5"			400	245	210	8-18	3	732	900	320	380	0.5	20×1.5	1.409×104	170
150	6"			460	280	240	8-22	3	933	1130	320	470	0.5	20×1.5	2.868×104	229
200	8"		0.4	570	335	295	8-22	4	1275	1395	400	470	0.5	20×1.5	4.619×104	387
250	10"			680	390	350	12-22	4								

注：1. 气动隔膜阀门尚可附装反馈信号、限位器或定位器，以适应自控、程控或调节流量的需要。
2. 气动阀门的反馈信号采用无触点传感技术。
3. 采用薄膜式气缸替代活塞式气缸，排除了活塞环易损漏而导致无法启闭阀门的弊端。
4. 当气源发生故障时，可操作手轮使阀门开启。

Note: 1.Pneumatic diaphragm valve also can be installed feedback signal, limited machine or localizer in order to adapt to the requirements of automatic control, programed control or flow rate eajustment.
2.The feedback signal of pmeumatic valve is adopted the sense technology of non-contact.
3.Adop film cylinder in place of piston cylinder, which remove the abuse that piston ring is easily and lead to not open or close valve.
4.When gas source happen to trouble, can operate handwheel to open valve.

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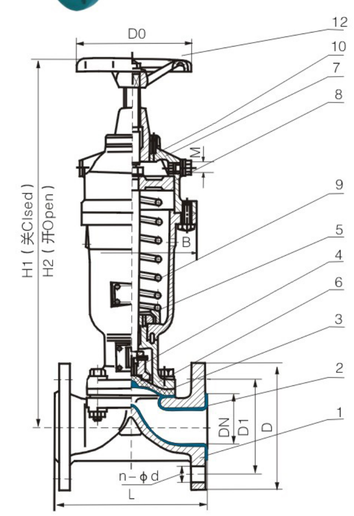

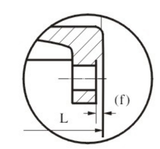

无衬里 Unlined

◆ 技术规范 Technical specificastion

设计与制造 Design and manufacture: GB12239
结构长度 Face to face dimension: GB12221、JB1688
法兰连接尺寸 Connection dimension of flange: GB4216、JB78

◆ 部件列表 Component list:

1	阀体	Body
2	阀体衬里	Body lining
3	隔膜	Diaphrgm
4	阀瓣	Disc
5	下阀杆	Lower Stem
6	阀盖	Bonnet
7	气缸	Cylider
8	活塞	Piston
9	弹簧	Spring
10	气缸盖	Cylinder cover
11	上阀杆	Upper stem
12	手轮	Handwheel

◆ 部件材料 Component Materials:

阀体：铸铁、球墨铸铁、碳钢、不锈钢
阀盖：铸铁、球墨铸铁、碳钢、不锈钢
衬里：无衬里、氟塑料、橡胶
隔膜：氟塑料、橡胶
阀瓣：铸铁、碳钢
气缸：球墨铸铁
活塞：碳钢
阀杆：碳钢
手轮：铸铁

Body:Cast iron, spheroidal graphite cast iron,carbon steel, stainless steel
Bonnet:Cast iron, spheroidal graphite cast iron,carbon steel, stainless steel
Lining:Unlined, fluorine plastic
Diaphragm:Fluorine plastic
Disc:Cast iron, carbon steel
Cylinder:Spheroidal graphite cast iron
Piston:Carbon steel
Stem:Carbon steel
Handwheel:Cast iron

◆ 主要外形尺寸及重量 Main dimensions and weight

公称通径 Nominal DN mm	公称通径 Nominal DN inch	公称压力 Nominal pressure Mpa	工作压力 Working pressure Mpa	L mm	D mm	D1 mm	N-ϕd mm	F mm	H1 mm	D0 mm	B mm	代号 Code mm	气源压力 Air pressure Mpa	气源接头 Air joint in	耗气量 Air consumption cm3	重量 Weight kg/kilos
15	1/2"	1.0	1.0	125	95	65	4-14	2								
20	3/4"			139	105	75	4-14	2								
25	1"			145	115	85	4-18	2	306	320	120	94	0.4	10×1	2.395×102	7.5
32	11/4"			160	135	100	4-18	2	410	430	140	120	0.4	12×1.25	6.082×102	14.5
40	11/2"			180	145	110	4-18	3	415	435	140	120	0.4	12×1.25	6.082×102	16
50	2"			210	160	125	4-18	3	463	488	160	185	0.4	12×1.25	1.235×103	24.5
65	21/2"		0.6	250	180	145	4-18	3	620	660	160	245	0.5	16×1.5	3.725×103	50
80	3"			300	195	160	4-18	3	627	667	200	245	0.5	16×1.5	3.725×103	55
100	4"			350	215	180	8-18	3	719	769	240	330	0.5	16×1.5	9.458×103	86.5
125	5"			400	245	210	8-18	3	804	872	320	380	0.5	20×1.5	1.409×104	133
150	6"		0.4	460	280	240	8-22	3	920	1000	320	470	0.5	20×1.5	2.868×104	196.5
200	8"			570	335	295	8-22	4	1145	1265	400	470	0.5	20×1.5	4.619×104	279.5

注：1. 气动隔膜阀门尚可附装反馈信号、限位器或定位器，以适应自控、程控或调节流量的需要。
2. 气动阀门的反馈信号采用无触点传感技术。
3. 采用薄膜式气缸替代活塞式气缸，排除了活塞环易损漏而导致无法启闭阀门的弊端。
4. 当气源发生故障时，可操作手轮使阀门开启。

Note: 1.Pneumatic diaphragm valve also can be installed feedback signal, limited machine or localizer in order to adapt to the requirements of automatic control, programed control or flow rate eajustment.
2.The feedback signal of pmeumatic valve is adopted the sense technology of non-contact.
3.Adop film cylinder in place of piston cylinder, which remove the abuse that piston ring is easily and lead to not open or close valve.
4.When gas source happen to trouble, can operate handwheel to open valve.

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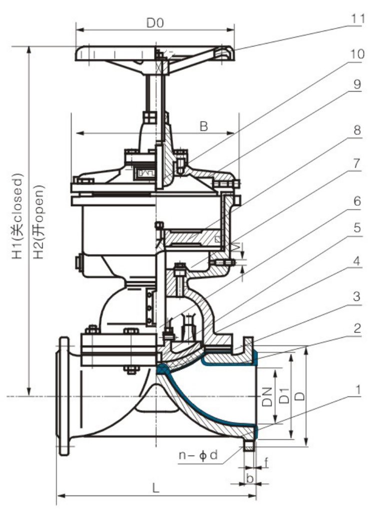

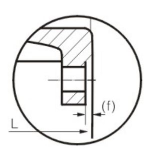

无衬里 Unlined

技术规范 Technical specificastion

设计与制造 Design and manufacture：GB12239
结构长度Face to face dimension：GB12221、JB1688
法兰连接尺寸Connection dimension of flange：GB4216、JB78

部件列表 Component list:

1	阀体	Body
2	阀体衬里	Body lining
3	隔膜	Diaphrgm
4	阀瓣	Disc
5	下阀杆	Lower Stem
6	阀盖	Bonnet
7	气缸	Cylider
8	活塞	Piston
9	气缸盖	Cylinder cover
10	上阀杆	Upper stem
11	手轮	Handwheel

部件材料 Component Materials:

阀体：铸铁、球墨铸铁、碳钢、不锈钢
阀盖：铸铁、球墨铸铁、碳钢、不锈钢
衬里：无衬里、氟塑料、橡胶
隔膜：氟塑料、橡胶
阀瓣：铸铁、碳钢
气缸：球墨铸铁
活塞：碳钢
阀杆：碳钢
手轮：铸铁

Body: Cast iron, spheroidal graphite cast iron, carbon steel, stainless steel
Bonnet: Cast iron, spheroidal graphite cast iron, carbon steel, stainless steel
Lining: Unlined, fluorine plastic
Diaphragm: Fluorine plastic
Disc: Cast iron, carbon steel
Cylinder: Spheroidal graphite cast iron
Piston: Carbon steel
Stem: Carbon steel
Handwheel: Cast iron

主要外形尺寸及重量 Main dimensions and weight

公称通径 Nominal DN mm	公称通径 Nominal DN inch	公称压力 Nominal pressure Mpa	工作压力 Working pressure Mpa	L mm	D mm	D1 mm	N−ϕd mm	F mm	H1 mm	H2 mm	D0 mm	B mm	气源压力 Air pressure Mpa	气源接头 Air joint in	耗气量 Air consumption cm^3	重量 Weight kg/kilos
15	1/2"			125	95	65	4−14	2								
20	3/4"			139	105	75	4−14	2								
25	1"			145	115	85	4−18	2								
32	11/4"		1.0	160	140	100	4−18	2	250	264	120	94	0.4	10×1	2.395×102	6.5
40	11/2"			180	150	110	4−18	3			140	120	0.4	12×1.25	6.082×102	
50	2"			210	165	125	4−18	3			140	120	0.4	12×1.25	6.082×102	
65	21/2"	1.0		250	185	145	4−18	3	379	405	160	185	0.4	12×1.25	1.235×103	25
80	3"			300	200	160	4−18	3					0.4	16×1.5		31.5
100	4"		0.6	350	220	180	8−18	3	483	523	240	245	0.5	16×1.5	3.725×103	62.5
125	5"			400	250	210	8−18	3	565	617	280	330	0.5	16×1.5	9.458×103	93.5
150	6"			460	285	240	8−22	3	664	732	320	380	0.5	20×1.5	1.409×104	114
200	8"			570	340	295	8−22	4	750	830	320	470	0.5	20×1.5	2.868×104	164
250	10"		0.4	680	395	350	12−22	4	930	1050	400	470	0.5	20×1.5	4.619×104	249

注：1. 气动隔膜阀门尚可附装反馈信号、限位器或定位器，以适应自控、程控或调节流量的需要。
2. 气动阀门的反馈信号采用无触点传感技术。
3. 采用薄膜式气缸替代活塞式气缸，排除了活塞环易损漏而导致无法启闭阀门的弊端。
4. 当气源发生故障时，可操作手轮使阀门开启。

Note: 1.Pneumatic diaphragm valve also can be imstalled feedback signal, limited machine or localizer in order to adapt to the requirements of automatic control, programed control or flow rate eajustment.
2.The feedback signal of pmeumatic valve is adopted the sense technology of non−contact.
3.Adop film cylinder in place of piston cylinder, which remove the abuse that piston ring is easily and lead to not open or close valve.
4.When gas source happen to trouble, can operate handwheel to open valve.

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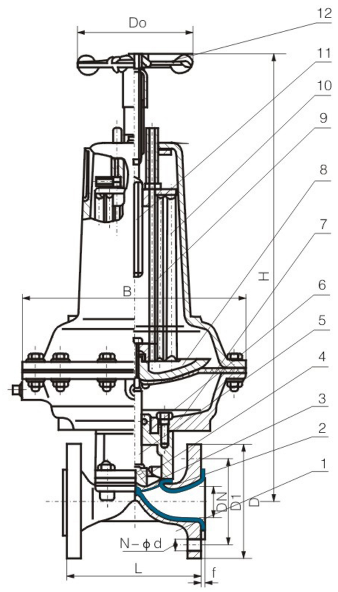
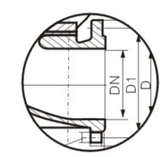




无衬里 Unlined

技术规范 Technical specificastion

设计与制造 Design and manufacture: Bs5156
结构长度 Face to face dimension: Bs5156
法兰连接尺寸：Connection dimension of flange:BS4504、DIN2532、JIS B2212、ANSI B16.1 ISO2004

部件列表 Component list:

1	阀体	Body
2	阀体衬里	Body lining
3	隔膜	Diaphrgm
4	阀瓣	Disc
5	下阀杆	Lower Stem
6	阀盖	Bonnet
7	气缸	Cylider
8	气动薄膜	Pneumatic diaphragm
9	弹簧	Spring
10	气缸盖	Cylinder cover
11	上阀杆	Upper stem
12	手轮	Handwheel

部件材料 Component Materials:

阀体：铸铁、球墨铸铁、碳钢、不锈钢
阀盖：铸铁、球墨铸铁、碳钢、不锈钢
衬里：无衬里、氟塑料、橡胶
隔膜：氟塑料、橡胶
阀瓣：铸铁 、碳钢
气缸：铝合金、不锈钢
气动薄膜：橡胶
阀杆：碳钢、不锈钢
手轮：铸铁

Body: Cast iron, spheroidal graphite cast iron, carbon steel, stainless steel
Bonnet: Cast iron, spheroidal graphite cast iron, carbon steel, stainless steel
Lining: Unlined, fluorine plastic, Rubber
Diaphragm: Fluorine plastic, Rubber
Disc: Cast iron, carbon steel
Cylinder: Aluminum alloy, carbon steel
Pneumatic: Rubber diaphragm
Stem: Carbon steel, stainless steel
Handwheel: Cast iron

主要外形尺寸及重量 Main dimensions and weight

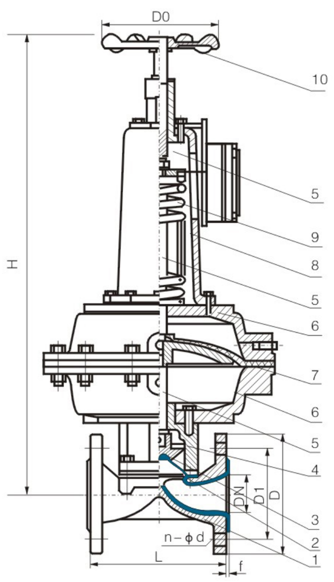
公称通径 Nominal DN mm	公称通径 Nominal DN inch	公称压力 Nominal pressure Mpa	工作压力 Working pressure Mpa	L mm	D mm	D1 mm	N−ϕd mm	F mm	H1 mm	D0 mm	B mm	代号 Code mm	气源压力 Air pressure Mpa	气源接头 Air joint in	耗气量 Air consumption cm3	重量 Weight kg/kilos
15	1/2"			108	95	65		2								
20	3/4"			117	105	75	4−13.5	2		120	168	61	0.3	1/8	163.87	7.2
25	1"	1.6	1.6	127	115	85	4−13.5	2	394	120	168	61	0.3~0.4	1/8	196.65	8.9
32	11/4"			146	140	100	4−17.5	2	400	120	168	61	0.3~0.4	1/8	229.4	10.6
40	11/2"			159	150	110	4−17.5	2	485	165	260	62	0.3~0.4	1/4	1425.7	19.5
50	2"			190	165	125	4−17.5	2	635	165	318	63	0.3~0.4	1/4	2284.1	34.9
65	21/2"			216	185	145	4−17.5	2	650	165	318	63	0.3~0.4	1/4	3048	39.9
80	3"			254	200	160	8−17.5	2	660	165	318	63	0.4~0.5	1/4	3244.7	51.9
100	4"	1.0	1.0	305	220	180	8−17.5	2	816	280	425	64	0.4~0.5	3/8	6964.5	93.2
125	5"			356	250	210	8−17.5	3	825	280	425	64	0.4~0.5	3/8	7439.7	105.3
150	6"			406	285	240	8−22	3	1013	356	549	65	0.5	3/8	14912	184.5
200	8"		0.4	521	340	295	8−22	3	1300	483	749	66	0.6	1/2	49161	407.4

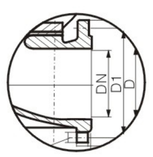
注：1. 气动隔膜阀门尚可附装反馈信号、限位器或定位器，以适应自控、程控或调节流量的需要。
2. 气动阀门的反馈信号采用无触点传感技术。
3. 采用薄膜式气缸替代活塞式气缸，排除了活塞环易损漏而导致无法启闭阀门的弊端。
4. 当气源发生故障时，可操作手轮使阀门开启。

Note: 1.Pneumatic diaphragm valve also can be imstalled feedback signal, limited machine or localizer in order to adapt to the requirements of automatic control, programed control or flow rate eajustment.
2.The feedback signal of pmeumatic valve is adopted the sense technology of non−contact.
3.Adop film cylinder in place of piston cylinder, which remove the abuse that piston ring is easily and lead to not open or close valve.
4.When gas source happen to trouble, can operate handwheel to open valve.

英标气动隔膜阀(常开式)
BS Pneumatic Diaphragm Valve(normally Open)

SYEG6K41W/J/F46





无衬里 Unlined

◆ 技术规范 Technical specificastion

设计与制造 Design and manufacture: Bs5156
结构长度 Face to face dimension: Bs5156
法兰连接尺寸 Connection dimension of flange:BS4504、DIN2532、
JIS B2212 ANSI B16.1 ISO2004

◆ 部件列表 Component list:

1	阀体	Body
2	隔膜	Diaphrgm
3	阀瓣	Disc
4	阀盖	Bonnet
5	上中下阀杆	Upper,middle,lower stem
6	气缸	Cylider
7	气动薄膜	Pneumatic diaphragm
8	弹簧盖	Spring cover
9	弹簧	Spring
10	手轮	Handwheel

◆ 部件材料 Component Materials:

阀体：铸铁、球墨铸铁、碳钢、不锈钢
阀盖：铸铁、球墨铸铁、碳钢、不锈钢
衬里：无衬里、氟塑料、橡胶
隔膜：氟塑料、橡胶
阀瓣：铸铁 、碳钢
气缸：铝合金、不锈钢 、碳钢
气动薄膜：橡胶
阀杆：碳钢、不锈钢
手轮：铸铁

Body: Cast iron, spheroidal graphite cast iron, carbon steel, stainless steel
Bonnet: Cast iron, spheroidal graphite cast iron, carbon steel, stainless steel
Lining: Unlined, fluorine plastic, Rubber
Diaphragm: Fluorine plastic, Rubber
Disc: Cast iron, carbon steel
Cylinder: Aluminum alloy, carbon steel, carbon steel
Pneumatic: Rubber diaphragm
Stem: Carbon steel, stainless steel
Handwheel: Cast iron

◆ 主要外形尺寸及重量 Main dimensions and weight

公称通径 Nominal DN		公称压力 Nominal pressure Mpa	工作压力 Working pressure Mpa	L mm	D mm	D1 mm	N-ϕd mm	F mm	H1 mm	D0 mm	B mm	代号 Code mm	气源压力 Air pressure Mpa	气源接头 Air joint in	耗气量 Air consumption cm^3	重量 Weight kg/kilos
mm	inch															
15	1/2"			108	95	65	4-13.5	2								
20	3/4"			117	105	75	4-13.5	2	343	140	168	68	0.3	1/8	163.87	6.3
25	1"			127	115	85	4-17.5	2	345	140	168	68	0.3~0.4	1/8	196.65	7.3
32	11/4"		1.6	146	140	100	4-17.5	2	363	140	260	68	0.3~0.4	1/8	229.4	8.3
40	11/2"			159	150	110	4-17.5	2	430	140	260	69	0.3~0.4	1/4	1458.7	14.3
50	2"	1.6		190	165	125	4-17.5	2	575	140	260	70	0.3~0.4	1/4	3162.7	26
65	21/2"			216	185	145	4-17.5	2	588	140	260	70	0.3~0.4	1/4	3243	30.8
80	3"			254	200	160	8-17.5	2	769	165	425	71	0.4~0.5	3/8	6636.8	64.9
100	4"		1.0	305	220	180	8-17.5	2	816	280	425	71	0.4~0.5	3/8	6948	70.3
125	5"			356	250	210	8-17.5	3	820	280	425	71	0.4~0.5	3/8	7374.2	80.7
150	6"			406	285	240	8-22	3	920	280	549	72	0.5	3/8	10652	131.2
200	8"		1.0	521	340	295	8-22	3	1010	280	549	72	0.6	3/8	16715	212
250	10"			635	395	350	12-22	5								

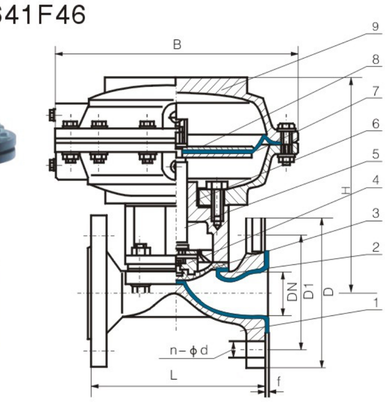
注：1. 气动隔膜阀门尚可附装反馈信号、限位器或定位器，以适应自控、程控或调节流量的需要。
2. 气动阀门的反馈信号采用无触点传感技术。
3. 采用薄膜式气缸替代活塞式气缸，排除了活塞环易损漏而导致无法启闭阀门的弊端。
4. 当气源发生故障时，可操作手轮使阀门开启。

Note: 1.Pneumatic diaphragm valve also can be imstalled feedback signal, limited machine or localizer in order to adapt to the requirements of automatic control, programed control or flow rate eajustment.
2.The feedback signal of pmeumatic valve is adopted the sense technology of non-contact.
3.Adop film cylinder in place of piston cylinder, which remove the abuse that piston ring is easily and lead to not open or close valve.
4.When gas source happen to trouble, can operate handwheel to open valve.

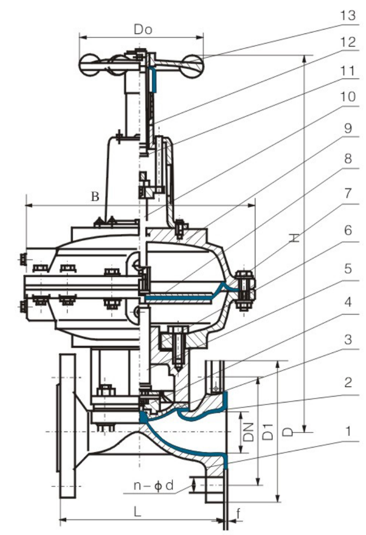
气动衬胶、衬氟隔膜阀
Pneumatic Rubber-line And Fluorine-lined Diaphragm Valves

SYEG641J、SYEG641F46

无手操作
No hand operation



带手动操作
With manual operation



◆ 技术规范 Technical specificastion

设计与制造Design and manufacture：BS5156
结构长度Face to face dimension：BS5156
法兰连接尺寸Connection dimension of flange：BS4504、DIN2532、
JIS B2212、ANSI B16.1 ISO2004

◆ 部件列表 Component list:

1	阀体	Body
2	阀体衬里	Body lining
3	隔膜	Diaphrgm
4	阀瓣	Disc
5	下阀杆	Lower Stem
6	阀盖	Bonnet
7	气缸	Cylider
8	气动薄膜	Pneumatic diaphragm
9	气缸盖	Cylinder cover
10	中阀杆	Middle stem
11	弹簧盖	Spring cover
12	上阀杆	Upper stem
13	手轮	Handwheel

◆ 部件材料 Component Materials:

阀体：铸铁、球墨铸铁、碳钢、不锈钢
阀盖：铸铁、球墨铸铁、碳钢、不锈钢
衬里：无衬里、氟塑料、橡胶
隔膜：氟塑料、橡胶
阀瓣：铸铁 、碳钢
气缸：铝合金、不锈钢
气动薄膜：橡胶
阀杆：碳钢、不锈钢
手轮：铸铁

Body: Cast iron, spheroidal graphite cast iron, carbon steel, stainless steel
Bonnet: Cast iron, spheroidal graphite cast iron, carbon steel, stainless steel
Lining: Unlined, fluorine plastic
Diaphragm: Fluorine plastic
Disc: Cast iron, carbon steel
Cylinder: Aluminum alloy, carbon steel
Pneumatic: Rubber diaphragm
Stem: Carbon steel, stainless steel
Handwheel: Cast iron

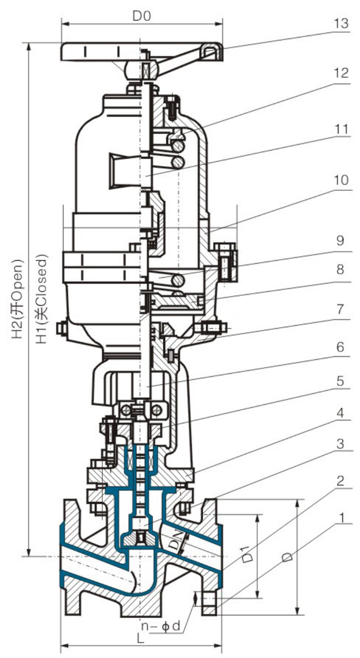
◆ 主要外形尺寸及重量 Main dimensions and weight

公称通径 Nominal DN		公称压力 Nominal pressure Mpa	工作压力 Working pressure Mpa	L mm	D mm	D1 mm	N-ϕd mm	F mm	H带 mm	H无 mm	D0 mm	B mm	代号 Code mm	气源压力 Air pressure Mpa	气源接头 Air joint in	耗气量cm^3 Air consum-ption	重量 Weight kg/kilos
mm	inch																
15	1/2"			108	95	65		2									
20	3/4"			117	105	75	4-13.5	2	343	136	140	168	54	0.3	1/8	163.87	5.6
25	1"			127	115	85	4-13.5	2	345	144	140	168	54	0.3~0.4	1/8	196.65	6.8
32	11/4"	1.6	1.6	146	140	100	4-17.5	2	363	209	140	260	55	0.3~0.4	1/8	229.4	7.7
40	11/2"			159	150	110	4-17.5	2	430	227	140	260	55	0.3~0.4	1/4	1458.7	13.9
50	2"			190	165	125	4-17.5	2	575	231	140	260	55	0.3~0.4	1/4	3162.7	24.5
65	21/2"			216	185	145	4-17.5	2	588	252	140	260	55	0.3~0.4	1/4	3243	29
80	3"			254	200	160	8-17.5	2	769	285	165	425	56	0.4~0.5	1/4	6636.8	63
100	4"	1.0	1.0	305	220	180	8-17.5	2	816	360	280	425	57	0.4~0.5	3/8	6948	66
125	5"			356	250	210	8-17.5	3	820	370	280	425	57	0.4~0.5	3/8	7374.2	75
150	6"			406	285	240	8-22	3	920	462	280	549	58	0.5	3/8	10652	125
200	8"		0.6	521	340	295	8-22	3	1010	544	280	549	58	0.6	3/8	16715	206
250	10"			635	395	350		5									

注：1. 气动隔膜阀门尚可附装反馈信号、限位器或定位器，以适应自控、程控或调节流量的需要。
2. 气动阀门的反馈信号采用无触点传感技术。
3. 采用薄膜式气缸替代活塞式气缸，排除了活塞环易损漏而导致无法启闭阀门的弊端。
4. 当气源发生故障时，可操作手轮使阀门开启。

Note: 1.Pneumatic diaphragm valve also can be imstalled feedback signal, limited machine or localizer in order to adapt to the requirements of automatic control, programed control or flow rate eajustment.
2.The feedback signal of pmeumatic valve is adopted the sense technology of non-contact.
3.Adop film cylinder in place of piston cylinder, which remove the abuse that piston ring is easily and lead to not open or close valve.
4.When gas source happen to trouble, can operate handwheel to open valve.

SYJ641J/F46



◆ 技术规范 Technical specificastion

设计与制造 Design and manufacture：GB12235
结构长度 Face to face dimension：GB12221(1系列)
法兰连接尺寸 Connection dimension of flange：GB4216、JB78

◆ 部件列表 Component list:

1	阀体	Body
2	阀座	Bonnet
3	阀体衬里	Body lining
4	阀瓣	Disc
5	压盖	Gland
6	中阀杆	Middle stem
7	下气缸	Lower cylinder
8	活塞	Piston
9	弹簧	Spring
10	上气缸	Upper cylinder
11	压盘	Compressor plate
12	上阀杆	Upper stem
13	手轮	Hanswheel

◆ 部件材料 Component Materials:

阀体：铸铁、碳钢、不锈钢
阀盖：铸铁、碳钢、不锈钢
衬里：氟塑料、橡胶
气缸：球墨铸铁
活塞：碳钢
阀瓣：碳钢、不锈钢，完全包覆氟塑料
阀杆：碳钢、不锈钢，部分包覆氟塑料
手轮：铸铁、碳钢

Body: Cast iron, carbon steel, Stainless steel
Bonnet: Cast iron, carbon steel, Stainless steel
Lining: Fluorine plastic
Cylinder: Sphereidal graphite cast iron
Piston: Carbon steel
Disc: Carbon steel, stainless steel, fully covered with fluorine plastic
Stem: Carbon steel, stainless steel, partially covered fluorine plastic
Handwheel: Cast iron, carbon steel

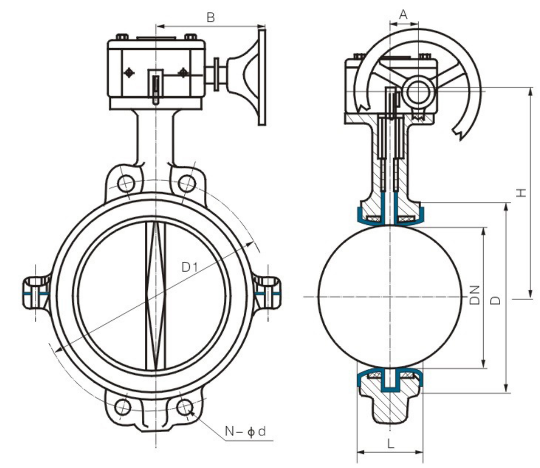
◆ 主要外形尺寸及重量 Main dimensions and weight

公称通径 Nominal DN mm	公称通径 Nominal DN inch	公称压力 Mpa Nominal pressure	工作压力Mpa Working pressure	L mm	D mm	D1 mm	N-ϕd mm	H mm	D0 mm	重量 Weight kg/kilos
15	1/2"	1.6	1.6	130	95	65	4-14			
20	3/4"			150	105	75	4-14			
25	1"			160	115	85	4-14	550	160	23
32	11/4"			180	140	100	4-18	558	160	25.5
40	11/2"			200	150	110	4-18	722	200	50
50	2"			230	165	125	4-18	732	200	51.5
65	21/2"	1.0	1.0	290	185	145	4-18	980	320	135
80	3"			310	200	160	6/2-18	990	320	140
100	4"			350	220	180	6/2-18	1048	320	169
125	5"			400	250	210	6/2-18	1158	320	220
150	6"			480	285	240	6/2-22			
200	8"		0.6	600	340	295	6/2-22			

注：1. 气动隔膜阀门尚可附装反馈信号、限位器或定位器，以适应自控、程控或调节流量的需要。
2. 气动阀门的反馈信号采用无触点传感技术。
3. 采用薄膜式气缸替代活塞式气缸，排除了活塞环易损漏而导致无法启闭阀门的弊端。
4. 当气源发生故障时，可操作手轮使阀门开启。

Note: 1.Pneumatic diaphragm valve also can be imstalled feedback signal, limited machine or localizer in order to adapt to the requirements of automatic control, programed control or flow rate eajustment.
2.The feedback signal of pneumatic valve is adopted the sense technology of non-contact.
3.Adop film cylinder in place of piston cylinder, which remove the abuse that piston ring is easily and lead to not open or close valve.
4.When gas source happen to trouble, can operate handwheel to open valve.

SYD6/971/F46



◆ 技术规范 Technical specificastion

设计与制造 Design and manufacture: Gb12238
结构长度 Face to face dimension: Gb12221
法兰连接尺寸 Connection dimension of flange:GB4216、JB78、JB79

◆ 部件列表 Component list:

1	阀体	Body
2	蝶圈	Seat
3	蝶板	Disc
4	四氟圈	PTFE Ring
5	蝶形弹性垫圈	Spring
6	手柄定位板	Locator
7	手轮	Wrench

◆ 部件材料 Component Materials:

上阀体：铸铁、碳钢、不锈钢
下阀体：铸铁、碳钢、不锈钢
蝶板：不锈钢、碳钢完全包覆氟塑料
蝶板轴：碳钢、不锈钢
阀座：氟塑料、橡胶
弹性条(垫)：Si
O 型圈：Viton
手柄：铸铁、铸铝合金

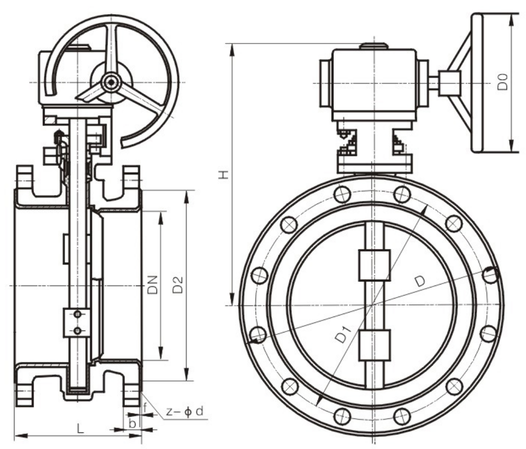
Upper body: Cast iron, carbon steel, stainless steel
Lower body: Cast iron, carbon steel, stainless steel
DISC: Stainless steel, carbon steel core fully covered with fluorine plastic
Axis: carbon steel, stainless steel
Seat: PTFE, PCTFE, FEP, PFA
Spring strip: Si
O ring: Viton
Wrench: Cast iron, cast aluminium alloy

◆ 主要外形尺寸及重量 Main dimensions and weight

公称通径 Nominal DN		L mm	D mm			D1 mm			D2 mm			n-ϕ mm			f mm	H mm	A mm	B mm	重量 Weigh kg/kilos
DN	NPS		0.6	1.0	1.6	0.6	1.0	1.6	0.6	1.0	1.6	0.6	1.0	1.6					
50	2"	43	140	165	160	110	125	125	90	93	100	2-14	4-18	4-18	3	180	45	120	6.5
65	21/2"	46	160	185	180	130	145	145	110	106	120	2-14	4-18	4-18	3	200	45	120	8.0
80	3"	46	182	200	195	150	160	160	125	123	135	4-18	4-18	8-18	3	220	45	120	10
100	4"	52	205	220	215	170	180	180	145	150	155	4-18	8-18	8-18	3	254	45	120	13
125	5"	56	235	250	245	200	210	210	175	172	185	4-18	8-18	8-18	3	300	45	120	17
150	6"	56	260	285	280	225	240	240	200	198	210	4-18	8-23	8-23	3	334	66	150	22
200	8"	60	315	340	335	280	295	295	225	252	265	4-18	8-23	12-23	3	450	85	170	43
250	10"	68	370	395	405	335	350	355	310	320	320	4-23	12-23	12-25	3	525	85	170	52
300	12"	78	435	445	160	395	400	410	362	368	378	4-23	12-23	12-25	4	590	106	205	60
350	14"	78	485	505	520	445	460	470	412	428	435	4-23	16-23	16-25	4	650	106	205	94
400	16"	102	535	565	580	495	515	525	462	532	485	4-23	16-23	16-30	4	745	130	240	165
450	18"	114	590	620	640	550	565	585	518	585	545	4-23	16-25	20-30	4	820	155	240	200
500	20"	127	640	670	705	600	620	650	568	685	608	4-25	20-25	20-34	4	870	169	306	235
600	24"	154	755	780	84	705	725	770	670		718	4-25	20-25	24-41	5	1010	198	324	280
700	28"	165	860	895	910	810		840	775		788	4-30	20-30	24-41	5	1130	220	335	530
800	32"	190	975	1010	1020	920		950	880		898	4-30		24-41	5	1240	241	356	650
900	36"	203	1075	1110	1120	1020		1050	980		998	4-30		28-41	5	1350	241	356	780
1000	40"	216	1175	1220	1255	1120		1170	1080		1110	4-34		28-48	5	1460	241	356	880
1200	48"	254	1400	1450	1485	1340		1390	1295		1325			32-54	5	1670			1050

注：为了方便客户安装要求，本表给定的数值系与蝶阀连接的标准法兰尺寸，简图中尺寸代号仅是其中一部分。
Note:In order to be convenient for the installation of clients,the numerical valve,butterfly valve joint standard flange size and size code in the are only one part of them.

SYD6/941/F46



◆ 技术规范 Technical specificastion

设计与制造 Design and manufacture: Gb12238
结构长度 Face to face dimension: GB12221
法兰连接尺寸 Connection dimension of flange:GB4216

◆ 部件列表 Component list:

1	阀体	Body
2	蝶圈	Seat
3	蝶板	Disc
4	蝶板	Stem
5	驱动装置	Actuator
6	四氟圈	PTFE Ring
7	填料圈	Filling Ring
8	蝶型弹簧	Spring

◆ 部件材料 Component Materials:

阀体：铸铁、碳钢、不锈钢
蝶板：不锈钢、碳钢完全包覆氟塑料
阀杆：碳钢、不锈钢
阀座：氟塑料、橡胶
驱动装置：组合件

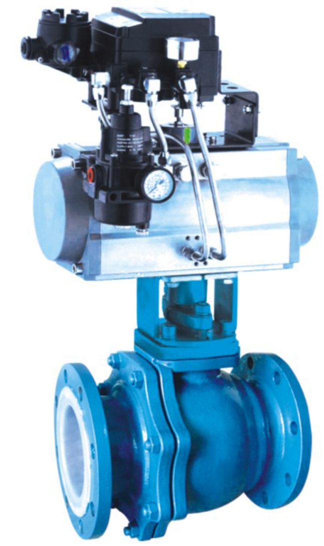
Body: Cast iron, spheroidal graphite cast iron, carbon steel, Stainless steel
Disc: Stainless steel, carbon steel core fully covered with fluorine plastic
Stem: Carbon steel, Stainless steel
Seat: PTFE, PCTFE, FEP, PFA
Actuator: Subassembly

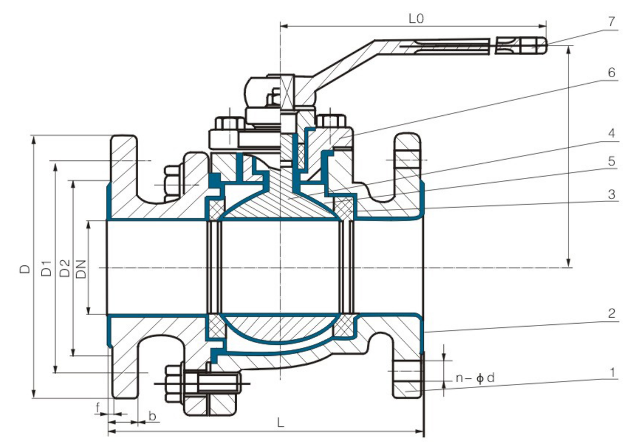
◆ 主要外形尺寸及重量 Main dimensions and weight

L长1：长系列 L长2：短系列

公称通径 Nominal DN mm	inch	L长1 mm	L长2 mm	D mm	D1 mm	D2 mm	B mm	n-ϕ mm	f mm	蜗轮装置 Wormgear actuator A(mm)	B(mm)	气动装置 Pneumatic actuator A(mm)	B(mm)	电动装置 Electric actuator A(mm)	B(mm)
50	2"	108	108	165	125	102	20	4-18	3	45	120	125	94	162	187
65	21/2"	112	112	185	145	122	20	4-18	3	45	120	165	108	162	187
80	3"	114	114	200	160	133	22	8-18	3	45	120	185	128	162	187
100	4"	127	127	220	180	158	22	8-18	3	45	120	185	128	162	187
125	5"	140	140	250	210	184	24	8-18	3	45	120	210	137	162	187
150	6"	140	140	285	240	212	24	8-22	3	66	150	224	160	162	187
200	8"	152	152	340	295	268	26	8-22	3	85	170	295	182	409	513
250	10"	250	165	370	350	320	28	12-22	4	85	170	382	228	409	513
300	12"	276	178	445	400	370	28	12-22	4	106	205	382	228	409	513
350	14"	290	190	505	460	430	30	16-22	4	106	205	440	262	409	513
400	16"	310	216	565	515	482	32	16-26	4	130	240	585	332	409	513
450	18"	330	222	615	565	532	32	20-26	4	155	240	585	332	409	513
500	20"	350	229	670	620	585	34	20-26	4	169	306	585	332	409	513
600	24"	390	267	780	725	685	36	20-30	5	198	324	642	380	409	563
700	28"	430	292	895	840	800	40	24-3	5	220	335	702	438	409	563
800	32"	470	318	1015	950	905	44	24-33	5	241	356	702	438	409	563
900	36"	510	330	1115	1050	1005	46	28-33	5	241	356	1890	440	409	563
1000	40"	550	410	1230	1160	1110	50	28-36	5	241	356	1890	545		

SYQ6/941F46





◆ 技术规范 Technical specificastion

设计与制造 Design and manufacture: Gb12237
结构长度 Face to face dimension: Gb12221
法兰连接尺寸 Connection dimension of flange: Gb4216

◆ 部件列表 Component list:

1	阀体	Body
2	蝶圈	Seat
3	蝶板	Disc
4	四氟圈	PTFE Ring
5	蝶形弹性垫圈	Spring
6	手柄定位板	Locator
7	手柄	Wrench

◆ 部件材料 Component Materials:

阀体：铸铁、碳钢、不锈钢
球体：碳钢
阀体衬里：FEP / PTFE
球体衬里：FEP / PTFE
阀体衬里：FEP / PTFE
密封圈：PTFE
填料：PTFE
手柄：碳钢

Body:Cast iron,carbon steel,stainless steel
Ball:Carbon steel
Body lining:FEP / PTFE
Ball lining:FEP / PTFE
Sealing:PTFE / PTFE
Filing:PTFE
Hand lever:Carbon steel

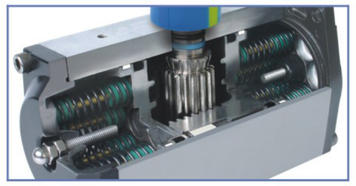
◆ 主要外形尺寸及重量 Main dimensions and weight

公称通径 Nominal DN mm	inch	公称压力 Mpa Nominal pressure	工作压力Mpa Working pressure	L mm	D mm	D1 mm	D2 mm	b mm	N-ϕd mm	f mm	H mm	L0 mm	重量 Weight kg/kilos
15	1/2"			130	95	65	45	14	4-13.5	3	95	100	4
20	3/4"			140	105	75	55	16	4-13.5	3	98	160	4.5
25	1"			150	115	85	65	16	4-13.5	3	103	160	4
32	11/4"	1.0	1.6	165	140	100	78	18	4-17.5	3	120	250	7
40	11/2"			180	150	110	85	18	4-17.5	3	125	250	9
50	2"			200	165	125	100	20	4-17.5	3	137	350	15
65	21/2"			220	185	145	120	20	4-17.5	3	145	350	19
80	3"			250	200	160	135	22	4-17.5	3	185	450	30
100	4"		1.0	280	220	180	155	24	8-17.5	3	220	450	40
125	5"			320	250	210	185	24	8-17.5	3	230	600	65
150	6"	1.0		360	285	240	210	26	8-22	3	283	800	85
200	8"		0.6	400	340	295	265	28	8-22	4	325	1200	153
250	10"			533	390	350	320	30	12-22	4	378		

◆ 产品概述 Products overview

AT新型齿轮齿条式气动执行器由上海山仪公司综合了国内外最近技术，通过CAD三维模型创新优化设计，外形美观紧凑、现代化的造型；
采用新型材料、新工艺，使用产品的技术性能更加可靠；
产品全面符合最新国际技术规范，满足现在和未来的需求。

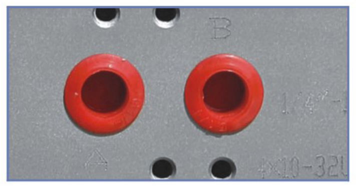
AT the new gear rack type the pneumatic actuators by Shanghai mountain comprehensive instrument AT home and abroad in recent technology, through the CAD three-dimensional model optimization design innovation, beautiful appearance compact, the modelling of modernization;
The new materials, new technology, use the product technical performance more reliable;
Products comply with the latest international technical specifications comprehensive, meet the needs of the present and future.



一体化设计 Integration design

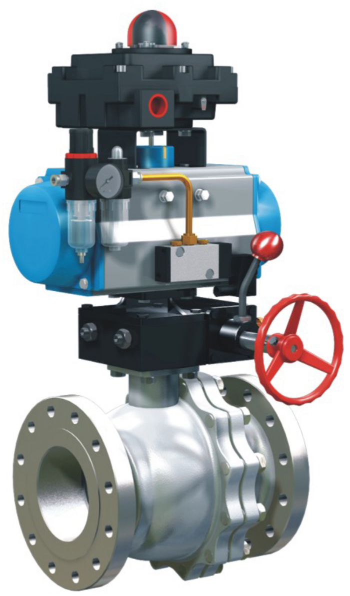
所有的双作用和单作用执行器型号，都具有相同的缸体和端盖，很方便通过加装弹簧或拆除弹簧来改变作用方式。

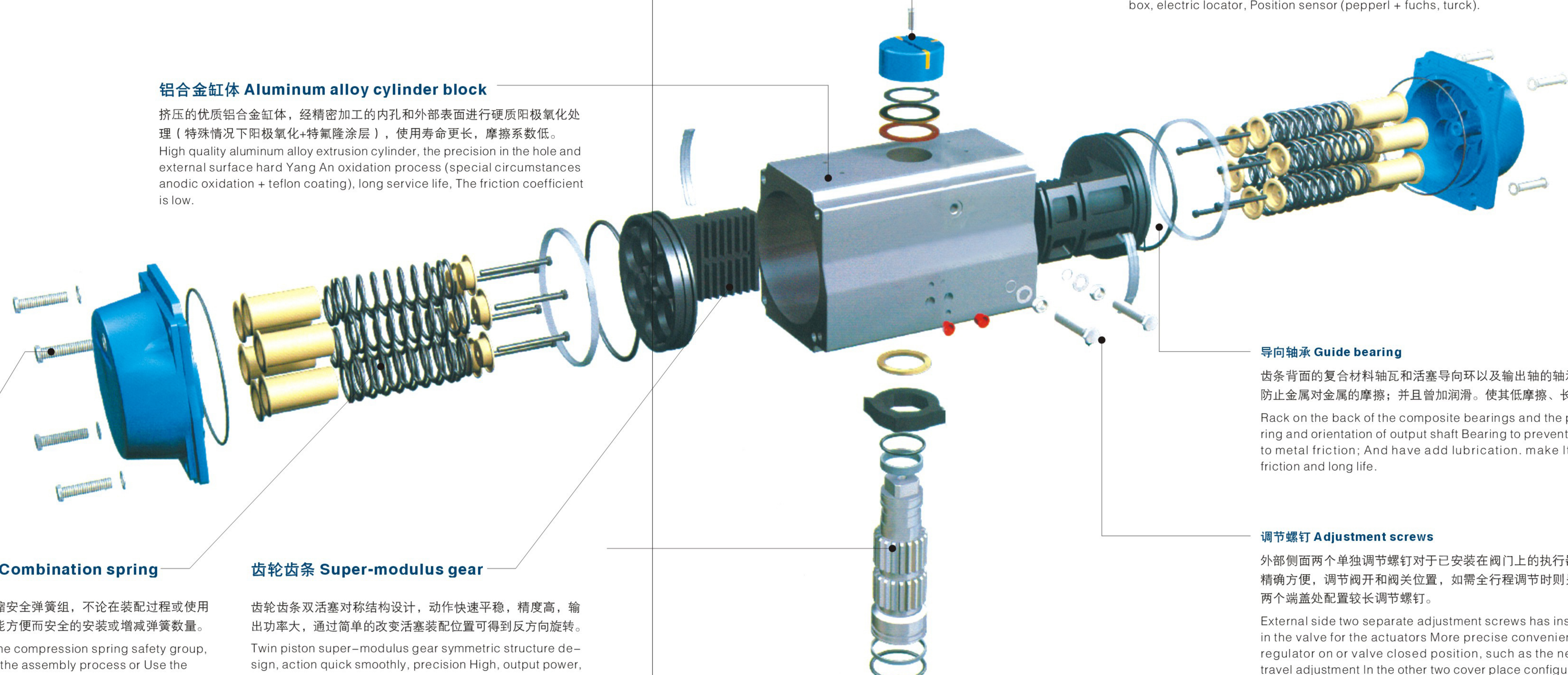
All of the dual role of single function and implementation, ware, have a phase With the cylinder and cover, very convenient through the spring or removed Spring to change the mode of action.



气源接口 Air interface

气源接口符合NUMAR标准，可直接安装NUMAR标准电磁阀。
Air interface meet NUMAR standards, can be directly mounted NUMAR standard solenoid valves.





铝合金缸体 Aluminum alloy cylinder block

挤压的优质铝合金缸体，经精密加工的内孔和外部表面进行硬质阳极氧化处理（特殊情况下阳极氧化+特氟隆涂层），使用寿命更长，摩擦系数低。
High quality aluminum alloy extrusion cylinder, the precision in the hole and external surface hard Yang An oxidation process (special circumstances anodic oxidation + teflon coating), long service life, The friction coefficient is low.

端盖螺栓 Cover bolts

所有的紧固件均采用不锈钢材料，长期抗腐蚀。
All the fastening pieces are made of stainless steel Material, longterm corrosion.

组合弹簧 Combination spring

组合式预压缩安全弹簧组，不论在装配过程或使用现场中，都能方便而安全的安装或增减弹簧数量。
Combined the compression spring safety group, no matter in the assembly process or Use the scene, convenient and safe to install or increase or decrease in the play Reed quantity.

齿轮齿条 Super-modulus gear

齿轮齿条双活塞对称结构设计，动作快速平稳，精度高，输出功率大，通过简单的改变活塞装配位置可得到反方向旋转。
Twin piston super-modulus gear symmetric structure design, action quick smoothly, precision High, output power, through a simple change the piston assembly location To the rotation direction.

连接标准 Connection standard

连接部分符合全新国际标准规范ISO5211，DIN3337(F03-F05)使产品安装具有互换性、通用性。
Connect with international standards of new ISO5211, DIN3337 (F03-F05) make product installation interchangeable, generality.

指示器 indicator

多功能位置指示器，现场可视化指示，符合VDI/VDE 3845、NAMUR标准槽，能安装并输出所有附件，如限位开关盒、电气定位器、位置传感器（倍加福、图尔克）。
Multifunctional position indicator, the visualization instructions, meet VDI/VDE 3845, NAMUR standard slot, can install and Output all accessories, such as limit switch box, electric locator, Position sensor (pepperl + fuchs, turck).

导向轴承 Guide bearing

齿条背面的复合材料轴瓦和活塞导向环以及输出轴的轴承等为防止金属对金属的摩擦；并且曾加润滑。使其低摩擦、长寿命。
Rack on the back of the composite bearings and the piston ring and orientation of output shaft Bearing to prevent metal to metal friction; And have add lubrication. make Its low friction and long life.

调节螺钉 Adjustment screws

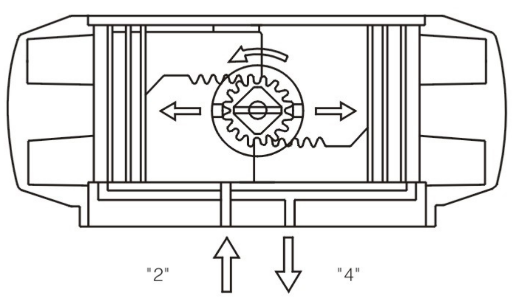
外部侧面两个单独调节螺钉对于已安装在阀门上的执行器更是精确方便，调节阀开和阀关位置，如需全行程调节时则另外在两个端盖处配置较长调节螺钉。
External side two separate adjustment screws has installed in the valve for the actuators More precise convenient, the regulator on or valve closed position, such as the need to travel adjustment In the other two cover place configuration is long adjustment screws.

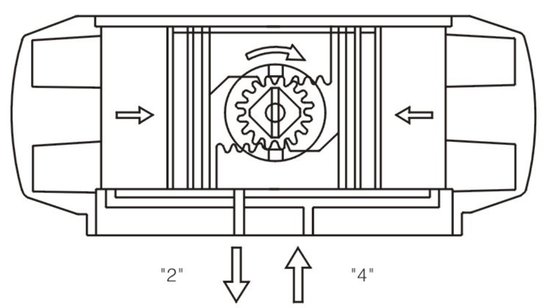
◆ 工作原理 Working principle

At型双作用式工作原理 AT Type Double Role Type Work 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 air pressure from carbon monoxide (2) into the cylinder piston ZhongQiang between two, two separate cylinder piston to both ends direction on both ends of the gas chamber air through the air (4) releasing, at the same time make two piston rack synchronous belt Dynamic output shaft (gear) counter-clockwise. And from the exhaust air pressure (4) into the cylinder ends when gas chamber, make two piston cylinder to middle direction, and in the middle of the air through the exhaust gas cavity (2) releasing, at the same time Make two piston rack synchronous drive the output shaft (gear) clockwise. (if the piston direction, relative installation output shaft into reverse rotation)

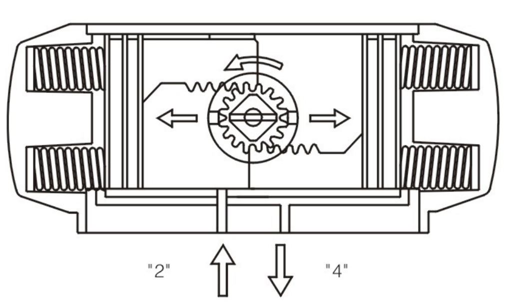


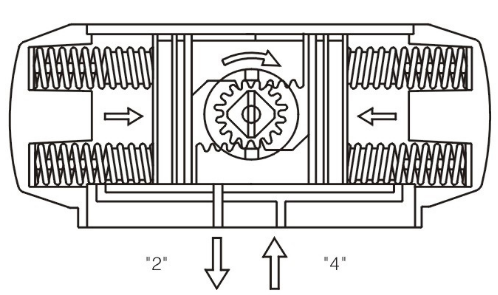


AT(S)系列单作用工作原理 AT (S) Series Single Function Principle

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。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。（如果把活塞相反方向安装，弹簧复位时输出轴变为反向旋转）。

When air pressure from carbon monoxide (2) into the cylinder piston ZhongQiang between two, two separate cylinder piston to both ends direction on both ends of the gas chamber air through the air (4) releasing, at the same time make two piston rack synchronous belt Dynamic output shaft (gear) counter-clockwise. In the air pressure after electromagnetic valve reversing, the two piston cylinder in spring bounce to the middle direction, and in the middle of the air from the exhaust gas cavity (2) eduction, at the same time Two piston rack synchronous drive the output shaft (gear) clockwise. (if the piston installed in the opposite direction, spring reset output shaft into reverse rotation).





◆ 产品选型与输出扭矩 Product selection and output torque

执行器选用 Actuators choose

选用气动执行器时，在已确定阀门的扭矩上再增加安全值，水蒸气或非润滑的液体介质增加25%安全值；非润滑的浆料液体介质增加30%安全值；非润滑的干气介质增加40%安全值；非润滑用气体输送的颗粒粉料介质增加60%安全值；对于清洁、低摩擦的润滑介质增加20%安全值（上述安全值为本公司理论推荐，仅供参考）。

Choose pneumatic actuators, in already determine valve to secure value increases torque, vapor or the lubrication of the liquid medium increase 25% secure value; The lubrication of liquid medium size increase 30% secure value; The lubrication The dry gas medium increase 40% secure value; The lubrication with gas transportation powder particles of the medium increase 60% secure value; For clean, low friction lubrication medium increase 20% secure value (the secure value for the company theory push Hired, only supplies the reference).

双作用式执行器选用示例 Double role type actuator choose examples

当控制一个需要扭矩200Nm的球阀，气源压力只有0.5MPa，介质为非润滑的水蒸气，考虑到安全因素，增加25%安全值等于250Nm，按双作用输出扭矩表查找气源压力0.5MPa，然后沿该列垂直查找等于或相近的扭矩数据，选268Nm，再沿该行向左查找其型号，选择AT125型。

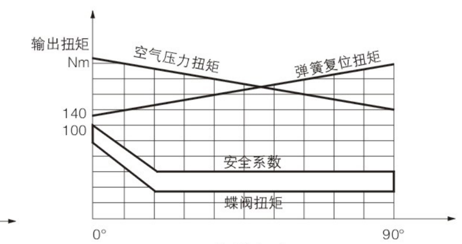
When the control a need to 200 Nm torque ball valves, air pressure is only 0.5 MPa, medium is the lubrication of water vapor, considering the safety factor, adds 25% secure value is equal to 250 Nm, according to the dual action output torque meter Search air pressure is 0.5 MPa, then along the vertical search column is equal to or of close torque data, choose 268 Nm, along the left the bank again find its model, the choice AT125 type.

单作用式执行器选用示例 Single function type actuator choose examples

当控制一个需要100Nm的蝶阀，气源压力为0.5MPa，介质为非润滑的干燥气体，考虑到安全因素，增加40%安全值等于140Nm，按单作用输出扭矩表查找弹簧复位终点得到相近扭矩140.4Nm，然后沿该行向左查找气源压力0.5MPa的终点扭矩171.7Nm，必须考虑气源压力扭矩和弹簧复位扭矩相对力平衡，再沿该行向左查找其型号和弹簧数量，选择AT145S型、10只弹簧。

When the control a need to 100 Nm butterfly valve, air pressure is 0.5 MPa, medium is the lubrication of dry gas, for security reasons, increase 40% secure value is equal to 140 Nm, according to the single function output torque table lookup Spring return end get similar 140.4 Nm torque, then the search along the left air pressure is 0.5 MPa end torque 171.7 Nm, must consider air pressure torque and spring return torque relative force balance, then along the Do find its model and the left spring quantity, the choice AT145S type, 10 only spring.

旋转角度
AT125 0.5MPa



旋转角度
AT(K)145 0.5MPa 10只弹簧

◆ 双作用输出力矩表（Nm）Double role output torque table (Nm)

型号	0.4MPa	0.5MPa	0.6MPa	0.7MPa
AT52	13.9	17.4	20.9	24.3
AT63	22.7	28.4	34.0	39.7
AT75	45.0	56.3	67.5	78.8
AT88	70.8	88.5	106.2	123.9
AT100	102.9	128.6	154.3	180.0
AT115	166.3	207.8	249.4	291.0
AT125	214.3	267.9	321.5	375.0
AT145	336.4	420.5	504.6	588.8
AT160	438.9	548.6	658.3	768.1
AT180	592.5	740.6	888.8	1036.9
AT200	922.9	1028.7	1234.4	1440.1
AT245	1440.7	1800.9	2161.1	2521.3
AT265	2006.6	2508.3	3009.9	3511.6
AT330	3604	4504	5405	6306
AT400	6671	8339	10007	11674

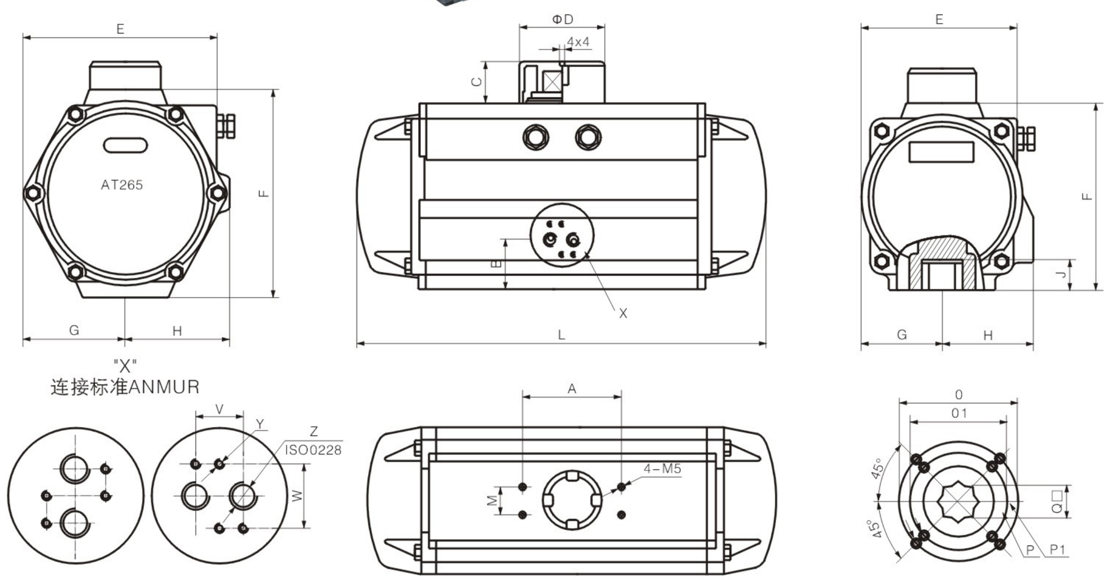
◆ 单作用输出力矩表(Nm) Single function output torque table (Nm)

气源压力		0.4MPa		0.5MPa		0.6MPa		0.7MPa		弹簧输出力矩	
		气源克服弹簧输出力矩（N.m）									
型号	弹簧数量	0° 开始	90° 结束	0° 开始	90° 结束	0° 开始	90° 结束	0° 开始	90° 结束	0° 开始	90° 结束
AT52S	5									6.2	4.1
	6	9.0	6.5							7.4	4.9
	7	8.2	5.2	11.7	8.7					8.7	5.7
	8	7.3	4.0	10.8	7.5	14.3	11.0			9.9	6.6
	9	6.5	2.8	10.0	6.3	13.5	9.8			11.1	7.4
	10	5.7	1.5	9.0	5.0	12.7	8.5	16.1	11.9	12.4	8.2
	11			8.4	3.8	11.9	7.3	15.3	10.7	13.6	9.0
	12			7.6	2.5	11.1	6.0	14.5	9.4	14.9	9.8
AT63S	5	15.9	11.0							11.7	6.8
	6	14.5	8.7	20.2	14.4					14.0	8.2
	7	13.1	6.4	18.8	12.1					16.3	9.6
	8	11.8	4.0	17.5	9.7	23.1	15.3			18.7	10.9
	9			16.1	7.4	21.7	13.0			21.0	12.3
	10			14.7	5.1	20.3	10.7	26.0	16.4	23.3	13.7
	11			13.4	2.7	19.0	8.3	24.7	14.0	25.7	15.0
	12					17.6	6.0	23.3	11.7	28.0	16.4
AT75S	5									22.7	13.5
	6	28.8	17.7							27.3	16.2
	7	26.2	13.2	37.5	24.5					32.8	18.8
	8	23.5	8.7	34.8	20.0	46.0	31.2			36.3	21.5
	9	20.8	4.1	32.1	15.4	43.3	26.6			40.9	24.2
	10			29.4	10.9	40.6	22.1	51.9	33.4	45.4	26.9
	11			26.7	6.0	37.9	17.5	49.2	28.8	50.0	29.6
	12			24.0	1.8	35.2	13.0	46.5	24.3	54.5	32.3
AT88S	5									32.1	18.4
	6	48.7	32.3							38.5	22.1
	7	45.0	25.9	62.7	43.6					44.9	25.8
	8	41.3	19.5	59.0	37.2	76.7	54.9			51.3	29.5
	9	37.6	13.1	55.3	30.8	73.0	48.5			57.7	33.2
	10	33.9	6.6	51.6	24.3	69.3	42.0	87.1	59.8	64.2	36.9
	11			47.9	17.9	65.6	35.6	83.4	53.4	70.6	40.6
	12			44.2	11.5	61.9	29.2	79.7	47.0	77.0	44.3
AT100S	5									39.0	16.6
	6	83.0	56.0							46.9	19.9
	7	79.7	48.2	105.4	73.9					54.7	23.2
	8	76.4	40.4	102.1	66.1	127.8	91.8			62.5	26.5
	9	73.1	32.6	98.8	9.3	124.5	84.0			70.3	29.8
	10	69.8	24.8	95.5	50.5	121.2	76.2	146.9	101.9	78.1	33.1
	11	66.4	17.0	92.1	42.7	117.8	68.4	143.5	87.1	85.9	36.5
	12			88.8	34.9	114.5	60.6	140.2	86.3	93.7	39.8
AT115S	5									72.7	40.1
	6	118.2	79.1							87.2	48.1
	7	110.2	64.5	151.7	106.0					101.8	56.1
	8	102.1	50.0	143.6	91.5	185.2	133.1			116.3	64.2
	9	94.1	35.5	135.6	77.0	177.2	118.6			130.8	72.2
	10	86.1	20.9	127.6	62.4	169.2	104.0	210.8	145.6	145.4	80.2
	11	78.1	6.4	119.6	47.9	161.2	89.5	202.8	131.1	159.9	88.2
	12			111.6	33.4	153.2	75.0	194.8	116.6	174.4	96.2
AT125S	5									87.5	48.1
	6	156.3	109.0							105.0	57.7
	7	146.6	91.5	200.5	145.4					122.5	67.4
	8	137.0	74.0	190.9	127.9	244.5	181.5			140.0	77.0
	9	127.4	56.5	181.3	110.4	234.9	164.0			157.5	86.6
	10	117.8	39.0	171.7	92.9	225.3	146.5	278.8	20.0	175.0	96.2
	11	108.1	21.5	162.0	75.4	215.6	129.0	269.1	182.5	192.5	105.9
	12			152.4	57.9	206.0	111.5	259.5	165.0	210.0	115.5

◆ 单作用输出力矩表(Nm) Single function output torque table (Nm)

气源压力		0.4MPa		0.5MPa		0.6MPa		0.7MPa		弹簧输出力矩	
		气源克服弹簧输出力矩（N.m）									
型号	弹簧数量	0° 开始	90° 结束	0° 开始	90° 结束	0° 开始	90° 结束	0° 开始	90° 结束	0° 开始	90° 结束
AT145S	5									124.4	70.2
	6	252.2	187.1							149.3	84.2
	7	238.2	162.2	322.3	246.3					174.2	98.2
	8	224.1	137.4	308.2	221.5	392.3	305.6			199.0	112.3
	9	210.1	112.5	294.2	196.6	378.3	280.7			223.9	126.3
	10	196.0	98.6	280.1	171.7	364.2	255.8	448.4	340.0	248.8	140.4
	11	182.0	62.7	266.1	146.8	350.2	230.9	434.4	315.1	273.7	154.4
	12			262.1	121.9	336.2	206.0	420.4	290.2	298.6	168.4
AT160S	5									185.2	106.0
	6	311.8	216.6							222.3	127.1
	7	290.6	179.6	400.3	289.3					259.3	148.3
	8	269.4	142.5	379.1	252.2	488.8	361.9			296.4	168.5
	9	248.2	105.5	357.9	215.2	467.6	324.9			333.4	190.7
	10	227.0	68.4	336.7	178.1	446.4	287.8	556.2	397.6	370.5	211.9
	11	205.8	31.4	315.5	141.1	425.2	250.8	535.0	360.6	407.5	233.1
	12			294.3	104.0	404.0	213.7	513.8	323.5	444.6	254.3
AT180S	5									266.1	160.4
	6	400.0	273.1							319.4	192.5
	7	367.9	219.9	516.0	368.0					372.6	224.6
	8	335.8	166.7	483.9	314.8	632.1	463.0			425.8	256.7
	9	303.8	113.5	451.9	261.6	600.1	409.8			479.0	288.7
	10	271.7	60.2	419.8	208.3	568.0	356.5	716.1	504.6	532.3	320.8
	11	239.6	7.0	387.7	155.1	535.9	303.3	684.0	451.4	585.5	352.9
	12			355.6	101.9	503.8	250.1	651.9	398.2	638.7	385.0
AT200S	5									349.4	206.7
	6	574.9	403.6							419.3	248.0
	7	533.5	333.7	739.3	539.5					489.2	289.4
	8	492.2	263.8	698.0	469.6	903.7	675.3			559.1	330.7
	9	450.8	193.9	635.6	399.7	862.3	605.4			629.0	372.1
	10	409.5	124.0	615.3	329.8	821.0	535.5	1026.7	741.2	698.9	413.4
	11	368.1	54.2	573.9	260.0	779.6	465.7	985.3	671.4	768.7	454.8
	12			532.6	190.1	738.3	395.8	944.0	601.5	838.6	496.1
AT245S	5									524.4	334.9
	6	1038.8	811.4							629.3	401.9
	7	971.8	706.5	1332.0	1066.7					734.2	468.9
	8	904.8	601.6	1265.0	961.8	1625.2	1322.0			839.1	535.9
	9	837.8	496.7	1198.0	856.9	1558.2	1217.1			944.0	602.9
	10	770.8	391.9	1131.0	752.1	1491.2	1112.3	1851.4	1472.5	1048.8	669.9
	11	703.8	287.0	1064.0	647.2	1424.2	1007.4	1784.4	1367.6	1153.7	736.9
	12			997.0	542.3	1357.2	902.5	1717.4	1262.7	1258.6	803.9
AT265S	5									705.6	417.0
	6	1506.2	1156.3							850.3	500.4
	7	1422.8	1014.5	1924.5	1516.2					992.1	583.8
	8	1339.5	872.8	1841.2	1374.5	2342.8	1876.1			1133.8	667.1
	9	1256.1	731.1	1757.8	1232.8	2259.4	1734.4			1275.5	750.5
	10	1172.7	589.4	1674.4	1091.1	2176.0	1592.7	2677.7	2094.4	1417.2	833.9
	11	1089.3	447.7	1591.0	949.4	2092.6	1451.0	2594.3	1952.7	1558.9	917.3
	12			1507.6	807.6	2009.2	1309.2	2510.9	1810.9	1700.7	1000.7
AT330S	6	2500	2118	3401	3019					1486	1104
	8	2132	1623	3033	2524	3934	3424	4835	4325	1981	1472
	10			2665	2028	3566	2929	4467	3830	2476	1839
	12					3198	2434	4099	3335	2971	2207
AT400S	6	4637	3701	6305	5369					2970	2034
	8	3959	2711	5627	4379	7294	6047	8962	7715	3960	2712
	10			4949	3389	6616	5057	8284	3725	4949	3390
	12					5938	4067	7606	5735	5939	4069

◆尺寸数据 Dimension data



连接标准ANMUR

AT265~400　AT52~AT240

型号	AT52	AT63	AT75	AT88	AT100	AT115	AT125	AT145	AT160	AT180	AT200	AT240	AT265	AT330	AT400
ISOflange	F04	F05	F05-07	F05-07	F07-10	F07-10	F07-10	F10-12	F10-12	F14	F14	F16	F16	F16	F25
L	140.5	158.5	210.5	247.5	268.5	315	345	408.5	437.5	487	543	633	728	860	1050
B	26.5	30	30.5	32.5	38.5	42.5	45	47.5	52	58.5	62.5	78.5	165	–	–
C	20	20	20	20	20	30	30	30	30	50	50	50	50	50	50
ΦD	40	40	40	40	40	56	56	65	65	80	80	115	115	115	115
E	59	72	84.5	97.5	111	127	136	156.5	169	190.5	213	251	298.5	371	435
F	69	85	102	115	127	145	157	177	196	220.5	245	298.5	330	405	486
G	29	36	42.5	49.5	56	64	69.5	80	88	99	110	131	163.5	206	245
H	41.5	47	52	56.8	67	77	82	91.5	99	105	112	131	166	207	252
Jmin	12	16	16	19	19	24	24	29	29	38	38	38	48	55	55
A	80	80	80	80	80	80	80	80	80	130	130	130	130	130	130
M	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
ΦO1	42	50	50	50	70	70	70	102	102	140	140	165	165	165	254
ΦO	–	–	70	70	102	102	102	125	125	–	–	–	–	–	–
P1	4-M6	4-M6	4-M6	4-M6	4-M8	4-M8	4-M8	4-M10	4-M10	4-M16	4-M16	4-M20	4-M20	4-M20	8-M16
P	–	–	4-M8	4-M8	4-M10	4-M10	4-M10	4-M12	4-M12	–	–	–	–	–	–
□Q	11	14	14	17	22	22	22	27	27	36	36	36	46	55	55
V	24	24	24	24	24	24	24	24	24	24	24	40	40	40	40
W	32	32	32	32	32	32	32	32	32	32	32	45	45	45	45
Y	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M6x10	M6x10	M6x10	M6x10
Z	1/8"	1/8"	1/8"	1/8"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"	1/2"	1/2"	1/2"

◆AW气动执行器系列主要特点 AW pneumatic actuators series main characteristics

AW气动执行器分为双作用和单作用（弹簧复位），两个分体气缸，输出扭矩大，动作灵活平稳；活塞杆镀硬铬，有很好的耐磨性；所有滑动部位之间配有无油润滑轴承或导向环以减低摩擦系数，延长使用寿命。

AW气动执行器的C型曲线特性输出扭矩更适用于大口径球阀，蝶阀。

AW the pneumatic actuators are divided into the double function and single function (spring return), two fission cylinder, the output torque, flexible motion smoothly; The piston rod hard chromium plating, have very good wear resistance; All between sliding parts with No oil lubricating bearings or guide to reduce friction coefficient ring, prolong service life.

AW pneumatic actuators C curve characteristics output torque more suitable to the large diameter ball valves, butterfly valve.

◆标准参数 Standard parameters

基本设计	Basic design
气动双气缸双活塞拔叉式转动机构	Pneumatic cylinder piston fork double double type turn institutions
型号AWxx=双作用式	Type AWxx = double role type
型号AWxxS=单作用式（弹簧复位）	Type AWxxS = single function type (spring return)
回转角度	Turning Angle
双作用式=90°	Double role type = 90 °
单作用式=90°	Single function type = 90 °
从两端可调节角度5° ~+5°	From both adjustable Angle five ° ~ + 5 °
气源压力	Air pressure
0.4~0.7MPa（最大1.0MPa）	0.4 ~ 0.7 MPa (maximum 1.0 Mpa)

◆型号编制 Model establishment

例 AW 28 S

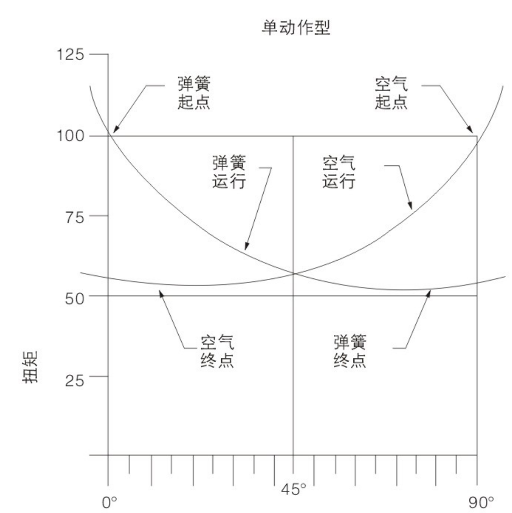
1、气动执行器 Pneumatic actuators

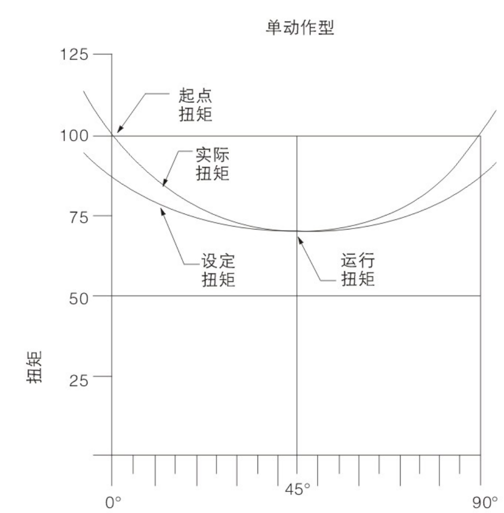
2、气缸内径尺寸规格 Inner diameter cylinder size13/17/20a/20/25/28

3、单作用式（弹簧复位）Single function type (spring return)

SY　4、手操作机构 Hand operator

◆输出扭矩特性 Output torque characteristics





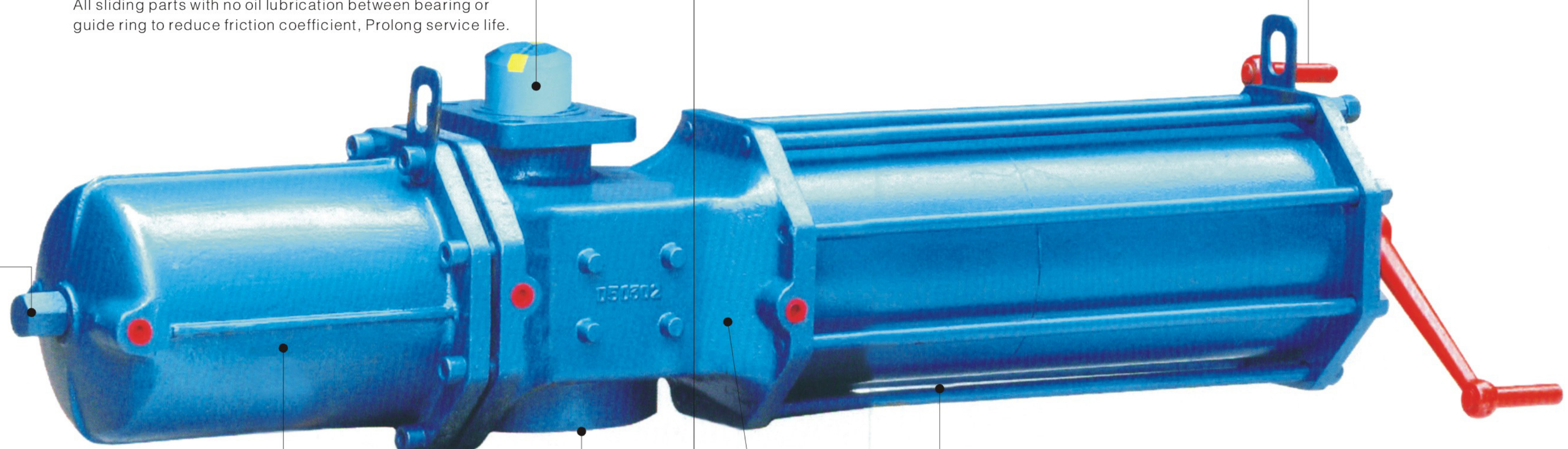
◆用途与原理

执行器及附件的功能用途
双动式气动执行器：对阀门开启和关闭的两位式控制。
弹簧复位式：在电路、气路切断或有故障时，阀门自动开启或关闭。
单电控电磁阀：供电时阀门打开或关闭，断电时关闭或打开（可提供防爆型）。
双电控电磁阀：一个线圈得电时阀门打开，另一个线圈得电时阀门关闭，有记忆功能（可提供防爆型）。
限位开关回讯器：远距离传送阀门开关位置的信号（可提供防爆型）。
电气定位器：根据电流信号（标准4~20mA）大小对阀门的介质流量调节控制。（可提供防爆型）。
气动定位器：根据气压信号（标准0.02~0.1MPa）大小对阀门的介质流量调节控制。
电气转换器：将电信号转换为气压信号，与气动定位器配套使用（可提供防爆型）。
气源处理三联件：包括空气减压阀、过滤器、油雾器、对气源稳压、清洁、运动部件润滑作用。
手动操作机构：自动控制在不正常情况下可以手动操作。

输出轴 Output shaft

输出扭矩大，动作灵活平稳；活塞杆镀硬铬，有很好的抗磨性；所有滑动部位之间配有无油润滑轴承或导向环以降低磨擦系数，延长使用寿命。

The output torque, flexible motion smoothly; The piston rod hard chromium plating, have very good abrasion resistance; All sliding parts with no oil lubrication between bearing or guide ring to reduce friction coefficient, Prolong service life.



调节螺丝 Adjusting screw

外部侧面两个单独调节螺钉对于已安装在阀门上的执行器更是精确方便，调节阀门的开位和关位，如需全行程调节时则另外在两个端盖处配置较长调节螺钉。

External side two separate adjustment screws has installed in the valve for the actuator is more accurate party Then, the regulating valves open and shut a bit, if need to all the other travel adjustmen t in two cover place Configuration is long adjustment screws.

缸体 Cylinder

材料采用球墨铸铁缸体，内表面涂覆特氟隆，经密加工的内孔，使用寿命更长，摩擦系数低。

The material are the nodular cast iron block, the inner surface coating teflon, JingMi processing hole, service life more Long, low friction coefficient.

连接尺寸 Connection size

符合国际ISO5211标准

Accord with international ISO5211 standards

◆Purpose and principles

Actuators and accessories function USES
Double acting type pneumatic actuators: open and close the valve of two type control.
Spring return type: in the circuit, cut off or faulty gas path, the valve to be automatic open or closed.
Single electric solenoid valves: power supply valve open or closed, shut down or cut open (can provide explosion–proof type).
Double electric solenoid valves: a coil when power to open the valve, and the other a coil when power to valve closed, have memory (can provide explosion–proof type).
Limit switches back to–device: long distance transmission valve switch position of the signal (can provide explosion–proof type).
Electrical locator: according to the current signal (standard 4 ~ 20 mA) size on the medium flow adjusting control valve. (can provide explosion–proof type).
Pneumatic locator: according to pressure signal (standard 0.02 ~ 0.1 MPa) size on the medium flow adjusting control valve.
Electrical converter: will the current signals are converted to pressure signal, and pneumatic locator supporting the use (can provide explosion–proof type).
Air processing sanlian thing: including air pressure reducing valve, filter, oil mist of voltage source device, cleaning, moving parts, lubrication.
Manual operator: automatic control in not normally can manually.

手柄 handle

在电路、气路切断或有故障时，阀门依靠弹簧自动关闭或打开，在转动手柄可以打开或关闭阀门。

In a circuit, cut off or faulty gas path, the valve spring to shut down or open on, In turn the handle to open and close the valve.

弹簧缸 Spring cylinder.

在电路、气路切断或有故障时，阀门依靠弹簧自动关闭或打开（未经专业人士指导不能拆卸）

In a circuit, cut off or faulty gas path, the valve spring to shut down or open on (without the guidance of professional pers–onage can't remove)

箱体 cabinet

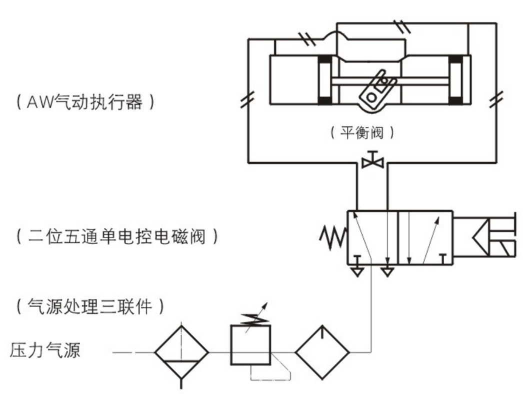
采用球墨铸铁

nodular cast iron

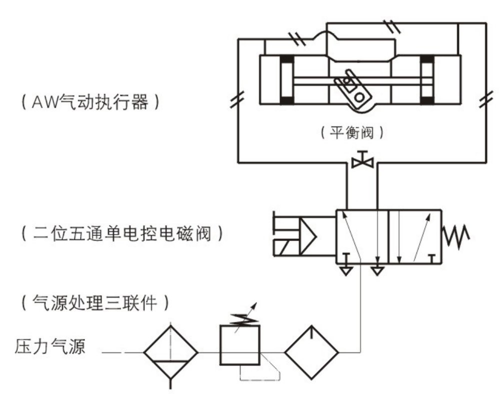
◆配管原理 Pipe principle

双作用式配管原理 Double role type pipe principle

常闭式（通电开启型）

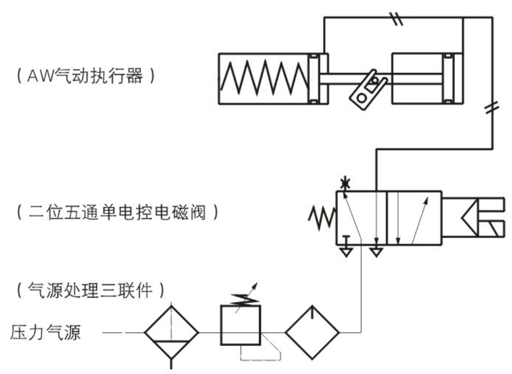


常开式（通电切断型）

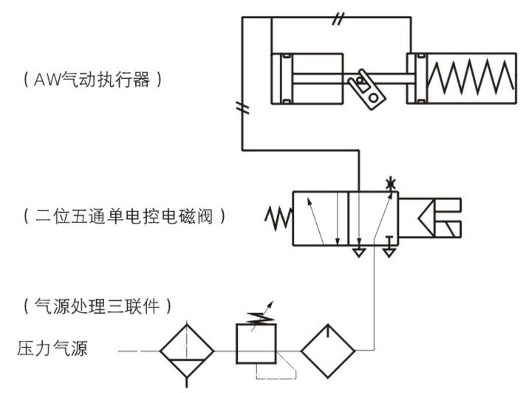


单作用式配管原理 Single function type pipe principle

常闭式（通电开启型）

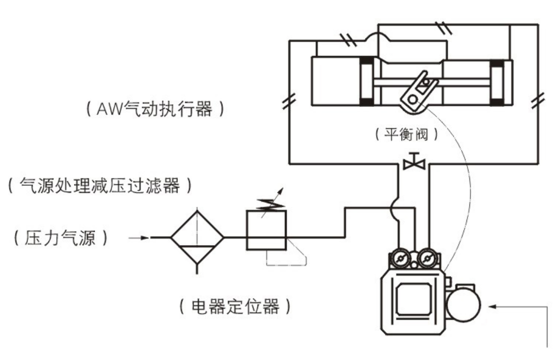


常开式（通电切断型）



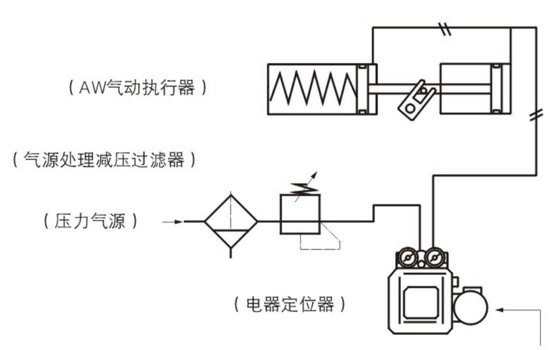
调节式配管原理（配电气定位器）Adjustment type pipe principle (with electrical locator)

双作用式



输入电流信号4-20mADC

单作用式



输入电流信号4-20mADC

◆输出力矩表（Nm） Output torque table (Nm)

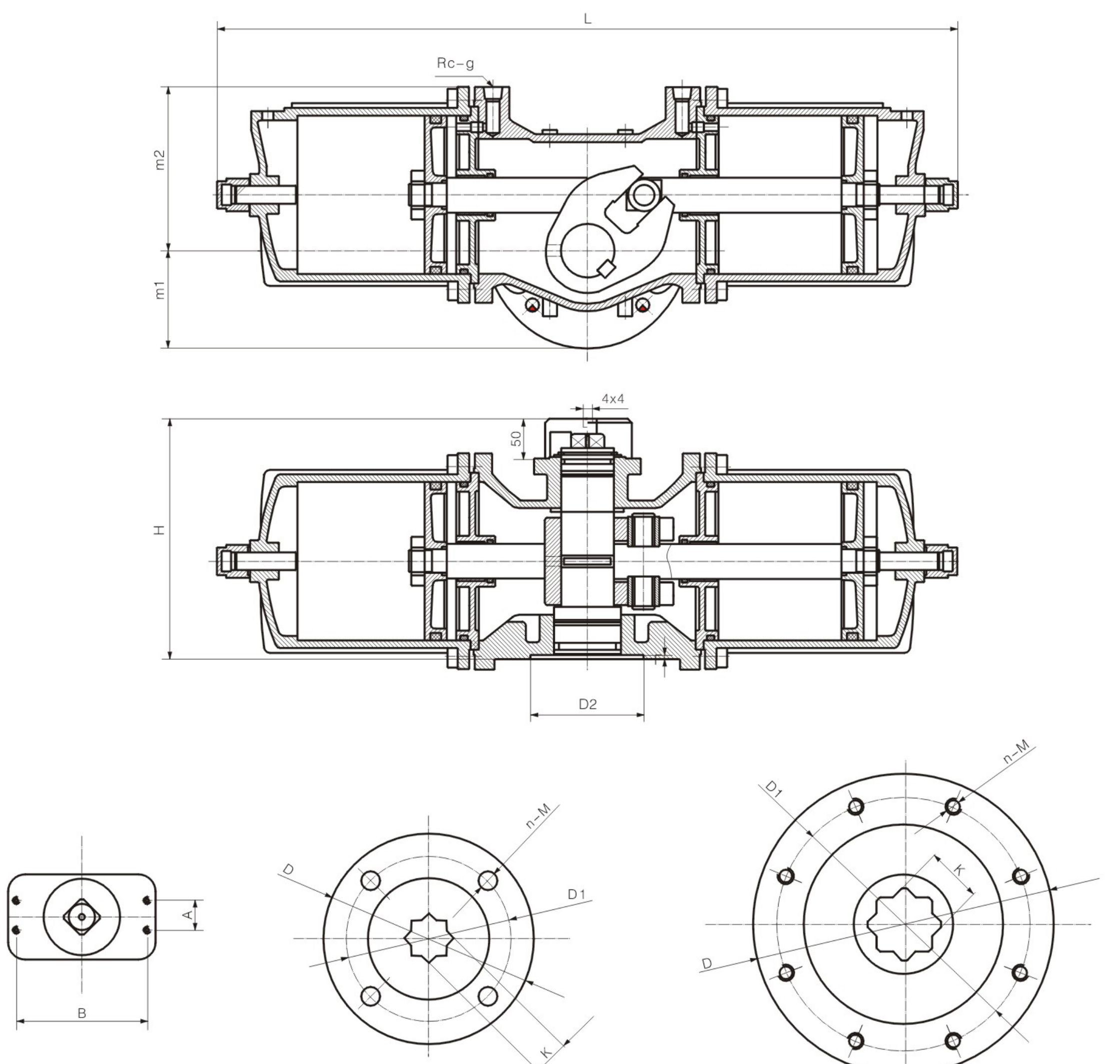
双作用式输出扭矩 Double role type output torque

型号	气源压力 Mpa									
	0.3MPa		0.4MPa		0.5MPa		0.6MPa		0.7MPa	
	起始/终点	运行扭矩	起始/终点	运行扭矩	起始/终点	运行扭矩	起始/终点	运行扭矩	起始/终点	运行扭矩
AW13	599	355	799	474	999	592	1198	711	–	–
AW17	1285	763	1714	1017	2142	1271	2570	1525	–	–
AW20A	1601	1130	2135	1507	2669	1884	3203	2260	–	–
AW20	2866	1701	3821	2269	4777	2836	5730	3400	–	–
AW25	4918	2919	6558	3892	7869	4865	9837	5838	–	–
AW28	6871	4080	9162	5440	11453	6800	13740	8160	–	–
AW355	14000	8310	18670	11080	23337	13850	28005	16620	32672	19390
AW490	32550	17250	43400	23000	54250	28750	65100	34500	75950	40250
AW600	49305	29580	65740	39440	82175	49300	98610	59160	115045	69020
AW700	67048	38180	89400	50910	111750	63648	134100	76377	156450	89107

单作用式输出扭矩 Single function type output torque

型号	弹簧输出扭矩		气源压力 Mpa							
			0.4MPa		0.5MPa		0.6MPa		0.7MPa	
	起始	终点	起始	终点	起始	终点	起始	终点	起始	终点
AW13S	402	280	519	337	719	537	918	736	–	–
AW17S	1024	650	1060	690	1488	1118	1916	1546	–	–
AW20AS	1336	799	1380	805	1870	1333	2404	1867	–	–
AW20S	2328	1450	2371	1493	3327	2449	4280	3402	–	–
AW25S	4110	2540	4310	2770	5174	4520	7700	6280	–	–
AW28S	5362	3500	5660	3800	7950	6090	10237	8377	–	–
AW355S	12300	7380	12386	7467	17320	12422	22254	17377	27188	22332
AW355SS	17500	10000	18644	11120	25859	18183	33073	25247	40288	32310
AW490S	28020	16740	24451	16212	34214	27045	43977	37877	53741	48709
AW600S	48100	34100	43257	31306	61744	50189	80232	69073	98719	87956

◆双作用外形尺寸 Double role shape dimension

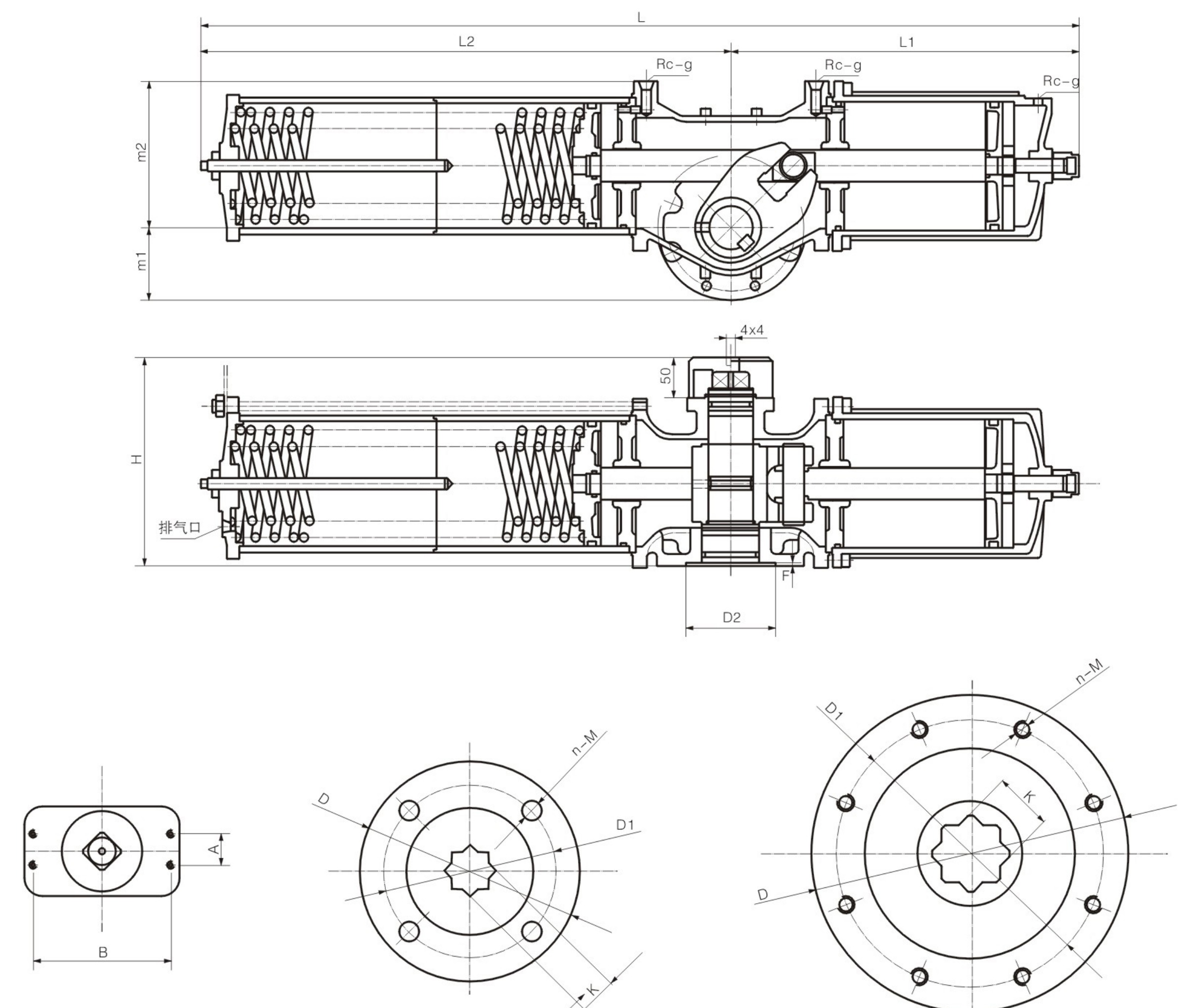


AW13 17 20a 20

AW25
AW28

型号	L	H	气源接口 Rc-g	m1	m2	D	D1	n-M	K	D2	F	A	B
AW13	593	185	3-1/4"	88	132	Φ175	Φ140	4-M16	□27 深 30	Φ100	4	30	80
AW17	782	240	3-3/8"	105	175	Φ205	Φ165	4-M20	□36 深 40	Φ120	4	30	130
Aw20a	888	240	3-3/8"	105	175	Φ205	Φ165	4-M20	□36 深 40	Φ120	4	30	130
AW20	1098	285	3-3/8"	115	232	Φ230	Φ165	4-M20	□46 深 50	Φ130	4	30	130
AW25	1309	360	3-1/2"	150	278	Φ300	Φ254	8-M16	□55 深 60	Φ200	4	30	130
AW28	1427	360	3-1/2"	150	300	Φ350	Φ298	8-M20	□55 深 60	Φ230	4	30	130

◆单作用外形尺寸 Single function shape dimension

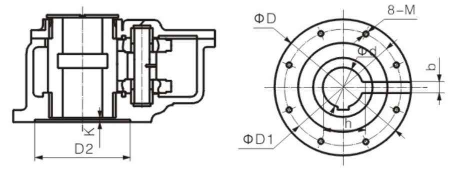


AW13S 17S
20aS 20S

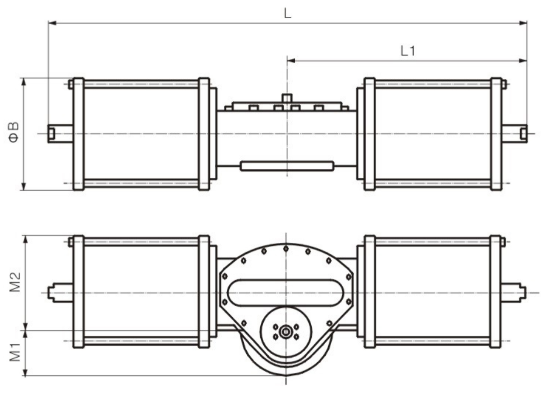
AW25S
AW28S

型号	L	H	L2	H	Rc-g	m1	m2	D	D1	n-M	K	D2	F	A	B
AW13S	870	324	546	185	3-1/4"	88	132	Φ175	Φ140	4-M16	□27 深 30	Φ100	4	30	80
AW17S	988	378	610	240	3-3/8"	105	175	Φ205	Φ165	4-M20	□36 深 40	Φ120	4	30	130
AW20aS	1263	378	885	240	3-3/8"	105	175	Φ205	Φ165	4-M20	□36 深 40	Φ120	4	30	130
AW20S	1415	530	885	285	3-3/8"	115	232	Φ230	Φ165	4-M20	□46 深 50	Φ130	4	30	130
AW25S	1695	655	1040	360	3-1/2"	150	278	Φ300	Φ254	8-M16	□55 深 60	Φ200	4	30	130
AW28S	1840	680	1160	360	3-1/2"	150	300	Φ350	Φ298	8-M20	□55 深 60	Φ230	4	30	130

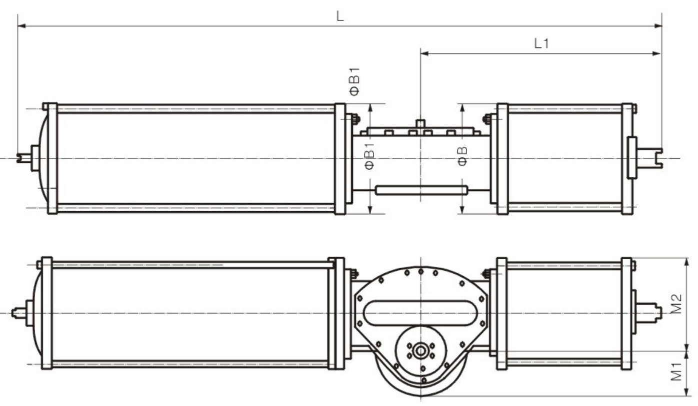
◆ AW355 AW700 无手动装置 No Manual Device



双动作型 Double movement type



单动作型 Single movement type



型号	L	L1	B	B1	m1	m2	D	D1	D2	d	h	b	8-M	空气接口
AW355	1926	963	440	440	175	370	350	298	230	100	106.4	28	8-M20	RC1/2
AW490	2200	1100	572	572	200	466	415	356	260	120	127.4	32	8-M30	RC3/4
AW600	2610	1305	700	700	250	570	475	406	300	140	148.4	36	8-M36	RC3/4
AW700	2610	1305	800	800	250	620	475	406	300	150	158.4	36	8-M36	RC1
AW355S	2518	963	440	440	175	370	350	298	230	100	106.4	28	8-M20	RC1/2
AW355SS	2710	1015	572	440	175	395	350	298	230	100	106.4	28	8-M20	RC1/2
AW490S	3050	1100	572	572	200	466	415	356	260	120	127.4	32	8-M30	RC3/4
AW600S	3620	1305	700	700	250	570	475	406	300	140	148.4	36	8-M36	RC3/4

◆ 型号构成 Model Constitute

AW	355	S	T	K	HW	STC
1	2	3	4	5	6	7

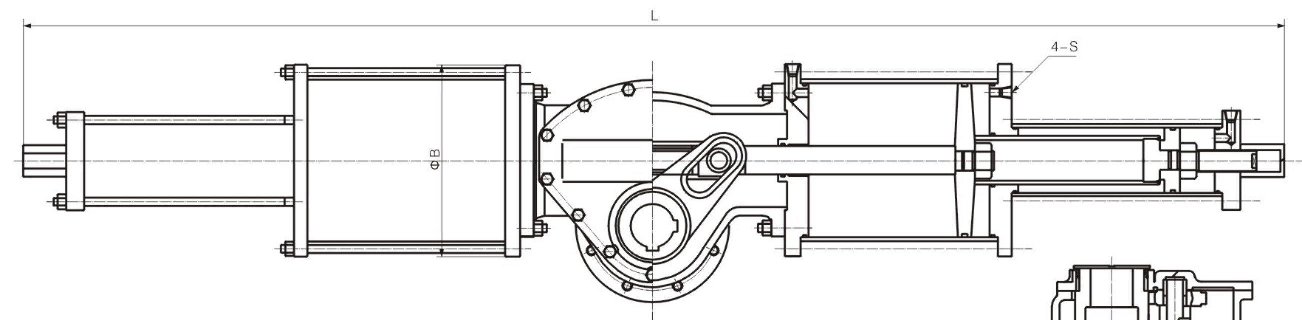
1、驱动器系列：AW
2、驱动器规格：13~700
3、动作型式：
无代号（双动作型）
S（单动作标准型）
SS（单动作加力型）
工作压力0.3~0.7MPa
4、特殊代码（选择）
B：螺柱螺母不锈钢
C：控制用
F：高频率
M：高温（0~120℃）
T：低温（-45~60℃）
N：空气接品 N P T
Q：高速

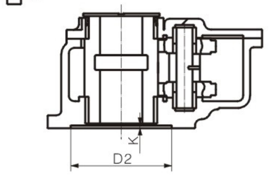
1, drives series: AW
2, drive specification: 13-700
3, action type:
No code (double movement type)
S (single action standard)
SS (single action strength type)
Working pressure 0.3 ~ 0.7 MPa
4, special code (choice)
B: screw column nuts stainless steel
C: control with
F: high frequency
M: high temperature (0 ~ 120 ℃)
T: low temperature (45 to 60 ℃)
N: air meet product N P T
Q: high speed

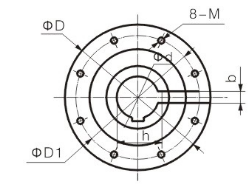
5、输出方式
无代号：轴输出
K：孔输出
6、附属机构（选择）
无代号：无附属装置
HG：双动作用手轮蜗轮装置（AW13~AW28）
HW：单动作侧面手轮装置（AW13S~AW28S）
HY：液压手装置动（AW355S~AW700S）
7、气源故障位置（单作用型）
STC：弹簧关
STO：弹簧开

5, output way
No code: output shaft
K: hole output
6, subsidiary bodies (choice)
No code: no accessory device
HG: double action using the handwheel worm gear device (AW13 ~ AW28)
HW: single action side the handwheel device (AW13S ~ AW28S)
HY: hydraulic hand device move (AW355S ~ AW700S)
7, air source fault location (single function type)
STC: spring shut
STO: spring open

◆ 双作用带液压手动装置外形及安装尺寸
Double Role With Hydraulic Manual Device Appearance And Installation Size

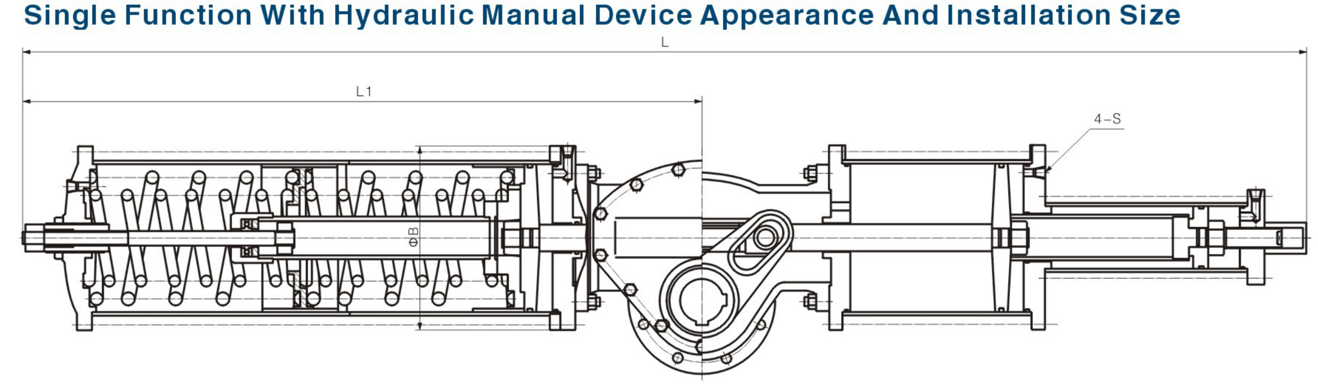






序号	L	B	D	D1	d	h	b	8-M	D2	K	4-S
AW355	2864	440	350	298	100	106.4	28	8-M20	230	5	1/2"
AW490	3328	562	415	356	120	127.4	32	8-M30	260	5	3/4"
AW600	3918	700	475	406	140	148.4	36	8-M36	300	8	3/4"
AW700	3918	800	475	406	150	158.4	36	8-M36	300	8	1"

◆ 单作用带液压手动装置外形及安装尺寸
Single Function With Hydraulic Manual Device Appearance And Installation Size



型号	L	L1	B	D	D1	d	h	b	D2	K	8-M	4-S
AW355S	2987	1555	440	350	298	100	106.4	28	230	5	8-M20	1/2"
AW355SS	3127	1695	440	350	298	100	106.4	28	230	5	8-M20	1/2"
AW490S	3614	1950	572	415	356	120	127.4	32	260	5	8-M30	3/4"
AW600S	4274	2315	700	475	406	140	148.4	36	300	8	8-M36	3/4"

◆ 订货须知 Notes to order

气动阀门是复杂的自动化控制仪表，有多种气动元件组成，用户控制需要，详细选择下列附件，并在技术合同上注明。

Pneumatic valve is a complex automation control instrument, has many kinds of pneumatic components, the user control need, detailed the following attachments choice, and in technology specified on the contract.

1、气动执行器：
A、双作用式型号 B、单作用式型号
2、电磁阀：
A、单控电磁阀 B、双控电磁阀
C、使用电压 D、防爆型。
3、型号反馈：
A、机械开关节 B、接近式开关节
C、输出电流信号 D、使用电压
4、其它

1, pneumatic actuators:
A, double role type B, single function model of model
2, the electromagnetic valve:
A, single control electromagnetic valve, electromagnetic valve B double control
C, the use of voltage D, explosion-proof type.
3, model feedback:
A, B, A mechanical joints close to type open joint
C, output current signal D, use voltage
4, other