江苏华工自控阀门有限公司

JIANGSU HUAGONG AUTOMATIC CONTROL VALVE CO., LTD

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HGZK

华工自控阀门







气动阀门系列

江苏华工自控阀门有限公司

JIANGSU HUAGONG AUTOMATIC CONTROL VALVE CO.,LTD

公司简介
COMPANY PROFILE

江苏华工自控阀门有限公司是一家专业研发、制造和销售气动阀门、气动执行器、电动阀门、电动执行器及成套阀门的生产型企业。

本公司技术力量雄厚，检测设备精良，加工设备齐全，产品性能卓越。公司产品采用现代化CAD三维设计系统优化设计，不仅外形美观，而且质量可靠。设备大量采用精密加工中心机床，确保零部件精度，形成大批量生产能力。广泛应用于各类调节阀、球阀、蝶阀、闸阀、浆液阀、截止阀、旋塞阀等阀门，是实现管道远距离集中或单独控制工业自动化管路的理想设备。

公司本着为用户提供系统配套选型和价格性能比的配置方案，以高科技为先导、充分发挥技术优势，进行一条龙的科学管理，不断推出高品质的新产品。秉承“以质量求生存，以科技求进步，以品种求发展，以管理求效益，以诚信求市场”的经营宗旨，贯彻“质量和服务是企业的生命”的原则，将不断应用新技术、新工艺、新材料、积极开发新品种为广大用户提供更优质的产品和更完善的售后服务。为建立现代化企业而努力奋斗!

Jiangsu Huagong Automatic Control Valve Co., Ltd. is a professional R & D,manufacturing and sales of pneumatic valves, pneumatic actuators, electric valves andelectric valves.It is a manufacturer of actuators and complete sets of valves.

The company has strong technical force, excellent testing equipment, complete processing equipment and excellent product performance. The company's products adoptmodern CAD 3D.The optimized design of the design system is not only beautiful in appearance, but also reliable in quality. The equipment adopts a large number of precision machining centers and machine tools to ensure theprecision of partsTo form a mass production capacity. It is widely used in various control valves,ball valves,butterfly valves, gate valves, slurry valves, stop valves, plug valves,etcThe valve is an ideal equipment to realize remote centralized or independent controlof industrialautomation pipeline.

In order to provide users with system matching selection and configuration scheme with price performance ratio, the company takes high technologyas the guide and gives full play to its technicaladvantages,Carry out one-stop scientific management and constantly launch high-quality new products.Adhering to the principle of "quality for survival, science and technology for progress, variety for development"With the business tenet of "development, management for benefit, integrity for market",and the principle of "quality andservice are the life of the enterprise", we will notWe will continue to apply new technologies, new processes, new materials, and actively developnew varieties to provide customers with better products and better after-sales services.Strive to build a modern enterprise!

应用领域
APPLICATION AREA

专业的精神、创新的理念、务实的作风、科研的实力、精良的设备，缔造了华工自控阀门的全新形象。本系列产品广泛应用于给排水、消防、高层建筑、暖通、电力、石化、化工、冶金等行业。

产品匠心独运，声誉美扬，颇受用户信赖。

Professional spirit,innovative ideas,pragmatic style,scientific research strength, sophisticated equipment, created a new image of HuGong automatic control valve.This series of products are widely used in water supplyand drainage,fire control,high-rise building,HVAC, power,petrochemical,chemical,metallurgical and other industries.

Unique products,the reputation of the United States, the popular user trust.



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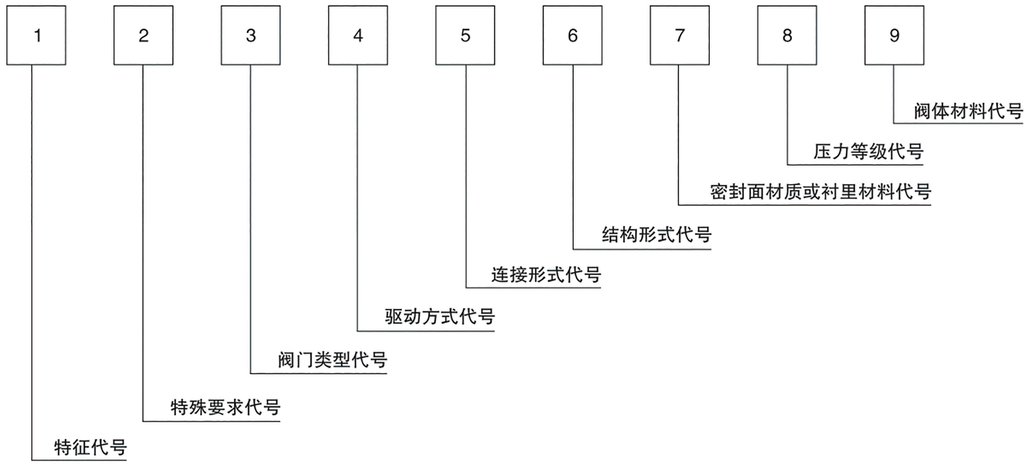
70 气动对夹式刀形闸阀HGB(C)Z673H(F、X)-PN10、Class150

74 气动穿透式刀形闸阀JLB(C)Z673H(F、X)-PN10、Class150

76 GB标准气动法兰截止阀HGJ641H(W、F、Y)-PN16~40

79 气动放料阀HGQFL-PN6~40;Class150~300

阀门型号编制说明



1、特征代号：本公司特征代号为JL。

2、特殊要求代号：K=抗硫型，D=低温型，B=保温夹套型，L=加长阀杆型，Y=氧气专用型，W=卫生型、V=V型球。

3、阀门类型代号：Z=闸阀，J=截止阀，Q=球阀，D=蝶阀，G=隔膜阀，X=旋塞阀。

4、驱动方式代号：6=气动，6S=气动加手动，6K＝气动常开式，6B＝气动常闭式。

5、连接形式代号：1=内螺纹连接，2=外螺纹连接，4=法兰连接，6=焊接，7=对夹连接，8=卡箍连接。

6、结构形式代号：

闸阀 1=楔式单闸板，2=楔式双闸板，0=楔式弹性闸板，3=平行单闸板，4=平行式双闸板。

截止阀 1=直通式，4=角式，5=直流式。

球阀 1=浮动直通式，4=浮动式L型三通，5=浮动式T型三通，7=固定直通式，8=固定式T型三通，9=固定式L型三通，0=半球直通。

蝶阀 1=中线直板式，3=三维偏心式。

隔膜阀 1=屋脊式，3=截止式。

放塞阀 3=直通式，4=T型三通式，5=四通式。

7、密封面材质或衬里材料代号：F=聚四氟乙烯，P=对位聚苯，N=尼龙，X=橡胶，H=合金钢，Y=硬质合金，J=衬橡胶，F_4=衬聚四氟乙烯。

8、压力等级代号：

GB标准公称压力MPa(兆帕)的10倍(Kgf/cm^2)单位表示6.0，10，16，25，40，64，100。

ANSI标准压力等级为Class150，300，400，600。

JIS标准压力等级为10K，20K，40K。

9、阀体材料代号：

C=WCB；P=CF8(304)00Cr18Ni10，(321)1Cr18Ni9Ti；PL=CF3(304L)00Cr18Ni10；R=CF8M(316)0Cr17Ni12Mo2；RL=CF3M(316L)00Cr17Ni14Mo2；I=WC6，1Cr5Mo；F=LCB；N=LC3；S=PVC、RPP。

(相对应锻件材质不详细列举)

注：PN≥2.5MPa及压力等级≥Class150的碳素铸钢阀体，省略本代号。

例1：JLQ641F-16P-DN50

表示公称压力为1.6MPa、通径DN50毫米的气动法兰连接全通径浮动式不锈钢球阀。

例2：JLD6S73H-150-4"

表示压力等级Class150、通径4英寸的气动带手动对夹式金属硬密封三偏心碳钢蝶阀。

系列气动球阀说明

产品用途及结构特点

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

系列气动球阀结构特点为：

● **气动执行器：**采用新型AT系列气动执行器，其结构获得国家实用新型专利(ZL 2009 2 0175421.2)有双作用式和单作用式(弹簧复位)，采用齿轮齿条式结构传动，性能更安全可靠；大口径阀门采用AW系列气动执行器，采用拨叉式结构传动，结构合理，输出扭矩大，有双作用式和单作用式(弹簧复位)；详细参数请参考本公司AT系列及AW系列气动执行器样本。

● **壳体结构：**球阀的阀体根据使用需要及实际工况条件的不同可设计为铸造结构、锻造结构及全焊接结构三种形式，其中全焊接结构的球阀主要适用于埋地使用。

● **独特的阀座密封结构：**

浮动式球阀采用唇型弹性密封圈结构设计，其结构获得国家实用新型专利(ZL 2009 2 0270133.5)更能保证密封的可靠性及使用寿命，对于低压、超低压或真空工况用球阀，采用板簧加截的阀座密封结构，能确保球阀长期使用的可靠密封。中、高温球阀的阀座材料可选用对位聚苯或金属材料。

固定式球阀根据压力的大小、介质性质及密封要求的不同而选择球前密封结构、球密封结构或前后双密封结构。中、高温球阀的阀座材料可选用对位聚苯或金属材料。

● **阻塞与排泄：**当阀门处于关闭状态时，上下流侧的阀座使液体阻断，阀体中腔的积滞物可以通过排泄装置进行排泄。

● **自动泄压结构：**当中腔压力出现异常升高现象时，中腔介质能依靠本身的推力推动阀座而自动泄压，从而确保阀体的安全。

● **阀杆的可靠密封：**阀杆采用有倒密封的下装式结构，倒密封的密封力随介质压力的增高而增大，故能确保阀杆的可靠密封，而且，当阀门异常升压时，阀杆不会喷出。

● **防火结构：**根据工况及用户的需要，球阀可设计为防火结构。球阀的耐火设计执行API 6D及JB/T6899等标准的规定，一旦发生火灾而使软密封圈烧损时，球阀的防火结构可阻止介质的大量泄漏，防止火灾的进一步扩大。

● **防静电结构：**当操作阀门时，由于球体和阀座之间的磨擦，会产生静电电荷并积聚在球体上，为防止产生静电火花，特在阀门上设置防静电导出装置，将积聚在球体上的电荷导出。

● **全通径结构及缩径结构：**为满足用户的不同需要，巨良公司球阀产品有全通径及缩径两种系列。全通径球阀的通道内径与管道内径一致，便于管理清扫，而缩径系列球阀的重量相对较轻，但流体阻力仅为相同口径截止阀的1/7左右，故缩径系列球阀的应用前景较为广泛。

产品性能规范

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

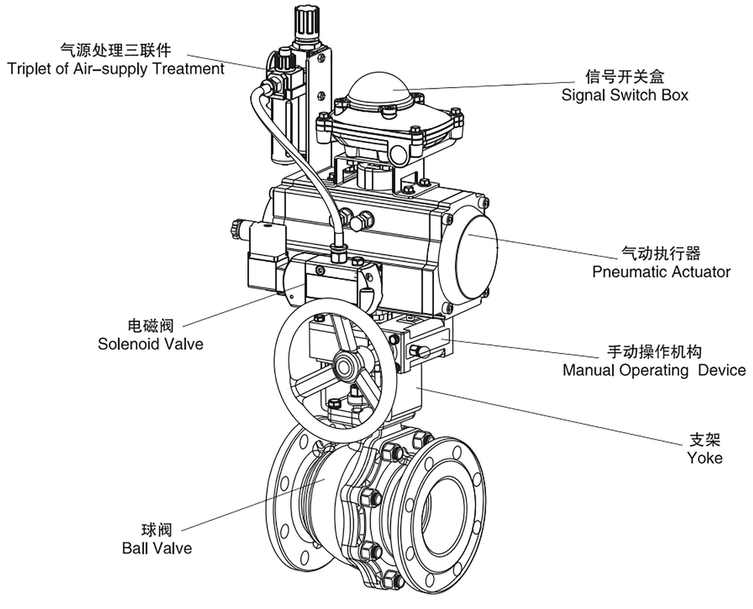
阀座密封材料温度额定值 Temperature Rating of Seat Sealing Material

代号 Code	材料 Material	适用温度(℃)Applicable Temperature
F	增强聚四氟乙烯 Reinforced Polytetrafluoroethylene(PTFE)	–40~180
P	对位聚苯 Para–position polyphenylene	–40~300
N	尼龙 Nylon	–20~80
Y	硬质合金 Hard Alloy	–40~425

附件的选项 Selection of Accessories

根据不同控制和要求可选择下列附件：
切断型附件：單電控電磁閥、雙電控電磁閥、限位開關回訊器
调节型附件：電氣定位器、氣動定位器、電氣轉換器。
气源处理附件：空氣過濾減壓閥、氣源處理三聯件。
手动机构：HGSD系列

According to the different control and the request can choose the following accessories:
Cut–off Accessories:single electrically–controlled magnetic valve,double electrically–controlled Solenoid valve, signal saver of limit switch.
Adjusting Accessories:electropneumatic positioner,pneumatic positioner, electric–pneumatic converter.
Air–supply Treatment Accessories:air–filtering reducing valve, F.R.L. Combination Unit.
Manual Device:ZTSD Series



气动法兰式浮动球阀

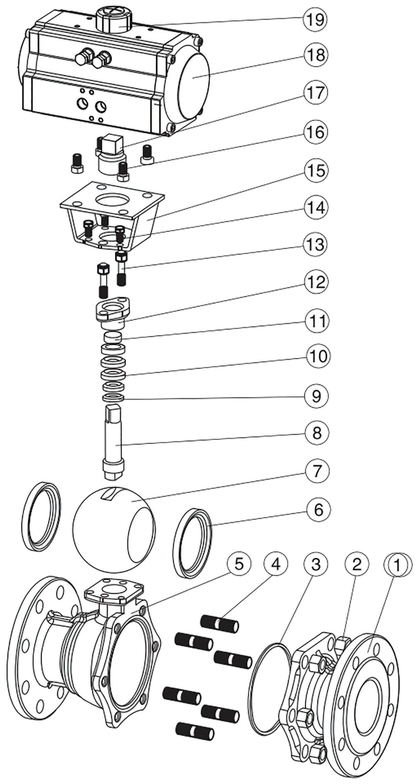
型号：HGQ641F(N、P、H、Y)
口径：DN15~300mm
压力：1.6、2.5、4.0、6.4Mpa；150Lb、300Lb、600Lb；10K、20K
结构：浮动式
尺寸标准：国标、美标、日标
阀体材质：碳钢（WCB)、不锈钢(CF8、CF8M、CF3、CF3M)
阀座材料：聚四氟乙烯（F）、对位聚苯PPL(P)、尼龙（N）、硬质合金（H、Y)
作用方式：双作用、单作用（弹簧复位）
控制方式：开关型、调节型
附件选择：电磁阀、定位器、限位开关、
气源处理三联件、手动机构

Pneumatic flange ball valve
Model:HGQ641F(N, P, H, Y)
Bore:DN15~300mm
Pressure:1.6, 2.5, 4.0, 6.4Mpa;
150Lb, 300Lb, 600Lb;10K, 20K
Structure:Floating
Dimension standard:GB,
American standard, Japanese Standard
Body material:carbon steel (WCB),
stainless steel(CF8, CF8M, CF3,CF3M)
Seat material:PTFE, PPL, N, H, Y
Mode of action:the double-acting/single-acting
type (spring reposition) of pneumatic actuator
Control:Suitch type,Adjust type
Selection of Accessories: solenoid valve Locator,
Limit switch, F.R.L. Combination Unit, Manual Device.



GB标准气动球阀HGQ641F(N、P、H、Y)–PN16、25、40
Pneumatic Ball Valve of GB Standard





技术规范 Technique norm

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

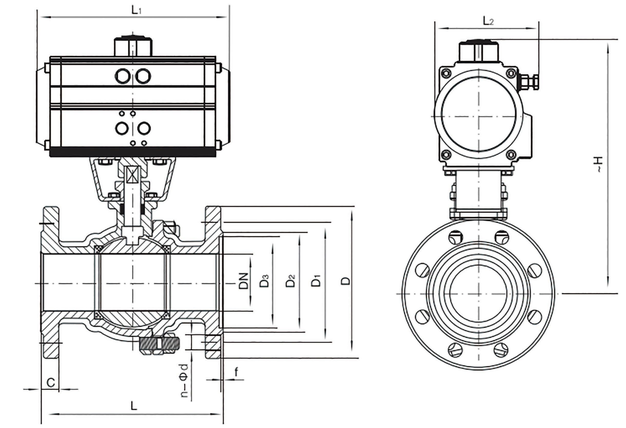
※注：系列球阀结构长度及连接法兰尺寸可根据用户要求设计制造。
Note：The structural length and connecting flange size of ball valve series can be designed and manufactured as per users' requirements.

主要零件材质表 Form of Main Parts Materials

序号 No.	零件名称 Name of parts	材质 Material		
		C	P	R
1	右阀体 Right valve	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
2	螺母 Nut	35	1Cr18Ni9Ti	1Cr18Ni9Ti
3	垫片 Gasket	PTFE、石墨金属复合垫 Graphite metal composite pad		
4	螺栓 Screw	35	1Cr18Ni9Ti	1Cr18Ni9Ti
5	阀体 Body	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
6	阀座 Seat	PTFE、尼龙(Nylon)、对位聚苯(PPL) 硬质合金 Hard Alloy		
7	球体 Ball	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
8	阀杆 Stem	1Cr13	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
9	垫片 Gasket	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
10	填料 Packing	PTFE、柔性石墨 Flexible Graphite		
11	衬套 Bushing	PTFE复合轴承 Composite bearings		
12	压盖 Gland	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
13	螺栓 Screw	35	1Cr18Ni9Ti	1Cr18Ni9Ti
14	螺栓 Screw	35	1Cr18Ni9Ti	1Cr18Ni9Ti
15	连接支架 Connecting Yoke	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni9Ti
16	螺栓 Screw	35	1Cr18Ni9Ti	1Cr18Ni9Ti
17	连接套 Connecting Set	35	1Cr18Ni9Ti	1Cr18Ni9Ti
18	气动装置 Pneumatic Device	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工况条件或用户特殊要求设计选用。
Note：The structural length and connecting flage sizel of ball valve series can be designed and manufactured as per uses'requirements.

GB标准气动球阀 HGQ641F(N、P、H、Y)–PN16
Pneumatic Ball Valve of GB Standard



主要外形及连接法兰尺寸HGQ641F(N、P、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						执行器型号 Actuator Model
	L	L1	L2	~H	D	D1	D2	C	f	n–Φd	
15	130	145/169	75/84	204/235	95	65	46	14	2	4–Φ14	AT052DR/AT063SC
20	140	145/169	75/84	209/240	105	75	56	16	2	4–Φ14	AT052DR/AT063SC
25	150	145/201	75/98	214/256	115	85	65	16	2	4–Φ14	AT052DR/AT075SC
32	165	169/209	84/108	257/277	140	100	76	18	2	4–Φ18	AT063DR/AT083SC
40	180	201/242	98/120	274/292	150	110	84	18	3	4–Φ18	AT075DR/AT092SC
50	200	209/275	108/132	290/300	165	125	99	20	3	4–Φ18	AT083DR/AT105SC
65	220	242/275	120/132	310/335	185	145	118	20	3	4–Φ18	AT092DR/AT105SC
80	250	275/332	132/148	346/368	200	160	132	20	3	8–Φ18	AT105DR/AT125SC
100	280	332/385	148/165	378/410	220	180	156	22	3	8–Φ18	AT125DR/AT140SC
125	320	385/450	165/188	425/450	250	210	184	22	3	8–Φ18	AT140DR/AT160SC
150	360	450/562	188/215	468/531	285	240	211	24	3	8–Φ22	AT160DR/AT190SC
200	400	562/646	235/272	583/618	340	295	266	24	3	12–Φ22	AT210DR/AT240SC

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

主要外形及连接法兰尺寸HGQ641F(N、P、H、Y)-PN25(2.5MPa)Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size				连接法兰尺寸 Connecting Flange Size						执行器型号 Actuator Model
	L	L_1	L_2	~H	D	D_1	D_2	C	f	n-Φd	
15	130	145/169	75/84	204/235	95	65	46	14	2	4-Φ14	AT052DR/AT063SC
20	140	145/169	75/84	209/240	105	75	56	16	2	4-Φ14	AT052DR/AT063SC
25	150	169/201	84/98	257/265	115	85	65	16	2	4-Φ14	AT063DR/AT075SC
32	165	201/242	98/120	269/287	140	100	76	18	3	4-Φ18	AT075DR/AT092SC
40	180	209/242	108/120	282/292	150	110	84	18	3	4-Φ18	AT083DR/AT092SC
50	200	242/275	120/132	290/325	165	125	99	20	3	4-Φ18	AT092DR/AT105SC
65	220	242/332	120/148	310/357	185	145	118	22	3	8-Φ18	AT092DR/AT125SC
80	250	332/385	148/165	346/368	200	160	132	24	3	8-Φ18	AT125DR/AT140SC
100	280	332/507	148/188	418/443	235	190	156	24	3	8-Φ22	AT125DR/AT160SC
125	320	450/507	188/215	460/503	270	220	184	26	3	8-Φ26	AT160DR/AT190SC
150	360	507/562	215/235	518/563	300	250	211	28	3	8-Φ26	AT190DR/AT210SC
200	400	646/722	272/305	583/618	360	310	274	30	3	12-Φ26	AT240DR/AT270SC

主要外形及连接法兰尺寸HGQ641F(N、P、H、Y)-PN40(4.0MPa)Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size				连接法兰尺寸 Connecting Flange Size							执行器型号 Actuator Model
	L	L_1	L_2	~H	D	D_1	D_2	D_3	C	f	n-Φd	
15	130	145/169	75/84	204/235	95	65	46	40x4	14	2	4-14	AT052DR/AT063SC
20	140	169/201	84/98	240/252	105	75	56	51x4	16	2	4-14	AT063DR/AT075SC
25	150	201/209	98/108	257/265	115	85	65	58x4	16	2	4-14	AT075DR/AT083SC
32	180	201/242	98/120	269/287	140	100	76	66x4	18	3	4-18	AT075DR/AT092SC
40	200	209/242	108/120	282/292	150	100	84	76x4	18	3	4-18	AT083DR/AT092SC
50	220	242/275	120/132	300/325	165	125	99	88x4	20	3	4-18	AT092DR/AT105SC
65	250	275/332	132/148	335/357	185	145	118	110x4	22	3	8-18	AT105DR/AT125SC
80	280	332/385	148/165	368/400	200	160	132	121x4	24	3	8-18	AT125DR/AT140SC
100	320	385/450	165/188	418/506	235	190	156	150x4.5	24	3	8-22	AT140DR/AT160SC
125	400	507/562	215/235	445/548	270	220	184	176x4.5	26	3	8-26	AT190DR/AT210SC
150	400	562/646	235/272	563/598	300	250	211	204x4.5	28	3	8-26	AT210DR/AT240SC
200	502	722	305	636/666	375	320	284	260x4.5	34	3	12-30	AT270DR

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

技术规范 Technique norm

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

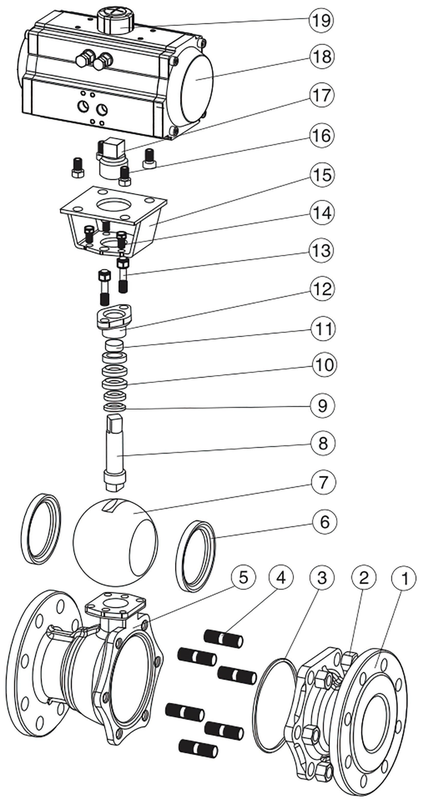
※注：系列球阀结构长度及连接法兰尺寸可根据用户要求设计制造。
Note：The structural length and connecting flange size of ball valve series can be designed and manufactured as per users'requirements.

主要零件材质表 Form of Main Parts Materials

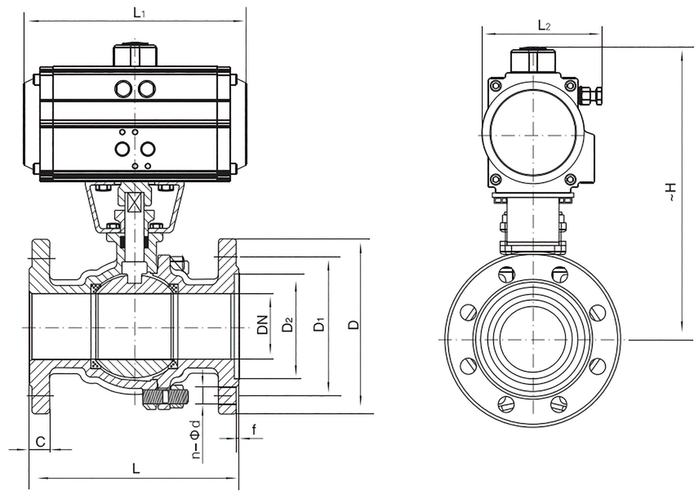
序号 No.	零件名称 Name of parts	材质 Material		
		C	P	R
1	右阀体 Right valve	A216-WCB	A351-CF8	A351-CF8M
2	螺母 Nut	A194-2H	A276-304	A276-316
3	垫片 Gasket	PTFE、石墨金属复合垫 Graphite metal composite pad		
4	螺栓 Screw	A193-B7	A276-304	A276-316
5	阀体 Body	A216-WCB	A351-CF8	A351-CF8M
6	阀座 Seat	PTFE、尼龙(Nylon)、对位聚苯(PPL) 硬质合金 Hard Alloy		
7	球体 Ball	A182-F304	A182-F304	A182-F316
8	阀杆 Stem	A276-410	A276-304	A276-316
9	垫片 Gasket	A276-304	A276-304	A276-316
10	填料 Packing	PTFE、柔性石墨 Flexible Graphite		
11	衬套 Bushing	PTFE复合轴承 Composite bearings		
12	压盖 Gland	A216-WCB	A351-CF8	A351-CF8M
13	螺栓 Screw	A194-2H	A276-304	A276-304
14	螺栓 Screw	A194-2H	A276-304	A276-304
15	连接支架 Connecting Yoke	A351-CF8	A351-CF8	A351-CF8
16	螺栓 Screw	A194-2H	A276-304	A276-304
17	连接套 Connecting Set	A351-CF8	A351-CF8	A351-CF8
18	气动装置 Pneumatic Device	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工况条件或用户特殊要求设计选用。
Note：The main spare parts and sealing-ring materials of ball valve series can be designed for options as per real working conditions and users'special requirements.





ANSI标准气动球阀 HGQ641F(N、P、H、Y)–Class150
Pneumatic Ball Valve of ANSI Standard



主要外形及连接法兰尺寸HGQ641F(N、P、H、Y)–Class 150 Main Outline and Connecting Flange Size

公称通径 Nominal diameter		外形尺寸 Outline Size				连接法兰尺寸 Connecting Flange Size						执行器型号 Actuator Model
mm	in	L	L1	L2	~H	D	D1	D2	C	f	n–Φd	
15	1/2	108	145/169	75/84	204/235	89	60.5	35	10	1.6	4–Φ15	AT052DR/AT063SC
20	3/4	117	145/169	75/84	209/240	99	69.9	43	10.5	1.6	4–Φ15	AT052DR/AT063SC
25	1	127	169/201	84/98	214/256	108	79.2	51	11.5	1.6	4–Φ15	AT063DR/AT075SC
32	1 1/4	140	201/209	98/108	257/277	117	88.9	64	13	1.6	4–Φ15	AT075DR/AT083SC
40	1 1/2	165	209/275	108/132	274/292	127	98.6	73	14.5	1.6	4–Φ15	AT083DR/AT105SC
50	2	178	242/275	120/132	290/300	152	120.7	92	16	1.6	4–Φ19	AT092DR/AT105SC
65	2 1/2	190	275/332	132/148	310/335	178	139.7	105	18	1.6	4–Φ19	AT105DR/AT125SC
80	3	203	275/332	132/148	346/368	191	152.47	127	19.5	1.6	4–Φ19	AT105DR/AT125SC
100	4	229	332/385	148/165	378/410	229	190.5	157	24	1.6	8–Φ19	AT125DR/AT140SC
125	5	356	385/450	165/188	425/450	254	215.9	186	24	1.6	8–Φ22	AT140DR/AT160SC
150	6	394	507/562	215/235	468/531	279	241.3	216	25.5	1.6	8–Φ22	AT190DR/AT210SC
200	8	457	646/722	272/305	583/618	343	298.5	270	28.5	1.6	8–Φ22	AT240DR/AT270SC

※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。
※注：以上执行器配置及数据均采用软密封(F、N、P)阀门，硬密封阀门的配置及数据请咨询本公司。
Note：The structural length and connecting flange size of ball valve series can be designed and manufactured as per users' requirements.
Note：Data XXX/XXX represent respectively the double–acting/single–acting type(spring reposition)of pneumatic actuator
Note：The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model
Note：the above actuator configuration and data all use soft–sealed valves (F，N，P) and hard–sealed valves,or consulting us if you have more questions.

ANSI标准气动球阀HGQ641F(N、P、H、Y)–Class300/400
Pneumatic Ball Valve of ANSI Standard

主要外形及连接法兰尺寸HGQ641F(N、P、H、Y)–Class 300 Main Outline and Connecting Flange Size

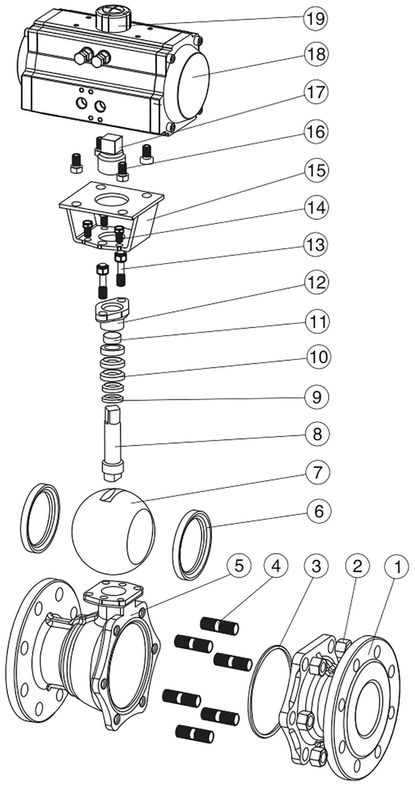
公称通径 Nominal diameter		外形尺寸 Outline Size				连接法兰尺寸 Connecting Flange Size						执行器型号 Actuator Model
mm	in	L	L1	L2	~H	D	D1	D2	C	f	n–Φd	
15	1/2	140	145/169	75/84	204/235	95	65.7	35	14.5	1.6	4–Φ16	AT052DR/AT063SC
20	3/4	152	145/169	75/84	209/240	117	82.5	43	15.8	1.6	4–Φ19	AT052DR/AT063SC
25	1	165	201/209	98/108	214/265	124	88.9	51	17.6	1.6	4–Φ19	AT075DR/AT083SC
32	1 1/4	178	209/242	108/120	269/287	133	98.4	64	19.1	1.6	4–Φ19	AT083DR/AT092SC
40	1 1/2	190	242/275	120/132	282/292	155	114.3	73	20.6	1.6	4–Φ19	AT092DR/AT105SC
50	2	216	275/332	132/148	290/325	165	127	92	22.3	1.6	8–Φ19	AT105DR/AT125SC
65	2 1/2	241	275/332	132/148	310/357	191	149.2	105	25.4	1.6	8–Φ22	AT105DR/AT125SC
80	3	283	332/385	148/165	346/368	210	168.3	127	28.6	1.6	8–Φ22	AT125DR/AT140SC
100	4	305	385/450	165/188	418/443	254	200	157	31.8	1.6	8–Φ26	AT140DR/AT160SC
125	5	381	450/507	188/215	460/503	279	234.9	186	35	1.6	8–Φ26	AT160DR/AT190SC
150	6	403	562/646	235/272	518/563	318	269.9	216	36.6	1.6	12–Φ26	AT210DR/AT240SC
200	8	502	646/722	272/305	583/618	381	330.2	270	41.3	1.6	12–Φ29	AT240DR/AT270SC

主要外形及连接法兰尺寸HGQ641F(N、P、H、Y)–Class 400 Main Outline and Connecting Flange Size

公称通径 Nominal diameter		外形尺寸 Outline Size				连接法兰尺寸 Connecting Flange Size						执行器型号 Actuator Model
mm	in	L	L1	L2	~H	D	D1	D2	C	f	n–Φd	
15	1/2	165	145/201	75/98	204/235	95	65.7	35	14.5	6.4	4–Φ16	AT052DR/AT075SC
20	3/4	190	169/201	84/98	240/252	117	82.5	43	15.8	6.4	4–Φ19	AT063DR/AT075SC
25	1	216	201/242	98/120	257/265	124	88.9	51	17.6	6.4	4–Φ19	AT075DR/AT092SC
32	1 1/4	229	209/275	108/132	269/287	133	98.4	64	20.6	6.4	4–Φ19	AT083DR/AT105SC
40	1 1/2	241	242/332	120/148	282/292	156	114.3	73	22.3	6.4	4–Φ19	AT092DR/AT125SC
50	2	292	275/332	132/148	300/325	165	127	92	25.4	6.4	8–Φ19	AT105DR/AT125SC
65	2 1/2	330	332/450	148/188	335/357	190	149.2	105	28.6	6.4	8–Φ22	AT125DR/AT160SC
80	3	356	365/450	165/188	368/400	210	168.3	127	31.8	6.4	8–Φ22	AT140DR/AT160SC
100	4	406	450/507	188/215	418/506	254	200	157	35	6.4	8–Φ26	AT160DR/AT190SC
125	5	457	507/646	215/272	445/548	279	234.9	186	38.2	6.4	8–Φ26	AT190DR/AT240SC
150	6	495	646/722	272/305	563/598	318	269.9	216	41.3	6.4	12–Φ26	AT240DR/AT270SC
200	8	597	722	305	636/666	381	330.2	270	47.6	6.4	12–Φ29	AT270DR

※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。
※注：以上执行器配置及数据均采用软密封(F、N、P)阀门，硬密封阀门的配置及数据请咨询本公司。
Note：The structural length and connecting flange size of ball valve series can be designed and manufactured as per users' requirements.
Note：Data XXX/XXX represent respectively the double–acting/single–acting type(spring reposition)of pneumatic actuator
Note：The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model
Note：the above actuator configuration and data all use soft–sealed valves (F，N，P) and hard–sealed valves,or consulting us if you have more questions.





技术规范 Technique norm

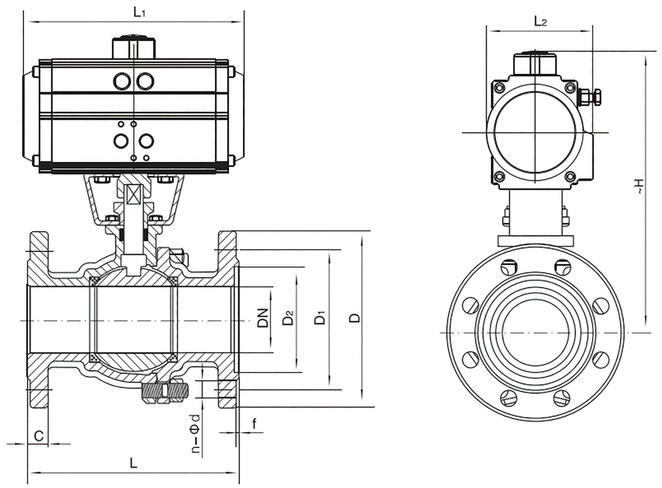
设计依据 Design Basis		JIS标准 Standard
设计标准 Design standard		BS5351
结构长度 Face to face dimension	法兰连接 Flange connecting	JIS B2002
连接法兰尺寸 Connecting Flange Size		JIS B2212、B2213、B2214
试验和检验 Test & inspection		JIS B2003

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

主要零件材质表 Form of Main Parts Materials

序号 No.	零件名称 Name of parts	材 质 Material		
		C	P	R
1	右阀体 Right valve	$SCPH_2$	SCS13	SCS14
2	螺母 Nut	S35C	SUS304	SUS304
3	垫片 Gasket	PTFE、石墨金属复合垫 Graphite metal composite pad		
4	螺栓 Screw	S35C	SUS304	SUS304
5	阀体 Body	$SCPH_2$	SCS13	SCS14
6	阀座 Seat	PTFE、尼龙(Nylon)、对位聚苯(PPL) 硬质合金 Hard Alloy		
7	球体 Ball	SUS304	SUS304	SUS316
8	阀杆 Stem	SUS410	SUS304	SUS316
9	垫片 Gasket	SUS304	SUS304	SUS316
10	填料 Packing	PTFE、柔性石墨 Flexible Graphite		
11	衬套 Bushing	PTFE复合轴承 Composite bearings		
12	压盖 Gland	$SCPH_2$	SCS13	SCS14
13	螺栓 Screw	S35C	SUS304	SUS304
14	螺栓 Screw	S35C	SUS304	SUS304
15	连接支架 Connecting Yoke	SCS13	SCS13	SCS13
16	螺栓 Screw	S35C	SUS304	SUS304
17	连接套 Connecting Set	SCS13	SCS13	SCS13
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工况条件或用户特殊要求设计选用。
Note：The main spare parts and sealing-ring materials of ball valve series can be designed for options as per real working conditions and users'special requirements.



主要外形及连接法兰尺寸HGQ641F(N、P、H、Y)-10K Main Outline and Connecting Flange Size

公称通径 Nominal diameter		外形尺寸 Outline Size				连接法兰尺寸 Connecting Flange Size						执行器型号 Actuator Model
mm	in	L	L_1	L_2	~H	D	D_1	D_2	C	f	n-Φd	
15	1/2	108	145/169	75/84	204/235	95	70	50	12	1	4-Φ15	AT052DR/AT063SC
20	3/4	117	145/169	75/84	209/240	100	75	58	14	1	4-Φ15	AT052DR/AT063SC
25	1	127	169/201	84/98	214/256	125	90	70	14	1	4-Φ19	AT0636DR/AT075SC
32	1 1/4	140	201/209	98/108	257/277	135	100	80	16	2	4-Φ19	AT075DR/AT083SC
40	1 1/2	165	209/275	108/132	274/292	140	105	85	16	2	4-Φ19	AT083DR/AT105SC
50	2	178	242/275	120/132	290/300	155	120	100	16	2	4-Φ19	AT092DR/AT105SC
65	2 1/2	190	275/332	132/148	310/335	175	140	120	18	2	4-Φ19	AT105DR/AT125SC
80	3	203	275/332	132/148	346/368	185	150	130	18	2	8-Φ19	AT105DR/AT125SC
100	4	229	332/385	148/165/	378/410	210	175	155	18	2	8-Φ19	AT125DR/AT140SC
125	5	356	385/450	165/188	425/450	250	210	185	20	2	8-Φ23	AT140DR/AT160SC
150	6	394	450/562	188/235	468/531	280	240	215	22	2	8-Φ23	AT160DR/AT210SC
200	8	457	562/646	235/272	583/618	330	290	265	22	2	12-Φ23	AT210DR/AT240SC

※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。
※注：以上执行器配置及数据均采用软密封(F、N、P)阀门，硬密封阀门的配置及数据请咨询本公司。
Note：The structural length and connecting flange size of ball valve series can be designed and manufactured as per users' requirements.
Note：Data XXX/XXX represent respectively the double-acting/single-acting type(spring reposition)of pneumatic actuator
Note：The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model
Note：the above actuator configuration and data all use soft-sealed valves (F，N，P) and hard-sealed valves,or consulting us if you have more questions.

主要外形及连接法兰尺寸HGQ641F(N、P、H、Y)–20K Main Outline and Connecting Flange Size

公称通径 Nominal diameter		外形尺寸 Outline Size			连接法兰尺寸 Connecting Flange Size							执行器型号 Actuator Model
mm	in	L	L_1	L_2	~H	D	D_1	D_2	C	f	n–Φd	
15	1/2	140	145/169	75/84	204/235	95	70	50	14	1	4–Φ15	AT052DR/AT063SC
20	3/4	152	145/169	75/84	209/240	100	75	58	16	1	4–Φ15	AT052DR/AT063SC
25	1	165	201/209	98/108	214/265	125	90	70	16	1	4–Φ19	AT075DR/AT083SC
32	1 1/4	178	209/242	108/120	269/287	135	100	80	18	2	4–Φ19	AT083DR/AT092SC
40	1 1/2	190	242/275	120/132	282/292	140	105	85	18	2	4–Φ19	AT092DR/AT105SC
50	2	216	275/332	132/148	290/325	155	120	100	18	2	8–Φ19	AT105DR/AT125SC
65	2 1/2	241	275/332	132/148	310/357	175	140	120	20	2	8–Φ19	AT105DR/AT125SC
80	3	283	332/385	148/165	346/368	200	160	135	22	2	8–Φ23	AT125DR/AT140SC
100	4	305	385/450	165/188	418/443	225	185	160	24	2	8–Φ23	AT140DR/AT160SC
125	5	381	450/507	188/215	460/503	270	225	195	26	2	8–Φ25	AT160DR/AT190SC
150	6	403	562/646	235/272	518/563	305	260	230	28	2	12–Φ25	AT210DR/AT240SC
200	8	502	646/722	272/305	583/618	350	305	275	30	2	12–Φ25	AT240DR/AT270SC

※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。
※注：以上执行器配置及数据均采用软密封(F、N、P)阀门，硬密封阀门的配置及数据请咨询本公司。
Note：The structural length and connecting flange size of ball valve series can be designed and manufactured as per users' requirements.
Note：Data XXX/XXX represent respectively the double–acting/single–acting type(spring reposition)of pneumatic actuator
Note：The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model
Note：the above actuator configuration and data all use soft–sealed valves (F，N，P) and hard–sealed valves,or consulting us if you have more questions.

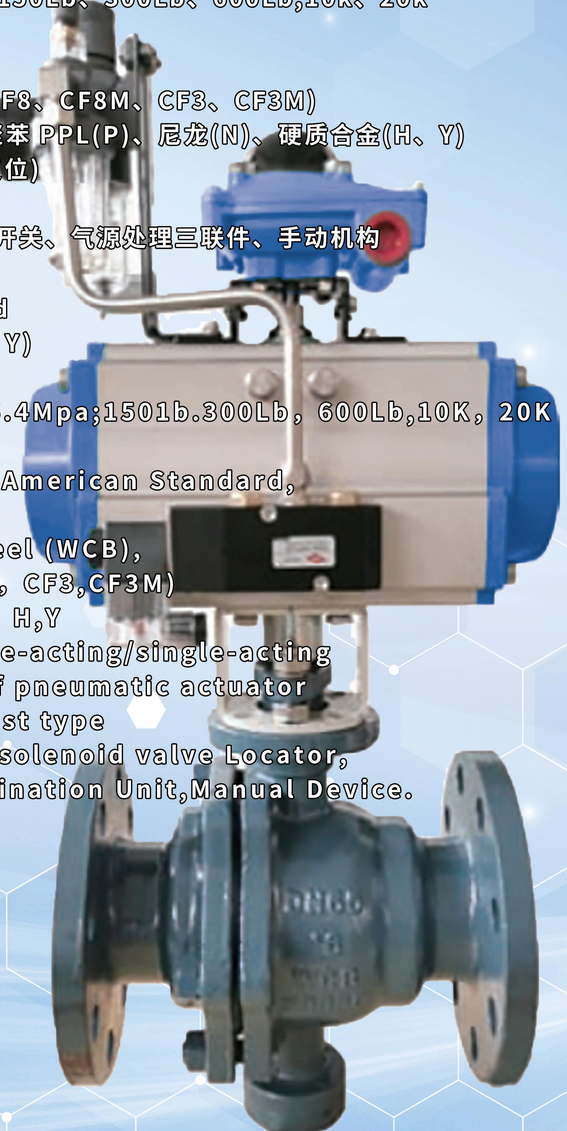




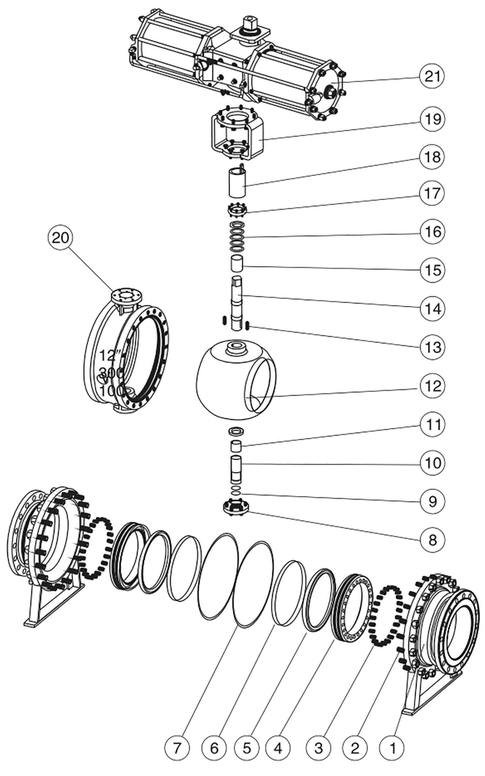
气动固定式球阀

型号:HGQ647(N、P、H、Y)
口径:DN25~600mm
压力:1.6、2.5、4.0、6.4MPa;150Lb、300Lb、600Lb;10k、20k
结构:固定式
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:聚四氟乙烯(F)、对位聚苯 PPL(P)、尼龙(N)、硬质合金(H、Y)
作用方式:双作用、单作用(弹簧复位)
控制方式:开关型、调节型
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

Pneumatic ball valve fixed
Model:HGQ647F(N，P，H，Y)
Bore:DN25~600mm
Pressure: 1.6，2.5，4.0，6.4Mpa;1501b.300Lb，600Lb,10K，20K
Structure:Fixed
Dimension standard: GB，American Standard，
Japanese Standard
Body material: Carbon steel (WCB),
Stainess steel(CF8，CF8M，CF3,CF3M)
Seat material:PTFE，PPL，H,Y
Mode of action: the double-acting/single-acting
type(spring reposition) of pneumatic actuator
Control: Switch type,Adjust type
Selection of Accessories: solenoid valve Locator,
Limit switch，F.R.L,Combination Unit,Manual Device.







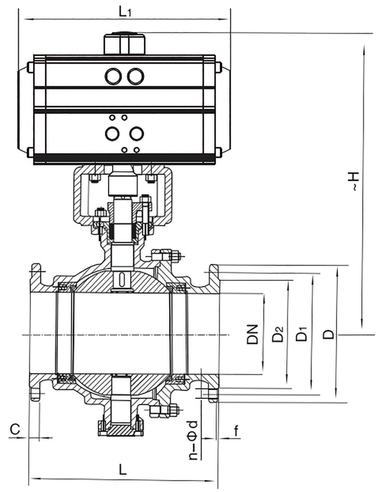
技术规范 Technique norm

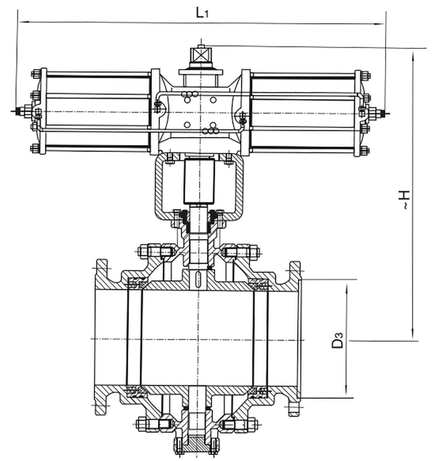
设计依据 Design Basis		GB标准 Standard
设计标准 Design standard		GB/12237
结构长度 Face to face dimension	法兰连接 Flange connecting	GB/12221
连接法兰尺寸 Connecting Flange Size		GB/9113、JB/T79
试验和检验 Test & inspection		GB/T13927、JB/T9092

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

主要零件材质表 Form of Main Parts Materials

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





主要外形及连接法兰尺寸HGQ647F(N、P、H、Y)–PN16(1.6MPa) Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size			连接法兰尺寸 Connecting Flange Size						执行器型号 Actuator Model
	L	L1	~H	D	D1	D2	C	f	n–Φd	
50	178	209/275	323/348	165	125	99	20	3	4–Φ18	AT083DR/AT105SC
65	190	242/275	363/388	185	145	118	20	3	4–Φ18	AT092DR/AT105SC
80	203	275/332	408/430	200	160	132	20	3	8–Φ18	AT105DR/AT125SC
100	229	332/450	470/527	220	180	156	22	3	8–Φ18	AT125DR/AT160SC
125	356	385/507	537/625	250	210	184	22	3	8–Φ18	AT140DR/AT190SC
150	394	450/562	577/655	285	240	211	24	3	8–Φ22	AT160DR/AT210SC
200	457	562/646	695/730	340	295	266	24	3	12–Φ22	AT210DR/AT240SC
250	533	646/722	762/792	405	355	319	26	3	12–Φ26	AT240DR/AT270SC
300	610	1180	808	460	410	370	28	4	12–Φ26	AW20
350	686	1180	916	520	470	429	30	4	16–Φ26	AW20
400	762	1320	970	580	525	480	32	4	16–Φ30	AW25
500	914	1430	1088	715	650	609	36	4	20–Φ33	AW28

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

主要外形及连接法兰尺寸HGQ647F(N、P、H、Y)-PN25(2.5MPa) Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size			连接法兰尺寸 Connecting Flange Size						执行器型号 Actuator Model
	L	L_1	~H	D	D_1	D_2	C	f	n-Φd	
50	216	242/332	333/370	165	125	99	20	3	4-Φ18	AT092DR/AT125SC
65	243	275/385	388/442	185	145	118	22	3	4-Φ18	AT105DR/AT140SC
80	283	332/450	430/472	200	160	132	24	3	8-Φ18	AT125DR/AT160SC
100	305	385/507	507/575	235	190	156	24	3	8-Φ22	AT140DR/AT190SC
125	381	450/562	562/630	270	220	184	26	3	8-Φ26	AT160DR/AT210SC
150	403	507/646	640/700	300	250	211	28	3	8-Φ26	AT190DR/AT240SC
200	502	562/646	705/740	360	310	274	30	3	12-Φ26	AT210DR/AT240SC
250	568	646/722	772/802	425	370	330	32	3	12-Φ30	AT240DR/AT270SC
300	648	1180	821	485	430	389	34	4	16-Φ30	AW20
350	762	1180	934	555	490	448	38	4	16-Φ30	AW20
400	838	1320	990	620	555	503	40	4	16-Φ36	AW25
500	991	1430	1006	730	660	609	44	4	20-Φ36	AW28

主要外形及连接法兰尺寸HGQ647F(N、P、H、Y)-PN40(4.0MPa) Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size										执行器型号 Actuator Model
	L	L_1	~H	D	D_1	D_2	D_3	C	f	n-Φd	
50	216	242/275	358/397	165	125	99	88x4	20	3	4-Φ18	AT092DR/AT105SC
65	243	275/332	410/452	185	145	118	110x4	22	3	8-Φ18	AT105DR/AT125SC
80	283	332/385	462/530	200	160	132	121x4	24	3	8-Φ18	AT125DR/AT140SC
100	305	385/450	547/615	235	190	156	150x4.5	24	3	8-Φ22	AT140DR/AT160SC
125	381	450/507	635/695	270	220	184	176x4.5	26	3	8-Φ26	AT160DR/AT190SC
150	403	507/562	700/735	300	250	211	204x4.5	28	3	8-Φ26	AT190DR/AT210SC
200	502	646/722	748/778	375	320	284	260x4.5	34	3	12-Φ30	AT240DR/AT270SC
250	568	722	803	450	385	315	313x4.5	38	3	12-Φ33	AT270
300	648	1320	914	515	450	409	364x4.5	42	4	16-Φ33	AW25
350	762	1320	970	580	510	465	422x5	46	4	16-Φ36	AW25
400	838	1430	1060	660	585	535	474x5	50	4	16-Φ39	AW28
500	991	1950	1228	755	670	615	576x5	52	4	20-Φ42	AW35

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

技术规范 Technique norm

设计依据 Design Basis		API、ANSI标准 Standard
设计标准 Design standard		API 6D、ANSI B16.34
结构长度 Face to face dimension	法兰连接 Flange connecting	API 6D、ANSI B16.10
连接法兰尺寸 Connecting Flange Size		ANSI B16.5
试验和检验 Test & inspection		API 6D、API598

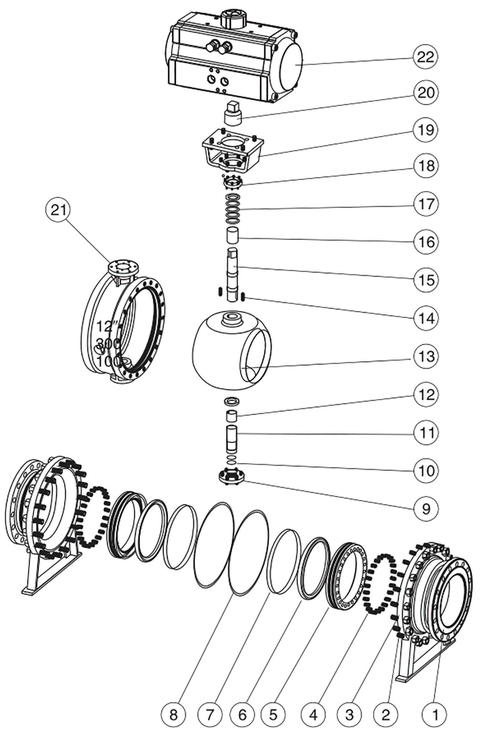
※注：系列球阀结构长度及连接法兰尺寸可根据用户要求设计制造。
Note：The structural length and connecting flange size of ball valve series can be designed and manufactured as per users'requirements.

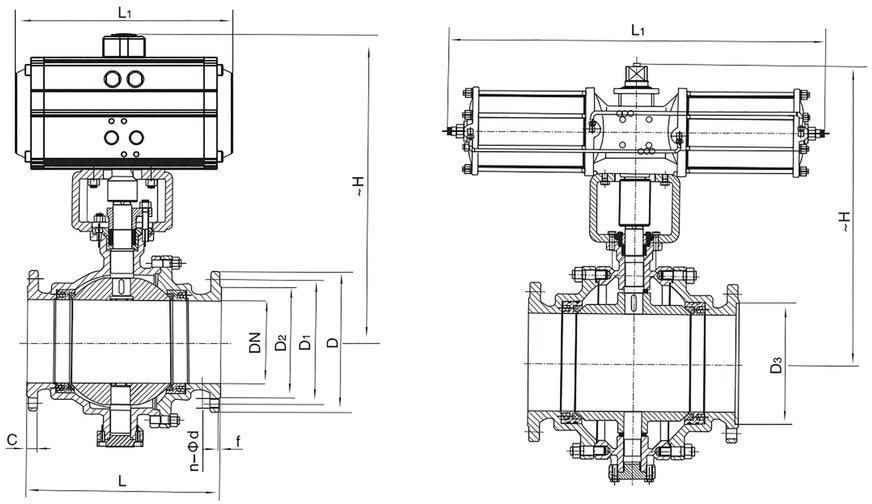
主要零件材质表 Form of Main Parts Materials

序号 No.	零件名称 Name of parts	材 质 Material		
		C	P	R
1	左右阀体 Body	A216-WCB	A351-CF8	A351-CF8M
2	螺栓 Screw	A193-B7	A276-304	A276-316
3	螺母 Nut	A194-2H	A276-304	A276-316
4	弹簧 Spring	YB/T5104 60Si2Mo	YBD(T)11 1Cr18Ni9	YBD(T)11 0Cr18Ni12M02
5	阀座 Seat	A182-A105	A276-304	A276-316
6	密封圈 Sealing ring	PTFE、尼龙(Nylon)、对位聚苯(PPL)、硬质合金 Hard Alloy		
7	O形圈 "O"Rring	橡胶Rubber、氟橡胶Viton		
8	垫片 Gasket	PTFE、石墨金属复合垫 Graphite metal composite pad		
9	法兰 Flange	A216-WCB	A351-CF8	A351-CF8
10	垫片 Gasket	A276-304	A276-304	A276-316
11	下阀杆 Stem	A276-410	A276-304	A276-316
12	衬套 Bushing	PTFE复合轴承 Composite bearings		
13	球体 Ball	A182-F304	A182-F304	A182-F316
14	键 Key	AISI C1045	A276-304	A276-316
15	阀杆 Stem	A276-410	A276-304	A276-316
16	衬套 Bushing	PTFE复合轴承 Composite bearings		
17	填料 Packing	PTFE、柔性石墨 Flexible Graphite		
18	填表料压盖 Gland	A216-WCB	A276-304	A276-316
19	连接套 Connecton set	A182-A105	A276-304	A276-304
20	支架 Yoke	A216-WCB	A276-304	A276-304
21	阀体 Body	A216-WCB	A351-CF8	A351-CF8
22	气动执行器 Pneumatic Actuator	AT系列、AW系列 AT Series、AW Series		

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







主要外形及连接法兰尺寸HGQ647F(N、P、H、Y)-Class 150 Main Outline and Connecting Flange Size

公称通径 Nominal diameter		外形尺寸 Outline Size			连接法兰尺寸 Connecting Flange Size						执行器型号 Actuator Model
DN	in	L	L1	~H	D	D1	D2	C	f	n-Φd	
50	2	178	209/275	320/345	152	120.6	92	15.8	1.6	4-Φ19	AT083DR/AT105SC
65	2 1/2	190	242/275	365/390	178	139.7	105	17.6	1.6	4-Φ19	AT092DR/AT105SC
80	3	203	275/332	403/425	190	152.4	127	19.1	1.6	4-Φ19	AT105DR/AT125SC
100	4	229	332/450	475/532	229	190.5	157	23.9	1.6	8-Φ19	AT125DR/AT160SC
125	5	356	385/507	539/627	254	216	186	23.9	1.6	8-Φ22	AT140DR/AT190SC
150	6	394	450/562	574/652	279	241.3	216	25.4	1.6	8-Φ22	AT160DR/AT210SC
200	8	457	562/646	693/728	343	298.5	270	28.6	1.6	8-Φ22	AT210DR/AT240SC
250	10	533	646/722	762/792	406	362	324	30.2	1.6	12-Φ25	AT240DR/AT270SC
300	12	610	1180	820	483	432	381	31.8	1.6	12-Φ25	AW20
350	14	686	1180	923	533	476	413	35	1.6	12-Φ29	AW20
400	16	762	1320	979	597	539.5	470	36.6	1.6	16-Φ29	AW25
500	20	914	1430	1079	699	635	584	42.9	1.6	20-Φ32	AW28

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

主要外形及连接法兰尺寸 HGQ647F(N、P、H、Y) -Class 300 Main Outline and Connecting Flange Size

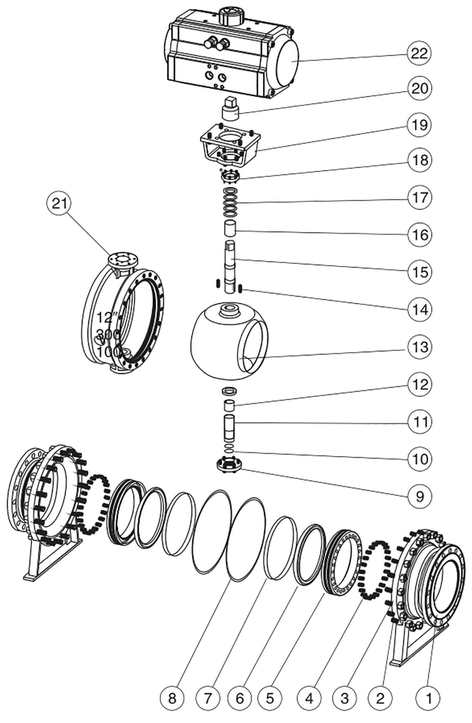
公称通径 Nominal diameter		外形尺寸 Outline Size			连接法兰尺寸 Connecting Flange Size						执行器型号 Actuator Model
DN	in	L	L1	~H	D	D1	D2	C	f	n-Φd	
50	2	216	242/332	336/373	165	127	92	22.3	1.6	8-Φ19	AT092DR/AT125SC
65	2 1/2	241	275/385	395/449	190	149.2	105	25.4	1.6	8-Φ22	AT105DR/AT140SC
80	3	283	332/450	435/477	210	168.3	127	28.6	1.6	8-Φ22	AT125DR/AT160SC
100	4	305	385/507	504/572	254	200	157	31.8	1.6	8-Φ22	AT140DR/AT190SC
125	5	381	450/562	566/634	279	234.9	186	35	1.6	8-Φ22	AT160DR/AT210SC
150	6	403	507/646	649/709	318	269.9	216	36.6	1.6	12-Φ22	AT190DR/AT240SC
200	8	502	562/646	715/750	381	330.2	270	41.3	1.6	12-Φ25	AT210DR/AT240SC
250	10	568	646/722	782/812	444	387.5	324	47.7	1.6	16-Φ29	AT240DR/AT270SC
300	12	648	1162	839	521	451	381	50.8	1.6	12-Φ32	AW25
350	14	762	1380	984	584	514.5	413	54	1.6	20-Φ32	AW28
400	16	838	1860	1004	648	571.5	470	57	1.6	20-Φ35	AW35
500	20	991	1860	1118	775	686	584	63.5	1.6	24-Φ35	AW40

主要外形及连接法兰尺寸 HGQ647F(N、P、H、Y) -Class 400 Main Outline and Connecting Flange Size

公称通径 Nominal diameter		外形尺寸 Outline Size			连接法兰尺寸 Connecting Flange Size						执行器型号 Actuator Model
DN	in	L	L1	~H	D	D1	D2	C	f	n-Φd	
50	2	292	275/385	393/447	165	127	92	25.4	6.4	8-Φ19	AT105DR/AT140SC
65	2 1/2	330	332/450	432/474	190	149.5	105	28.6	6.4	8-Φ22	AT125DR/AT160SC
80	3	356	332/385	507/575	210	168.3	127	31.8	6.4	8-Φ22	AT125DR/AT140SC
100	4	406	385/507	572/640	254	200	157	35	6.4	8-Φ26	AT140DR/AT190SC
125	5	457	450/562	644/704	279	234.9	186	38.2	6.4	8-Φ26	AT160DR/AT210SC
150	6	495	507/646	721/751	318	269.9	216	41.3	6.4	12-Φ26	AT190DR/AT240SC
200	8	597	646/722	787/817	381	330.2	270	47.6	6.4	12-Φ29	AT240DR/AT270SC
250	10	673	1180	801	444	387.3	324	54	6.4	16-Φ32	AW20
300	12	762	1180	916	521	450.8	381	57.5	6.4	16-Φ35	AW20
350	14	826	1320	973	584	514.3	413	60.5	6.4	20-Φ35	AW25
400	16	902	1430	1055	648	571.5	470	63.5	6.4	20-Φ39	AW28
500	20	1054	1950	1228	775	685.8	584	70	6.4	24-Φ42	AW35

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





技术规范 Technique norm

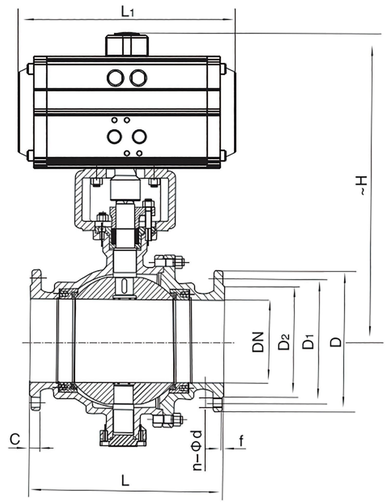
设计依据 Design Basis		JIS标准 Standard
设计标准 Design standard		BS35351
结构长度 Face to face dimension	法兰连接 Flange connecting	JIS B2002
连接法兰尺寸 Connecting Flange Size		JIS B2212、B2213、B2214
试验和检验 Test & inspection		JIS B2003

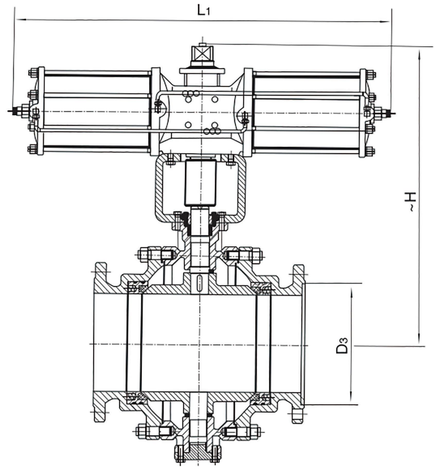
※注：系列球阀结构长度及连接法兰尺寸可根据用户要求设计制造。
Note：The structural length and connecting flange size of ball valve series can be designed and manufactured as per users'requirements.

主要零件材质表 Form of Main Parts Materials

序号 No.	零件名称 Name of parts	材 质 Material		
		C	P	R
1	左右阀体 Body	$SCPH_2$	SCS13	SCS14
2	螺栓 Screw	S35C	SUS304	SUS304
3	螺母 Nut	S35C	SUS304	SUS304
4	弹簧 Spring	60Si2Mo	SUS302	SUS316
5	阀座 Seat	SUS410	SUS304	SUS316
6	密封圈 Sealing ring	PTFE、尼龙(Nylon)、对位聚苯(PPL)、硬质合金 Hard Alloy		
7	O形圈 "O"Rring	橡胶Rubber、氟橡胶Viton		
8	垫片 Gasket	PTFE、石墨金属复合垫 Graphite metal composite pad		
9	法兰 Flange	$SCPH_2$	SCS13	SCS13
10	垫片 Gasket	SUS304	SUS304	SUS316
11	下阀杆 Stem	SUS410	SUS304	SUS316
12	衬套 Bushing	PTFE复合轴承 Composite bearings		
13	球体 Ball	SUS304	SUS304	SUS316
14	键 Key	S35C	SUS304	SUS316
15	阀杆 Stem	SUS410	SUS304	SUS316
16	衬套 Bushing	PTFE复合轴承 Composite bearings		
17	填料 Packing	PTFE、柔性石墨 Flexible Graphite		
18	填料压盖 Gland	$SCPH_2$	SCS13	SUS316
19	连接套 Connecton set	S35C	SUS304	SUS304
20	支架 Yoke	$SCPH_2$	SCS13	SCS13
21	阀体 Body	$SCPH_2$	SCS13	SCS14
22	气动执行器 Pneumatic Actuator	AT系列、AW系列 AT Series、AW Series		

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





主要外形及连接法兰尺寸 HGQ647F(N、P、H、Y)–10K Main Outline and Connecting Flange Size

公称通径 Nominal diameter		外形尺寸 Outline Size			连接法兰尺寸 Connecting Flange Size						执行器型号 Actuator Model
DN	in	L	L_1	~H	D	D_1	D_2	C	f	n–Φd	
50	2	178	209/275	319/343	155	120	100	16	2	4–Φ19	AT083DR/AT105SC
65	2 1/2	190	242/275	363/387	175	140	120	18	2	4–Φ19	AT092DR/AT105SC
80	3	203	275/332	401/423	185	150	130	18	2	8–Φ19	AT105DR/AT125SC
100	4	229	332/450	471/528	210	175	155	18	2	8–Φ19	AT125DR/AT160SC
125	5	356	385/507	537/625	250	210	185	20	2	8–Φ23	AT140DR/AT190SC
150	6	394	450/562	574/652	280	240	215	22	2	8–Φ23	AT160DR/AT210SC
200	8	457	562/646	686/722	330	290	265	22	2	12–Φ23	AT210DR/AT240SC
250	10	533	646/722	759/789	400	355	325	24	2	12–Φ25	AT240DR/AT270SC
300	12	610	1180	801	445	400	370	24	3	16–Φ25	AW20
350	14	686	1180	901	490	445	415	26	3	16–Φ25	AW20
400	16	762	1320	960	560	510	475	28	3	16–Φ27	AW25
500	20	914	1430	1068	675	620	585	30	3	20–Φ27	AW28

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

主要外形及连接法兰尺寸 HGQ647F(N、P、H、Y)–20K Main Outline and Connecting Flange Size

公称通径 Nominal diameter		外形尺寸 Outline Size			连接法兰尺寸 Connecting Flange Size						执行器型号 Actuator Model
DN	in	L	L_1	~H	D	D_1	D_2	C	f	n–Φd	
50	2	216	242/332	329/366	155	120	100	18	2	8–Φ19	AT092DR/AT125SC
65	2½	241	275/385	390/444	175	140	120	20	2	8–Φ19	AT105DR/AT140SC
80	3	283	332/450	430/472	200	160	135	22	2	8–Φ23	AT125DR/AT160SC
100	4	305	385/507	494/562	225	185	160	24	2	8–Φ23	AT140DR/AT190SC
125	5	381	450/562	561/629	270	225	195	26	2	8–Φ25	AT160DR/AT210SC
150	6	403	507/646	642/702	305	260	230	28	2	12–Φ25	AT190DR/AT240SC
200	8	502	562/646	700/735	350	305	275	30	2	12–Φ22	AT210DR/AT240SC
250	10	568	722	775/805	430	380	345	34	2	12–Φ27	AT270DR
300	12	648	1180	818	480	430	395	35	3	16–Φ27	AW20
350	14	762	1180	926	540	480	440	40	3	16–Φ33	AW20
400	16	838	1320	983	605	540	495	46	3	16–Φ33	AW25
500	20	991	1430	1095	730	660	615	50	3	20–Φ33	AW28

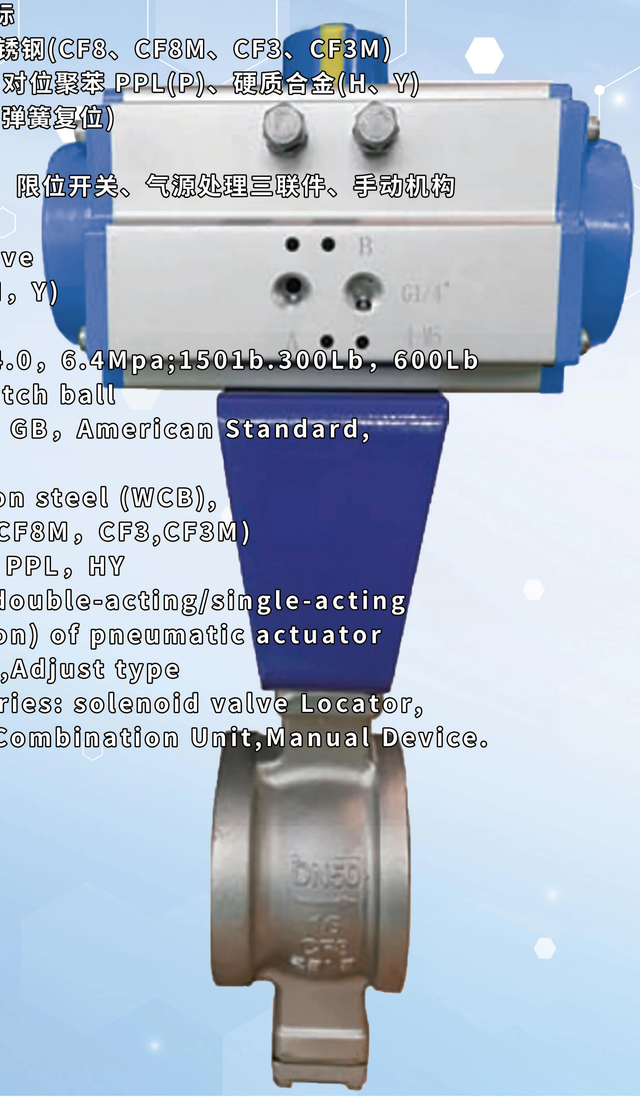
※注：系列球阀结构长度及连接法兰尺寸可根据JB/T79标准或用户要求设计制造。
※注：数据XXX/XXX分别是气动执行器双作用式/单作用式(弹簧复位)。
※注：根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。
※注：以上执行器配置及数据均采用软密封(F、N、P)阀门，硬密封阀门的配置及数据请咨询本公司。
Note：The strrctural length and connecting flange size of ball valve series can be designed and manufactured as per JB/T79 standard or users'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



气动V型球阀

型号:HGQ670F(P、H、Y)
口径:DN25~500mm
压力:1.6、2.5、4.0、6.4MPa;150Lb、300Lb、600Lb
结构:V型切口固定球
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:开关型、调节型
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

Pneumatic V-Ball valve
Model:HGQ670F(P，H，Y)
Bore:DN25~500mm
Pressure: 1.6，2.5，4.0，6.4Mpa;150lb.300Lb，600Lb
Structure:Fixed V-notch ball
Dimension standard: GB，American Standard,
Japanese Standard
Body material: Carbon steel (WCB),
Stainess steel(CF8，CF8M，CF3,CF3M)
Seat material:PTFE，PPL，HY
Mode of action: the double-acting/single-acting
type(spring reposition) of pneumatic actuator
Control: Switch type,Adjust type
Selection of Accessories: solenoid valve Locator,
Limit switch，F.R.L,Combination Unit,Manual Device.

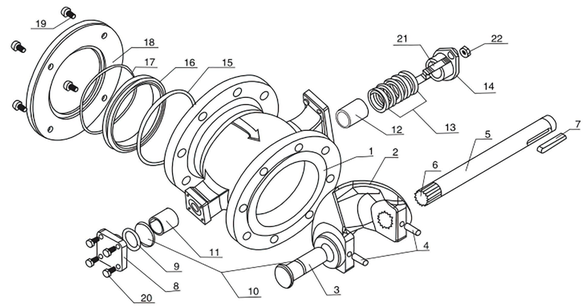


气动对夹式V型球阀HGVQ670F(P、H、Y)-PN16、25、Class150
Pneumatic Wafer V-Type Ball Valve



技术规范 Technique norm

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

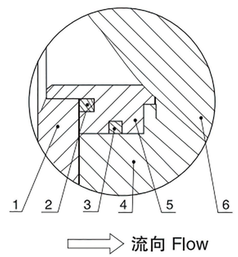


零件清单 Parts List

序号No.	名称	Name	数量(件) Quantity (pieces)	材料 Material
1	阀体	Body	1	WCB、CF8、CF8M、CF3、CF3M
2	阀芯	Spool	1	CF8、CF8M+镀硬铬或超音速喷涂
3	后阀杆	After stearn	1	17-4PH、SS316
4	圆柱销	Cylindrical pin	2	SS304、SS316
5	前阀杆	Before steam	1	17-4PH、SS316
6	花键	Spline	1	17-4PH、SS316
7	平键	Flat key	1	Ss304、45#
8	后压盖	After gland	1	CF8、CF8M
9	O形圈	"O"-Ring	1	氟橡胶 Viton
10	调整垫	Adjust pad	各1	PTFE
11	自润滑轴承	Self-lubricating bearings	1	复合材料 Composite material
12	自润滑轴承	Self-lubricating bearings	1	复合材料 Composite material
13	填料	Packing	1组	PTFE
14	填料压盖	Gland	1	CF8
15	O形圈	"O"-Ring	1	氟橡胶 Viton
16	密封座	Seal block	1	PTFE、SS304、SS316+镀硬铬或超音速喷涂
17	密封座弹簧	Seal block spring	1	SS316
18	密封座盖	Sealing lid	1	Q235、SS304、SS316
19	内六角螺钉	inner Hexagon screw		SS304
20	六角螺钉	Hexagon screw	4	SS304
21	双头螺钉	Double-headed screw	2	SS304
22	六角螺母	Hexagon nut	2	Ss304

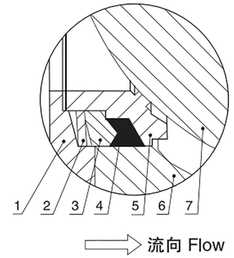
气动对夹式V型球阀各种密封结构
Pneumatic Wafer V-Type Ball Valve Various Seal Structure

金属密封阀座
Metal sealing seat



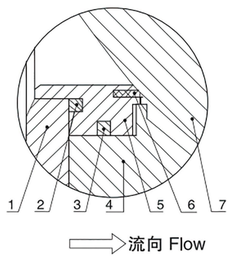
流向 Flow

高温型金属密封阀座
High-temperature metal seal seat



流向 Flow

软阀座
Soft Seat



流向 Flow

金属密封阀座
Metal sealing seat

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

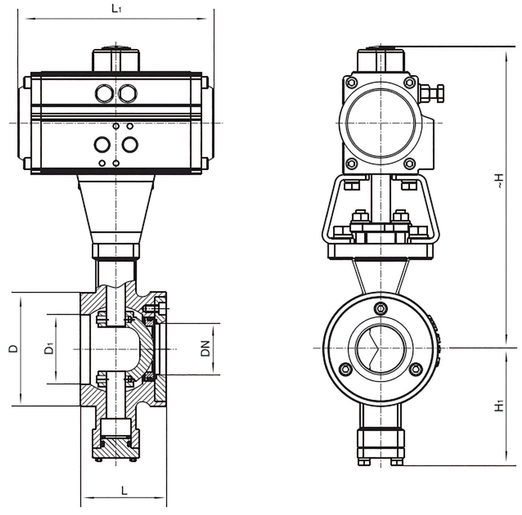
高温型金属密封阀座
High-temperature metal seal seat

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

软阀座
Soft Seat

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

气动对夹式V型球阀HGVQ670F(P、H、Y)-PN16、25、Class150
Pneumatic Wafer V-Type Ball Valve



主要外形及连接法兰尺寸HGVQ670F(P、H、Y)-PN16、25(1.6、2.5MPa) Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形/连接尺寸 Outline/Connecting Size						执行器型号 Actuator Model
	L	L_1	~H	H_1	D	D_1	
25	62	169/209	260/290	87	68	38	AT063DR/AT083SC
32	62	169/209	267/297	87	78	42	AT063DR/AT083SC
40	62	201/242	292/312	87	85	50	AT075DR/AT092SC
50	75	209/242	292/312	97	100	60	AT083DR/AT092SC
65	90	242/275	332/340	112	120	75	AT092DR/AT105SC
80	100	275/332	359/381	112	130	94	AT105DR/AT125SC
100	115	332/385	394/411	122	158	110	AT125DR/AT140SC
125	129	385/450	410/416	142	180	135	AT140DR/AT160SC
150	160	450/507	461/486	165	216	165	AT160DR/AT190SC
200	200	507/562	509/553	195	268	210	AT190DR/AT210SC
250	240	272/305	572/628	237	325	260	AT240DR/AT270SC

主要外形及连接法兰尺寸HGVQ670F(P、H、Y)-Class 150 Main Outline and Connecting Flange Size

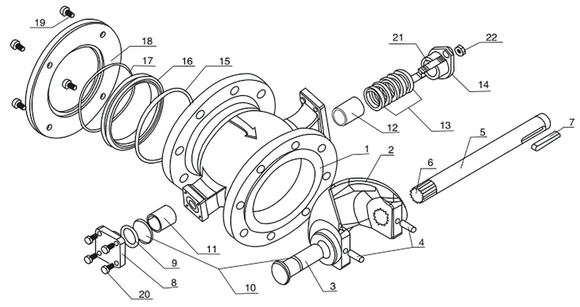
公称通径 Nominal diameter DN		外形/连接尺寸 Outline/Connecting Size						执行器型号 Actuator Model
		L	L_1	~H	H_1	D	D_1	
25	1	62	169/209	260/290	87	68	38	AT063DR/AT083SC
32	1 1/4	62	169/209	267/297	87	78	42	AT063DR/AT083SC
40	1 1/2	62	201/242	292/312	87	85	50	AT075DR/AT092SC
50	2	75	209/242	292/312	97	100	60	AT083DR/AT092SC
65	2 1/2	90	242/275	332/340	112	120	75	AT092DR/AT105SC
80	3	100	275/332	359/381	112	130	94	AT105DR/AT125SC
100	4	115	332/385	394/411	122	158	110	AT125DR/AT140SC
125	5	129	385/450	410/416	142	180	135	AT140DR/AT160SC
150	6	160	450/507	461/486	165	216	165	AT160DR/AT190SC
200	8	200	507/562	509/553	195	268	210	AT190DR/AT210SC
250	10	240	272/305	572/628	237	325	260	AT240DR/AT270SC

※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 series can be designed and manufactured as per JB/T79 standard or users' requirements
Note：Data XXX/XXX represent respectively the double-acting/single-acting type(spring reposition)of pneumatic actuator
Note：The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model



技术规范 Technical specification

设计依据 Design Basis	GB标准 Standard	ANSI标准 Standard
设计标准 Design standard	GB/12237	ANSI B16.34
连接法兰尺寸 Connecting Flange Size	GB/9113、JB/T79	ANSI B16.5
试验和检验 Test & inspection	JB/T9002	API 598

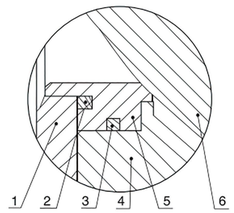


零件清单 Parts List

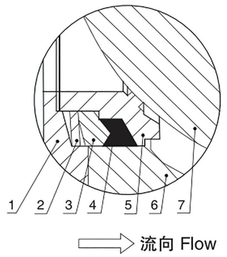
序号No.	名称	Name	数量(件) Quantity (pieces)	材料 Material
1	阀体	Body	1	WCB、CF8、CF8M、CF3、CF3M
2	阀芯	Spool	1	CF8、CF8M+镀硬铬或超音速喷涂
3	后阀杆	After steam	1	17-4PH、SS316
4	圆柱销	Cylindrical pin	2	SS304、SS316
5	前阀杆	Before steam	1	17-4PH、SS316
6	花键	Spline	1	17-4PH、SS316
7	平键	Flat key	1	Ss304、45#
8	后压盖	After gland	1	CF8、CF8M
9	O形圈	"O"-Ring	1	氟橡胶 Viton
10	调整垫	Adjust pad	各1	PTFE
11	自润滑轴承	Self-lubricating bearings	1	复合材料 Composite material
12	自润滑轴承	Self-lubricating bearings	1	复合材料 Composite material
13	填料	Packing	1组	PTFE
14	填料压盖	Gland	1	CF8
15	O形圈	"O"-Ring	1	氟橡胶 Viton
16	密封座	Seal block	1	PTFE、SS304、SS316+镀硬铬或超音速喷涂
17	密封座弹簧	Seal block spring	1	SS316
18	密封座盖	Sealing lid	1	Q235、SS304、SS316
19	内六角螺钉	inner Hexagon screw		SS304
20	六角螺钉	Hexagon screw	4	SS304
21	双头螺钉	Double-headed screw	2	SS304
22	六角螺母	Hexagon nut	2	Ss304

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

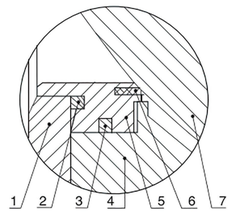
金属密封阀座
Metal sealing seat



高温型金属密封阀座
High-temperature metal seal seat



软阀座
Soft Seat



金属密封阀座
Metal sealing seat

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

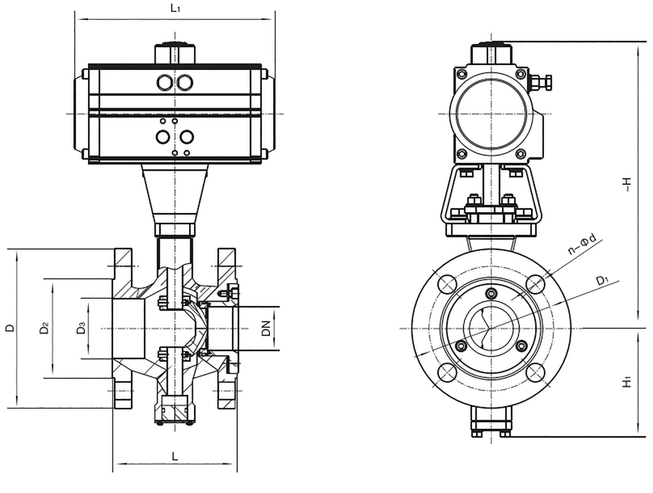
高温型金属密封阀座
High-temperature metal seal seat

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

软阀座
Soft Seat

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

气动法兰式V型球阀HGVQ640F(P、H、Y)–PN16、25、Class150
Pneumatic Flange Type V–Type Ball Valve



气动法兰式V型球阀HGVQ640F(P、H、Y)–PN16、25
Pneumatic Flange V–Type Ball Valve

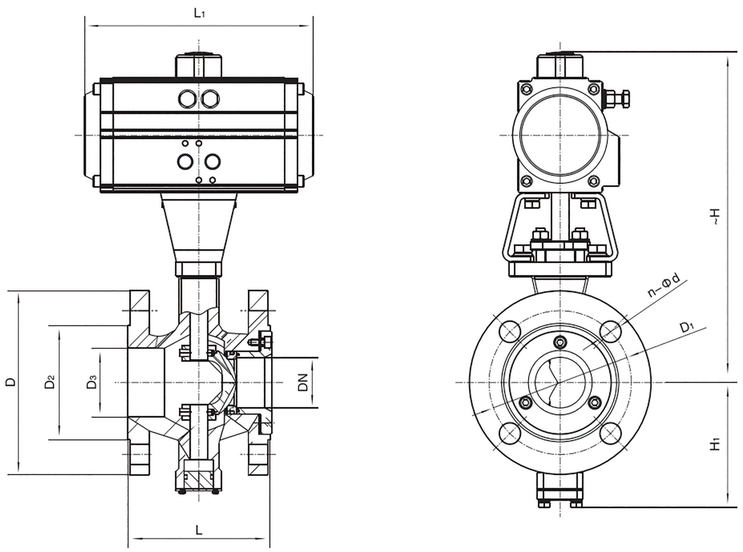
主要外形及连接法兰尺寸HGVQ640F(P、H、Y)–PN16(1.6MPa) Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形/连接尺寸 Outline/Connecting Size											执行器型号 Actuator Model
	L	L1	~H	H1	D	D1	D2	D3	C	f	n–Φd	
25	102	169/209	260/290	87	115	85	65	38	16	2	4–Φ14	AT063DR/AT083SC
32	105	169/209	267/297	87	140	100	76	42	18	3	4–Φ18	AT063DR/AT083SC
40	114	201/242	292/312	87	150	110	84	50	18	3	4–Φ18	AT075DR/AT092SC
50	124	209/242	292/312	97	165	125	99	60	20	3	4–Φ18	AT083DR/AT092SC
65	145	242/275	327/340	112	185	145	118	75	20	3	4–Φ18	AT092DR/AT105SC
80	165	275/332	359/381	112	200	160	132	94	20	3	8–Φ18	AT105DR/AT125SC
100	194	332/385	395/412	122	220	180	156	110	22	3	8–Φ18	AT125DR/AT140SC
125	213	385/450	399/416	142	250	210	184	135	22	3	8–Φ18	AT140DR/AT160SC
150	229	450/507	461/486	165	285	240	211	165	24	3	8–Φ22	AT160DR/AT190SC
200	243	507/562	509/553	195	340	295	266	210	24	3	12–Φ22	AT190DR/AT210SC
250	297	646/722	603/628	237	405	355	319	260	26	3	12–Φ26	AT240DR/AT270SC
300	334	722	790/825	287	460	410	370	310	28	4	12–Φ26	AT270DR
350	414	1180	828/858	338	520	470	429	360	30	4	16–Φ26	AW20
400	490	1180	1063/–	390	580	525	480	410	32	4	16–Φ30	AW20
500	600	1320	–	510	715	650	609	510	36	4	16–Φ33	AW25

主要外形及连接法兰尺寸HGVQ640F(P、H、Y)–PN25(2.5MPa) Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形/连接尺寸 Outline/Connecting Size											执行器型号 Actuator Model
	L	L1	~H	H1	D	D1	D2	D3	C	f	n–Φd	
25	102	169/209	260/290	87	115	85	65	38	16	3	4–Φ14	AT063DR/AT083SC
32	105	169/209	267/297	87	140	100	76	42	18	3	4–Φ18	AT063DR/AT083SC
40	114	201/242	292/312	87	150	110	84	50	18	3	4–Φ18	AT075DR/AT092SC
50	124	242/275	312/325	97	165	125	99	60	20	3	4–Φ18	AT092DR/AT105SC
65	145	275/332	340/362	112	185	145	118	75	22	3	8–Φ18	AT105DR/AT125SC
80	165	332/385	381/398	112	200	160	132	94	24	3	8–Φ18	AT125DR/AT140SC
100	194	332/385	395/412	122	235	190	156	110	24	3	8–Φ22	AT125DR/AT140SC
125	213	385/450	416/441	142	270	220	184	135	26	3	8–Φ26	AT140DR/AT160SC
150	229	450/507	486/530	165	300	250	211	165	28	3	8–Φ26	AT160DR/AT190SC
200	243	507/562	553/578	195	360	310	274	210	30	3	12–Φ26	AT190DR/AT210SC
250	297	646/722	628/673	237	425	370	330	260	32	3	12–Φ30	AT240DR/AT270SC
300	334	722	725/755	281	485	430	389	310	34	4	16–Φ30	AT270DR
350	414	1180	858/–	338	555	490	448	360	38	4	16–Φ33	AW20
400	490	1180	–/–	390	620	550	503	410	40	4	16–Φ36	AW20
500	600	1320	–/–	510	730	660	609	510	44	4	20–Φ36	AW25

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



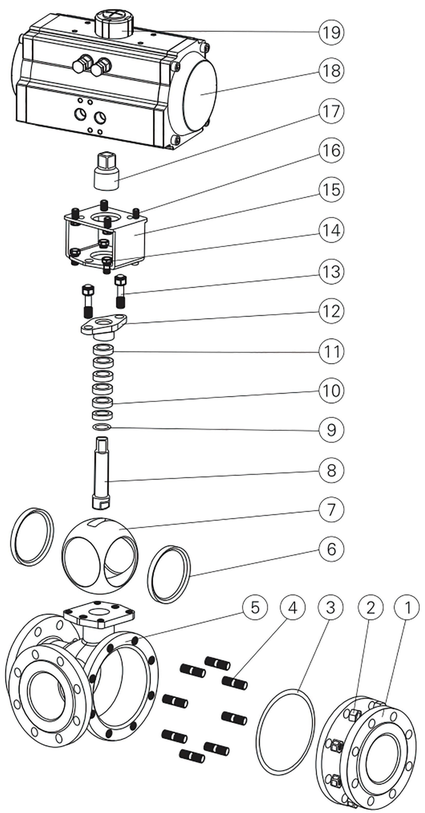
主要外形及连接法兰尺寸HGVQ640F(P、H、Y)–Class150 Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形/连接尺寸 Outline/Connecting Size											执行器型号 Actuator Model
	L	L1	~H	H1	D	D1	D2	D3	C	f	n–Φd	
25	102	169/209	260/290	87	108	79.5	51	38	12	1.6	4–Φ16	AT063DR/AT083SC
32	105	169/209	267/297	87	117	88.9	64	42	13	1.6	4–Φ16	AT063DR/AT083SC
40	114	201/242	292/312	87	127	98.4	73	50	14.5	1.6	4–Φ16	AT075DR/AT092SC
50	124	209/242	292/312	97	152	120.6	92	60	15.8	1.6	4–Φ19	AT083DR/AT092SC
65	145	242/275	327/340	112	178	139.7	105	75	17.6	1.6	4–Φ19	AT092DR/AT105SC
80	165	275/332	359/381	112	190	152.4	127	94	19.1	1.6	4–Φ19	AT105DR/AT125SC
100	194	332/385	395/412	122	229	190.5	157	110	23.9	1.6	8–Φ19	AT125DR/AT140SC
125	213	385/450	399/416	142	254	216	186	135	23.9	1.6	8–Φ22	AT140DR/AT160SC
150	229	450/507	461/486	165	279	241.3	216	165	25.4	1.6	8–Φ22	AT160DR/AT190SC
200	243	507/562	509/553	195	343	298.5	270	210	28.6	1.6	8–Φ22	AT190DR/AT210SC
250	297	646/722	603/628	237	406	362	324	260	30.2	1.6	12–Φ25	AT240DR/AT270SC
300	334	722	790/825	281	483	432	381	310	31.8	1.6	12–Φ25	AT270DR
350	414	1180	828/858	338	533	476	413	360	35	1.6	12–Φ29	AW20
400	490	1180	1063/–	390	597	539.5	470	410	36.6	1.6	16–Φ29	AW20
500	600	1320	–	510	698	635	584	510	42.9	1.6	20–Φ32	AW25

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







技术规范 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 of ball valve series can be designed and manufactured as per users'requirements.

主要零件材质表 Form of Main Parts Materials

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

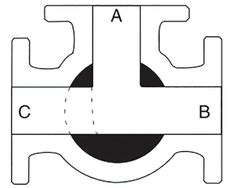
※注：系列球阀主要零部件及密封圈的材质可根据实际工况条件或用户特殊要求设计选用。
Note：The main spare parts and sealing–ring materials of ball valve series can be designed for options as per real working conditions and users'special requirements.

气动三通法兰式球阀HGQ644(5)F(N、P、H、Y)–PN16、25
Pneumatic Three–way Flanged Ball Valve
华工自控 HGZK HUAGONG AUTOMATIC CONTROL

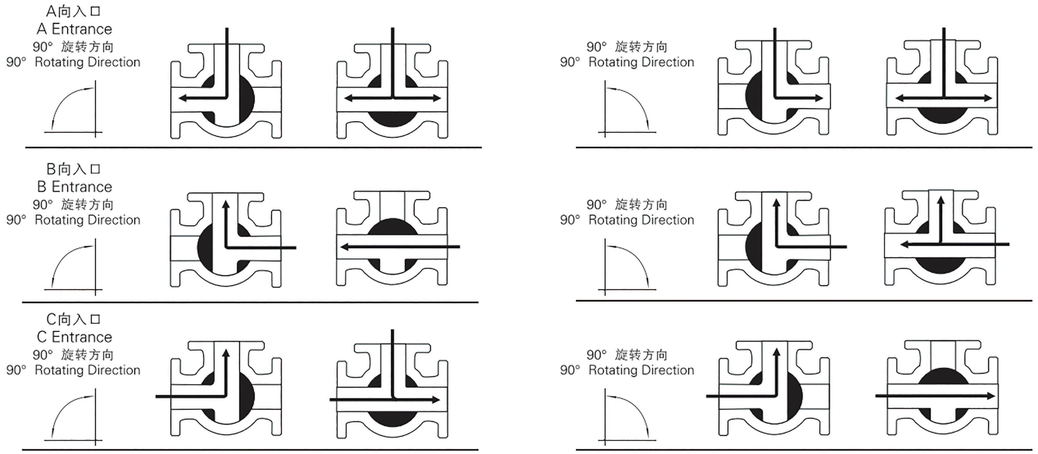
三通球阀介质流向示意图 Sketch of Medium Flow–direction of Three–way Ball Valve

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。

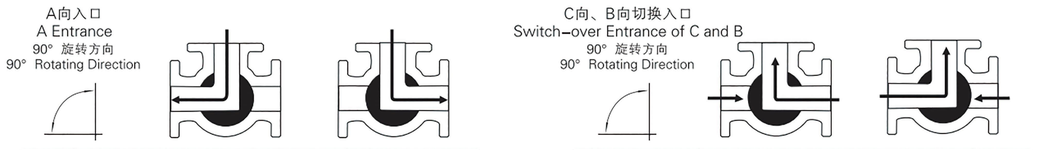
Three–way ball valve is used for diffluence or confluent circulation with two–side or four–side valve base embodying multiple channels. All The channels can be used as entrance, with no leakage. The three–way can be made to L–shaped channel or T–shaped channel.

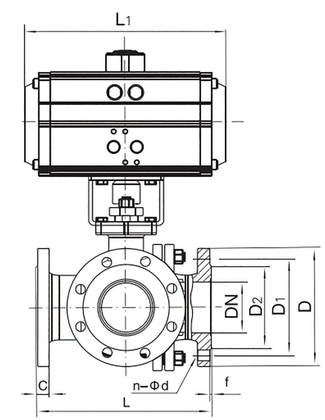


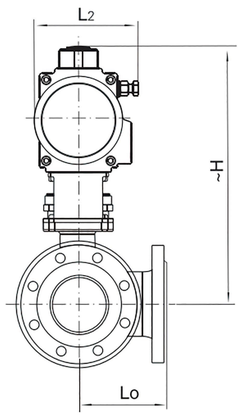
T型通口 T–shaped Passage



L型通口 L–shaped Passage







主要外形及连接尺寸HGQ644(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	L_1	L_2	~H	D	D_1	D_2	C	f	n–Φd	
15	1/2	150	72	145/169	75/84	204/235	95	65	46	14	2	4–Φ14	AT052DR/AT063SC
20	3/4	160	80	169/201	84/98	240/252	105	75	56	16	2	4–Φ14	AT063DR/AT075SC
25	1	180	90	201/209	98/108	257/265	115	85	65	16	2	4–Φ14	AT075DR/AT083SC
32	1 1/4	200	100	201/242	98/120	277/312	140	100	76	18	3	4–Φ18	AT075DR/AT092SC
40	1 1/2	220	110	209/275	108/132	292/317	150	110	84	18	3	4–Φ18	AT083DR/AT105SC
50	2	240	120	242/332	120/148	325/347	165	125	99	20	3	4–Φ18	AT092DR/AT125SC
62	2 1/2	260	130	275/385	132/165	357/389	185	145	118	20	3	4–Φ18	AT105DR/AT140SC
80	3	280	140	332/385	148/165	368/400	200	160	132	20	3	8–Φ18	AT125DR/AT140SC
100	4	320	160	385/507	165/215	410/498	220	180	156	22	3	8–Φ18	AT140DR/AT190SC
125	5	380	190	450/562	188/235	470/538	250	210	184	22	3	8–Φ18	AT160DR/AT210SC
150	6	440	220	507/646	215/272	556/591	285	240	211	24	3	8–Φ22	AT190DR/AT240SC
200	8	550	260	562/722	235/305	648/687	340	295	266	24	3	12–Φ22	AT210DR/AT270SC

主要外形及连接尺寸 HGQ644(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	L_1	L_2	~H	D	D_1	D_2	C	f	n–Φd	
15	1/2	150	72	169/201	84/98	235/247	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	548/583	270	220	184	26	3	8–Φ26	AT160DR/AT210SC
150	6	440	220	507/646	215/272	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

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

技术规范 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

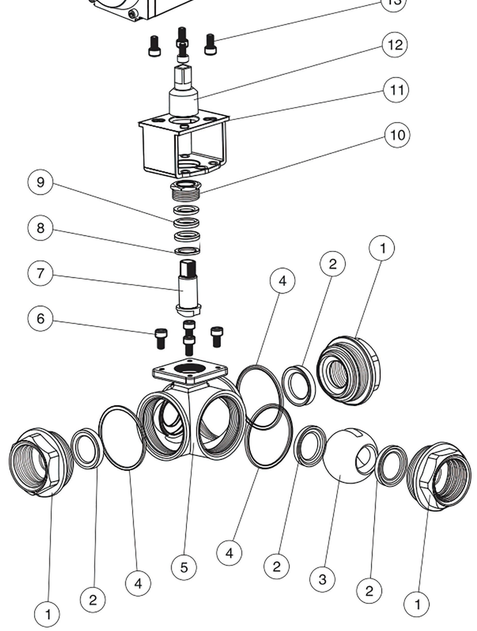
※注：系列球阀结构长度及连接法兰尺寸可根据用户要求设计制造。
Note：The structural length and connecting flange size of ball valve series can be designed and manufactured as per users'requirements.

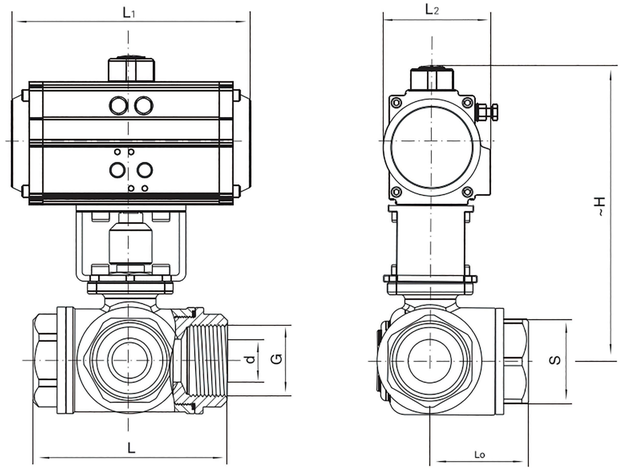


主要零件材质表 Form of Main Parts Materials

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

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





主要外形及连接尺寸 HGQ614(5)F(N、P)–PN16~64(1.6~6.4MPa) Main Outline and Connecting Flange Size

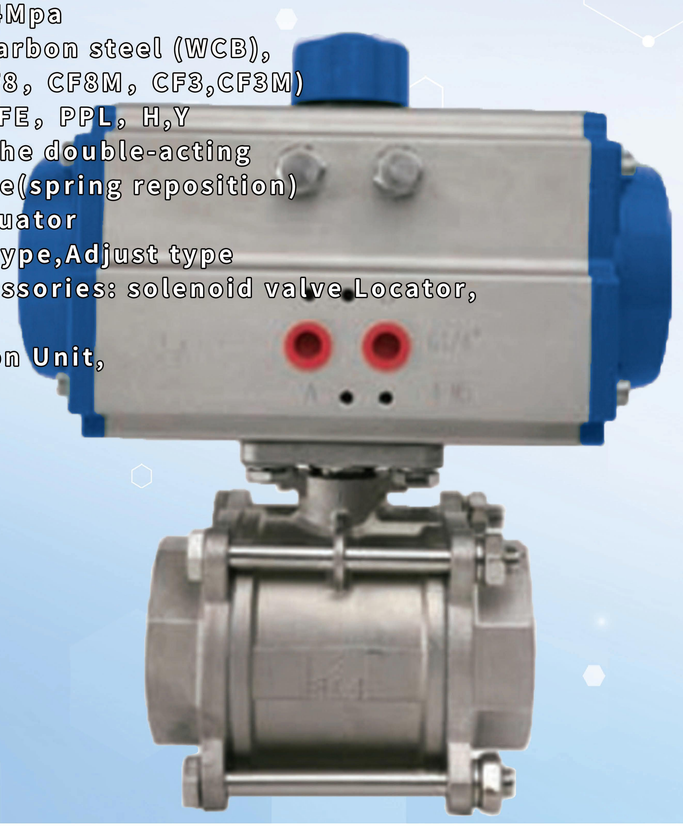
公称通径 Nominal diameter		外形连接尺寸 Connecting Flange Size								执行器型号 Actuator Model
DN	in	D	G	L	Lo	L1	L2	~H	S	
15	1/2	10	1/2"	68	34	145/169	75/84	177/208	26	AT052DR/AT063SC
20	3/4	15	3/4"	78	39	145/169	75/84	180/211	32	AT052DR/AT063SC
25	1	20	1"	86	43	169/201	84/98	199/227	38	AT063DR/AT075SC
32	1 1/4	25	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：根据不同的阀门扭矩、使用介质选配的执行器型号可能有所不同，其相关尺寸随之变化。
Note：The structural length and connecting flange size of ball valve series can be designed and manufactured as per users'requirements.
Note：Data XXX/XXXrepresent respectively double–acting/singe–acting type(spring reposition)of pneumatic actuator.
Note：The relative sizes are subject to change responding to the differene in valve torque, medium and actuator model.

气动三片式球阀

型号:HGQ61(6、8、2) 1F(N、P、H、Y)
口径:DN10~100mm
压力:1.6~6.4MPa
阀体材质:碳钢(WCB)、不锈钢(CF8、CF8M、CF3、CF3M)
阀座材料:聚四氟乙烯(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:开关型、调节型
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

Pneumatic ball valve fixed
Model:HGQ61(6、8、2) 1F(N，P，H，Y)
Bore:DN10~100mm
Pressure: 1.6~6.4Mpa
Body material: Carbon steel (WCB),
Stainess steel(CF8，CF8M，CF3,CF3M)
Seat material:PTFE，PPL，H,Y
Mode of action: the double-acting
single-acting type(spring reposition)
of pneumatic actuator
Control: Switch type,Adjust type
Selection of Accessories: solenoid valve Locator,
Limit switch，
F.R.L.Combination Unit,
Manual Device.



Pneumatic 3PC Ball Valve



HGQ611
内螺纹连接
Inside thread connection



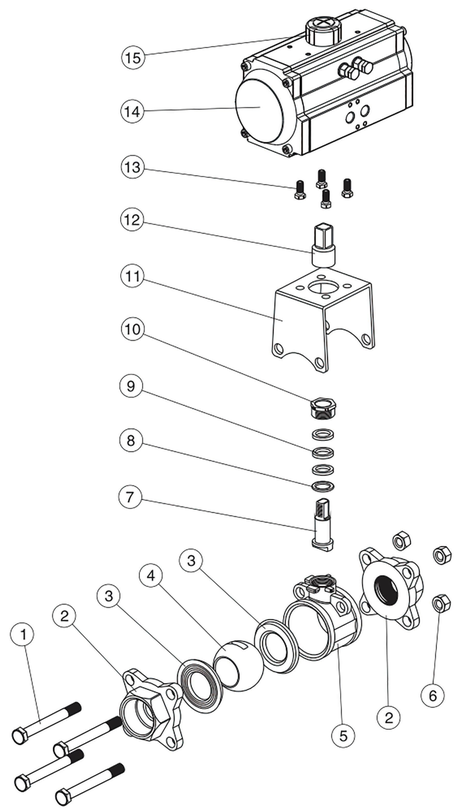
HGQ661
对焊连接
Welding connection



HGQ681
卡箍连接
Hoop connection



HGQ621
外螺纹连接
Outside thread connection



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
试验和检验 Test & inspection	JB/T9092	API 598

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

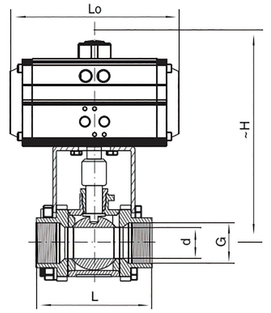
主要零件材质表 Form of Main Parts Materials

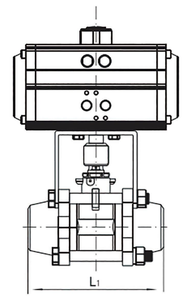
序号 No.	零件名称 Name of parts	材 质 Material
1	螺栓 Screw	不锈钢304
2	接头 Connector	不锈钢CF8、CF8M、CF3、CF3M
3	阀座 Seat	PTFE、尼龙(Nylon)、对位聚苯(PPL) 硬质合金(H/Y)
4	球体 Ball	不锈钢304、304L、316、316L
5	阀体 Body	不锈钢CF8、CF8M、CF3、CF3M Stainless Steel CF8、CF8M、CF3、CF3M
6	螺母 Nut	不锈钢304 Stainless Steel 304
7	阀杆 Stem	不锈钢304、304L、316、316L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

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

Pneumatic 3PC Ball Valve

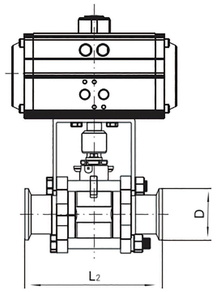
HGQ611

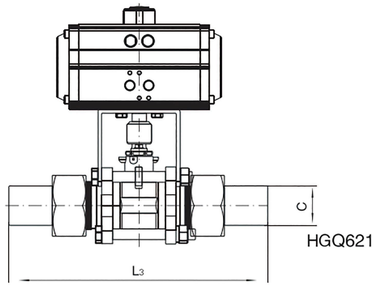




HGQ661

HGQ681



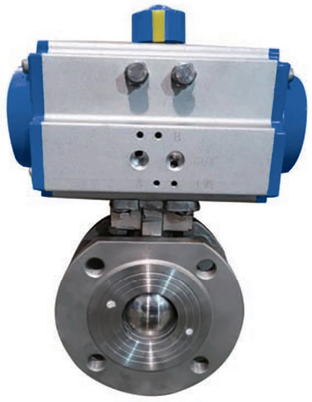


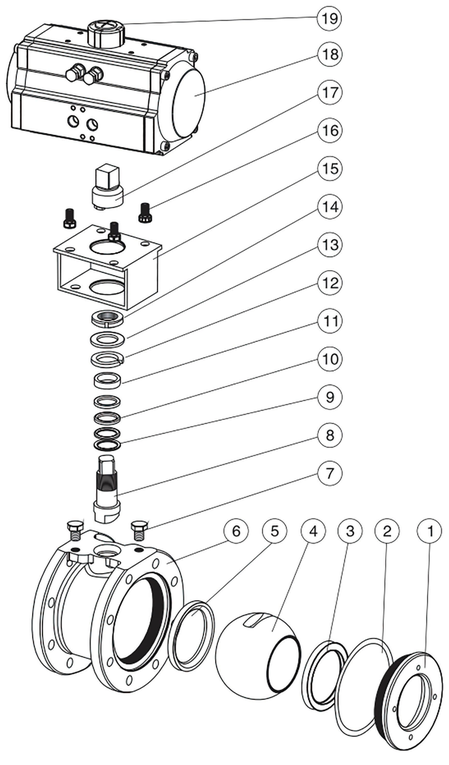
HGQ621

主要外形及连接尺寸HGQ61(6、8、2)1F(N、P、H、Y)–PN16~64(1.6~6.4MPa) Main Outline and Connecting Flange Size

公称通径 Nominal diameter		连接尺寸 Connecting size										执行器型号 Actuator Model
DN	in	d	L	G	L1	L2	D	L3	C	Lo	~H	
15	1/2	15	72	1 /2"	70	100	34	170	21	145/169	159/175	AT052DR/AT063SC
20	3/4	20	82	3 /4"	85	110	50.5	185	26	145/169	167/183	AT052DR/AT063SC
25	1	25	90	1"	95	120	50.5	200	31	145/201	172/215	AT052DR/AT075SC
32	1 1/4	32	112	1 1/4"	110	131	50.5	225	38	169/201	210/230	AT063DR/AT075SC
40	1 1/2	40	120	1 1/2"	201/209	98/108	50.5	260	46	169/209	218/248	AT075DR/AT083SC
50	2	50	145	2"	209/242	108/120	65	300	60	201/2429	248/283	AT083DR/AT092SC
65	2 1/2	65	185	2 1/2"	242/275	120/132	77.5			209/275	273/320	AT092DR/AT105SC
80	3	80	210	3"	275/332	132/148	91			242/332	313/335	AT105DR/AT125SC

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





技术规范 Technique norm

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

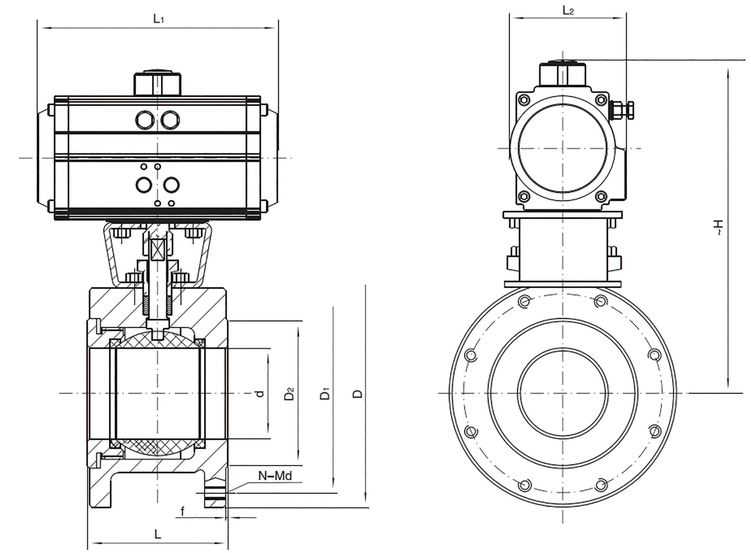
※注：系列球阀结构长度及连接法兰尺寸可根据用户要求设计制造。
Note：The structural length and connecting flange size of ball valve series can be designed and manufactured as per users'requirements.

主要零件材质表 Form of Main Parts Materials

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

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

气动薄型球阀 HGQ672F(N、P)–PN16、25
Pneumatic Thin Type Ball Valve
华工自控 HGZK HUAGONG AUTOMATIC CONTROL

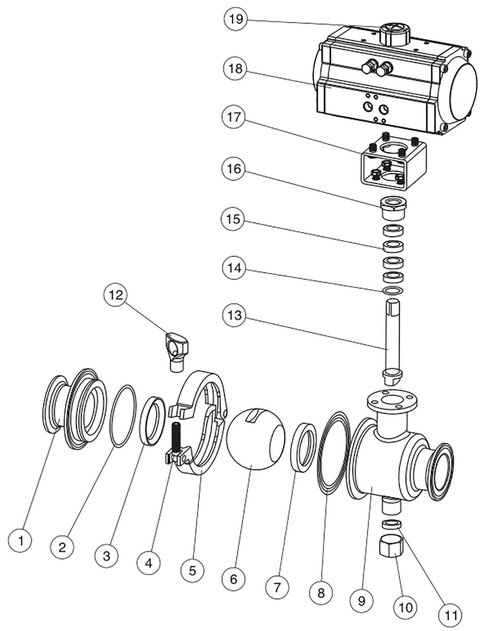


主要外形及连接尺寸HGQ672F(N、P)–PN16(1.6MPa)/PN25(2.5MPa) Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size					连接法兰尺寸 Connecting Flange Size						执行器型号 Actuator Model
	d	L	L_1	L_2	~H	D	D_1	D_2	B	f	N–Md	
15	15	32	145/169	75/84	177/208	95	65	46	14	2	4–M12	AT052DR/AT063SC
20	20	38.5	145/169	75/84	182/213	105	75	56	14	2	4–M12	AT052DR/AT063SC
25	25	45	145/201	75/98	187/230	115	85	65	16	2	4–M12	AT052DR/AT075SC
32	29	55	169/201	84/98	223/243	140	100	76	16	3	4–M16	AT063DR/AT075SC
40	38	62	201/209	98/108	231/261	150	110	84	18	3	4–M16	AT075DR/AT083SC
50	46	72	209/242	108/120	258/293	165	125	99	20	3	4–M16	AT083DR/AT092SC
65	62	95	242/275	120/132	273/298	185	145	118	22	3	4–M16	AT092DR/AT105SC
80	76	120	275/332	132/148	303/325	200	160	132	24	3	8–M16	AT105DR/AT125SC
100	92	145	332/385	148/165	333/390	220	180	156	24	3	8–M16	AT125DR/AT140SC
125	110	200	385/450	165/188	380/468	250	210	184	26	3	8–M16	AT140DR/AT160SC
150	145	225	450/507	188/215	432/520	285	240	211	26	3	8–M20	AT160DR/AT190SC

※注：连接法兰尺寸可根据ANSI、JIS标准或用户要求设计制造。
※注：L1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 connecting flange size can be designed and manufactured in accordance with ANSI or JIS standard or requested by users.
Note：Data XXX/XXX represent respectively the double–acting/single–acting type(spring reposition)of pneumatic actuator
Note：The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model





技术规范 Technique norm

设计依据 Design Basis	GB标准 Standard
设计标准 Design standard	GB/12237
试验和检验 Test & inspection	JB/T9092

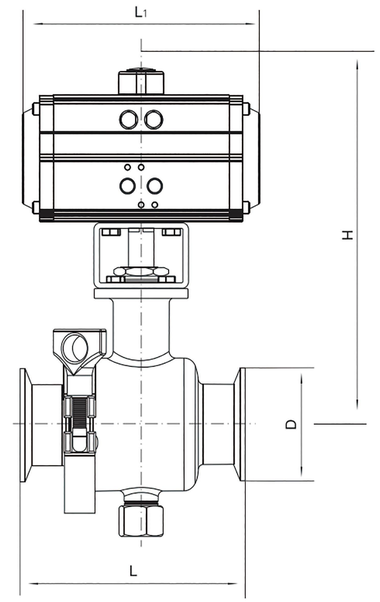
※注：系列球阀结构长度及连接法兰尺寸可根据用户要求设计制造。
Note：The structural length and connecting flange size of ball valve series can be designed and manufactured as per users'requirements.

主要零件材质表 Form of Main Parts Materials

序号 No	零件名称 Name of parts	材 质 Material	
		P	R
1	左阀体 Left valve	304	316
2	O形圈 "O"Ring	食品级橡胶 Food Ethylene rubber	食品级橡胶 Food Ethylene rubber
3	阀座 Seat	PTFE	PTFE
4	吊环螺栓 Lifting Ring Bolt	304	316
5	卡箍 Buckle	304	316
6	球体 Ball	304	316
7	阀座 Seat	PTFE	PTFE
8	垫片 Gasket	食品级橡胶 Food Ethylene rubber	食品级橡胶 Food Ethylene rubber
9	阀体 Body	304	316
10	螺母 Nut	304	316
11	垫片 Gasket	PTFE	PTFE
12	蝶形螺母 Butterfly Nut	304	316
13	阀杆 Stem	304	316
14	垫圈 Washer	304	316
15	填料 Packing	PTFE	PTFE
16	压盖 Gland	304	316
17	支架 Yoke	304	304
18	气动执行器 Pneumatic Actuator	AT系列 Series	
19	指示器 Indicator	塑料Plastic	

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

气动卡箍式快装卫生球阀HGWQ681F–PN16
Pneumatic Buckle Type Packaged Sanitary Ball Valve
华工自控 HGZK HUAGONG AUTOMATIC CONTROL



主要外形及连接尺寸HGWQ681F–PN16(1.6MPa) Main Outline and Connecting Flange Size

公称通径 ISO规格 mm	Nominal size in	外形连接尺寸 Connecting Flange Size				执行器型号 (双作用式) Actuator Model Double–acting Type
		D	L	L1	~H	
20	1/2	50.5	95	145/169	172	AT052DR/AT063SC
25	3/4	50.5	120	145/169	190	AT052DR/AT063SC
32	1	50.5	130	169/201	199	AT063DR/AT075SC
38	1 1/4	50.5	140	169/201	212	AT063DR/AT075SC
51	1 1/2	64	170	201/209	226	AT075DR/AT083SC
63	2	77.5	190	209/242	257	AT083DR/AT092SC
76	2 1/2	91	210	242/275	279	AT092DR/AT105SC
89	3	106	220	275/332	321	AT105DR/AT125SC
102	4	119	240	232/385	355	AT125DR/AT140SC

※注：根据不同阀门扭矩、使用介质适配或单作用式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.

产品用途及结构特点 Uses and Structural Features of Product

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

系列气动蝶阀结构特点为：

●**气动执行器**：采用新型AT系列气动执行器，其结构获得国家实用新型专利(ZL 2009 2 0175421.2)有双作用式和单作用式(弹簧复位)，采用齿轮齿条式结构传动，性能更安全可靠；大口径阀门采用AW系列气动执行器，采用拔叉式结构传动，结构合理，输出扭矩大，有双作用式和单作用式(弹簧复位)；详细参数请参考本公司AT系列及AW系列气动执行器样本。

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

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

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

●**The Structural Features of Pneumatic Butterfly Valves:**Pneumatic Actuator uses new–style AT pneumatic actuator, with double–acting and single–acting types (spring reposition),driven by gear and rack with high drpendability;big diameter valves are driven by AW pneumatic actuator on pull–extraction manner,with reasonable stucture and large output torque as well as double–acting and single–acting types (spring reposition). Refer to our stylebook of pneumatic actuator.

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

●**Three–eccentricity Structure Seal:**using metal and fluoroplastic for seat sealing. Metal sealed butterfly valves incorp orate seat with elastic sealing ring and multilayer composite butterfly plate.3–D eccentric sealing structure functions small friction upon starting and closing , dependable sealing, anti–friction, high–temperature resistance, self–centering effect, little leakage and ling life–span. Provided with the ad–vantages of reasonable structure, lightweight, small sie, dapper installation dmension, easy operat–ion and quick on–and–off,the fluid control valves have been rapidly developed and most widely used.

产品性能规范 Products Performance Specifucation

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

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

代 号 Code	材料 Material	适用温度(℃) Applicable Temperature
H	合金钢304、316 Alloy Steel 304,316	–30~425
F	增强聚四氟乙烯 Reinforced Polyterafluoroethylene(PTFE)	–40~180
X	丁腈橡胶 Buna–N Rubber	–12~82
	乙丙橡胶 Ethylene–propylene Rubber	–35~110
	食品级乙丙胶 Food Ethylene–propylene Rubber	–35~110
	氟橡胶 Fluorous rubber	–12~135
J	全衬里丁腈橡胶 Full–lining Buna–N Rubber	–12~82
F_4	全衬里聚四氟乙烯 Full–lining polyteafluoroethylene(PTFE)	–40~160

附件的选项 Selection Accessories

根据不同控制和要求可选择下列附件：

切断型附件：單電控電磁閥、雙電控電磁閥、限位開關回訊器。

调节型附件：電氣定位器、氣動定位器、電氣轉換器。

气源处理附件：空氣過濾減壓閥、氣源處理三聯件。

手动机构：ZTSD系列

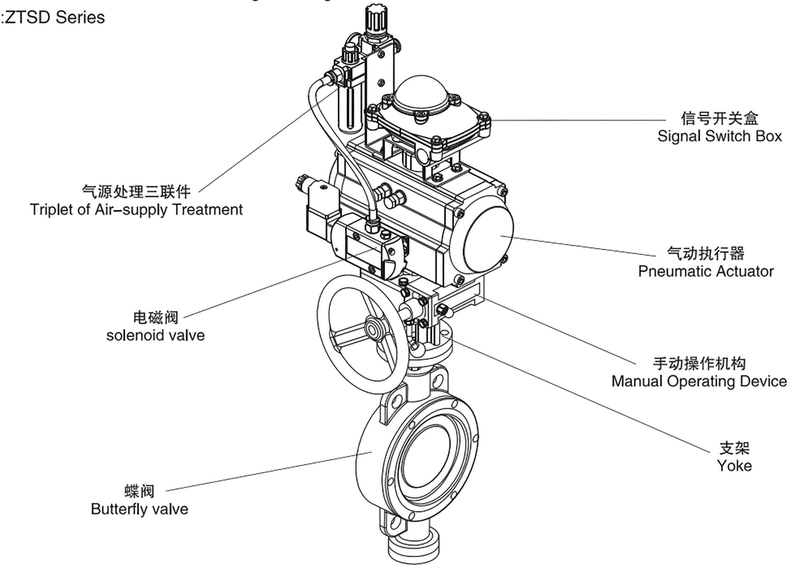
According to the different control and the request can choose the following accessories:

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

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

Air–supply Treatment Accessories: air–filtering reducing valve,F.R.L. Combination Unit.

Manual Devece:ZTSD Series



气动软密封中线蝶阀

型号：HGD67(4)1X(F、F4、J)
口径:DN50~1200mm
压力:0.6、1.0、1.6、2.5MPa；150Lb、300Lb
连接方式:对夹式连接、法兰式连接
尺寸标准:国标、美标
阀体材质:铸铁、碳钢(WCB)、不锈钢（CF8、CF8M）
阀座材料:橡胶(X)、聚四氟乙烯(F)
作用方式:双作用、单作用(弹簧复位)
控制方式:开关型、调节型
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

Pneumatic Air soft seal butterfly valve
Model:HGD67(4)1X(F，F4，J)
Bore:DN40-1200MM
Pressure: 0.6,1.6,2.5,4.0Mpa150Lb,300Lb
Connecting type: wafer type connecting,Flanged connecting
Dimension standard:GB，American Standard
Body material:Cast iron,Carbon steel (WCB)
Stainess steel (CF8，CF8M)
Seat material:X，PTFE
Mode of action: the double-acting/
single-acting type(spring reposition of pneumatic actuator
Control: Switch type,Adjust type
Selection of Accessories: solenoid valve ,
Locator, Limit switch,
F.R.L. Combination Unit，Manual Device.



技术规范 Technique norm

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

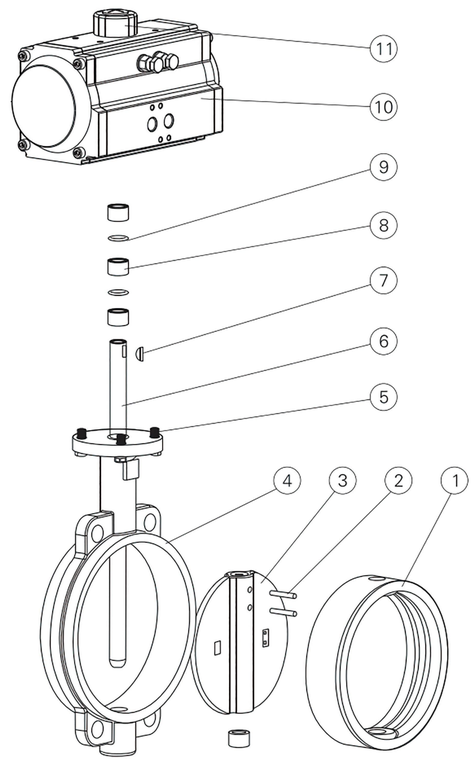
※注：系列蝶阀结构长度及连接法兰尺寸可根据用户要求设计制造。
Note：The structural length and connecting flange size of butterfly valve series can be designed and manufactured as per users' requirements.

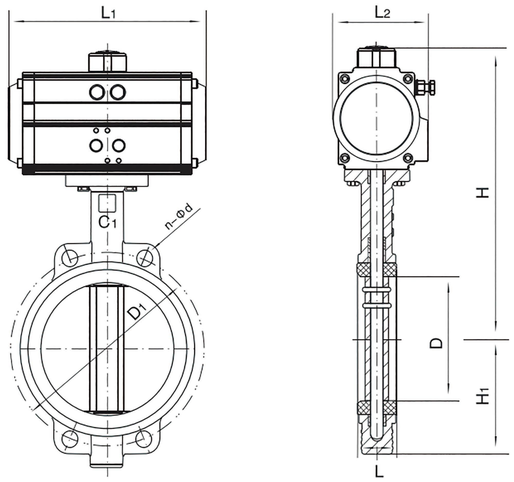
主要零件材质表 Form of Main Parts Materials

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

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







主要外形及连接尺寸 HGD671X(F、F4、J)–PN6.0、10 (0.6、1.0MPa) Main Outline and Connecting Flange Size

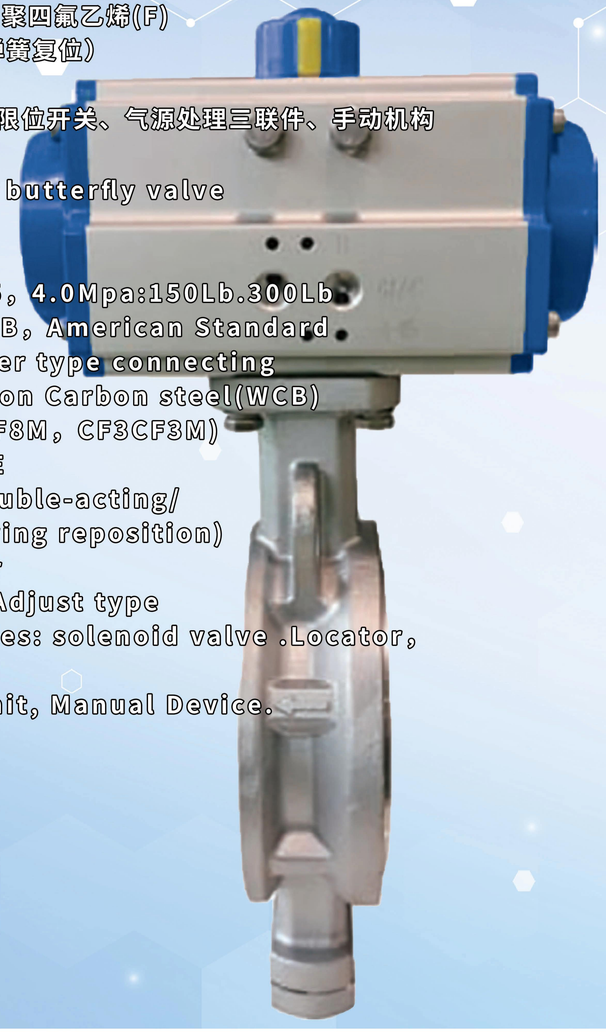
公称通径 Nominal diameter DN	外形尺寸 Outline Size					连接尺寸 Connecting Size			执行器型号 Actuator Model
	L	L1	L2	~H	H1	D	D1	n–Φd	
50	42	169/169	84/84	269/281	68	52.9	120	4–23	AT063DR/AT063SC
65	44.7	169/201	84/98	283/303	75	64.5	136.2	4–26.5	AT063DR/AT075SC
80	45.2	169/209	84/108	289/309	93	78.8	160	8–18	AT063DR/AT083SC
100	52.1	201/242	98/120	320/338	104	10.4	185	4–24.5	AT075DR/AT092SC
125	54.4	209/275	108/132	351/366	118	123.3	215	4–23	AT083DR/AT105SC
150	55.8	275/332	132/148	380/405	133	155.6	238	4–25	AT105DR/AT125SC
200	60.6	332/385	148/165	435/477	165	202.5	295	4–25	AT125DR/AT140SC
250	65.6	385/450	165/188	509/552	197	250.5	357	4–29	AT140DR/AT160SC
300	76.5	450/507	188/215	597/622	224	301.6	407	4–29	AT160DR/AT190SC
350	76.5	507/562	215/235	653/688	267	333.3	467	4–30	AT190DR/AT210SC
400	86.5	507/646	215/272	720/787	309	389.6	515	4–30	AT190DR/AT240SC
450	105.6	562/646	235/272	772/858	328	440.51	565	4–30	AT210DR/AT240SC
500	131.8	646/722	272/305	867/1004	361	491.5	620	4–33	AT240DR/AT270SC
600	152	722/1700	305/–	998/1220	459	592.5	725	4–36	AT270DR/AW25S
700	163	1320/1970	–/–	1116/1282	520	695	840	4–36	AW25/AW28S
800	188	1430/2700	–/–	1330/1007	591	794.7	950	4–39	AW28/AW35S

※注：数据XXX/XXX分别是气动执行器双作用式/单作用式(弹簧复位)。
根据不同的阀门扭矩、使用介质选配，不同的执行器型号，其相关尺寸随之变化。
Note：Data XXX/XXXrepresent respectively double–acting/singe–acting type(spring reposition).
The relative sizes are subject to change responding to different valve torques, mediums and actuator models.

气动对夹式三偏心蝶阀

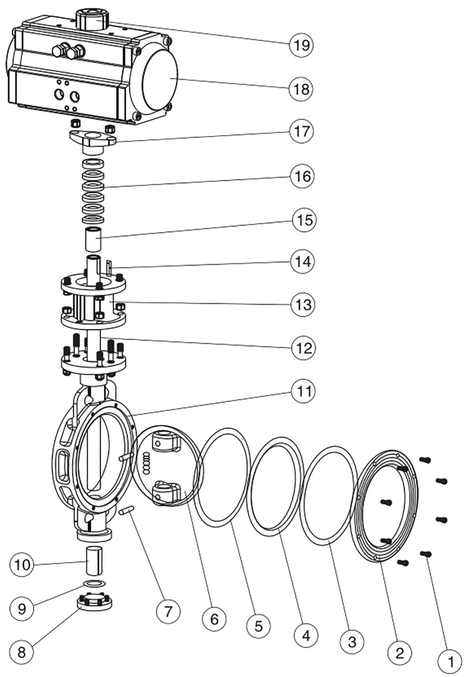
型号:HGD673H(F、Y)
口径:DN40~1200mm
压力:0.6、1.0、1.6、2.5、4.0Mpa;150Lb、300Lb
尺寸标准:国标、美标
连接方式:对夹式连接
阀体材质:铸铁、碳钢(WCB)、不锈钢(CF8、CF8M、CF3、CF3M)
阀座材料:金属密封(H、Y)、聚四氟乙烯(F)
作用方式:双作用、单作用(弹簧复位)
控制方式:开关型、调节型
附件选择:电磁阀、定位器、限位开关、气源处理三联件、手动机构

Pneumatic wafer type butterfly valve
Model:HGD673H(F，Y)
Bore:DN40-1200MM
Pressure:0.6，1.6，2.5，4.0Mpa:150Lb.300Lb
Dimension standard:GB，American Standard
Connecting type: wafer type connecting
Body material: Cast iron Carbon steel(WCB)
Stainess steel(CF8，CF8M，CF3CF3M)
Seat material:HY.PTFE
Mode of action:the double-acting/
single-acting type(spring reposition)
of pneumatic actuator
Control:Switch type，Adjust type
Selection of Accessories: solenoid valve .Locator，
Limit switch.
F.R.L. Combination Unit，Manual Device.



气动对夹式三偏心蝶阀HGD673H(F、Y)-PN16、25、40，Class150、300
Pneumatic Wafer Type Three-Eccentric Center Butterfly Valve





技术规范 Technique norm

设计依据 Design Basis		GB标准 Standard	ANSI标准 Standard
设计标准 Design standard		GB/12238	API609
结构长度 Face to face dimension	对夹 连接 Wafer connecting	GB/12221	ANSI B16.10
连接法兰尺寸 Connecting Flange Size		GB/9113、JB/T79	ANSI B16.5(2~24") ANSI B16.47(26~32")
试验和检验 Test & inspection		JB/T9092	API 598

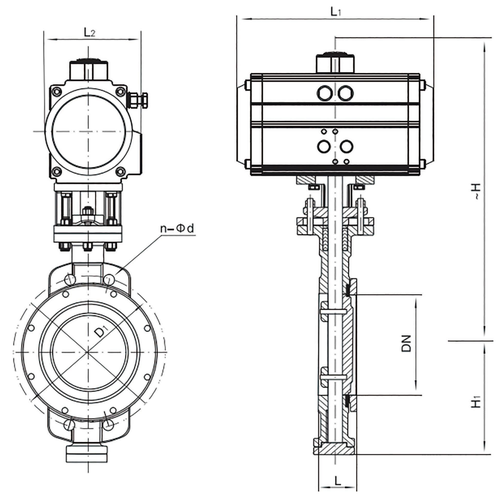
※注：系列蝶阀结构长度及连接法兰尺寸可根据用户要求设计制造。
Note：The Face to Face Dimension and connecting flange size of butterfly valve series can be designed and manufactured as per users' requirements.

主要零件材质表 Form of Main Parts Materials

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

※注：系列蝶阀主要零部件及密封圈的材质可根据实际工况条件或用户特殊要求设计选用。
Note：The Materials for main parts and ball seats of the butterfly valve series can be designed and optioned as per the actual working conditions and users' special requirements.

气动对夹式三偏心蝶阀HGD673H(F、Y)-PN16
Pneumatic Wafer Type Three-Eccentric Center Butterfly Valve



主要外形及连接尺寸 HGD673H(F、Y)-PN16(1.6MPa) Main Outline and Connecting Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size L	L1	L2	~H	H1	连接尺寸 Connecting Size D1	n-Φd	执行器型号 Actuator Model
50	43	165/165	84/84	277/205	65	125	4-Φ18	AT063DR/AT063SC
65	46	165/201	84/98	287/315	75	145	4-Φ18	AT063DR/AT075SC
80	46	201/209	98/108	365/375	85	160	8-Φ18	AT075DR/AT083SC
100	52	209/242	108/120	420/436	130	180	8-Φ18	AT083DR/AT092SC
125	56	275/332	132/148	436/462	175	210	8-Φ18	AT105DR/AT125SC
150	56	332/385	148/165	466/543	190	240	8-Φ22	AT125DR/AT140SC
200	60	385/450	165/188	593/665	215	295	12-Φ22	AT140DR/AT160SC
250	68	450/507	188/215	682/752	265	355	12-Φ26	AT160DR/AT190SC
300	78	507/562	215/235	725/772	305	410	12-Φ26	AT190DR/AT210SC
350	78	562/646	235/272	832/880	340	470	16-Φ26	AT210DR/AT240SC
400	102	646/722	272/305	862/968	360	525	16-Φ30	AT240DR/AT270SC
450	114	646/1700	272/440	945/1005	400	585	20-Φ30	AT240DR/AW25S
500	127	722/1700	305/440	1058/1060	430	650	20-Φ33	AT270DR/AW25S
600	154	1320/1970	440/480	1108/1195	190	770	20-Φ36	AW25/AW28S
700	165	1430/2700	480/560	1170/1255	555	840	24-Φ36	AW28/AW35S
800	190	1430/2700	480/560	1325/1365	620	950	24-Φ39	AW28/AW35S

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

主要外形及连接尺寸 HGD673H(F、Y)–PN25(2.5MPa) Main Outline and Connecting Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size					连接尺寸Connecting Size		执行器型号 Actuator Model
	L	L1	L2	~H	H1	D1	n–Φd	
50	43	145/201	84/98	277/305	65	125	4–Φ18	AT063DR/AT075SC
65	46	145/209	84/108	287/325	75	145	8–Φ18	AT063DR/AT083SC
80	46	209/242	108/120	365/391	85	160	8–Φ18	AT083DR/AT092SC
100	52	242/275	120/132	420/457	130	190	8–Φ22	AT092DR/AT105SC
125	56	275/332	132/148	436/462	175	220	8–Φ26	AT105DR/AT125SC
150	56	385/450	165/188	466/543	190	250	8–Φ26	AT140DR/AT160SC
200	60	450/507	188/215	593/665	215	310	12–Φ26	AT160DR/AT190SC
250	68	507/562	215/235	682/752	265	370	12–Φ30	AT190DR/AT210SC
300	78	562/646	235/272	402/820	305	430	16–Φ30	AT210DR/AT240SC
350	78	646/722	272/305	832/938	340	490	16–Φ33	AT240DR/AT270SC
400	102	646/1700	272/440	910/968	360	550	16–Φ36	AT240DR/AW25S
450	114	722/1970	305/480	1005/1010	400	600	20–Φ36	AT270DR/AW28S
500	127	1180/1700	365/440	1058/1065	430	660	20–Φ36	AW25/AW28S
600	154	1700/1970	440/480	1110/1195	490	770	20–Φ39	AW28/AW35S
700	165	1320/2700	480/560	1255/1295	555	875	24–Φ42	AW28/AW35S
800	190	1950/2700	560/580	1325/1365	620	990	24–Φ48	AW35/AW40S

主要外形及连接尺寸 HGD673H(F、Y)–PN40(4.0MPa) Main Outline and Connecting Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size					连接尺寸 Connecting Size		执行器型号 Actuator Model
	L	L1	L2	~H	H1	D1	n–Φd	
50	43	201/209	98/108	277/305	65	125	4–Φ18	AT075DR/AT083SC
65	46	201/242	98/120	310/341	75	145	8–Φ18	AT075DR/AT092SC
80	46	209/275	108/132	375/412	85	160	8–Φ18	AT083DR/AT105SC
100	52	3275/332	132/148	436/462	130	190	8–Φ22	AT105DR/AT125SC
125	56	332/450	148/188	462/513	175	220	8–Φ26	AT125DR/AT160SC
150	56	450/562	188/235	543/615	190	250	8–Φ26	AT160DR/AT210SC
200	60	507/646	215/272	665/760	215	320	12–Φ30	AT190DR/AT240SC
250	68	562/646	235/272	752/858	265	385	12–Φ33	AT210DR/AT240SC
300	78	646/722	272/305	820/880	305	450	16–Φ33	AT240DR/AT270SC
350	78	722/1700	305/440	938/940	340	510	16–Φ36	AT270DR/AW25S
400	102	1180/1700	325/440	970/1055	360	585	16–Φ39	AW20/AW25S
450	114	1180/1700	325/440	1005/1090	400	610	20–Φ39	AW20/AW25S
500	127	1320/1970	440/480	1145/1185	430	670	20–Φ42	AW25/AW28S
600	154	1430/2700	480/560	1195/1235	490	795	20–Φ48	AW28/AW35S

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

主要外形及连接尺寸 HGD673H(F、Y)–Class150 Main Outline and Connecting Size

公称通径 Nominal diameter		外形尺寸 Outline Size					连接尺寸 Connecting Size		执行器型号 Actuator Model
DN	in	L	L1	L2	~H	H1	D1	n–Φd	
50	2	43	169/201	84/98	277/305	65	120.5	4–Φ19	AT063DR/AT075SC
65	2 1/2	46	169/209	84/108	287/325	75	139.5	4–Φ19	AT063DR/AT083SC
80	3	46	209/242	108/120	365/391	85	152.5	4–Φ19	AT083DR/AT092SC
100	4	52	242/275	120/132	420/457	130	190.5	8–Φ19	AT092DR/AT105SC
125	5	56	242/332	120/148	436/462	175	216	8–Φ22	AT92DR/AT125SC
150	6	56	275/385	132/165	466/543	190	241.5	8–Φ22	AT105DR/AT140SC
200	8	60	385/507	165/215	593/665	215	298.5	8–Φ22	AT140DR/AT190SC
250	10	68	450/562	188/235	682/752	265	362	12–Φ25	AT160DR/AT210SC
300	12	78	507/646	215/272	702/820	305	432	12–Φ25	AT190DR/AT240SC
350	14	78	562/646	235/272	832/938	340	476	12–Φ29	AT210DR/AT240SC
400	16	102	646/722	272/305	910/968	360	540	16–Φ29	AT240DR/AT270SC
450	18	114	646/722	272/305	1005/1010	400	578	16–Φ32	AT240DR/AT270SC
500	20	127	722/1700	305/440	1058/1065	430	635	20–Φ32	AT270DR/AW25S
600	24	154	1180/1700	365/440	1110/1195	490	749.5	20–Φ35	AW20/AW25S
700	28	165	1320/1970	440/480	1255/1295	555	863.6	28–Φ35	AW25/AW28S
800	32	190	1430/2700	480/560	1325/1365	620	978	28–Φ41	AW28/AW35S

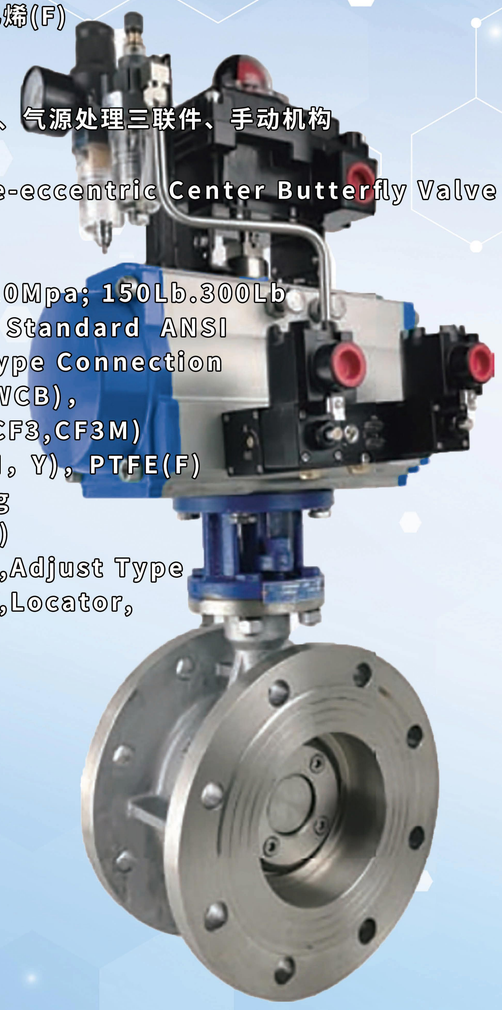
主要外形及连接尺寸 HGD673H(F、Y)–Class300 Main Outline and Connecting Size

公称通径 Nominal diameter		外形尺寸 Outline Size					连接尺寸 Connecting Size		执行器型号 Actuator Model
DN	in	L	L1	L2	~H	H1	D1	n–Φd	
50	2	43	169/209	84/108	277/305	65	127	8–Φ19	AT063DR/AT083SC
65	2 1/2	46	210/242	98/120	310/341	75	149	8–Φ22	AT075DR/AT092SC
80	3	46	209/375	108/132	375/412	85	168.5	8–Φ22	AT083DR/AT105SC
100	4	52	242/332	120/148	436/462	130	200	8–Φ22	AT92DR/AT125SC
125	5	56	332/450	148/188	462/513	175	235	8–Φ22	AT125DR/AT160SC
150	6	56	385/507	165/215	543/615	190	270	12–Φ22	AT140DR/AT190SC
200	8	60	450/562	188/235	665/760	215	330	12–Φ25	AT160DR/AT210SC
250	10	68	507/646	215/272	752/858	265	387.5	16–Φ29	AT190DR/AT240SC
300	12	78	562/722	235/305	820/880	305	451	16–Φ32	AT210DR/AT270SC
350	14	78	646/722	272/305	938/940	340	514.5	20–Φ32	AT240DR/AT270SC
400	16	102	722/1700	272/440	970/1055	360	571.5	20–Φ35	AT270DR/AW25S
450	18	114	1180/1700	365/440	1005/1090	400	628.5	24–Φ35	AW20/AW25S
500	20	127	1320/1970	440/480	1145/1185	430	686	24–Φ35	AW25/AW28S
600	24	154	1430/2700	480/560	1195/1235	490	813	24–Φ41	AW28/AW35S

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

气动法兰式三偏心蝶阀

型号:HGD643H(F、Y)
口径:DN50-1200mm
压力:0.6、1.0、1.6、2.5、4.0Mpa;150Lb、300Lb
尺寸标准:国标、美标
连接方式:法兰式连接
阀体材质:碳钢(WCB)、不锈钢(CF8、CF8M、CF3、CF3M)
阀座材料:金属密封(H、Y)、聚四氟乙烯(F)
作用方式:双作用、单作用(弹簧复位)
控制方式:开关型、调节型
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



Pneumatic Flange Type Three-eccentric Center Butterfly Valve
Model:JLD643H(F，Y).
Bore:DN50~1200mm
Pressure:0.6，1.0，1.6，2.54.0Mpa; 150Lb.300Lb
Dimension Standard:Chinese Standard ANSI
Type of Connection:Flange Type Connection
Body Material Carbon Steel(WCB),
Stainless Steel(CF8，CF8M，CF3,CF3M)
Seat Material:Metal Sealed(H，Y)，PTFE(F)
Mode of Action:Double-acting
Singlle-acting(Spring Return)
Mode of Control:Switch Type,Adjust Type
Annex Choice:Solenoid Valve,Locator,
Limit Switch,
F.R.L.Combination Unit,
Manual Organization

技术规范 Technique norm

设计依据 Design Basis		GB标准 Standard	ANSI标准 Standard
设计标准 Design standard		GB/12238	API609
结构长度 Face to face dimension	法兰连接 Flange connecting	GB/12221	ANSI B16.10
连接法兰尺寸 Connecting Flange Size		GB/9113、JB/T79	
试验和检验 Test & inspection		JB/T9092	API 598

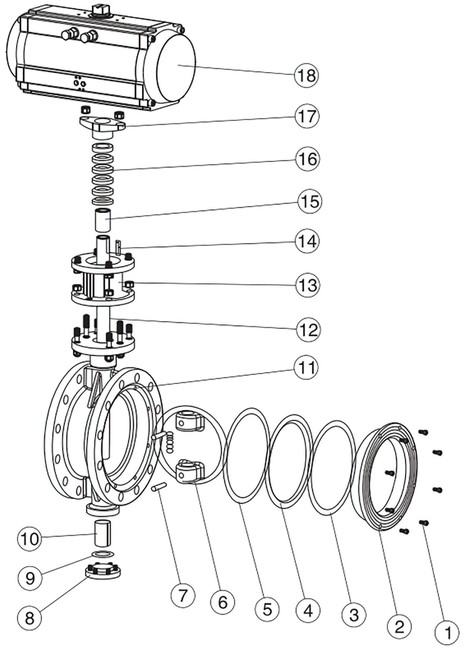
※注：系列蝶阀结构长度及连接法兰尺寸可根据用户要求设计制造。
Note：The Face to Face Dimension and connecting flange size of butterfly valve series can be designed and manufactured as per users' requirements.

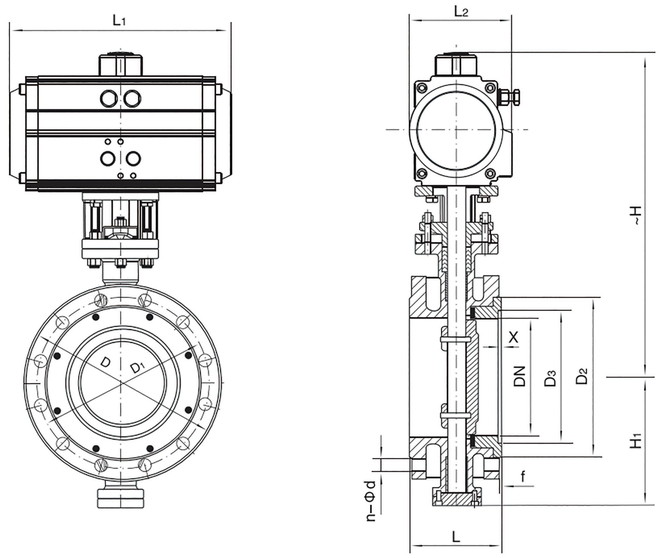
主要零件材质表 Form of Main Parts Materials

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

※注：系列蝶阀主要零部件及密封圈的材质可根据实际工况条件或用户特殊要求设计选用。
Note：The Materials for main parts and ball seats of the butterfly valve series can be designed and optioned as per the actual working conditions and users' special requirements.







主要外形及连接尺寸HGD643H(F、Y)–PN16(1.6MPa)Main Outline and Connecting Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size					连接尺寸 Connecting Size					执行器型号 Actuator Model
	L	L1	L2	~H	H1	D	D1	D2	f	n–Φd	
50	108	165/165	84/84	277/205	65	165	125	99	3	4–Φ18	AT063DR/AT063SC
65	112	165/201	84/98	287/315	75	185	145	118	3	4–Φ18	AT063DR/AT075SC
80	114	201/209	98/108	365/375	85	200	160	132	3	8–Φ18	AT075DR/AT083SC
100	127	209/242	108/120	420/436	130	220	180	156	3	8–Φ18	AT083DR/AT092SC
125	140	275/332	132/148	436/462	175	250	210	184	3	8–Φ18	AT105DR/AT125SC
150	140	332/385	148/165	466/543	190	285	240	211	3	8–Φ22	AT125DR/AT140SC
200	152	385/450	165/188	593/665	215	340	295	266	3	12–Φ22	AT140DR/AT160SC
250	165	450/507	188/215	682/752	265	405	355	319	3	12–Φ26	AT160DR/AT190SC
300	178	507/562	215/235	725/772	305	460	410	370	4	12–Φ26	AT190DR/AT210SC
350	190	562/646	235/272	832/880	340	520	470	429	4	16–Φ26	AT210DR/AT240SC
400	216	646/722	272/305	862/968	360	580	525	480	4	16–Φ30	AT240DR/AT270SC
450	222	646/1700	272/440	945/1005	400	640	585	548	4	20–Φ30	AT240DR/AW25S
500	229	722/1700	305/440	1058/1060	430	715	650	609	4	20–Φ33	AT270DR/AW25S
600	267	1180/1700	365/440	1108/1195	190	840	770	720	5	20–Φ36	AW20/AW25S
700	292	1320/1970	440/480	1170/1255	555	910	840	794	5	24–Φ36	AW25/AW28S
800	318	1430/2700	480/560	1325/1365	620	1025	950	901	5	24–Φ39	AW28/AW35S

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

主要外形及连接尺寸HGD643H(F、Y)–PN25(2.5MPa)Main Outline and Connecting Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size					连接尺寸 Connecting Size					执行器型号 Actuator Model
	L	L1	L2	~H	H1	D	D1	D2	f	n–Φd	
50	108	145/201	84/98	277/305	65	165	125	99	3	4–Φ18	AT063DR/AT075SC
65	112	145/209	84/108	287/325	75	185	145	118	3	8–Φ18	AT063DR/AT083SC
80	114	209/242	108/120	365/391	85	200	160	132	3	8–Φ18	AT083DR/AT092SC
100	127	242/275	120/132	420/457	130	235	190	156	3	8–Φ22	AT092DR/AT105SC
125	140	275/332	132/148	436/462	175	270	220	184	3	8–Φ26	AT105DR/AT125SC
150	140	385/450	165/188	466/543	190	300	250	211	3	8–Φ26	AT140DR/AT160SC
200	152	450/507	188/215	593/665	215	360	310	274	3	12–Φ26	AT160DR/AT190SC
250	165	507/562	215/235	682/752	265	425	370	330	3	12–Φ30	AT190DR/AT210SC
300	178	562/646	235/272	702/820	305	485	430	389	4	16–Φ30	AT210DR/AT240SC
350	190	646/722	272/305	832/938	340	555	490	448	4	16–Φ33	AT240DR/AT270SC
400	216	646/1700	272/440	910/968	360	620	550	503	4	16–Φ36	AT240DR/AW25S
450	222	722/1700	305/440	1005/1010	400	670	600	548	4	20–Φ36	AT270DR/AW25S
500	229	722/1700	305/440	1058/1065	430	730	660	609	4	20–Φ36	AT270DR/AW25S
600	267	1320/1970	440/480	1110/1195	490	845	770	720	4	20–Φ39	AW25/AW28S
700	292	1320/2700	480/560	1255/1295	555	960	875	820	5	24–Φ42	AW28/AW35S
800	318	1950/2700	560/580	1325/1365	620	1085	990	928	5	24–Φ48	AW35/AW40S

主要外形及连接尺寸HGD643H(F、Y)–PN40(4.0MPa)Main Outline and Connecting Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size					连接尺寸 Connecting Size						执行器型号 Actuator Model
	L	L1	L2	~H	H1	D	D1	D2	f	D3 x X	n–Φd	
50	108	201/209	98/108	277/305	65	165	125	99	3	88×4	4–Φ18	AT075DR/AT083SC
65	112	201/242	98/120	310/341	75	185	145	118	3	110×4	8–Φ18	AT075DR/AT092SC
80	114	209/275	108/132	375/412	85	200	160	132	3	121×4	8–Φ18	AT083DR/AT105SC
100	127	3275/332	132/148	436/462	130	235	190	156	3	150×4.5	8–Φ22	AT105DR/AT125SC
125	140	332/450	148/188	462/513	175	270	220	184	3	176×4.5	8–Φ26	AT125DR/AT160SC
150	140	450/562	188/235	543/615	190	300	250	211	3	204×4.5	8–Φ26	AT160DR/AT210SC
200	152	507/646	215/272	665/760	215	375	320	284	3	260×4.5	12–Φ30	AT190DR/AT240SC
250	165	562/646	235/272	752/858	265	450	385	315	3	313×4.5	12–Φ33	AT210DR/AT240SC
300	178	646/722	272/305	820/880	305	515	450	409	4	364×4.5	16–Φ33	AT240DR/AT270SC
350	190	722/1700	305/440	938/940	340	580	510	465	4	422×5	16–Φ36	AT270DR/AW25S
400	216	1180/1700	365/440	970/1055	360	660	585	535	4	474×5	16–Φ39	AW20/AW25S
450	222	1180/1970	440/480	1005/1090	400	685	610	560	4	524×5	20–Φ39	AW20/AW28S
500	229	1320/1970	440/480	1145/1185	430	755	670	615	4	576×5	20–Φ42	AW25/AW28S
600	267	1970/2700	480/560	1195/1235	490	890	795	735	5	676×5	20–Φ48	AW28/AW35S

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

主要外形及连接尺寸 HGD643H(F、Y)–Class 150 Main Outline and Connecting Size

公称通径 Nominal diameter		外形尺寸 Outline Size					连接尺寸 Connecting Size					执行器型号 Actuator Model
DN	in	L	L_1	L_2	~H	H_1	D	D_1	D_2	f	n–Φd	
50	2	108	169/201	84/98	277/305	65	152	120.5	92	2	4–Φ19	AT063DR/AT075SC
65	2 1/2	112	169/209	84/108	287/325	75	178	139.5	105	2	4–Φ19	AT063DR/AT083SC
80	3	114	209/242	108/120	365/391	85	190	152.5	127	2	4–Φ19	AT083DR/AT092SC
100	4	127	242/275	120/132	420/457	130	229	190.5	157	2	8–Φ19	AT092DR/AT105SC
125	5	140	272/332	132/148	436/462	175	254	216	186	2	8–Φ22	AT105DR/AT125SC
150	6	140	332/385	148/165	466/543	190	279	241.5	216	2	8–Φ22	AT125DR/AT140SC
200	8	152	385/507	165/215	593/665	215	343	298.5	270	2	8–Φ22	AT140DR/AT190SC
250	10	165	450/562	188/235	682/752	265	406	362	324	2	12–Φ25	AT160DR/AT210SC
300	12	178	507/646	215/272	702/820	305	483	432	381	2	12–Φ25	AT190DR/AT240SC
350	14	190	562/646	235/272	832/938	340	533	476	413	2	12–Φ29	AT210DR/AT240SC
400	16	216	646/722	272/305	910/968	360	597	540	470	2	16–Φ29	AT240DR/AT270SC
450	18	222	646/722	272/305	1005/1010	400	635	578	533	2	16–Φ32	AT240DR/AT270SC
500	20	229	722/1700	305/440	1058/1065	430	699	635	584	2	20–Φ32	AT270DR/AW25S
600	24	267	1180/1700	365/440	1110/1195	490	813	749.5	682	2	20–Φ35	AW20/AW25S
700	28	292	1320/1970	440/480	1255/1295	555	947	863.6	800	2	28–Φ35	AW25/AW28S
800	32	318	1430/2700	480/560	1325/1365	620	1060	978	914	2	28–Φ41	AW28/AW35S

主要外形及连接尺寸 HGD643H(F、Y)–Class 300 Main Outline and Connecting Size

公称通径 Nominal diameter		外形尺寸 Outline Size					连接尺寸 Connecting Size					执行器型号 Actuator Model
DN	in	L	L_1	L_2	~H	H_1	D	D_1	D_2	f	n–Φd	
50	2	108	169/209	84/108	277/305	65	165	127	92	2	8–Φ19	AT063DR/AT083SC
65	2 1/2	112	201/242	98/120	310/341	75	190	149	105	2	8–Φ22	AT075DR/AT092SC
80	3	114	242/275	120/132	375/412	85	210	168.5	127	2	8–Φ22	AT092DR/AT105SC
100	4	127	242/332	120/148	436/462	130	254	200	157	2	8–Φ22	AT92DR/AT125SC
125	5	140	332/450	148/188	462/513	175	279	235	186	2	8–Φ22	AT125DR/AT160SC
150	6	140	385/450	165/188	543/615	190	318	270	216	2	12–Φ22	AT140DR/AT160SC
200	8	152	450/562	188/215	665/760	215	381	330	270	2	12–Φ25	AT160DR/AT210SC
250	10	165	507/646	215/272	752/858	265	445	387.5	324	2	16–Φ29	AT190DR/AT240SC
300	12	178	562/722	235/305	820/880	305	521	451	381	2	16–Φ32	AT210DR/AT270SC
350	14	190	646/1700	272/440	938/940	340	584	514.5	413	2	20–Φ32	AT240DR/AW25S
400	16	216	722/1700	305/440	970/1055	360	648	571.5	470	2	20–Φ35	AT270DR/AW25S
450	18	222	722/1700	305/440	1005/1090	400	711	628.5	533	2	24–Φ35	AT270DR/AW25S
500	20	229	1180/1970	365/480	1145/1185	430	775	686	584	2	24–Φ35	AW20/AW28S
600	24	267	1320/1970	440/480	1195/1235	490	914	813	682	2	24–Φ41	AW25/AW28S

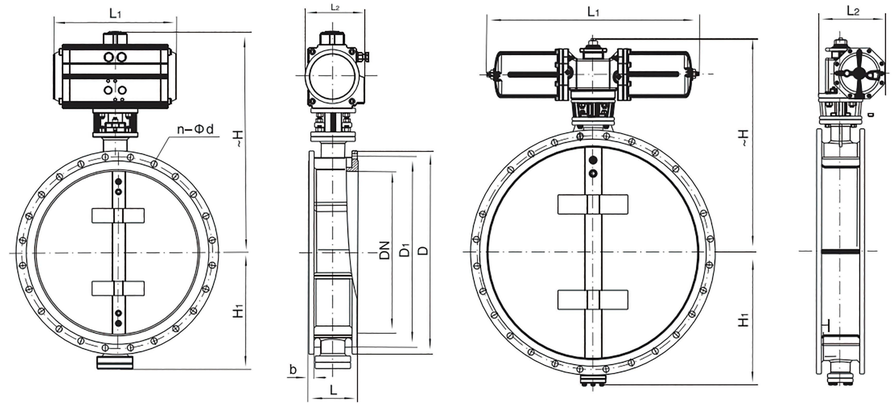
※注：系列球阀结构长度及连接法兰尺寸可根据JB/T79标准或用户要求设计制造。
※注：数据XXX/XXX分别是气动执行器双作用式/单作用式(弹簧复位)。
※注：根据不同阀门扭矩、使用介质适配的执行器型号可能有所不同，相关尺寸随之变化。
※注：以上执行器配置及数据均采用软密封(F)阀门，硬密封阀门的配置及数据请咨询本公司。
Note：The strrctural length and connecting flange size of ball valve series can be designed and manufactured as per JB/T79 standard or users'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

气动通风蝶阀

型号:JLD641W
口径:DN50~4000mm
压力:0.25、0.6MPa;
尺寸标准:国标
连接方式:法兰式连接
阀体材质:碳钢(WCB)、不锈钢(CF8、CF8M、CF3、CF3M)
阀座材料:金属密封(W)
作用方式:双作用、单作用(弹簧复位)
控制方式:开关型、调节型
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

Pneumatic Ventilation Butterfly Valve
Model:HGD641W
Bore:DN50~4000mm
Pressure:0.25，0.6MPa
Dimension Standard:Chinese Standard
Type of connection:Flange Type Connection
Body Material Carbon Steel(WCB)
Stainless Steel(CF8，CF8M，CF3,CF3M)
Seat Material:Metal Sealed(W)
Mode of Action:Double-acting
Single-acting(Spring Return)
Mode of Control:Switch Type,Adjust Type
Annex Choice:Solenoid Valve,Locator. Limit Switch,
F.R.L. Combination Unit,Manualll Organization





主要外形及连接法兰尺寸 HGD641W-PN2.5~6.0(0.25~0.6MPa) Main Outline and Connecting Flange Size

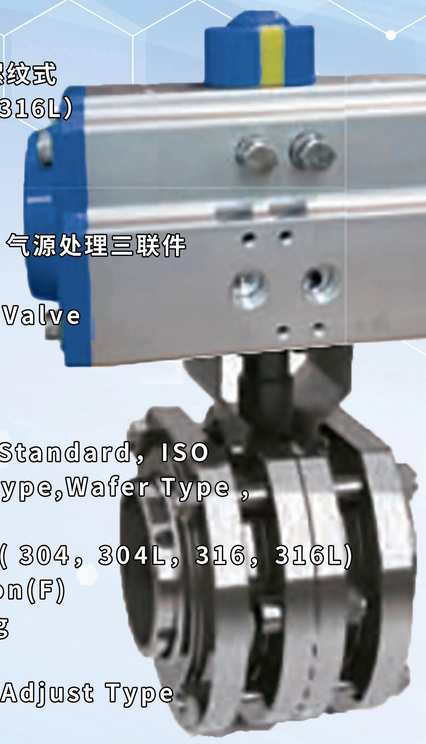
公称通径 Nominal diameter DN	外形尺寸 Outline Size					连接尺寸 Connecting Size PN2.5、PN6.0				执行器型号 Actuator Model
	L_1	L_2	H	H_1	L	D	D_1	D_2	n-Φd	
50	145	75	286	70	100	140	110	88	4-14	AT052DR
65	145	75	306	80	100	160	130	108	4-14	AT052DR
80	145	75	334	95	100	190	150	124	4-18	AT052DR
100	169	84	354	105	100	210	170	144	4-18	AT063DR
125	169	84	384	120	100	240	200	174	8-18	AT063DR
150	201	98	409	132	100	265	225	199	8-18	AT075DR
200	209	108	593	160	120	320	280	254	8-18	AT083DR
250	242	120	650	187	120	375	335	309	12-18	AT092DR
300	275	132	715	220	120	440	395	363	12-22	AT105DR
350	275	132	814	245	140	490	445	413	12-22	AT105DR
400	332	148	863	270	140	540	495	463	16-22	AT125DR
450	332	148	918	297	160	595	550	518	16-22	AT125DR
500	385	165	1016	322	160	645	600	568	20-22	AT140DR
600	450/750	188/210	1128	377	180	755	705	667	20-26	AT160DR/AW13
700	507/750	215/210	1233	430	180	860	810	772	24-26	AT190DR/AW13
800	507/900	215/275	1344	487	200	975	920	878	24-30	AT190DR/AW17
900	507/900	215/275	1560	537	200	1075	1020	978	24-30	AT190DR/AW17
1000	507/900	215/275	1660	587	220	1175	1120	1078	28-30	AT190DR/AW17
1200	507/900	215/275	1890	687	240	1405	1340	1295	32-33	AT190DR/AW17
1400	562/900	235/275	2670	760	260	1630	1560	1510	36-36	AT210DR/AW17
1600	646/900	272/275	2810	895	280	1830	1760	1710	40-36	AT240DR/AW17
1800	6461180	272/365	3020	995	300	2045	1970	1918	44-39	AT240DR/AW20
2000	722/1800	305/365	3220	1095	320	2265	2180	2125	48-42	AT270DR/AW20

注：数据XXX/XXX分别是气动双作用执行器型号AT/AW尺寸。
本表执行器为推荐配比，用户可根据不同的阀门扭矩、使用介质选配，不同的执行器型号，其相关尺寸随之变化。
Note：Data xxx/xxx represent respectively size AT/AW pneumatic double-acting actuator.
The actuator of this form is the recommended ratio, the relative sizes are subjects to change responding to the difference in valve torque, medium and actuator model.

气动卫生级蝶阀

型号:HGWD62(6、8、7)1X
口径:DN20~150mm
压力:0.6、1.0、1.6MPa;
尺寸标准:国标、ISO
连接方式:焊接式、对夹式、卡箍式、螺纹式
阀体材质:不锈钢(304、304L、316、316L)
阀座材料:橡胶(X)、氟橡胶(F)
作用方式:双作用、单作用(弹簧复位)
控制方式:开关型、调节型
附件选择:电磁阀、定位器、限位开关、气源处理三联件

Pneumatic Sanitary Butterfly Valve
Model:HGWD62(6，8，7)1X
Bore:DN20~150mm
Pressure:0.6，1.0，1.6MPa
Dimension Standard;Chinese Standard，ISO
Type of connection:Welding Type,Wafer Type，
Hoop Type,ScrewThread Type
Body Material Stainless Steel(304，304L，316，316L)
Seat Material:Rubber(X)，Viton(F)
Mode of Action:Double-acting
Single-acting(Spring Return)
Mode of Control:Switch Type,Adjust Type
Annex Choice:Solenoid Valve.
Locator，Limit Switch，F.RL. Combination Unit，
Manual Organization







HGWD621X
外螺纹连接
Outside Thread Connection



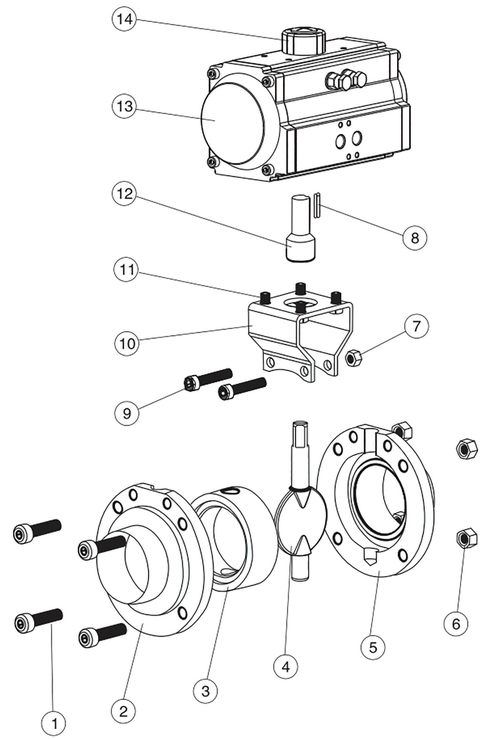
HGWD661X
对焊连接
Welding Connection



HGWD681X
卡箍连接
Hoop Connection



HGWD676X
三片式焊接
3PC welding



※注：系列蝶阀主要零部件及密封圈的材质可根据实际工况条件或用户特殊要求设计选用。
Note：The Materials for main parts and ball seats of the butterfly valve series can be designed and optioned as per the actual working conditions and users' special requirements.

技术规范 Technique norm

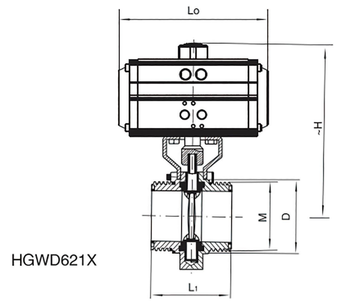
设计依据 Design Basis	GB标准 Standard
设计标准 Design standard	GB/T2238–1989
试验和检验 Test & inspection	JB/T9092

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

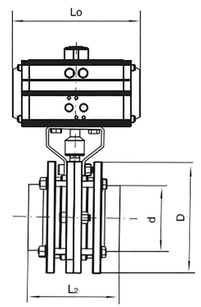
主要零件材质表 Form of Main Parts Materials

序号 No.	零件名称 Name of parts	材 质 Material
1	螺栓 Screw	不锈钢304 Stainless Steel 304
2	左阀体 Left Valve	不锈钢304、304L、316、316L Stainless Steel 304、304L、316、316L
3	阀座 Seat	食品级橡胶 Food grade rubber
4	蝶板 Butterfly Plate	不锈钢304、304L、316、316L Stainless Steel 304、304L、316、316L
5	右阀体 Right Valve	不锈钢304、304L、316、316L Stainless Steel 304、304L、316、316L
6	螺母 Nut	不锈钢304 Stainless Steel 304
7	螺母 Nut	不锈钢304 Stainless Steel 304
8	键 Key	不锈钢304 Stainless Steel 304
9	螺栓 Screw	不锈钢304 Stainless Steel 304
10	连接支架 Connecting Yoke	不锈钢304 Stainless Steel 304
11	螺栓 Screw	不锈钢304 Stainless Steel 304
12	连接套 Connecton set	不锈钢304 Stainless Steel 304
13	气动装置 Pneumatic Device	AT系列气动执行器 AT Pneumatic actuator Series
14	位置指示器 Location Indicator	塑料Plastic

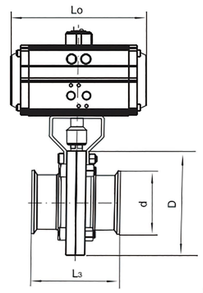
气动卫生级蝶阀 HGWD62(6、8、7)1X–PN10
Pneumatic Sanitary Butterfly Valve
华工自控 HGZK HUAGONG AUTOMATIC CONTROL



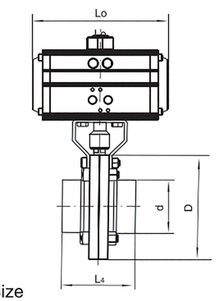
HGWD621X



HGWD676X



HGWD681X



HGWD661X

外形连接尺寸
Outline Connecting Size

主要外形及连接法兰尺寸 HGWD62(6、8、7)1X–PN10(1.0MPa) Main Outline and Connecting Flange Size

规格 Norm	JLWD621X			JLWD676X			JLWD681X			JLWD661X			Lo	~H	执行器型号 Actuator Model
ISO	L1	D	M	L2	D	d	L3	D	d	L4	D	d			
20				100	78	19.05	66	78	50.5	66	78	19.05	145/145	157/557	AT052DR/AT052SC
25	66	78	40x1/6	100	78	25.4	66	78	50.5	66	78	25.4	145/145	157/557	AT052DR/AT052SC
32	66	78	48x1/6	100	78	31.8	66	78	50.5	66	78	31.8	145/145	157/557	AT052DR/AT052SC
38	70	86	60x1/6	100	86	38.1	70	86	50.58	70	86	38.1	145/145	157/557	AT052DR/AT052SC
51	76	102	70x1/6	104	102	50.8	76	102	64	76	102	50.8	145/169	171/180	AT052DR/AT063SC
63	80	115	85x1/6	112	115	63.5	80	115	77.5	80	115	63.5	145/169	169/169	AT063DR/AT063SC
76	84	128	98x1/6	112	128	76.1	84	128	91	84	128	76.1	169/201	194/208	AT063DR/AT075SC
89				120	139	88.9	90	139	106	90	139	88.9	169/209	200/224	AT063DR/AT083SC
102	104	159	132x1/6	128	155	101.6	102	155	119	102	155	101.6	201/242	220/242	AT075DR/AT092SC
108				128	159	108	108	159	119	108	159	108	201/242	223/245	AT075DR/AT092SC

※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：Data XXX/XXX represent respectively the double–acting/single–acting type(spring reposition)of pneumatic actuator.
Note：The relative sizes are subject to change responding to the difference in valve torque, medium and actuator model.

气动闸阀

型号:HGZ641(0)H(Y)
口径:DN50~800mm
压力:1.0、1.6、2.5、4.0MPa;150Lb、300Lb
尺寸标准:国标、美标
阀体材质:铸铁、碳钢(WCB)、不锈钢(CF8，CF8M,CF3,CF3M)
阀座材料:金属密封(H、Y)
作用方式:双作用
控制方式:开关型、调节型
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

Pneumatic Gate Valve
Model:HGZ641(0)H(Y)
Bore:DN50-800mm
Pressure: 1.0，1.6，2.5，4.0MPa;150Lb，300Lb
Dimension Standard:Chinese Standard，
ANSI Body Material Cast ron,Carbon Steel(WCB)
Stainless Stee(CF8，CF8M,CF3,CF3M)
Seat Material:Metal Sealled (HY)
Mode of Action:Double-acting
Mode of Control:Switch Type,Adjust Type
Annex Choice:Solenoid Valve,Locator,
Limit Switch,F.R.L.Combination Unit,
Manual Organization



技术规范 Technique norm

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

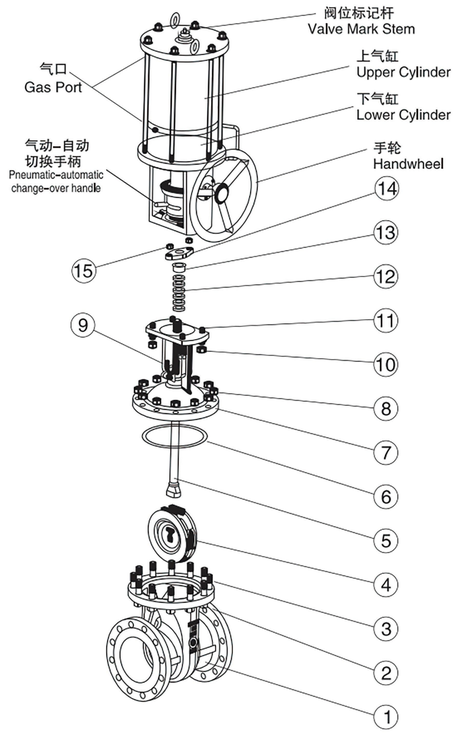
注：系列闸阀结构长度及连接法兰尺寸可根据用户要求设计制造。
Note：The structural length and connecting flange size of gate valve series can be designed and manufactured as per users' requirements.

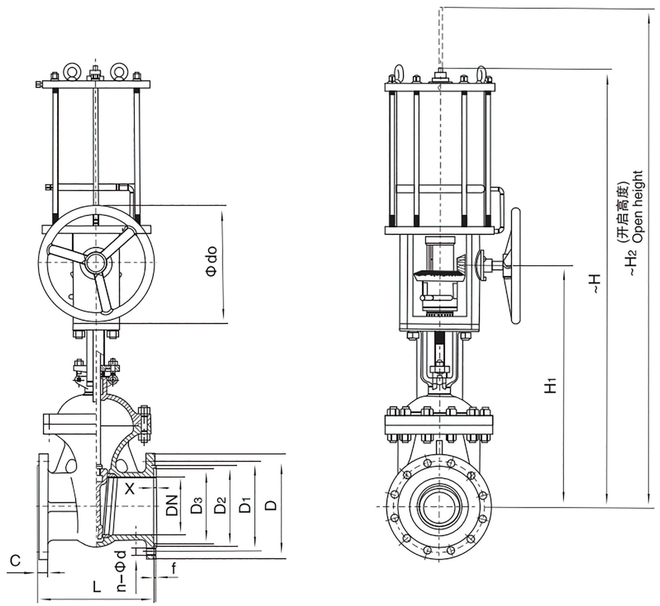
主要零件材质表 Form of Main Parts Materials

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 Cover	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
8	螺帽 Bonnet	35	304	304
9	吊环螺栓 Lifting Ring Screw	35	304	304
10	螺帽 Screw Cap	35	304	304
11	螺栓 Screw	35	304	304
12	填料 Packing	柔性石墨、PTFE Graphite、PTFE		
13	填料压套 Packing Gland	WCB	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
14	填料压板 Packing Plate	WCB	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
15	螺帽 Screw Cap	35	304	304

※注：系列闸阀主要零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：The main spare parts and sealed seat material of gate valve series can be designed for options as per users' special requirements.







主要外形及连接尺寸HG6S41(0)H(Y)–PN16(1.6MPa) Main Outline and Connecting Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size					连接尺寸 Connecting Size					
	L	~H	H_1	~H_2	Φdo	D	D_1	D_2	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：根据不同的阀门扭矩、使用介质选配，不同的执行器型号，其相关尺寸随之变化
Note：The relative sizes are subject to change responding to different valve torques, mediums and actuator models.

主要外形及连接尺寸HG6S41(0)H(Y)–PN25(2.5MPa) Main Outline and Connecting Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size					连接尺寸 Connecting Size					
	L	~H	H_1	~H_2	Φdo	D	D_1	D_2	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	2330	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	3250	550	730	660	609	44	4	20–Φ36
600	800	3080	1910	3680	550	845	770	720	46	4	20–Φ39
700	900	3570	2200	4270	600	960	875	820	50	5	24–Φ42
800	1000					1085	990	928	54	5	24–Φ48

主要外形及连接尺寸HG6S41(0)H(Y)–PN40(4.0MPa) Main Outline and Connecting Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size					连接尺寸 Connecting Size						
	L	~H	H_1	~H_2	Φdo	D	D_1	D_2	C	D_3 x X	f	n–Φd
50	250	790	420	840	180	165	125	99	20	88x4	3	4–Φ18
80	310	910	460	990	200	200	160	132	24	121x4	3	8–Φ18
100	350	1050	560	1150	250	235	190	156	24	150x4.5	3	8–Φ22
150	450	1240	660	1390	320	300	250	211	28	204x4.5	3	8–Φ26
200	550	1520	810	1720	400	375	320	284	34	260x4.5	3	12–Φ30
250	650	1700	930	1950	400	450	385	315	38	313x4.5	3	12–Φ33
300	750	1930	1090	2230	450	515	450	409	42	364x4.5	4	16–Φ33
350	850	2160	1230	2510	450	580	510	465	46	422x5	4	16–Φ36
400	950	2330	1360	2730	500	660	585	535	50	474x5	4	16–Φ39
450	1050	2540	1510	2990	500	685	610	560	50	524x5	4	20–Φ39
500	1150	2750	1660	3250	550	755	670	615	52	576x5	4	20–Φ42
600	1350	3080	1910	3680	550	890	795	735	60	676x5	5	20–Φ48

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

主要外形及连接尺寸HG6S41(0)H(Y)–Class150 Main Outline and Connecting Size

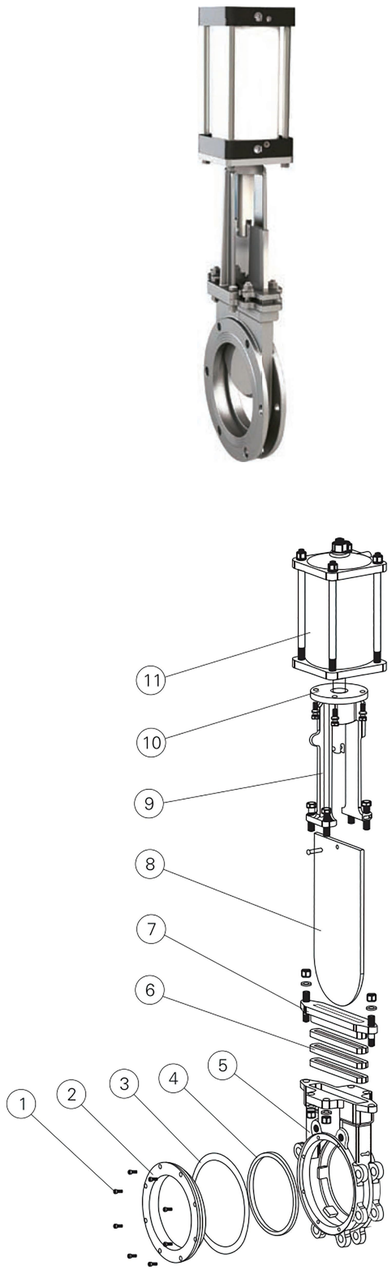
公称通径 Nominal diameter		外形尺寸 Outline Size					连接尺寸 Connecting Size					
DN	in	L	~H	H_1	~H_2	Φdo	D	D_1	D_2	C	f	n–Φd
50	2	178	790	420	840	180	152	120.5	92	16	2	4–Φ19
80	3	203	910	460	990	200	190	152.5	127	19	2	4–Φ19
100	4	229	1050	560	1150	250	229	190.5	157	24	2	8–Φ19
150	6	267	1240	660	1390	320	279	241.5	216	26	2	8–Φ22
200	8	292	1520	810	1720	400	343	298.5	270	29	2	8–Φ22
250	10	330	1700	930	1950	400	406	362	324	31	2	12–Φ25
300	12	256	1930	1090	2230	450	483	432	381	32	2	12–Φ25
350	14	381	2160	1230	2510	450	533	476	413	35	2	12–Φ29
400	16	406	2330	1360	2730	500	597	540	470	37	2	16–Φ29
450	18	432	2540	1510	2990	500	635	578	533	40	2	16–Φ32
500	20	457	2750	1660	3250	550	699	635	584	43	2	20–Φ32
600	24	508	3080	1910	3680	550	813	749.5	692	48	2	20–Φ35
700	28	610	3570	2200	4270	600	947	863.6	800	45	2	28–Φ35
800	32	660					1060	978	914	46	2	28–Φ41

主要外形及连接尺寸HG6S41(0)H(Y)–Class300 Main Outline and Connecting Size

公称通径 Nominal diameter		外形尺寸 Outline Size					连接尺寸 Connecting Size					
DN	in	L	~H	H_1	~H_2	Φdo	D	D_1	D_2	C	f	n–Φd
50	2	216	790	420	840	180	165	127	92	23	2	8–Φ19
80	3	283	910	460	990	200	210	168.5	127	29	2	8–Φ22
100	4	305	1050	560	1150	250	254	200	157	32	2	8–Φ22
150	6	403	1240	660	1390	320	318	270	216	37	2	12–Φ22
200	8	419	1520	810	1720	400	381	330	270	42	2	12–Φ25
250	10	457	1700	930	1950	400	445	387.5	324	48	2	16–Φ29
300	12	502	1930	1090	2230	450	521	451	381	51	2	16–Φ32
350	14	762	2160	1230	2510	450	584	514.5	413	54	2	20–Φ32
400	16	838	2330	1360	2730	500	648	571.5	470	58	2	20–Φ35
450	18	914	2540	1510	2990	500	711	628.5	533	61	2	24–Φ35
500	20	991	2750	1660	3250	550	775	686	584	64	2	24–Φ35
600	24	1143	3080	1910	3680	550	914	813	692	70	2	24–Φ41
700	28						1035	940	800	89	2	28–Φ45
800	32						1149	1054	914	103	2	28–Φ51

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





技术规范 Technique norm

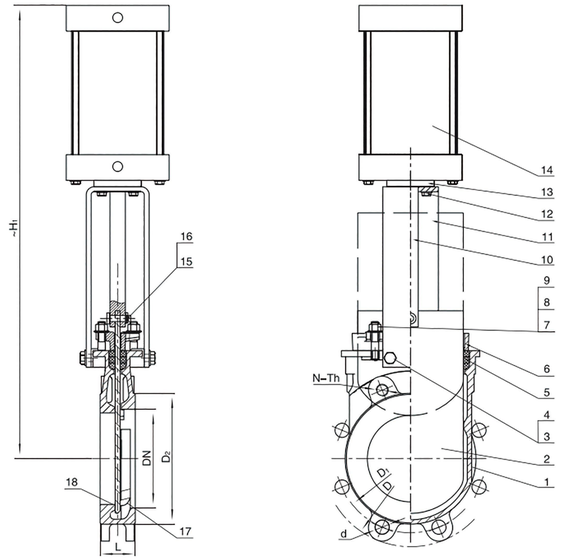
设计依据 Design Basis	GB标准 Standard	ANSI标准 Standard
设计标准 Design standard	JB/T8691–1998	ANSI B16.34
连接法兰尺寸 Connecting Flange Size	GB/9113、JB/T79	ANSI B16.5
试验和检验 Test & inspection	JB/T9092	API 598

※注：系列刀形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 Knife–shaped 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	内六角螺钉 Inner Hexagon Screw	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
2	阀盖 Bonnet	WCB	1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
3	垫片 Gasket	PTFE	PTFE	PTFE
4	阀座 Seat	1Cr18Ni9Ti 或PTFE、橡胶Rubber		1Cr18Ni12Mo2Ti 或PTFE、 橡胶Rubber
5	阀体 Body	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
6	密封填料 Packing Material	丁腈橡胶或PTFE PTFE Nirtile Rubber or PTFE	丁腈橡胶或PTFE PTFE Nirtile Rubber or PTFE	丁腈橡胶或PTFE PTFE Nirtile Rubber or PTFE
7	压盖 Gland	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
8	闸板 Shut–off Device	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
9	支架 Yoke	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni9Ti
10	推拉杆 Push–and–pull Rod	45#钢镀铬 45#Steel Crome Plating	45#钢镀铬 45#Steel Crome Plating	45#钢镀铬 45#Steel Crome Plating
11	气动执行器 Pneumatic Actuator	ZTQD系列 ZTQD Series		

※注：系列闸阀主要零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：The main spare parts and sealed seat material of gate valve series can be designed for options as per users' special requirements.

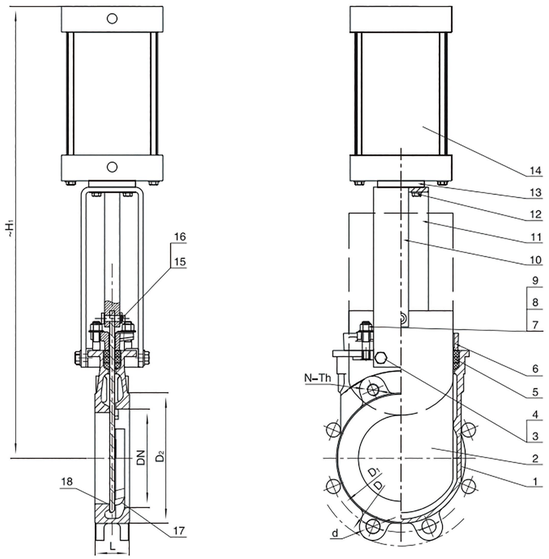


主要外形及连接尺寸 HGBZ673H(F、X)–PN10(1.0MPa) Main Outline and Connecting Size

公称通径 Nominal diameter DN	L	D	D_1	D_2	Do	N–Th	d	H_1
50	48	165	125	99	180	4–M16	Φ18	460
65	48	185	145	118	200	4–M16	Φ18	520
80	51	200	160	132	220	8–M16	Φ18	570
100	51	220	180	156	240	8–M16	Φ18	680
125	57	250	210	184	260	8–M16	Φ18	780
150	57	285	240	212	280	8–M20	Φ23	850
200	70	340	295	266	300	8–M20	Φ23	980
250	70	395	350	319	340	12–M20	Φ23	1140
300	76	445	400	370	380	12–M20	Φ23	1360
350	76	505	460	430	400	16–M20	Φ23	1460
400	89	565	515	480	450	16–M24	Φ27	1630
450	89	615	565	530	530	20–M24	Φ27	1770
500	114	670	620	582	600	20–M24	Φ27	1960
600	114	780	725	682	600	20–M27	Φ30	2245
700	127	895	840	794	680	24–M27	Φ30	2600
800	127	1015	950	901	680	24–M30	Φ33	2910
900	203(127)	1115	1050	1001		28–M30	Φ33	3200
1000	216(149)	1230	1160	1112		28–M33	Φ36	3550
1200	254(156)	1455	1380	1328		32–M36	Φ39	4250

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

气动对夹式刀形闸阀HGBZ673H(F、X)–Class150
Pneumatic Wafer Type Knife–shaped Gate Valve

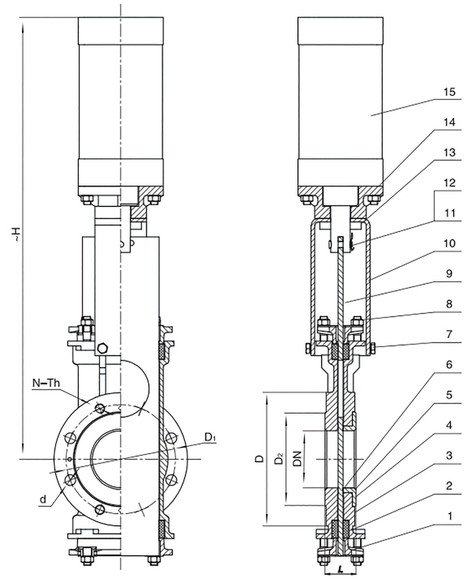


主要外形及连接尺寸 HGBZ673H(F、X)–Class150 Main Outline and Connecting Size

公称通径 Nominal diameter									
DN	in	L	D	D_1	D_2	Do	N–Th	d	H_1
50	2"	48	152	120	92	180	4–M5/8–11	Φ19	460
65	2.5"	48	178	139.5	105	200	4–M5/8–11	Φ19	520
80	3"	51	190.5	152.5	127	220	4–M5/8–11	Φ19	570
100	4"	51	220.5	190.5	157	240	8–M5/8–11	Φ19	680
125	5"	57	254	216	186	260	8–M3/4–10	Φ22	780
150	6"	57	279	241.5	216	280	8–M3/4–10	Φ22	850
200	8"	70	343	298.5	270	300	8–M3/4–10	Φ22	980
250	10"	70	406	362	324	340	12–M7/8–9	Φ25	1140
300	12"	76	483	432	381	380	12–M7/8–9	Φ25	1360
350	14"	76	533	476	413	400	12–M1–8	Φ29	1460
400	16"	89	597	539.5	470	450	16–M1–8	Φ29	1630
450	18"	89	635	578	533	530	16–M118/–7	Φ32	1770
500	20"	114	699	635	584	600	20–M118/–7	Φ32	1960
600	24"	114	813	749.5	691	600	20–M11/4–7	Φ35	2245
750	30"	144	984	914.5	857	680	28–M11/4–7	Φ35	2120
900	36"	203(127)	1168	1086	1022	680	32–M11/2–6	Φ41	2500
1050	42"	216(149)	1346	1257.5	1193		36–M11/2–6	Φ41	2800
1200	48"	254(156)	1511	1422.5	1358		44–M11/2–6	Φ41	3300

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

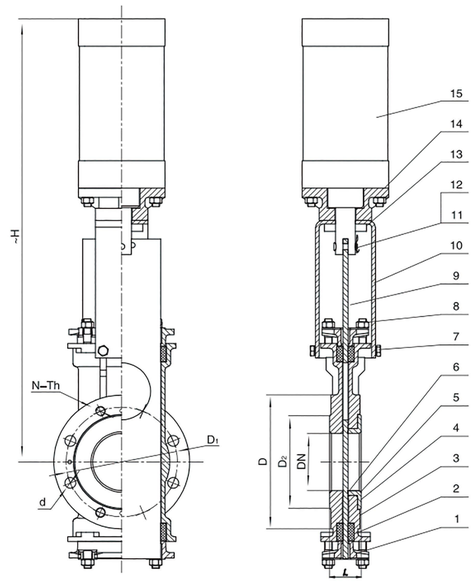
气动穿透式刀形闸阀HGCZ673H(F、X)–PN10
Pneumatic Penetration Type Knife–shaped Gate Valve



主要外形及连接尺寸 HGCZ673H(F、X)–PN10(1.0MPa) Main Outline and Connecting Size

公称通径 Nominal diameter DN	L	D	D_1	D_2	Do	N–Th	d	H_1
50	48	165	125	99	180	4–M16	Φ18	463
65	48	185	145	118	200	4–M16	Φ18	534
80	51	200	160	132	220	8–M16	Φ18	608
100	51	220	180	156	240	8–M16	Φ18	735
125	57	250	210	184	260	8–M16	Φ18	845
150	57	285	240	212	280	8–M20	Φ23	942
200	70	340	295	266	300	8–M20	Φ23	1110
250	70	395	350	319	340	12–M20	Φ23	1323
300	76	445	400	370	380	12–M20	Φ23	1556
350	76	505	460	430	400	16–M20	Φ23	1711
400	89	565	515	480	450	16–M24	Φ27	1900
450	89	615	565	530	530	20–M24	Φ27	2075
500	114	670	620	582	600	20–M24	Φ27	2283
600	114	780	725	682	600	20–M27	Φ30	2662
700	127	895	840	794	680	24–M27	Φ30	3039
800	127	1015	950	901	680	24–M30	Φ33	3410
900	203(127)	1115	1050	1001		28–M30	Φ33	3723
1000	216(149)	1230	1160	1112		28–M33	Φ36	4113
1200	254(156)	1455	1380	1328		32–M36	Φ39	4850

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



主要外形及连接尺寸 HGCZ673H(F、X)–Class150 Main Outline and Connecting Size

公称通径 Nominal diameter									
DN	in	L	D	D_1	D_2	Do	N–Th	d	H_1
50	2"	48	152	120	92	180	4–M5/8–11	Φ19	463
65	2.5"	48	178	139.5	105	200	4–M5/8–11	Φ19	534
80	3"	51	190.5	152.5	127	220	4–M5/8–11	Φ19	608
100	4"	51	220.5	190.5	157	240	8–M5/8–11	Φ19	735
125	5"	57	254	216	186	260	8–M3/4–10	Φ22	845
150	6"	57	279	241.5	216	280	8–M3/4–10	Φ22	942
200	8"	70	343	298.5	270	300	8–M3/4–10	Φ22	1110
250	10"	70	406	362	324	340	12–M7/8–9	Φ25	1323
300	12"	76	483	432	381	380	12–M7/8–9	Φ25	1556
350	14"	76	533	476	413	400	12–M1–8	Φ29	1711
400	16"	89	597	539.5	470	450	16–M1–8	Φ29	1900
450	18"	89	635	578	533	530	16–M11/8–7	Φ32	2075
500	20"	114	699	635	584	600	20–M11/8–7	Φ32	2283
600	24"	114	813	749.5	691	600	20–M11/4–7	Φ35	2662
750	30"	144	984	914.5	857	600	28–M11/4–7	Φ35	3039
900	36"	203(127)	1168	1086	1022	680	32–M11/2–6	Φ41	3410
1050	42"	216(149)	1346	1257.5	1193	680	36–M11/2–6	Φ41	3723
1200	48"	254(156)	1511	1422.5	1358		44–M11/2–6	Φ41	4113

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

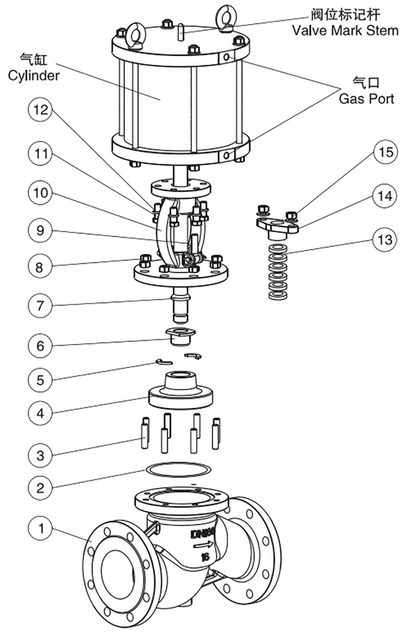
气动截止阀

型号:HGJ641(F)
口径:DN50~800mm
压力:0.6、1.0、1.6、2.5、4.0MPa;150Lb、300Lb
尺寸标准:国标、美标
阀体材质:碳钢(WCB)、不锈钢(CF8、CF8M、CF3、CF3M)
阀座材料:金属密封(H、Y)、聚四氟乙烯(F)
作用方式:双作用、单作用(弹簧复位)
控制方式:开关型、调节型
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

Pneumatic Globe Valve
Model:JLJ641H(F)
Bore:DN50~800mm
Pressure: 0.6, 1.0, 1.6, 2.5, 4.0MPa;150Lb, 300Lb
Dimension Standard:Chinese Standard,ANSI
Body Material Carbon Steel(WCB),
Stainless Steel(CF8, CF8M, CF3, CF3M)
Seat Material:Metal Sealled(HY), PTFE(F)
Mode of Action:Double-acting,
Single-acting(Spring Return)
Mode of Control:Switch Type,Adjust Type
Annex Choice: Solenoid Valve,Locator,
Limit Switch, F.R.L. Combination Unit,
Manual Organization







技术规范 Technique norm

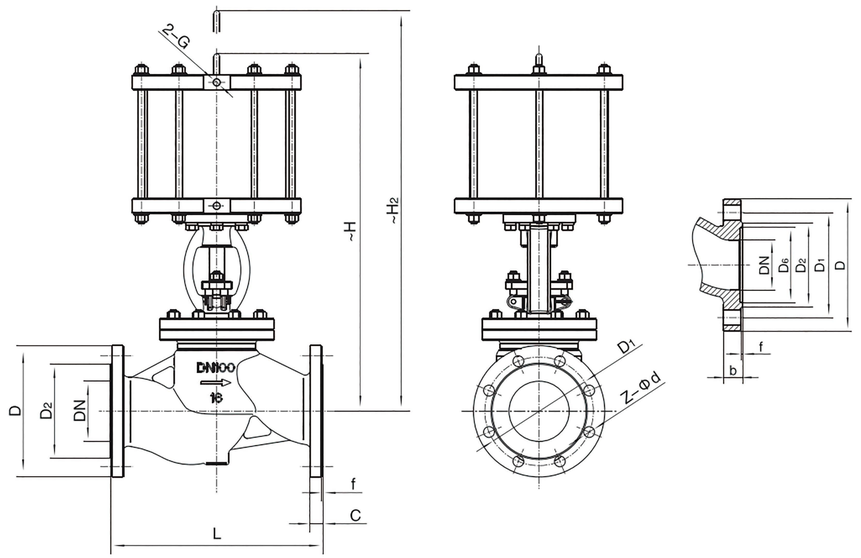
设计依据 Design Basis		GB标准 Standard
设计标准 Design standard		GB/12233
结构长度 Face to face dimension	法兰连接 Flange connecting	GB/12221
连接法兰尺寸 Connecting Flange Size		GB/9113、JB/T79
试验和检验 Test & inspection		GB/T13927、JB/T9092

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 Screw	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 Scrwe Cap	35	304	304
9	吊环螺栓 Lifting Ring Screw	35	304	304
10	阀盖 Bonnet	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
11	螺栓 Screw	35	304	304
12	垫片 Gasket	35	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
13	填料 Packing	柔性石墨 Graphite	PTFE	PTFE
14	填料压板 Packing Plate	WCB	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti
15	螺帽 Screw Cap	35	304	304

※注：系列截止阀主要零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：The main spare parts and sealed seat material of globe valve series canbe designed for options as per users' special requirements.



主要外形及连接法兰尺寸HGJ641H(W、F、Y)–16C/P/R Main Outline and Connecting Flange Size

公称通径 Nominal diameter DN	外形尺寸 Outline Size		连接法兰尺寸 Connecting Flange Size							气源接口 Air Source Interface
	L	~H	D	D_1	D_2	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	
200	600	954	340	295	266	24	3	12	22	
250	730	1065	405	355	319	26	3	12	26	
300	850	1185	460	410	370	28	4	12	26	

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



上展式放料阀
Open upward discharge valve

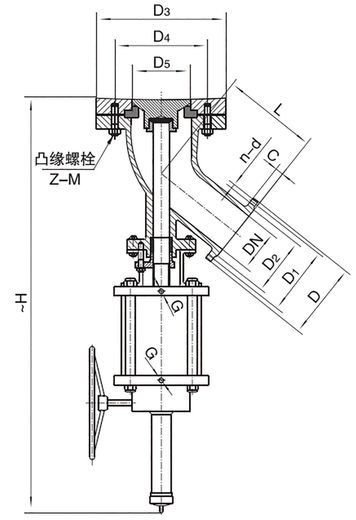


下展式放料阀
Open downward discharge valve

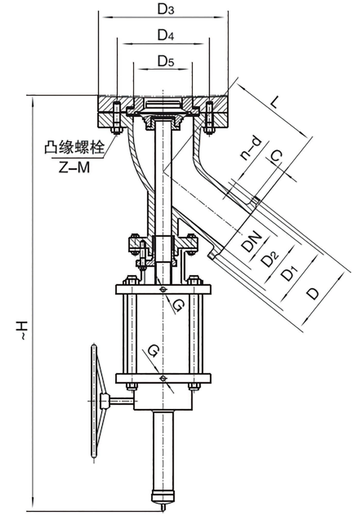
主要零件及技术规范 Main Parts and Technical Norm

主要零件 Main Parts	阀体、阀盖 Body、Bonnet	WCB	ZG1Cr18Ni9Ti	CF8(304)	CF3(304L)	ZG1Cr18Ni 12Mo2Ti	CF8M(316)	CF3M(316L)
	阀杆 Stem	2Cr13	1Cr18Ni9Ti	0Cr18Ni9(304)	00Cr19Ni11 (304L)	1Cr18Ni 12Mo2Ti	0Cr17Ni 12Mo2(316)	00Cr17Ni 14Mo2(316L)
	阀瓣 Disc	WCB	ZG1Cr18Ni9Ti	CF8(304)	CF3(304L)	ZG1Cr18Ni 12Mo2Ti	CF8M(316)	CF3M(316L)
	填料、垫圈 Packing、Gasket	V型聚四氟乙烯、柔性石墨环、聚四氟乙烯片、柔性石墨缠绕垫 V–PTFE,Flexible grsphite ring, PTFE,flexible graphite wound gasket						
适用工况 Applicable working conditions	适用介质 Applicable Medium	水、蒸汽、油品等 Water,steam,oil etc.	硝酸等腐蚀性介质 Nitric acid and other corrosive medium		强氧化性介质 Strong oxidizing medium	醋酸等腐蚀性介质 Acetic acid and other corrosive medium		尿素等腐蚀性介质 Urea and other corrosive medium
	适用温度 Applicable Temperature	–28~425℃						
应用规范 Application specification	设计制造 Design and manufacture	GB12237–89				API6D		
	法兰尺寸 Flange size	GB/T9113(也可按HG20592–97订做) GB/T9113(according HG20592–97 to customised)				ANSI B 16.5		
	结构长度 Face to face dimension	GB12221–89				ANSI B16.10		
	检验试验 Test&inspection	JB/T9092–99、GB/T13927–89				API598		

气动放料阀HGQFL–PN6~40；Class 150~300
Pneumatic Discharge Valve
华工自控 HGZK HUAGONG AUTOMATIC CONTROL



上展式
Open upward



下展式
Open downward

主要外形及连接法兰尺寸(下展式) HG5–81 Main Outline and Connecting Flange Size(Open downward)

公称通径 Nominal diameter DN	外形主连接法兰尺寸 Outline and Connecting Flange Size													气源接口 Air Source Interface
	~H	D	D_1	D_2	C	f	N	Φd	D_3	D_4	D_5	L	Z–M	
25	750	115	85	65	16	2	4	14	115	85	47	125	M12x4	1/4"
40	845	150	110	84	18	3	4	18	160	125	80	160	M16x4	
50	845	165	125	99	20	3	4	18	180	145	80	169	M16x4	
65	1000	185	145	118	20	3	4	18	195	160	110	175	M16x8	
80	1050	200	160	132	20	3	8	18	225	190	137	185	M16x8	
100	1120	220	180	156	22	3	8	18	260	225	180	210	M16x8	
125	1370	250	210	184	22	3	8	18	280	240	180	230	M20x8	
150	1450	285	240	211	24	3	8	22	295	295	210	240	M20x8	
200	1580	340	295	266	24	3	12	22	405	335	275	330	M22x12	
250	1720	405	355	319	26	3	12	26	460	410	330	380	M22x12	