

工业阀门系列 Industry Valves

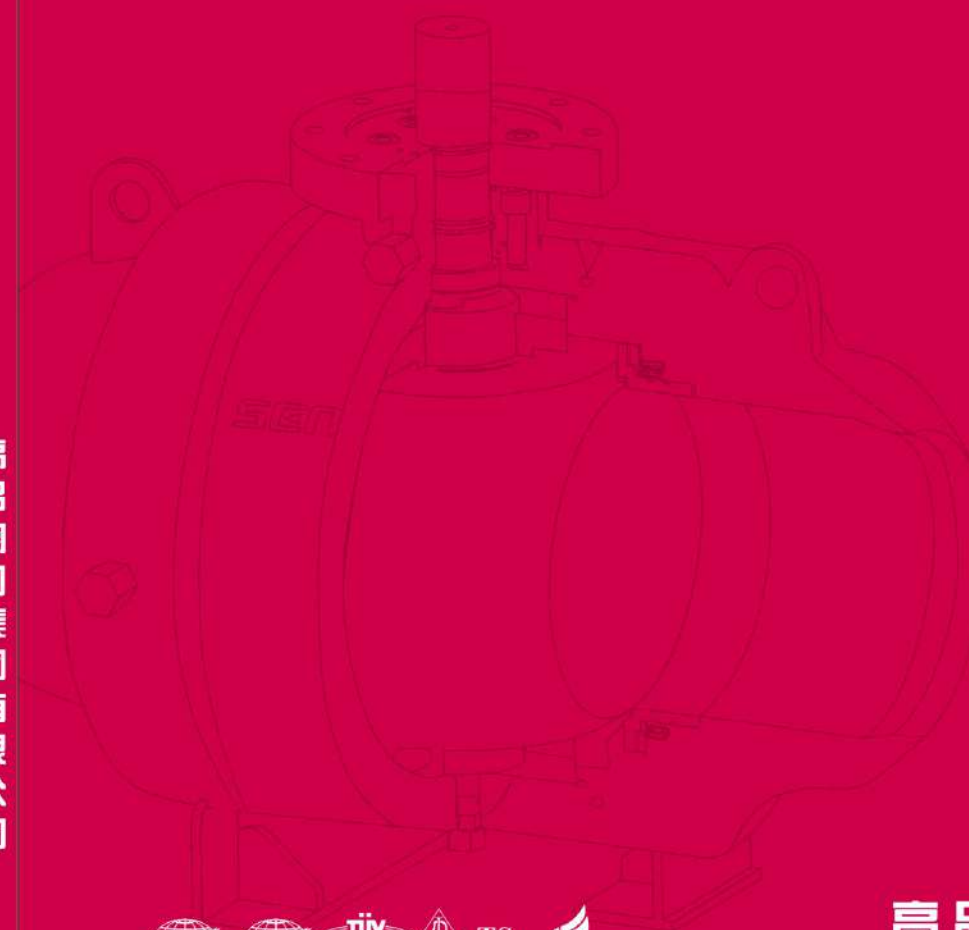
高品阀门集团有限公司

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THERMAL VALVE GROUP CO.LTD.



公司简介

高品阀门集团有限公司，拥有大型成套精铸设备、数字试压检测中心、低温深冷中心、调节阀特性及流量系数测试中心、金切设备共230台（套），有数控机床、加工中心、球面磨床、量仪测试等精、大、稀设备38台。现有员工300多人，其中工程技术人员75人。公司现为科技部认定的国家高新技术企业，中华人民共和国海关A类管理企业，是国内国家能源集团、中石化集团、中石油集团、盛虹石化集团、中国化工集团、中国化学工程集团、华电集团、大唐集团、华润集团、山东能源集团、浙江能源集团、鹏飞集团、中建工业安装公司、国内知名企业的供应商。

公司主要生产美标、英标、德标、日标及国标的高中压球阀、闸阀、截止阀、止回阀、蝶阀和低温阀等十二个门类约五千多种规格的阀门及管件类产品，阀体材质有碳钢、不锈钢、合金钢、超低碳不锈钢、钛钢、高镍合金和蒙乃尔合金等；驱动方式有手动、齿轮传动、电动、气动和液动，能生产阀门最高压力2500Lb（42Mpa），最大口径2200mm，最高温度1000℃，最低温度-196℃。产品广泛应用于石油、化工、煤化工、冶金、电力、医药等行业，先后获得了

20多项国家专利，其中发明专利6项，填补了国内外阀门行业空白。以出口欧美、日本、中东和东南亚为主并深受好评，现在为国内各个行业提供的产品同样满足了其需要和要求并赢得了良好的信誉。公司先后通过了ISO9001质量管理体系认证、国家安全TS认证、ISO14001、OHSAS18001、API6D、API602、API609产品质量认证、PED CE欧盟认证、API607球阀的防火认证。

公司建立了先进的理化试验室，置备了日本岛津光谱分析仪和美国进口便携式光谱分析仪、高速引燃红外碳硫分析仪、超声波里氏硬度计、超声波测厚仪、液式万能材料试验机、摆锤式冲击试验机、X射线探伤仪、氦质谱真空检漏仪等一系列尺寸精度检验和内部金相组织分析的无损探伤仪等。公司与合肥通用机械研究院合作建设了自动数字化显示阀门试压装置6套，其中最大测试压力为1500吨，建立了重点实验室—智能化低温阀门深冷试验室。

我们竭诚欢迎国内外朋友和客户来我公司参观访问洽谈业务，在合作中共同发展。

Brief Introduction

Thermal Valve Group Co., Ltd. has a total of 230 sets (sets) of large-scale precision casting equipment, digital pressure testing and testing center, low-temperature cryogenic center, regulating valve characteristics and flow coefficient testing center, and metal cutting equipment, including CNC machine tools and machining centers. , 38 sets of precision, large and thin equipment such as spherical grinder and measuring instrument testing. There are more than 300 employees, including 75 engineers and technicians. The company is now a national high-tech enterprise recognized by the Ministry of Science and Technology, and a Class A management enterprise of the People's Republic of China Customs. Suppliers of Datang Group, China Resources Group, Shandong Energy Group, Zhejiang Energy Group, Pengfei Group, China Construction Industrial Installation Company, and well-known domestic enterprises.

The company mainly produces valves and fittings of more than 5,000 specifications in twelve categories, including ANSI, BS, DIN, JIS and national standard high and medium pressure ball valves, gate valves, globe valves, check valves, butterfly valves and cryogenic valves. Products, valve body materials include carbon steel, stainless steel, alloy steel, ultra-low carbon stainless steel, titanium steel, high nickel alloy and Monel alloy, etc.; the driving methods include manual, gear transmission, electric, pneumatic and hydraulic, which can produce the highest valve. The pressure is 2500Lb (42Mpa), the maximum diameter is 2200mm, the maximum temperature is 1000℃, and the minimum temperature is -196℃. The products are widely used in petroleum, chemical, coal chemical, metallurgy, electric power, medicine and other industries, and have obtained more than 20 national patents, including 6 invention patents, filling the gap in the valve industry at home and abroad. The products are mainly exported to

Europe, America, Japan, the Middle East and Southeast Asia and are well received. Now the products provided for various domestic industries also meet their needs and requirements and have won a good reputation. The company has successively passed ISO9001 quality management system certification, national safety TS certification, ISO14001, OHSAS18001, API6D, API602, API609 product quality certification, PED CE EU certification, and API607 ball valve fire certification.

The company has established an advanced physical and chemical laboratory, equipped with a Japanese Shimadzu spectrometer and a portable spectrometer imported from the United States, a high-speed ignition infrared carbon and sulfur analyzer, an ultrasonic Leeb hardness tester, an ultrasonic thickness gauge, and a liquid universal material test. Machine, pendulum impact tester, X-ray flaw detector, helium mass spectrometer vacuum leak detector and a series of non-destructive flaw detectors for dimensional accuracy inspection and internal metallographic structure analysis. The company cooperated with Hefei General Machinery Research Institute to build 6 sets of automatic digital display valve pressure test devices, of which the maximum test pressure is 1500 tons, and established a key laboratory - intelligent cryogenic valve cryogenic laboratory.

We sincerely welcome friends and customer to visit our company to discuss business and develop together in cooperation.



生产装备 Production and Equipment

完美品质，取源于制造手段的先进
Perfect Quality Is Originated From Advanced Manufacturing Means



产品性能检测室 Product Property Inspection Room

质量控制 Quality Control



先进完善的检测试验
Advanced and Complete Testing



化学试验
Chemical Tests



硬度测试
Hardness Testing



超声波检测
Ultrasonic Testing



机械性能测试
Mechanical property Testing



材料冲击试验
Material Impact Test



光谱分析
Spectrum Analysis



低温测试
Low Temperature Testing



压力测试
Pressure Testing



产品介绍

主要产品: 球阀、闸阀、截止阀、止回阀、蝶阀、锻钢阀、旋塞阀等

材 质: 碳钢、不锈钢、合金钢 (如WCB, LCB, LC3, CF8, CF8M, CF3, CF3M, WC5, WC6, WC9, MONEL等)

压力等级: PN0.6MPa~PN42.0MPa, Class150Lb~2500Lb

温度范围: -196℃~850℃

规 格: 3/8"~68", DN10~DN1800

传动方式: 手动、蜗轮传动、电动、气动、液动等

制造标准: API, DIN, BS, JIS, GB, JB, HG

Main Products: Ball Valve, Gate Valve, Globe Valve, Check Valve, Butterfly Valve, Forged Steel Valves, Plug Valves etc.

Material: Carbon Steel, Stainless Steel, Alloy Steel (As WCB, LCB, LC3, CF8, CF8M, CF3, CF3M, WC5, WC6, WC9, MONEL etc.)

Pressure: PN0.6MPa~PN42.0MPa, Class150Lb~2500Lb

Temperature range: -196℃~850℃

Specifications: 3/8"~68", DN10~DN1800

Driving Manner: Manual, Worm Gear Drive, Electric, Pneumatic, Hydraulic etc.

Manufacturing Standard: API, DIN, BS, JIS, GB, JB, HG



Products Introduction



品质源于专业, 细节成就精品

Quality From Specialty, Details Make Fine Works



Contents 产品目录



001-029
Gate Valve Series
闸阀系列



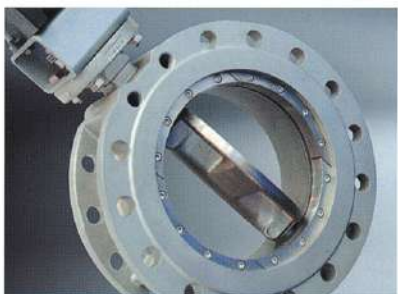
030-050
Globe Valve Series
截止阀系列



051-068
Check Valve Series
止回阀系列



069-128
Ball Valve Series
球阀系列



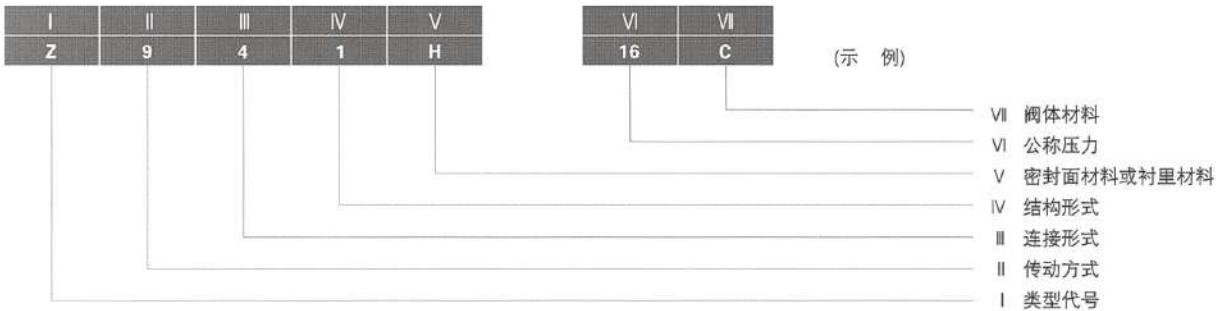
129-161
Butterfly Valve Series
蝶阀系列



162-173
Other Valve Series
其它阀系列

阀门选型指南
How To Order

阀门选型指南



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

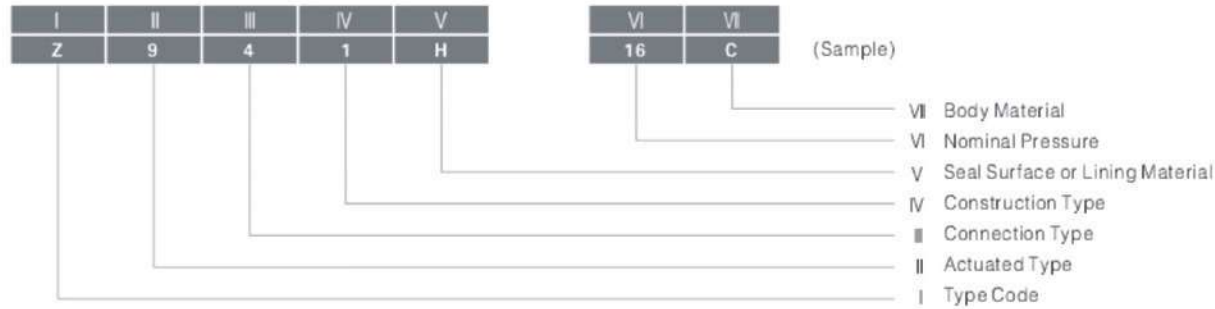
V-阀座密封面或衬里材料	代号	V-阀座材料	代号
巴氏合金	B	尼龙塑料	N
搪瓷	C	渗硼钢	P
渗氮钢	D	衬铅	Q
氟塑料	F	Mo2Ti系不锈钢	R
陶瓷	G	塑料	S
Cr13系不锈钢	H	铜合金	T
衬胶	J	橡胶	X
蒙乃尔合金	M	硬质合金	Y

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

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

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

How To Order



Code	0	1	2	3	4	5	6	7	8	9			
II – Actuated Type	Electro magnetic	Electro-hydraulic	Electrical-hydraulic	Gear	Spur gear	Angle gear	Pneumatic	Hydraulic	Pneumatic-hydraulic	Electrical			
III –Connection	–	Inside screw	Outside screw	–	Flange	–	Welding	Wafer	Union ring	Compression joint			
I –Type Code	IV –Construction Type												
Gate Valve	Z	Rising stem					Non-rising stem						
		Wedge type		Parallel type		Wedge type		Parallel type					
		Flexible	Rigid disc										
			Single	Double	Single	Double	Single	Double	Single	Double			
Globe Valve	J	–	Through way	Z-Type	Tee	Angled	Straight flow	Balance type		–			
Throttle Valve	L							Thyough way	Right-angled				
Piston Valves	U												
Ball Valve	Q	Half-ball through way	Floating type				Trunnion-mounted						
			Through way	Y-Pattern Tee	Seal type	Tee		Four-way	through way	Tee		Top type	All welding
						L-Pattern	T-Pattern			T-Pattern	L-Pattern		
Butterfly Valve	D	Non-seal tri-eccentric	Non-seal type										
Diaphragm Valve	G	–	Center line-type	Single-eccentric	Bi-eccentric	Link mechanism	Tri-eccentric	Center line-type	Bi-eccentric	Link mechanism	Tri-eccentric		
Plug Valve	X	–	–	Packing seal			–	Lubricate seal			–		
				Throughway type	T-pattern Tee	Four-way type		Through way type	Tee T-type				
Check Valve	H	–	Lift type			Swing type		Rotary type butterfly		Globe check	–		
			Th. way	Vertical type	Angle type	Single-plate	Double disc	Multi-disc					
Safety Valve	A	Spring seal type			Spring unseal	Spring seal	Spring unseal				Pulse		
		Full lift with cooling fin	Low lift	Full lift	Spanner type		Lever	Full lift with control	Spanner type				
					Twin-low	Full lift			Low lift	Full lift			
Reducing Valve	Y	–	Diaphragm	Spring diaphragm	Piston	Bellows	Lever	–	–	–	–		
Trap Valve	S	–	Ball float	–	Open bucket	Expansion	Inverted bucket type	Membrane-box	Bimetal elements	Pulse	Hot-motive force		
Waste Valve	P	–	Continuous Discharge		–	–	Discontinuous discharge				–		
			Throughway type	Angle type			Straight flow type	Through way type	Angle type	Foot gate disc type			

VI - Nominal Pressure The data of nominal diameter is express as ten times MPa valve; It will mark working pressure when medium temperature over 42°C And be used in power station.

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

VI-Body material	Code	VI-Body material	Code
Titanium&titanium alloy	Ti	Spheroidal cast iron	Q
Carbon steel	C	Mo2Ti series SS	R
Cr13 series SS	H	Plastic	S
Cr-Mo steel	I	Copper&Copper Alloy	T
Malleable Iron	K	Cr-Mo-V steel	V
Aluminum alloy	L	Gray cast iron	Z
18-8 series SS	P	18-8 series SS	RL
18-8 series SS	PL		

Remark: 1. Code W is express material of seat surface that direct machining from body.
2. Except diaphragm valve, it mark with low hardness material code when seal surface material is different.

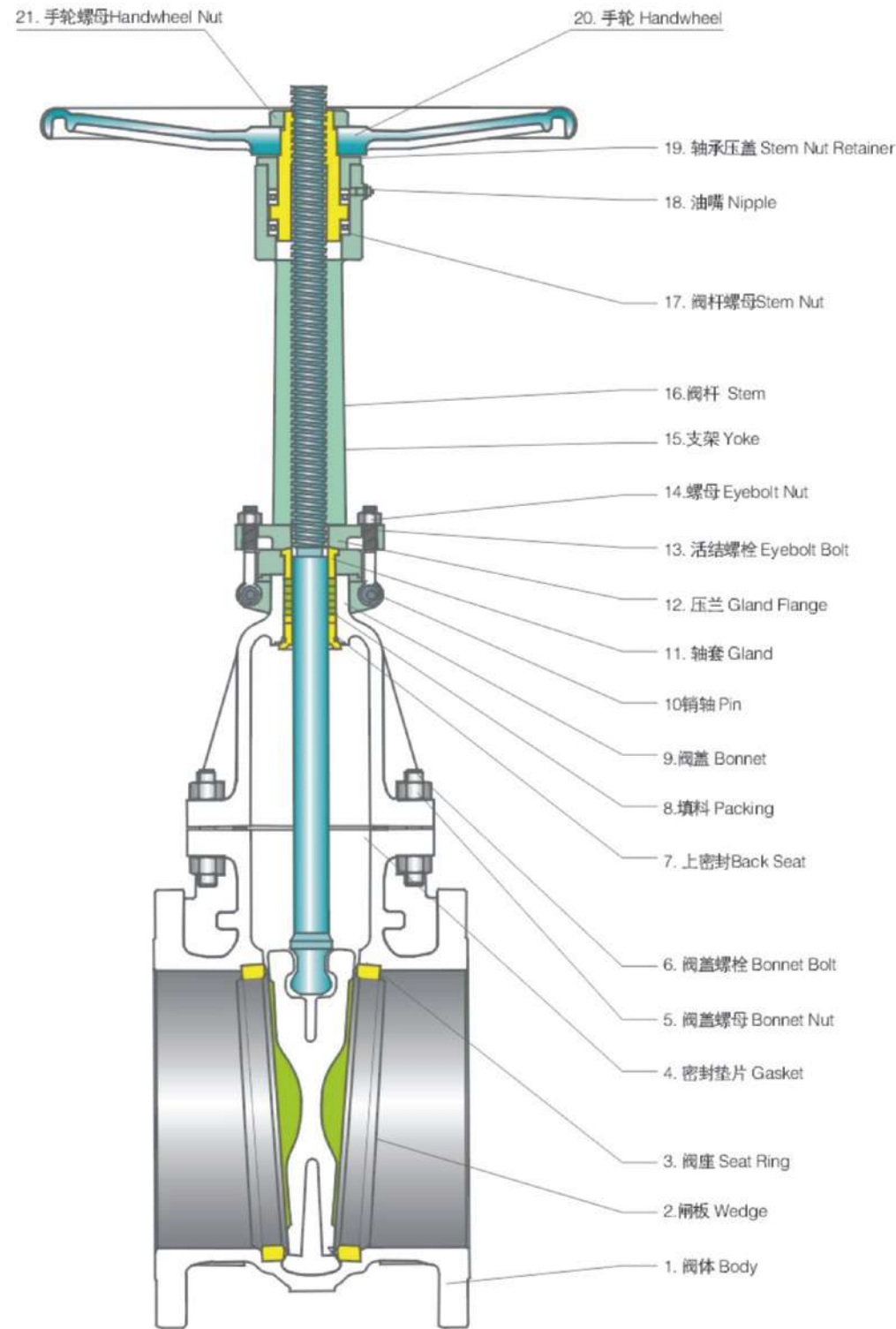
Remark: 1. Omit the code if body material is gray cast iron body when PN≤1.6MPa and is carbon steel body when PN≥2.5MPa.
2. CF3, CF8, CF3M, CF8M etc material code can direct mark on body.



Gate Valve Series 闸阀系列

高品阀门集团有限公司
THERMAL VALVE GROUP CO.LTD.

明杆API600铸钢闸阀/API 600 Cast Steel Gate Valves With Fixed Handwheel And Rising Stem



设计标准

1. 设计与制造: API 600(ISO 10434) or API 6D
2. 测试标准: API 598, ISO 5208, API 600 or API 6D
3. 法兰连接尺寸: ASME B16.5(for NPS 24); ASME B16.47 series B, API 605 or ASME B16.47 series A, MSS SP-44(for NPS >24)
4. 对焊端尺寸: ASME B16.25
5. 结构长标准: ASME B16.10
6. 压力温度等级: ASME B16.34

Design Construction

1. Design and manufacture: API 600(ISO 10434) or API 6D
2. Inspection and test: API 598, ISO 5208, API 600 or API 6D
3. Flanged ends dimension: ASME B16.5(for NPS 24); ASME B16.47 series B, API 605 or ASME B16.47 series A, MSS SP-44(for NPS >24)
4. Butt-welded ends dimension: ASME B16.25
5. Face to face and end to end: ASME B16.10
6. Pressure-temperature ratings: ASME B16.34

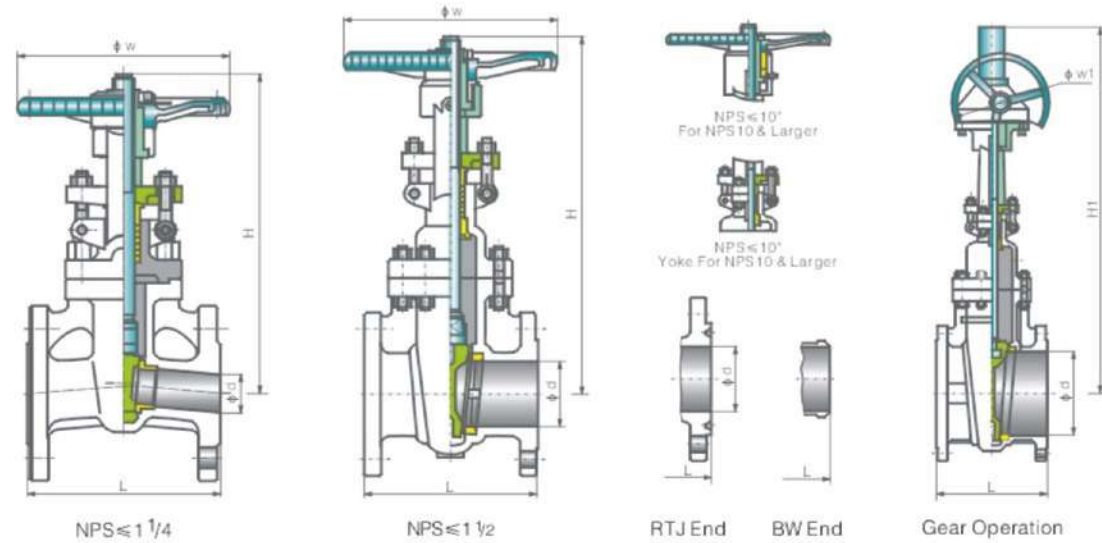
内件材料按 API600/ISO 10434/Trim Materials According To API 600/ISO 10434

内件编号 Trim NO.	阀板表面 Disc Surfaces	阀座表面 Seat Surfaces	阀杆&上密封材料 Stem & Back seat Material
1	13Cr	13Cr	F6a
2	18Cr-8Ni	18Cr-8Ni	F304
3	25Cr-20Ni	25Cr-20Ni	25Cr-20Ni
5	Stellite	Stellite	F6a
6	13Cr	CuNi	F6a
8	13Cr	Stellite	F6a
9	NiCu alloy	NiCu alloy	NiCu alloy
10	18Cr-8Ni-Mo	18Cr-8Ni-Mo	18Cr-8Ni-Mo
11	NiCu alloy	Stellite	NiCu alloy
12	18Cr-8Ni-Mo	Stellite	18Cr-8Ni-Mo
13	19Cr-29Ni	19Cr-29Ni	19Cr-29Ni
14	19Cr-29Ni	Stellite	19Cr-29Ni

标准材料及规格/Standard Material Specifications

序号 NO	零件名称 Part Name	碳钢 Carbon steel		合金钢 Alloy Steel		不锈钢 Stainless steel	
		WCB	LCB	WC6	WC9	CF8	CF8M
1	阀体 Body	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A351 CF8	A351 CF8M
2	闸板 Wedge	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A351 CF8	A351 CF8M
3	阀座 Seat Ring	A105+13Cr	A350 LF2	A182 F11	A182 F22	A182 F304	A182 F316
4	密封垫片 Gasket	柔性石墨 Soft Graphite+SS304					
5	阀盖螺母 Bonnet Nut	A194 2H	A194 4	A194 7	A194 7	A194 8	A194 8M
6	阀盖螺栓 Bonnet Bolt	A193 B7	A193 L7	A193 B16	A193 B16	A193 B8	A193 B8M
7	上密封 Back Seat	A182 F6	A182 F6	A182 F304	A182 F304	A182 F304	A182 F316
8	填料 Packing	Soft Graphite or PTFE					
9	阀盖 Bonnet	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A351 CF8	A351 CF8M
10	销轴 Pin	A276 TYPE 410					
11	轴套 Gland	A182 F6	A182 F6	A182 F6	A182 F6	A182 F304	A182 F316
12	压兰 Gland Flange	A216 WCB	A216 WCB	A216 WCB	A216 WCB	A351 CF8	A351 CF8
13	活结螺栓 Eyebolt Bolt	A193 B7	A193 B7	A193 B7	A193 B7	A193 B8	A193 B8
14	螺母 Eyebolt Nut	A194 2H	A194 2H	A194 2H	A194 2H	A194 8	A194 8
15	支架 Yoke	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A351 CF8	A351 CF8M
16	阀杆 Stem	A182 F6	A182 F6	A182 F304	A182 F304	A182 F304	A182 F316
17	阀杆螺母 Stem Nut	A536, Bronze, A439 D2					
18	油嘴 Nipple	Brass+Steel					
19	轴承压盖 Stem Nut Retainer	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
20	手轮 Handwheel	Ductile Iron or Steel	Ductile Iron or Steel	Ductile Iron or Steel	Ductile Iron or Steel	Ductile Iron or Steel	Ductile Iron or Steel
21	手轮螺母 Handwheel Nut	Cast Steel	Cast Steel	Cast Steel	Cast Steel	Cast Steel	Cast Steel

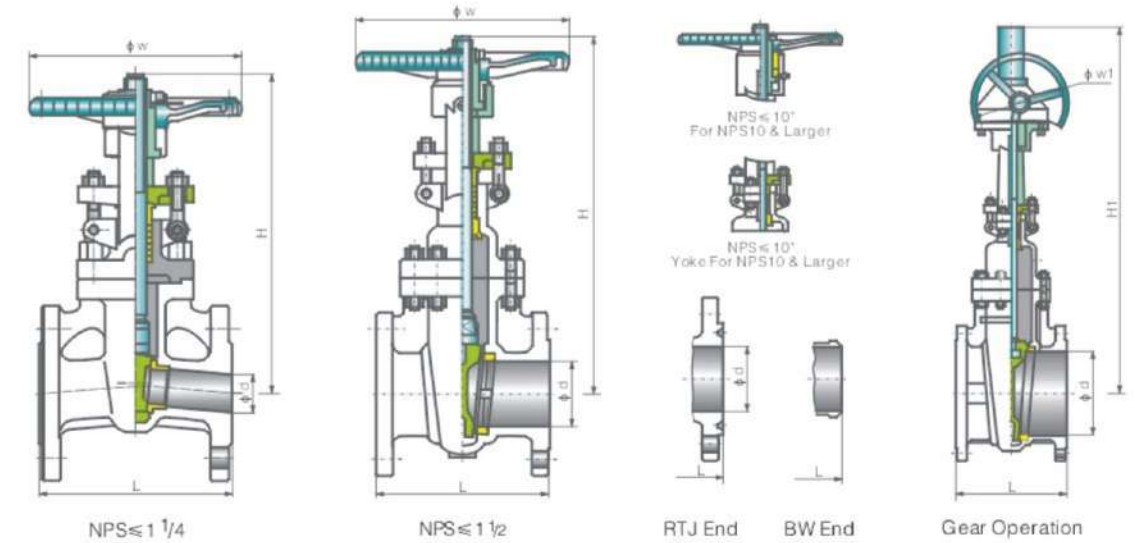
铸钢闸阀Class 150



主要外形尺寸及重量/Main Size of Outside & Weight

磅级 Class	尺寸 Size		尺寸 Dimensions (mm)								重量 Weight (Kg)		扭矩 Toque (N.m)
	NPS	DN	L			d	H	H1	W	W1	手轮 Hand wheel	齿轮动 Gear operated	
			RF	RTJ	BW								
150	1/2	15	108	119	108	14	195	—	120	—	4	—	
	3/4	20	117	130	117	19	210	—	120	—	5	—	
	1	25	127	140	127	25	240	—	140	—	7	—	
	1¼	32	140	153	140	32	300	—	180	—	10	—	
	1½	40	165	178	165	38	395	—	200	—	14	—	12
	2	50	178	191	216	51	400	—	200	—	19	—	13
	2½	65	191	203	241	64	435	—	200	—	25	—	13
	3	80	203	216	283	76	515	—	250	—	33	—	15
	4	100	229	241	305	102	595	—	280	—	49	—	27
	5	125	254	267	381	127	725	—	280	—	62	—	
	6	150	267	279	403	152	780	820	300	310	77	104	36
	8	200	292	305	419	203	975	1020	350	310	123	150	63
	10	250	330	343	457	254	1150	1200	400	310	188	215	84
	12	300	356	368	502	305	1380	1430	450	310	288	315	131
	14	350	381	394	572	337	1545	1580	500	310	385	435	151
	16	400	406	419	610	387	1733	1780	500	460	500	552	235
	18	450	432	445	660	438	1915	1990	500	460	601	653	285
	20	500	457	470	711	489	2122	2220	600	460	764	816	341
	24	600	508	521	813	591	2520	2600	600	460	1007	1185	602
	26	650	559	—	864	633	—	2800	—	600	—	1550	—
	28	700	610	—	914	684	—	3050	—	600	—	1880	—
	30	750	610	—	914	735	—	3130	—	600	—	2300	1079
	32	800	711	—	965	779	—	3280	—	600	—	2550	—
	34	850	762	—	1016	830	—	3500	—	600	—	2950	
	36	900	711	—	1016	874	—	3720	—	600	—	3390	1497

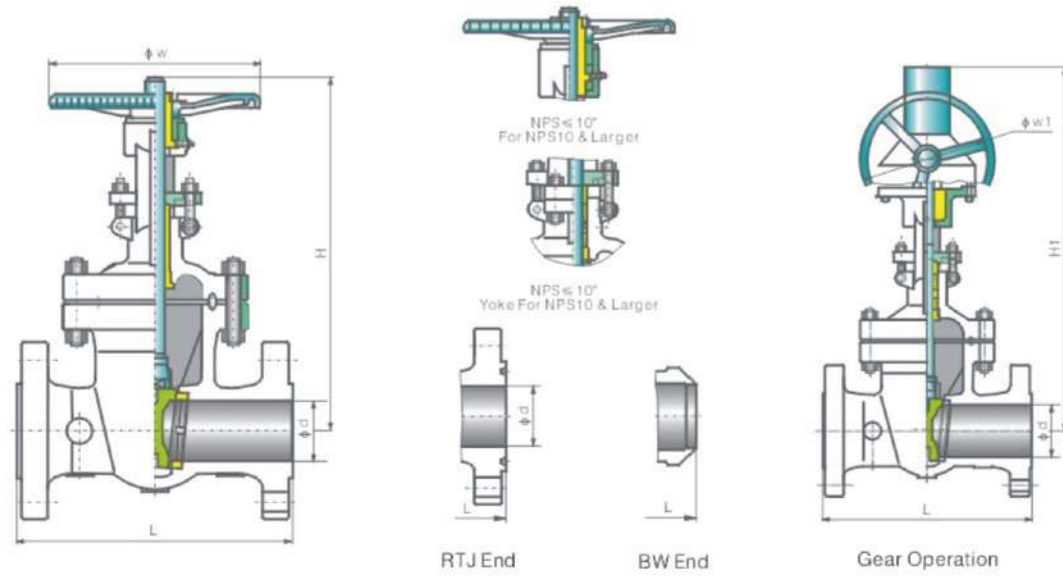
铸钢闸阀Class 300



主要外形尺寸及重量/Main Size of Outside & Weight

磅级 Class	尺寸 Size		尺寸 Dimensions (mm)								重量 Weight(Kg)		扭矩 Toqure (N.m)
	NPS	DN	L			d	H	H1	W	W1	手轮 Hand wheel	齿轮动 Gear operated	
			RF	RTJ	BW								
300	1/2	15	140	151	140	14	198	-	120	-	6	-	-
	3/4	20	152	165	152	19	215	-	140	-	7	-	-
	1	25	165	178	165	25	245	-	160	-	10	-	-
	1 1/4	32	178	191	178	32	306	-	180	-	15	-	-
	1 1/2	40	190	203	190	38	400	-	200	-	21	-	15
	2	50	216	232	216	51	420	-	200	-	25	-	16
	2 1/2	65	241	257	241	64	446	-	200	-	30	-	18
	3	80	283	298	283	76	537	-	250	-	48	-	21
	4	100	305	321	305	102	619	650	280	310	73	100	42
	5	125	381	397	381	127	722	750	300	310	99	126	-
	6	150	403	419	403	152	806	835	350	310	130	186	86
	8	200	419	435	419	203	1000	1030	400	310	208	235	128
	10	250	457	473	457	254	1240	1280	450	310	334	386	215
	12	300	502	518	502	305	1425	1460	500	310	450	502	289
	14	350	762	778	762	337	1585	1620	600	460	704	756	423
	16	400	838	854	838	387	1790	1830	500	460	923	965	537
	18	450	914	930	914	438	1960	2000	650	460	1131	1224	649
	20	500	991	1010	991	489	2158	2220	750	460	1345	1400	1009
	24	600	1143	1165	1143	591	2576	2620	900	600	2122	2385	1451
	26	650	1245	1270	1245	633	-	2850	-	600	-	3000	-
	28	700	1346	1372	1346	684	-	3080	-	600	-	3300	-
	30	750	1397	1422	1397	735	-	3180	-	600	-	3550	3140
	32	800	1524	1553	1524	779	-	3300	-	600	-	4400	-
	34	850	1626	1654	1626	830	-	3550	-	600	-	5200	-
	36	900	1727	1756	1727	874	-	3760	-	600	-	6050	4293

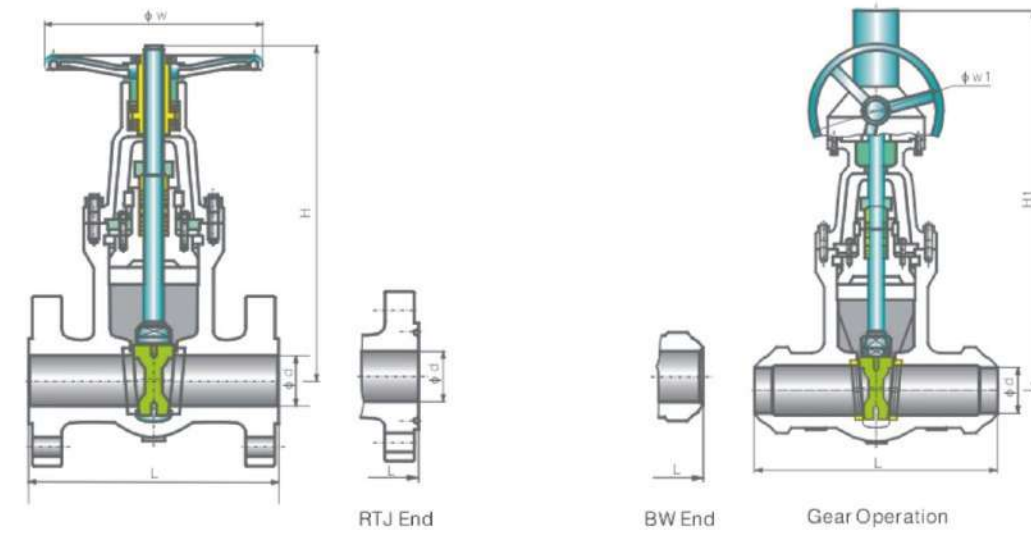
铸钢闸阀Class 600 & Class 900



主要外形尺寸及重量/Main Size of Outside & Weight

磅级 Class	尺寸 Size		尺寸 Dimensions (mm)								重量 Weight(Kg)		扭矩 Toque (N.m)
	NPS	DN	L			d	H	H1	W	W1	手轮 Hand wheel	齿轮动 Gear operated	
600	2	50	292	295	292	51	444	-	200	-	32	-	23
	2 1/2	65	330	333	330	64	500	-	250	-	52	-	-
	3	80	356	359	356	76	558	585	280	310	60	87	50
	4	100	432	435	432	102	665	695	300	310	107	134	68
	5	125	508	511	508	127	760	790	350	310	175	227	-
	6	150	559	562	559	152	868	900	450	310	216	268	183
	8	200	660	664	660	203	1073	1110	500	310	399	451	270
	10	250	787	791	787	254	1263	1300	650	460	605	657	479
	12	300	838	841	838	305	1600	1650	700	460	851	893	650
	14	350	889	892	889	337	1705	1750	900	460	1177	1232	988
900	16	400	991	994	991	387	1835	1900	900	460	1513	1568	1243
	18	450	1092	1095	1092	438	-	2020	-	600	-	1980	1512
	20	500	1194	1200	1194	489	-	2172	-	600	-	2460	2185
	24	600	1397	1407	1397	591	-	2650	-	600	-	3650	3053
	2	50	368	371	368	51	500	-	280	-	70	-	39
	2 1/2	65	419	422	419	64	550	-	280	-	110	-	56
	3	80	381	384	381	76	610	660	300	310	140	167	64
	4	100	457	460	457	102	702	750	350	310	200	227	118
	5	125	559	562	559	127	850	900	400	310	258	285	-
	6	150	610	613	610	152	980	1060	500	460	358	410	243

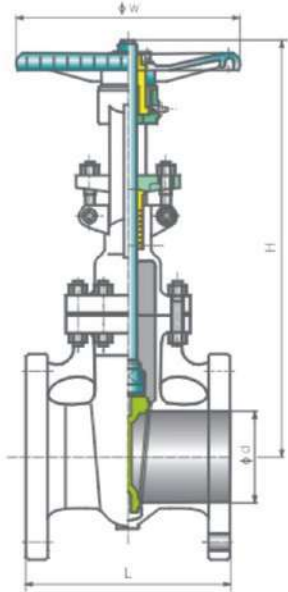
铸钢闸阀Class 1500 & Class 2500



主要外形尺寸及重量/Main Size of Outside & Weight

磅级 Class	尺寸 Size		尺寸 Dimensions (mm)								重量 Weight(Kg)		扭矩 Toque (N.m)
	NPS	DN	L			d	H	H1	W	W1	手轮 Hand wheel	齿轮动 Gear operated	
1500	2	50	368	371	368	51	510	-	280	-	70	-	54
	2 1/2	65	419	422	419	64	560	-	300	-	110	-	76
	3	80	470	473	470	76	620	670	350	310	175	202	108
	4	100	546	549	546	102	728	770	400	310	270	300	167
	5	125	673	676	673	127	870	920	450	310	378	405	-
	6	150	705	711	705	144	1000	1070	500	460	520	575	426
	8	200	832	841	832	192	1130	1180	750	460	820	915	801
	10	250	991	1000	991	239	1360	1410	900	600	1560	1750	1268
	12	300	1130	1146	1130	287	-	1620	-	600	-	2120	2087
	14	350	1257	1276	1257	315	-	2020	-	600	-	2600	2392
2500	16	400	1384	1407	1384	360	-	2180	-	600	-	3450	-
	2	50	451	454	451	42	530	580	280	310	100	130	-
	2 1/2	65	508	514	508	52	580	630	300	310	150	180	-
	3	80	578	584	578	62	650	700	350	310	245	275	-
	4	100	673	683	673	87	750	800	400	310	390	420	-
	5	125	794	807	794	96	900	960	500	460	550	580	-
	6	150	914	927	914	131	1040	1100	600	460	780	835	-
	8	200	1022	1038	1022	179	1150	1200	750	460	1260	1355	-
	10	250	1270	1292	1270	223	1400	1460	900	600	2380	2565	-
	12	300	1422	1445	1422	265	-	1660	-	600	-	3250	-

铸钢闸阀API603 Class 150 ~ Class 300



设计标准

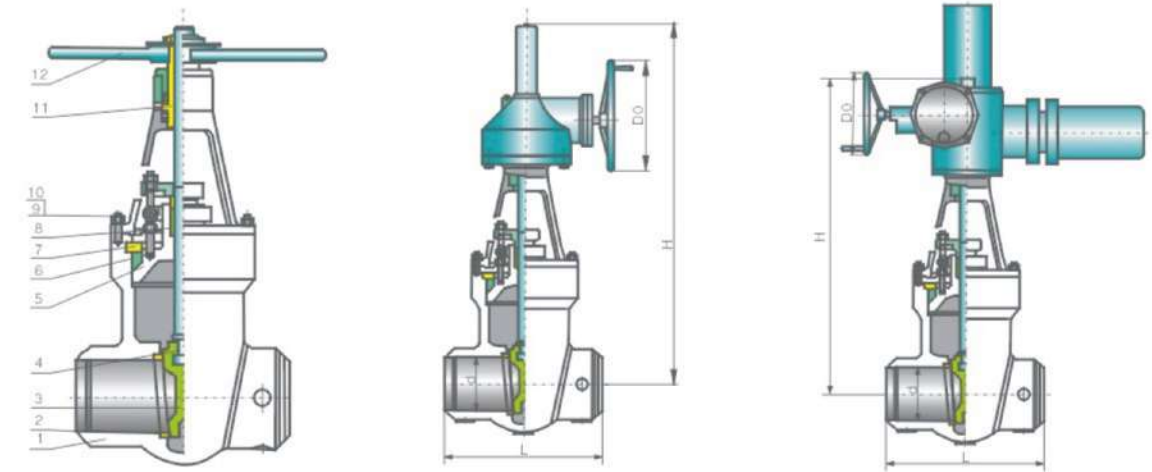
1. 设计与制造: API 603
2. 测试标准: API 598
3. 法兰连接尺寸: ASME B16.5
4. 结构长标准: ASME B16.10
5. 压力温度等级: ASME B16.34

Design Construction

1. Design and manufacture: API 603
2. Inspection and test: API 598
3. End flange dimension: ASME B16.5
4. Face to face: ASME B16.10
5. Pressure-temperature ratings: ASME B16.34

主要外形尺寸及重量/Main Size of Outside & Weight

尺寸 Size		Class 150					Class 300				
NPS	DN	尺寸 Dimensions (mm)				重量 Weight(Kg)	尺寸 Dimensions (mm)				重量 Weight(Kg)
		L	d	H	W		L	d	H	W	
1/2	15	108	14	195	120	3	140	14	198	120	5
3/4	20	117	19	210	120	4	152	19	215	140	6
1	25	127	25	240	140	6	165	25	245	160	9
1 1/4	32	140	32	300	180	8	178	32	306	180	12
1 1/2	40	165	38	395	200	12	190	38	400	200	18
2	50	178	51	400	160	16	216	51	400	200	22
2 1/2	65	191	64	420	160	22	241	64	435	200	26
3	80	203	76	485	200	28	283	76	515	250	41
4	100	229	102	580	250	42	305	102	600	280	62
5	125	254	127	710	250	53	381	127	715	300	84
6	150	267	152	741	280	65	403	152	780	350	110
8	200	292	203	960	300	105	419	203	980	400	177
10	250	330	254	1055	350	160	457	254	1200	400	284
12	300	356	305	1352	400	245	502	305	1400	400	382
14	350	381	337	1520	400	328	762	337	1560	500	598
16	400	406	387	1734	500	425	838	387	1760	500	785



设计标准

1. 设计标准: JB/T 3595、NB/T 47044
2. 结构长度: JB/T 2788、GB/T 15188.1
3. 对焊连接: JB/T 2788、GB/T 15188.1
4. 压力与温度: JB/T 3595、NB/T 47044、JB/T 74
5. 试验和检验: JB/T 3595、NB/T 47044
6. 焊接坡口: JB/T 3595、ASME 16.25、NB/T 47044

注: 阀门连接法兰及焊接坡口可根据用户要求设计制造。

Design Construction

1. Design standard: JB/T 3595、NB/T 47044
2. Structural length: JB/T 2788、GB/T 15188.1
3. Welded connection: JB/T 2788、GB/T 15188.1
4. Pressure and temperature: JB/T 3595、NB/T 47044、JB/T 74
5. Test & inspection: JB/T 3595、NB/T 47044
6. Weld the slope mouth: JB/T 3595、ASME 16.25、NB/T 47044

Note: valve connecting flange and welded groove can be designed and made upon the user requirements.

主要零件材料/Major Parts Material Form

序号 No.	零件名称 Part name	材质 Material
1	阀体 Body	WCB、WC1、WC6、WC9、C12A
2	阀座 Seat	25、15CrMoA、12CrMoVA
3	闸板 Floodgate board	WCB、WC1、WC6、WC9、C12A
4	阀杆 Stem	1Cr17Ni12、2Cr13、20Cr1MoV、25Cr2Mo1V
5	阀盖 Bonnet	WCB、WC1、WC6、WC9、C12A
6	密封圈 Sealing ring	柔性石墨 Graphite
7	四开环 Quarto ring	1Cr13、2Cr13
8	填料 Packing	柔性石墨 Graphite
9	双头螺柱 Stud	35CrMoA、25Cr2MoV
10	螺母 Nut	35CrMoA、25Cr2MoV
11	阀杆螺母 Valve stem nut	铜合金 Copper alloy
12	手轮 Handwheel	QT400-17

主要外形尺寸及重量/Main Size of Outside & Weight

型号 Model: Z60Y-1500Lb, Z560Y-1500Lb, Z960Y-1500Lb

NPS (in)	L	d	手动 Hand-operated			齿动 Geared driving			齿动装置 Geared driving	电动 Electric driving device			电动装置 Electric driving device
			H	D0	重量(kg)Weight	H	D0	重量(kg)Weight		H	D0	重量(kg)Weight	
21/2	254	56	670	200	50	-	-	-	-	887	200	93	SMC-04
3	305	64	692	200	65	-	-	-	-	887	200	110	SMC-04
4	406	84	790	230	105	-	-	-	-	969	508	168	SMC-03
5	483	100	875	260	150	-	-	-	-	1073	508	223	SMC-03
6	559	126	1155	400	300	-	-	-	-	1270	305	395	SMC-0
8	711	158	1148	410	500	1261	460	418	BA-1	1325	305	555	SMC-0
10	864	210	-	-	-	1490	460	725	BA-1	1530	457	823	SMC-1
12	991	250	-	-	-	1765	610	1036	BA-2	1804	305	1280	SMC-1
14	1067	282	-	-	-	1952	760	1358	BA-3	2155	570	1725	SMC-2
16	1194	318	-	-	-	2051	760	1773	BA-3	2167	610	2429	SMC-3
18	1346	360	-	-	-	2155	760	2359	BA-3	2250	610	2454	SMC-3
20	1473	406	-	-	-	2451	760	3243	BA-3	2550	610	3334	SMC-3
22	1600	450	-	-	-	2679	760	4010	BA-3	2780	610	4409	SMC-3

型号 Model: Z60Y-2000Lb, Z560Y-2000Lb, Z960Y-2000Lb

NPS (in)	L	d	手动 Hand-operated			齿动 Geared driving			齿动装置 Geared driving	电动 Electric driving device			电动装置 Electric driving device
			H	D0	重量(kg)Weight	H	D0	重量(kg)Weight		H	D0	重量(kg)Weight	
21/2	330	50	640	200	70	-	-	-	-	802	200	202	SMC-04
3	368	60	690	230	90	-	-	-	-	852	508	149	SMC-03
4	457	80	850	260	180	-	-	-	-	974	305	245	SMC-00
5	533	96	1117	360	210	-	-	-	-	1120	305	280	SMC-00
6	610	118	1300	410	438	-	-	-	-	1219	305	419	SMC-0
8	762	148	-	-	-	1210	310	602	BA-0	1349	305	626	SMC-0
10	914	180	-	-	-	1620	460	836	BA-1	1690	305	1020	SMC-1
12	1041	222	-	-	-	1710	610	1187	BA-2	1830	457	1320	SMC-2
14	1118	254	-	-	-	1763	610	1475	BA-2	1880	457	1810	SMC-2
16	1245	294	-	-	-	1925	610	1990	BA-2	2115	610	2270	SMC-3

型号 Model: Z60Y-2500Lb, Z560Y-2500Lb, Z960Y-2500Lb

NPS (in)	L	d	手动 Hand-operated			齿动 Geared driving			齿动装置 Geared driving	电动 Electric driving device			电动装置 Electric driving device
			H	D0	重量(kg)Weight	H	D0	重量(kg)Weight		H	D0	重量(kg)Weight	
21/2	330	46	640	200	70	-	-	-	-	842	508	143	SMC-03
3	368	54	690	230	90	-	-	-	-	836	508	160	SMC-03
4	457	70	850	260	150	-	-	-	-	1094	508	335	SMC-03
5	533	86	1117	400	210	-	-	-	-	1170	305	324	SMC-00
6	610	104	1300	500	438	1116	310	340	BA-0	1266	305	467	SMC-00
8	762	130	-	-	-	1284	310	617	BA-0	1339	305	725	SMC-0
10	914	162	-	-	-	1504	460	1023	BA-1	1468	305	1152	SMC-1
12	1041	210	-	-	-	1725	610	1415	BA-2	1890	457	1520	SMC-2
14	1118	234	-	-	-	1793	610	1684	BA-2	1990	610	1869	SMC-3
16	1245	264	-	-	-	1935	610	2383	BA-2	2115	610	2826	SMC-3
22	1550	375	-	-	-	-	-	-	-	2886	760	7080	SMC-5

型号 Model: Z960Y-3000Lb

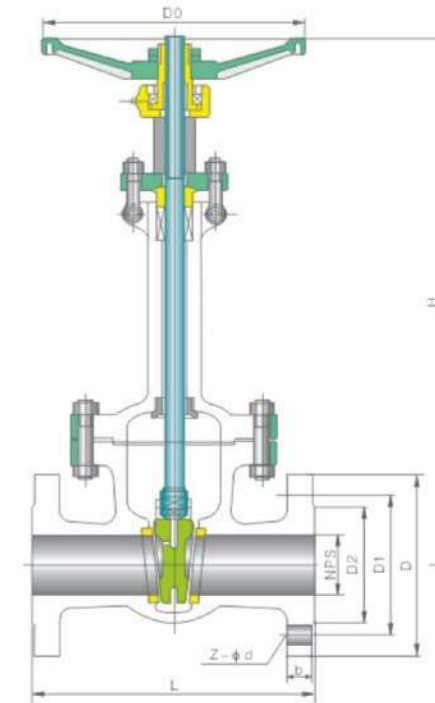
NPS (in)	电动 Electric driving device						电动装置 Electric driving device
	L	d	H	D0	重量(kg) Weight		
10	930	151	1812	305	1459		SMC-1
12	1060	186	1831	457	2180		SMC-2
14	1118	214	2130	610	2870		SMC-3
22	1550	338	2656	610	5591		SMC-4

型号 Model: Z60Y-3500Lb, Z560Y-3500Lb, Z960Y-3500Lb

NPS (in)	L	d	手动 Hand-operated			齿动 Geared driving			齿动装置 Geared driving	电动 Electric driving device			电动装置 Electric driving device
			H	D0	重量(kg)Weight	H	D0	重量(kg)Weight		H	D0	重量(kg)Weight	
3	440	44	760	260	210	-	-	-	-	920	508	269	SMC-03
4	540	56	900	300	300	-	-	-	-	1066	305	398	SMC-00
5	616	74	-	-	-	1047	310	391	BA-0	1166	305	507	SMC-0
6	692	88	-	-	-	1108	310	493	BA-0	1227	305	605	SMC-0
8	846	116	-	-	-	1322	460	916	BA-1	1456	305	1088	SMC-1
10	1000	142	-	-	-	1548	610	1527	BA-2	1652	457	1733	SMC-2
12	1124	174	-	-	-	1689	610	2197	BA-2	1844	610	2708	SMC-3
14	1219	196	-	-	-	-	-	-	-	2125	610	3180	SMC-4
18	1499	252	-	-	-	-	-	-	-	2695	610	4560	SMC-4

产品规范/Product Specification

产品规范 Product Specification	设计规范 Design Spec	结构长度 Face to Face	连接法兰 Flange End	试验与检验 Test & Check	压力-温度 Pressure-Temp.	产品标识 Marking
	API 600 GB/T 24925	ANSI B16.10	ANSI B16.5	API 598 GB/T 24925	ANSI B16.34	MSS SP-25



主要特点

- ※ 全通径，明杆带支架
- ※ 中法兰螺栓连接
- ※ 带导向的弹性闸板
- ※ 美标结构改进型
- ※ 加长保温颈
- ※ 伞齿轮操作选配
- ※ 标准法兰连接

Chief features

- ※ Full port, outside screw and yoke (OS&Y)
- ※ Bolted bonnet
- ※ Flexible wedge, fully guided
- ※ Structure improve on API
- ※ Extension holding neck
- ※ Available with gear operator
- ※ Flanged ends

主要零件材料/Major Parts Material Form

零件名称 Part Name	零部件材料 Part Material						
阀 体 Body	A352-LCB	A352-LC1	A352-LC2	A352-LC3	A352-LC4	A351-CF8	A351-CF3
阀 盖 Bonnet	A352-LCB	A352-LC1	A352-LC2	A352-LC3	A352-LC4	A351-CF8	A351-CF3
闸 板 Wedge	A352-LCB	A352-LC1	A352-LC2	A352-LC3	A352-LC4	A351-CF8	A351-CF3
阀 杆 Stem	A182-F431			A182-F304			A182-F304
密封副 Hard Trim	STL+STL			STL+STL			STL+STL
填 料 Packing	柔性石墨 Flexible Graphite(聚四氟乙烯/PTFE)						
垫 片 Gasket	18-8柔性石墨 flexible Graphite						
螺 栓 Bolt	A193-B7M			A193-B8		A193-B8M	
适用温度 Suitable Temp.	-46℃	-60℃	-73℃	-101℃	-115℃	-196℃	-196℃
适用介质 Suitable Medium	丙烷、丙烯、甲醇、乙烷、煤气、液氨 Propane, Propylene, Methanol, Ethanol, Coal-Gas, Liquid Ammonia						

主要外形尺寸及重量/Main Size of Outside & Weight

DN		150Lb 凸面法兰 RF							
mm	in	L	D	D1	D2	b	n-φd	H	D0
25	1	127	108	79.2	51	14.2	4-φ16	350	120
32	1 1/4	140	117	89.0	63	16.0	4-φ16	385	120
40	1 1/2	165	127	98.6	73	17.5	4-φ16	420	150
50	2	178	152	120.7	92	19.0	4-φ19	540	150
65	2 1/2	190	178	139.7	105	22.4	4-φ19	610	180
80	3	203	190	152.4	127	24.0	4-φ19	690	200
100	4	229	229	190.5	157	24.0	8-φ19	780	200
125	5	254	254	216.0	186	24.0	8-φ22.5	930	250
150	6	267	279	241.3	216	25.4	8-φ22.5	980	250
200	8	292	343	298.5	270	28.4	8-φ22.5	1180	280
250	10	330	406	362.0	324	30.2	12-φ25.4	1390	300
300	12	356	483	431.8	381	32.0	12-φ25.4	1620	350
350	14	381	533	476.3	413	35.0	12-φ29	1810	350
400	16	406	597	539.8	470	36.6	16-φ29	1970	400
		300Lb 凸面法兰 RF							
50	2	216	165	127.0	92	22.4	8-φ19	575	200
65	2 1/2	241	190	149.4	105	25.4	8-φ22.5	635	240
80	3	283	210	168.1	127	28.4	8-φ22.5	715	280
100	4	305	254	200.2	157	31.8	8-φ22.5	815	300
125	5	381	279	235.0	186	35	8-φ22.5	965	350
150	6	403	318	269.7	216	36.6	12-φ22.5	1025	400
200	8	419	381	330.2	270	41.2	12-φ25.4	1225	400
250	10	457	444	387.4	324	47.8	16-φ28.5	1440	450
300	12	502	521	450.8	381	50.8	16-φ32	1665	500
350	14	762	584	514.4	413	54	20-φ32	1880	600
400	16	838	648	571.5	470	57.2	20-φ35	2050	650
		600Lb 凸面法兰 RF							
50	2	292	165	127.0	92	33	8-φ19	630	280
65	2 1/2	330	190	149.4	105	36	8-φ22.5	700	300
80	3	356	210	168.1	127	39	8-φ22.5	760	300
100	4	432	273	216.0	157	45	8-φ25.4	900	400
125	5	508	330	266.7	186	52	8-φ28.5	990	450
150	6	559	356	292.1	216	55	12-φ28.5	1070	500
200	8	660	419	349.3	270	63	12-φ32	1280	600
250	10	787	508	431.8	324	71	16-φ35	1500	650
300	12	838	559	489.0	381	74	20-φ35	1740	700

设计标准

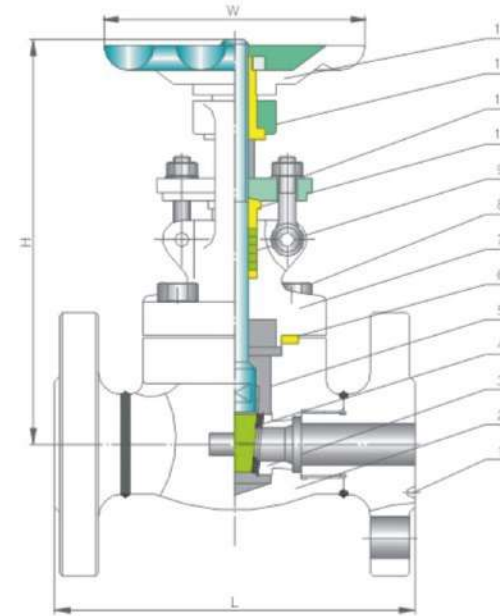
1. 结构形式: 栓接阀盖明杆支架结构
2. 驱动方式: 手动
3. 设计标准: API602、BS5352
4. 结构长度: ASME B16.10
5. 连接法兰: ASME B16.5
6. 试验和检验: API 598

Design Construction

1. Structural formation: Bolt (Weld)-jointed bonnet outside stem yoke structure
2. Driving manner: Hand-operated
3. Design standard: API602、BS5352
4. Face to face: ASME B16.10
5. Flanged ends: ASME B16.5
6. Test & inspection: API 598

主要零件材料/Major Parts Material Form

序号 No.	零件名称 Part name	材质 Material
1	法兰 Flange	ASTM A105 ASTM A182-F11、F22、F5、F9 ASTM A182-F304、F316、F321、F304L、F316L
2	阀体 Body	ASTM A105 ASTM A182-F11、F22、F5、F9 ASTM A182-F304、F316、F321、F304L、F316L
3	阀座 Seat	ASTM A105 ASTM A182-F11、F22、F5、F9 ASTM A182-F304、F316、F321、F304L、F316L
4	闸板 Gate disc	ASTM A105 ASTM A182-F11、F22、F5、F9 ASTM A182-F304、F316、F321、F304L、F316L
5	阀杆 Stem	ASTM A182Gr.F6a、ASTM A182F22 ASTM A182-F304、F316、F321、F304L、F316L
6	垫片 Gasket	柔性石墨+不锈钢 Graphite & stainless steel
7	阀盖 Bonnet	ASTM A105 ASTM A182-F11、F22、F5、F9 ASTM A182-F304、F316、F321、F304L、F316L
8	螺栓 Bolt	ASTM A193-B7、A320-B8、F321、F304L、F316L
9	填料 Packing	柔性石墨 Graphite
10	填料压套 Packing press-sleeve	ASTM A182Gr.F6a、ASTM A182F22 ASTM A182-F304、F316、F321、F304L、F316L
11	填料压盖 Packing gland	ASTM A216-WCB ASTM A351-CF8、CF8M、CF8C、CF3、CF3M
12	阀杆螺母 Valve stem nut	铜合金 Copper alloy
13	手轮 Handwheel	ASTM A47-32510



主要外形尺寸及重量/Main Size of Outside & Weight

Class		150					300					600				
DN		L		H ^①	W	重量 Weight (kg)	L		H ^①	W	重量 Weight (kg)	L		H ^①	W	重量 Weight (kg)
mm	in	RF	RTJ				RF	RTJ				RF	RTJ			
15	1/2	108	119	160	100	4.5	140	151	160	100	4.8	165	163.5	160	100	5.8
20	3/4	117.5	130	165	100	5.1	152.5	165	165	100	6.2	190.5	190.5	165	100	7.5
25	1	127	140	192	125	8.5	165	178	192	125	9.4	216	216	192	125	10.3
32	1 1/4	140	153	220	160	11.5	178	191	220	160	14.2	229	229	220	160	16.3
40	1 1/2	165	178	245	160	11.2	190.5	203	245	160	15.5	241	241	245	160	17.5
50	2	178	216	285	180	20	216	232	285	180	23.5	292	295	285	180	28.4

注: ①H为阀门全开时的高度。Notes: H represents the height in full opening condition of valve.

设计标准

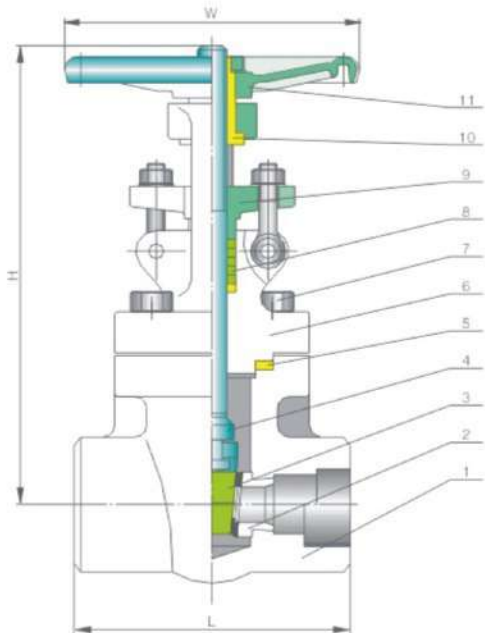
1. 结构形式: 栓接阀盖明杆支架结构
2. 驱动方式: 手动
3. 设计标准: API602、BS5352
4. 螺纹端: ASME B1.20.1
5. 承插焊端: ASME B16.11
6. 试验和检验: API 598

Design Construction

1. Structural formation: Bolt (Weld)-jointed bonnet outside stem yoke structure
2. Driving manner: Hand-operated
3. Design standard: API602、BS5352
4. Thread ends: ASME B1.20.1
5. Socket welded ends: ASME B16.11
6. Test & inspection: API 598

主要零件材料/Major Parts Material Form

序号 No.	零件名称 Part name	材质 Material
1	阀体 Body	ASTM A105 ASTM A182-F11、F22、F5、F9 ASTM A182-F304、F316、F321、F304L、F316L
2	阀座 Seat	ASTM A105 ASTM A182-F11、F22、F5、F9 ASTM A182-F304、F316、F321、F304L、F316L
3	闸板 Gate disc	ASTM A105 ASTM A182-F11、F22、F5、F9 ASTM A182-F304、F316、F321、F304L、F316L
4	阀杆 Stem	ASTM A182Gr.F6a、ASTM A182F22 ASTM A182-F304、F316、F321、F304L、F316L
5	垫片 Gasket	柔性石墨+不锈钢 Graphite & stainless steel
6	阀盖 Bonnet	ASTM A105 ASTM A182-F11、F22、F5、F9 ASTM A182-F304、F316、F321、F304L、F316L
7	螺栓 Bolt	ASTM A193-B7、A320-B8、F321、F304L、F316L
8	填料 Packing	柔性石墨 Graphite
9	填料压盖 Packing gland	ASTM A216-WCB ASTM A351-CF8、CF8M、CF8C、CF3、CF3M
10	阀杆螺母 Valve stem nut	铜合金 Copper alloy
11	手轮 Handwheel	ASTM A47-32510



主要外形尺寸及重量/Main Size of Outside & Weight

Class				800				1500			
DN				尺寸 Dimensions (mm)				尺寸 Dimensions (mm)			
缩径 Reduced bore		全径 Full bore		L	H ^①	W	重量 Weight (kg)	L	H ^①	W	重量 Weight (kg)
mm	in	mm	in								
15	1/2	10	3/8	80	160	100	1.9	111	203	125	4.2
20	3/4	15	1/2	92	165	100	2.1	111	203	125	4.6
25	1	20	3/4	111	192	125	3.2	115	216	160	6.2
32	1 1/4	25	1	120	220	160	6.9	120	235	160	8.2
40	1 1/2	32	1 1/4	120	245	160	6.9	140	275	180	11.0
50	2	40	1 1/2	140	285	180	10.4	162	320	200	15.8
		50	2	172	392	200	15.8	180	368	250	24.5

注: ①H为阀门全开时的高度。 Notes: H represents the height in full opening condition of valve.

产品采用标准/Technical Specification

设计依据 Design reference		GB	API
设计标准 Design standard		JB/T5298	API 6D ASME B16.34
结构长度 Structural length	法 兰 Flanged	GB/T 12221 JB/T 5298	API 6D ASME B16.10
	焊 接 Welded connection	GB/T15188.1	
连接法兰 Flanged ends		GB/T9113 JB/T 79	ASME B16.5 MSS SP44
对焊端 Butt-welding ends		GB/T 12224	ASME B16.25
试验和检验 Test & inspection		JB/T 9092	API 6D API 598

注: 阀门连接法兰尺寸可根据用户要求设计制造。
Note: The sizes of valve connecting flange can be designed according to customers' requirement.

产品性能规范/Products Performance Specification

压力等级 Pressure		常温试验压力(MPa) Testing pressure at constant temperature (Mpa)				适用温度 Applicable temperature	适用介质 Applicable medium	
		壳体试验 The shell testing	左密封 The left sealing	右密封 Right sealing	低压气密封 Low pressure air tightness		普通型 Ordinary type	抗硫型 Antisulphur type
公称压力 (MPa) Nominal rating pressure (PN)	1.6	2.4	1.76	1.76	0.6	-29~121℃ 或按用户要求 -29~121℃ or upon the user requirement	石油、天然气、水 等非腐蚀性介质 Petroleum, natural gas, water etc. non-corrosive media	含H ₂ S、CO ₂ 的石油、天然气、水等腐蚀性介质 Petroleum, natural gas, water etc. containing H ₂ S, CO ₂ corrosive media
	2.5	3.75	2.75	2.75	0.6			
	4.0	6.0	4.4	4.4	0.6			
	6.4	9.6	7.04	7.04	0.6			
	10.0	15.0	11.0	11.0	0.6			
磅级(Lb) Pound grade (Class)	16.0	24.0	17.6	17.6	0.6			
	150	3.0	2.2	2.2	0.6			
	300	7.5	5.5	5.5	0.6			
	600	15.0	11.0	11.0	0.6			
	900	22.5	17.5	17.5	0.6			

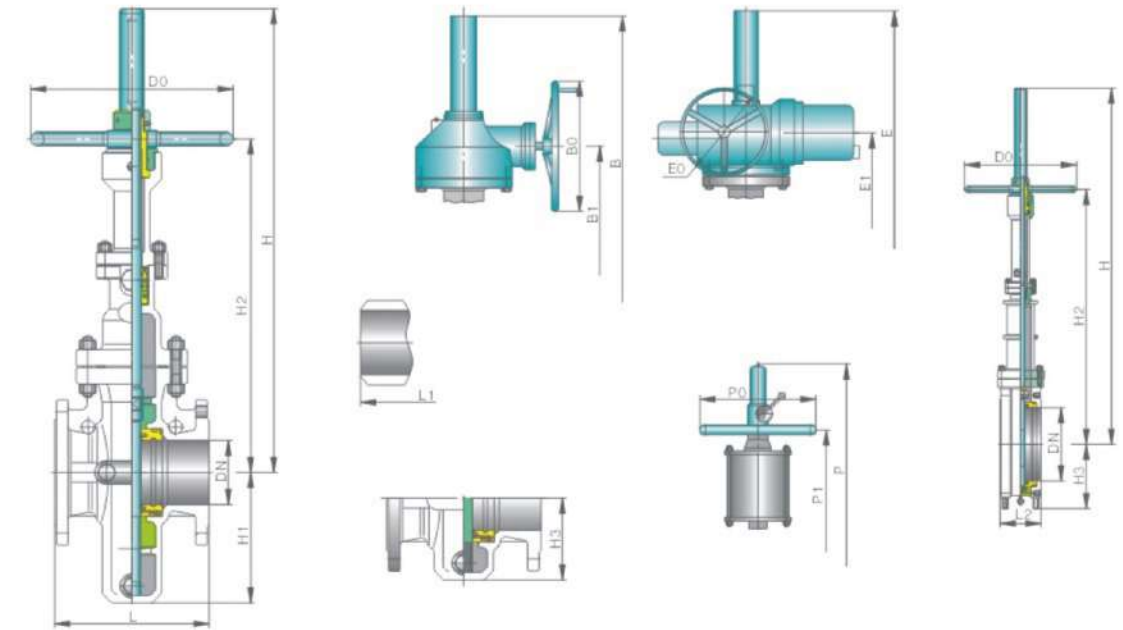
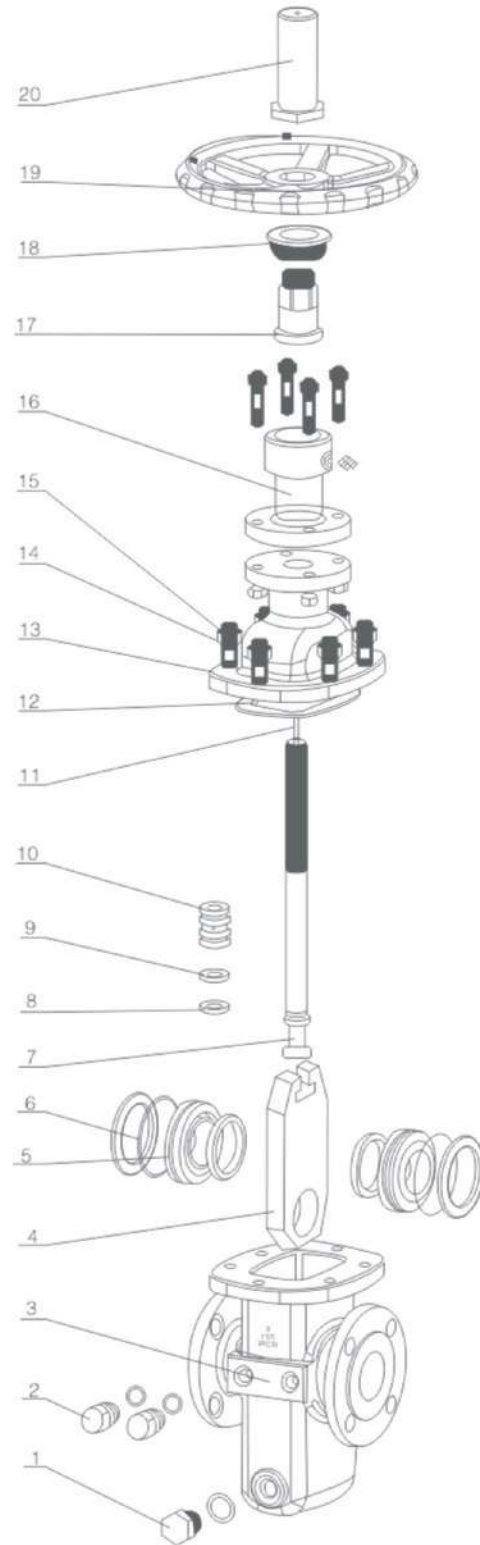
基本型号 Serial models	SW(K)Z43WF、SW(K)Z43WY、SW(K)Z43WD、SW(K)Z44WF、SW(K)Z44WY、SW(K)Z44WD SW(K)Z543WF、SW(K)Z543WY、SW(K)Z543WD、SW(K)Z544WF、SW(K)Z544WY、SW(K)Z544WD SW(K)Z643WF、SW(K)Z643WY、SW(K)Z643WD、SW(K)Z644WF、SW(K)Z644WY、SW(K)Z644WD SW(K)Z943WF、SW(K)Z943WY、SW(K)Z943WD、SW(K)Z944WF、SW(K)Z944WY、SW(K)Z944WD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

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

主要零件材料/Major Parts Material Form

序号 No.	零件名称 Accessory name	材料 Material			
		普通型 Ordinary type		抗硫型 Antisulphur type	
		GB	ASTM	GB	ASTM
1	排污堵头 Blowdown stops	25+Zn	A105+Zn	1Cr18Ni9	A276-304
2	注脂接头 Grease injection joint	25+Zn	A105+Zn	25+Zn	A105+Zn
3	阀体 Body	WCB	A216-WCB	WCB	A216-WCB
4	闸板 Gate disc	16Mn+ENP	A105+ENP	1Cr18Ni9	A276-304
5	阀座 Seat	16Mn+PTFE	A105+PTFE	1Cr18Ni9+PTFE	A276-304+PTFE
6	O形圈 O-Ring	NBR	NBR	FPM	FPM
7	阀杆 Stem	2Cr13	A276-420	1Cr18Ni9	A276-304
8	填料座 Packing seat	2Cr13	A276-420	2Cr13	A276-420
9	Y型圈 'Y' ring	NBR	NBR	FPM	FPM
10	密封套 Sealing shroud	2Cr13	A276-420	2Cr13	A276-420
11	指示杆 Indicating stem	1Cr18Ni9	A276-304	1Cr18Ni9	A276-304
12	垫片 Gasket	柔性石墨+1Cr18Ni9 Graphite+1Cr18Ni9	柔性石墨+304 Graphite+304	柔性石墨+1Cr18Ni9 Graphite+1Cr18Ni9	柔性石墨+304 Graphite+304
13	阀盖 Bonnet	WCB	A216-WCB	WCB	A216-WCB
14	螺栓 Stud	35CrMoA	A193-B7	35CrMoA	A193-B7
15	螺母 Nut	45	A194-2H	45	A194-2H
16	支架 Yoke	WCB	A216-WCB	WCB	A216-WCB
17	阀杆螺母 Stem nut	ZQA19-4	C95500	ZQA19-4	C95500
18	压盖 Gland	25	A105	25	A105
19	手轮 Hand wheel	25	A536-60-40-18	25	A536-60-40-18
20	指示罩 Indicating cover	25	A105	25	A105

注：阀门主要零部件材质可根据实际工况条件或用户特殊要求设计选用。
Notes: The major parts of the valves can be designed and selected according to actual work condition or customers' specific requirement.



主要外形尺寸及重量/Main Size of Outside & Weight

型号 Model: (K)Z5(6, 9)4(6)3(4)W(P)(F, Y, D) PN1.6、2.5MPa PN2.0MPa(Class 150)

DN (mm)	NPS (in)	法兰 Flange	对焊 Butt welding	轻型 Light- duty	手 动 Hand-operated			齿 动 Geared driving			齿动装置 Geared driving	气动 液动 Air-operating and Fluid driving			电 动 Electric driving device			电动装置 Electric driving device	无导流孔 Non-diversion hole type	有导流孔 Diverison hole type
		L	L1	L2	H	H2	D0	B	B1	B0		P	P1	P0	E	E1	E0		H3	H1
25	1	127	127	-	360	250	180	-	-	-	-	-	-	-	-	-	-	-	60	85
32	1 1/4	140	140	-	375	260	180	-	-	-	-	-	-	-	-	-	-	-	71	103
40	1 1/2	165	165	-	410	290	250	-	-	-	-	-	-	-	-	-	-	-	75	115
50	2	178	216	-	450	315	250	-	-	-	-	525	430	250	-	-	-	-	85	122
65	2 1/2	190	241	-	550	420	300	-	-	-	-	648	560	300	-	-	-	-	91	154
80	3	203	283	-	610	428	300	-	-	-	-	730	630	300	-	-	-	-	109	169
100	4	229	305	150	700	494	300	770	650	310	BA-0	850	720	300	912	790	200	SMC-04	121	193
150	6	267	403	150	895	625	350	965	800	310	BA-0	1120	920	350	1107	920	500	SMC-03	178	283
200	8	292	419	180	1130	784	350	1200	960	310	BA-0	1430	1160	350	1390	1120	500	SMC-03	211	352
250	10	330	457	180	1290	937	400	1360	1080	310	BA-0	1665	1380	400	1550	1250	500	SMC-03	215	440
300	12	356	502	200	1480	1080	450	1560	1200	310	BA-0	1930	1550	450	1740	1400	305	SMC-00	245	514
350	14	381	572	200	1660	1283	500	1740	1350	460	BA-1	2185	1750	450	1913	1550	305	SMC-00	280	602
400	16	406	610	218	1850	1417	500	1930	1500	460	BA-1	2450	2000	500	2103	1620	305	SMC-00	310	678
450	18	432	660	218	2080	1489	600	2160	1680	460	BA-1	2755	2250	500	2365	1830	305	SMC-0	346	785
500	20	457	711	229	2300	1672	700	2420	1850	460	BA-1	3050	2450	600	2585	1980	305	SMC-0	363	855
600	24	508	813	248	2680	2012	800	2800	2120	460	BA-2	3580	2900	800	2990	2300	305	SMC-1	442	1045
700	28	610	914	286	3080	2250	800	3200	2450	460	BA-2	4130	3350	800	3390	2600	305	SMC-1	505	1190
800	32	660	965	286	3491	2550	1000	3640	2800	460	BA-2	-	-	-	3850	2980	305	SMC-1	560	1350
900	36	711	1016	-	3897	2850	1000	4050	3080	600	BA-3	-	-	-	4260	3200	458	SMC-2	610	1510
1000	40	811	-	-	4317	3250	1200	4467	3400	600	BA-3	-	-	-	4677	3600	458	SMC-2	715	1715

主要外形尺寸及重量/Main Size of Outside & Weight

型号 Model: (K)Z5(6、9)4(6)3(4)W(P)(F、Y、D)PN4.0MPa PN5.0MPa(Class300)

DN (mm)	NPS (in)	法兰 Flange		对焊 Butt welding	轻型 Light- duty	手 动			齿 动			气动 液动 Air-operating and Fluid driving	电 动			电动装置 Electric driving device	无导流孔 Non-diversion hole type	有导流孔 Diversion hole type			
		L				Hand-operated			Geared driving				Electric driving device								
		GB	API			L1	L2	H	H2	D0	B		B1	B0	E				E1	E0	
25	1	165	165	165	—	370	260	180	—	—	—	—	—	—	—	—	—	70	90		
32	1 1/4	178	178	178	—	385	270	180	—	—	—	—	—	—	—	—	—	80	115		
40	1 1/2	190	190	190	—	420	300	250	—	—	—	—	—	—	—	—	—	85	130		
50	2	216	216	216	—	458	325	250	—	—	—	—	533	435	200	—	—	—	100	137	
65	2 1/2	241	241	241	—	555	420	300	—	—	—	—	653	565	200	—	—	—	106	169	
80	3	283	283	283	—	615	430	300	—	—	—	—	735	635	250	—	—	—	124	184	
100	4	305	305	305	150	710	500	300	770	650	310	BA-0	860	730	250	912	790	200	SMC-04	146	218
150	6	403	403	403	150	900	625	350	965	800	310	BA-0	1125	925	350	1155	960	500	SMC-03	206	311
200	8	419	419	419	180	1135	790	350	1200	960	310	BA-0	1435	1165	350	1390	1120	305	SMC-00	241	382
250	10	457	457	457	180	1401	1040	400	1360	1090	310	BA-0	1776	1450	400	1543	1240	305	SMC-00	251	476
300	12	502	502	502	200	1580	1150	450	1560	1200	310	BA-1	2030	1620	450	1745	1400	305	SMC-0	281	545
350	14	572	762	762	200	—	—	—	1740	1350	460	BA-1	2305	1900	500	1945	1580	305	SMC-0	325	645
400	16	610	838	838	218	—	—	—	1930	1540	460	BA-1	2558	2100	600	2135	1640	305	SMC-0	360	728
450	18	660	914	914	218	—	—	—	2160	1700	460	BA-1	2835	2320	700	2385	1840	305	SMC-1	400	800
500	20	711	991	991	229	—	—	—	2420	1850	460	BA-2	3120	2510	800	2660	2050	305	SMC-1	430	930
600	24	787	1143	1143	248	—	—	—	2800	2120	460	BA-2	3670	2980	900	3010	2310	305	SMC-1	497	1100
700	28	914	1346	1346	286	—	—	—	3200	2460	460	BA-2	—	—	—	3480	2680	458	SMC-2	560	1260
800	32	965	1524	1524	286	—	—	—	3640	2800	460	BA-2	—	—	—	3890	3020	458	SMC-2	620	1420
900	36	1016	1727	1727	—	—	—	—	4050	3080	600	BA-3	—	—	—	4260	3200	458	SMC-2	610	1510

型号 Model: (K)Z5(6、9)4(6)3(4)W(P)(F、Y、D)PN6.4MPa(Class400)

DN (mm)	NPS (in)	法兰 Flange		对焊 Butt welding	手 动			齿 动			气动 液动 Air-operating and Fluid driving	电 动			电动装置 Electric driving device	无导流孔 Non-diversion hole type	有导流孔 Diversion hole type			
		L			Hand-operated	Geared driving	Gear-driven driving	Electric driving device												
		GB	API					L1	H	H2		D0	B	B1				B0	P	P1
50	2	216	292	292	458	325	300	505	430	310	BA-0	533	435	200	647	560	200	SMC-04	108	158
65	2 1/2	241	330	330	555	420	300	560	470	310	BA-0	653	565	200	702	610	200	SMC-04	125	190
80	3	283	356	356	615	430	350	610	510	310	BA-0	735	635	250	752	650	500	SMC-03	145	225
100	4	305	406	406	710	500	350	770	650	310	BA-0	860	730	250	912	790	500	SMC-03	165	255
150	6	403	495	495	900	625	400	965	800	310	BA-0	1125	925	350	1138	950	305	SMC-00	220	330
200	8	419	597	597	1135	790	500	1200	960	310	BA-0	1435	1165	350	1373	1100	305	SMC-00	280	410
250	10	457	673	673	1401	1040	500	1370	1090	460	BA-1	1776	1450	400	1575	1280	305	SMC-0	330	490
300	12	502	762	762	1580	1150	600	1560	1200	460	BA-1	2030	1620	450	1725	1390	305	SMC-0	380	570
350	14	762	826	826	-	-	-	1740	1350	460	BA-1	2305	1900	500	1930	1570	305	SMC-1	430	650
400	16	838	902	902	-	-	-	1970	1540	460	BA-2	2558	2100	600	2210	1700	305	SMC-1	480	735
450	18	914	978	978	-	-	-	2260	1700	460	BA-2	2835	2320	700	2500	1940	305	SMC-1	530	810
500	20	991	1054	1054	-	-	-	2420	1850	460	BA-2	3120	2510	800	2630	2020	458	SMC-2	580	905
600	24	1143	1232	1232	-	-	-	2800	2120	600	BA-3	-	-	-	3050	2350	458	SMC-2	670	1070
700	28	1346	1397	1397	-	-	-	3230	2460	600	BA-3	-	-	-	3480	2680	458	SMC-2	770	1230

主要外形尺寸及重量/Main Size of Outside & Weight

型号 Model: (K)Z5(6、9)4(6)3(4)W(P)(F、Y、D)PN10.0MPa(Class600)

DN (mm)	NPS (in)	法兰 Flange		对焊 Butt welding	手 动 Hand-operated			齿 动 Geared driving			齿动装置 Geared driving	气 动 液 动 Air-operating and Fluid driving			电 动 Electric driving device			电动装置 Electric driving device	无导流孔 Non-diversion hole type	有导流孔 Diversion hole type
		L			H	H2	D0	B	B1	B0		P	P1	P0	E	E1	E0		H3	H1
		GB	API																	
50	2	250	292	292	468	335	300	505	430	310	BA-0	543	445	200	647	560	200	SMC-04	108	158
65	2 1/2	280	330	330	565	430	300	560	470	310	BA-0	663	570	200	702	610	200	SMC-04	125	190
80	3	310	356	356	625	440	350	610	510	310	BA-0	745	640	250	752	650	500	SMC-03	145	225
100	4	350	432	432	720	510	350	770	650	310	BA-0	870	740	250	950	820	500	SMC-03	165	255
150	6	450	559	559	910	630	400	965	800	310	BA-0	1135	930	350	1138	950	305	SMC-0	220	330
200	8	550	660	660	1145	800	500	1200	960	310	BA-1	1445	1170	350	1403	1130	305	SMC-0	280	410
250	10	650	787	787	1411	1050	500	1370	1090	460	BA-1	1786	1460	400	1575	1280	305	SMC-0	330	490
300	12	750	838	838	1590	1160	600	1560	1200	460	BA-1	2040	1630	450	1750	1410	305	SMC-1	380	570
350	14	850	889	889	-	-	-	1740	1350	460	BA-2	-	-	-	1930	1570	305	SMC-1	430	650
400	16	950	991	991	-	-	-	1970	1540	460	BA-2	-	-	-	2210	1700	305	SMC-1	480	735
450	18	1050	1092	1092	-	-	-	2260	1700	460	BA-2	-	-	-	2500	1940	458	SMC-2	530	810
500	20	1150	1194	1194	-	-	-	2420	1850	460	BA-2	-	-	-	2630	2020	458	SMC-2	580	905

型号 Model: (K)Z5(6、9)4(6)3(4)W(P)(F、Y、D)PN16.0MPa(Class900)

DN (mm)	NPS (in)	法兰 Flange		对焊 Butt welding	手 动 Hand-operated			齿 动 Geared driving			齿动装置 Geared driving	气 动 液 动 Air-operating and Fluid driving			电 动 Electric driving device			电动装置 Electric driving device	无导流孔 Non-diversion hole type	有导流孔 Diversion hole type
		L			H	H2	D0	B	B1	B0		P	P1	P0	E	E1	E0			
		GB	API															L1		
50	2	300	368	368	473	335	300	525	450	310	BA-0	548	450	250	647	560	500	SMC-03	108	158
65	2 1/2	340	419	419	570	435	300	585	490	310	BA-0	668	580	300	702	610	500	SMC-03	125	190
80	3	380	381	381	630	445	350	635	530	310	BA-0	750	650	350	752	650	305	SMC-00	145	225
100	4	430	457	457	725	515	350	800	680	310	BA-0	875	745	400	950	820	305	SMC-00	165	255
150	6	500	610	610	915	640	400	995	830	310	BA-1	1140	940	500	1138	950	305	SMC-0	220	330
200	8	580	737	737	1150	800	500	1250	1000	460	BA-1	1450	1180	550	1403	1130	305	SMC-0	280	410
250	10	680	838	838	1416	1055	500	1420	1140	460	BA-1	1791	1465	600	1575	1280	305	SMC-1	330	490
300	12	775	965	965	1595	1165	600	1600	1230	460	BA-2	2045	1635	700	1750	1410	305	SMC-1	380	570

国标楔式闸阀的主要结构特征/Design Characteristics of GB Wedged Gate Valve

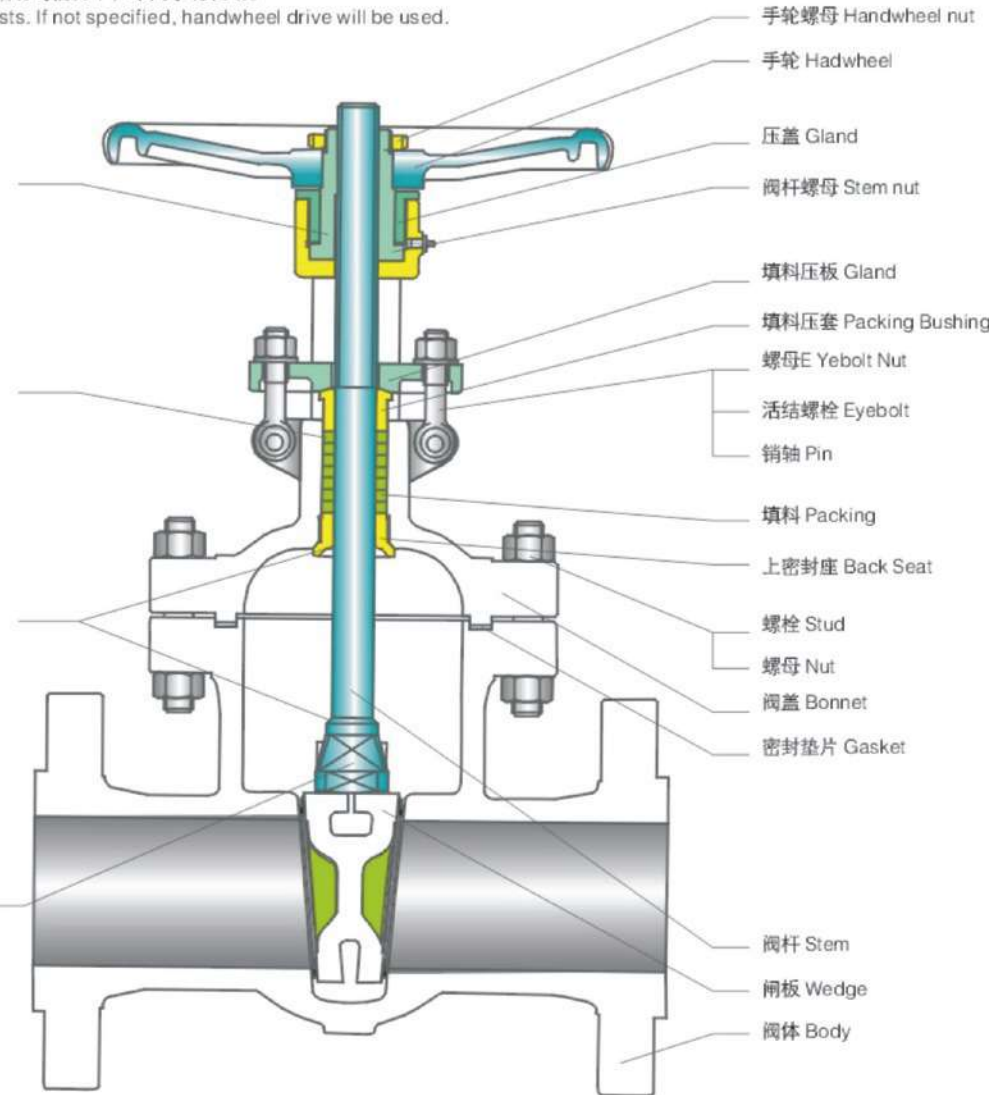
驱动装置根据客户的要求提供, 未指明的情况下, 采用手轮驱动。
Drive unit is made to user's requests. If not specified, handwheel drive will be used.

上装式阀杆螺母使阀门在开启位置, 即使卸下手轮, 阀杆闸板不会不落。
Top-mounted stem nut can prevent stem disc from falling off when valve is at 'open' position and handwheel is taken off.

填料采用柔性石墨材料, 密封性能可靠。用户有要求时可提供填料隔环和注油脂结构。
Packing uses flexible graphite for dependable sealing performance. If requested by users, packing spacer ring and greasing mechanism can be available.

阀门上密封的设计, 全开时可保证填料, 密封可靠。(不推荐带压更换填料)
Upper seal design to ensure dependable packing and sealing when valve is fully opened. (Replacement of packing under pressure is not recommended).

升降式阀杆, 阀杆与闸板采用T型槽连接, 阀杆T型头整体锻造成型, 保证了足够的连接强度。
Lift stem, with stem and disc connected by T-slot, and stem T head integrally forged to ensure sufficient strength of joint.



主要零件材料/Major Parts Material Form

序号 No.	零件名称 Part name	材质 Material
1	阀体 Body	WCB, WC1, WC6, WC9, C5, CF8, CF8M, CF8C, CF3, CF3M
2	闸板 Gate disc	WCB, WC1, WC6, WC9, C5, CF8, CF8M, CF8C, CF3, CF3M
3	阀杆 Stem	1Cr13, 2Cr13, 1Cr18Ni9, 0Cr18Ni12Mo2Ti, 20Cr1Mo1V, 25Cr2MoV
4	双头螺栓 Stud	35CrMoA, 0Cr18Ni9, 0Cr17Ni12Mo2, 25Cr2MoV
5	六角螺母 Six angle nuts	45, 35CrMoA, 25Cr2MoV, 0Cr18Ni9, 0Cr17Ni12Mo2
6	垫片 Gasket	柔性石墨+不锈钢 Graphite & stainless steel
7	阀盖 Bonnet	WCB, WC1, WC6, WC9, C5, CF8, CF8M, CF8C, CF3, CF3M
8	填料 Packing	柔性石墨 Graphite
9	填料压套 Packing press-sleeve	1Cr13, 2Cr13, 1Cr18Ni9, 0Cr18Ni12Mo2Ti
10	填料压盖 Packing gland	WCB, CF8, CF8M, CF8C, CF3, CF3M
11	阀杆螺母 Valve stem nut	铜合金 Copper alloy
12	手轮 Handwheel	KTH330, QT400-17

概述

铸钢闸阀具有流体阻力小, 密封面受冲击侵蚀小, 不改变介质流向, 不扰流, 压降小等特点, 适用的压力、温度范围广, 是一种常见的截断阀, 广泛适用于石油、化工、火力发电厂等油品, 水蒸汽管路上接通或截断管路中的介质。(不可做节流阀使用)

产品结构特点

法兰连接铸钢闸阀适用于公称压力PN1.6~42.0MPa(Class150~2500), 工作温度≤600℃的石油、化工、火力电站等各种工况的管路上, 切断或接通管路介质。
其主要结构特点有:

1. 产品结构合理、密封可靠、性能优良、造型美观。
2. 密封面堆焊Co基硬质合金, 耐磨、耐蚀、抗擦伤性能好, 使用寿命长。
3. 阀杆经调质及表面氮化处理, 有良好的抗腐蚀性及抗擦伤性。
4. 公称压力≥15.0MPa(Class900)中腔采用自紧密封式结构, 密封性能随压力升高而增强, 保证了密封性能。
5. 阀门设有倒密封结构, 密封可靠。
6. 零件材质及法兰、对焊端尺寸可根据实际工况或用户要求合理选配, 满足各种工程需要。

设计标准

1. 结构形式: 接阀盖明杆支架结构
 2. 驱动方式: 手动、齿轮驱动、电动
 3. 设计标准: GB/T 12234, DIN 3352
 4. 结构长度: GB/T 12221, EN558-1
 5. 连接法兰: GB/T 9113, JB/T 79, HG20592, EN1091-1
 6. 试验和检验: JB/T 9092, ISO5208
- 注: 阀门连接法兰及对焊端尺寸可根据用户要求设计制造。

产品主要参数/Main Parameter of the Products

压力等级范围 Pressure grade range	PN1.6 ~ 42.0MPa (Class150 ~ 2500)			
通径范围 Drift diameter range	DN15 ~ DN1000 (1" ~ 40")			
驱动方式 Driving manner	手轮驱动 Hand wheel driving			齿轮驱动、电动 Gear driving and electric driving
适用范围 Scope of application	PN1.6 ~ 4.0 (Class150 ~ 300)	PN6.4 ~ 10.0 (Class400 ~ 600)	PN15.0 ~ 42.0 (Class900 ~ 2500)	2" ~ 40" DN50 ~ DN1000
	1/2" ~ 24" DN15 ~ DN600	1/2" ~ 12" DN15 ~ DN300	1/2" ~ 10" DN15 ~ DN250	

产品性能规范/Products Performance Specification

压力等级 Pressure	常温试验压力(MPa) Testing pressure at constant temperature (Mpa)			适用温度 Applicable temperature	适用介质 Applicable medium
	壳体试验 The shell testing	密封试验 Seal and test	上密封试验 Have and seal testing		
公称压力 (MPa) Nominal rating pressure (PN)	1.6	2.4	1.76	-196 ~ 600℃	水、油品、蒸汽等 Water, oil, steam, etc.
	2.5	3.8	2.75		
	4.0	6.0	4.4		
	6.4	9.6	7.04		
	10.0	15.0	11.0		
	16.0	24.0	17.6		
	25.0	37.5	27.5		

Overview

Featured by low fluid resistance, little impact erosion on sealing surface, no change of medium flow direction, no disturbed flow, small pressure drop and etc. gate valve is a commonly-used cutout valve, applicable for a wide range of pressure and temperature, and widely used to put through or cut off the medium in oil or steam pipeline in the industries of petroleum, chemicals, thermal power plants and etc. (It cannot be used as throttle valve.)

Products design features

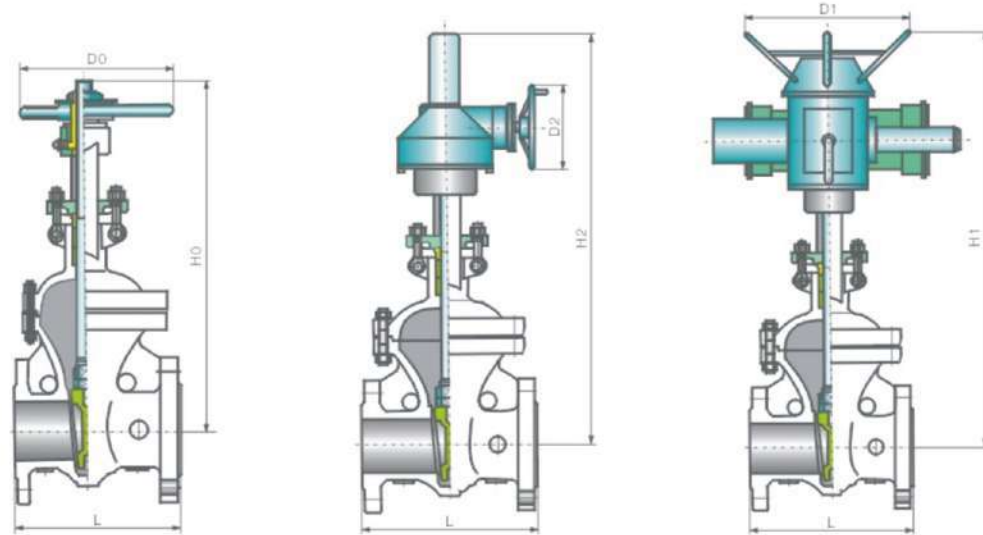
Flanged ends cast steel gate valve are used to cut or connect the pipe media under nominal pressure between PN1.6~42.0MPa (Class150~2500). Working temperatures ≤600°C. in oil industry, chemical industry, fossil-fired power plants.
The main structure features include:

1. Both design and manufacture are carried out strictly following GB/T12234 DIN/3352, API600 and API602. The products feature a reasonable structure, reliable seal, good performance and nice modelling.
2. Co hard alloy welded sealing surface, which is wearing resistant, erosion proof, abrasion proof and long-lived.
3. The surface and the adjusting media of the valve shaft are nitrogenized so that it is erosion and abrasion resistant.
4. PN ≥ 15.0Mpa (class900), the middle cavity uses a self-tightening sealing structure to have the sealing performance reinforced along with the Pressure rise so as to ensure the sealing performance.
5. There is no backward sealing structure in the valve, so the sealing is reliable.
6. The material of the filling and the flange size can be chosen and matched according to the applications and the requirements of the use's. That can satisfies all kinds of working requirements.

Design Construction

1. Structural formation: Bolt-jointed bonnet outside stem yoke structure
 2. Driving manner: Hand-operated, Gear-operated and Electric-driving
 3. Design standard: GB/T 12234, DIN 3352
 4. Face to face: GB/T 12221, EN558-1
 5. Flanged ends: GB/T 9113, JB/T 79, HG20592, EN1091-1
 6. Test & inspection: JB/T 9092, ISO5208
- Notes: The sizes of valve connecting flange and butt-welding terminas can be designed according to customer's requirement.

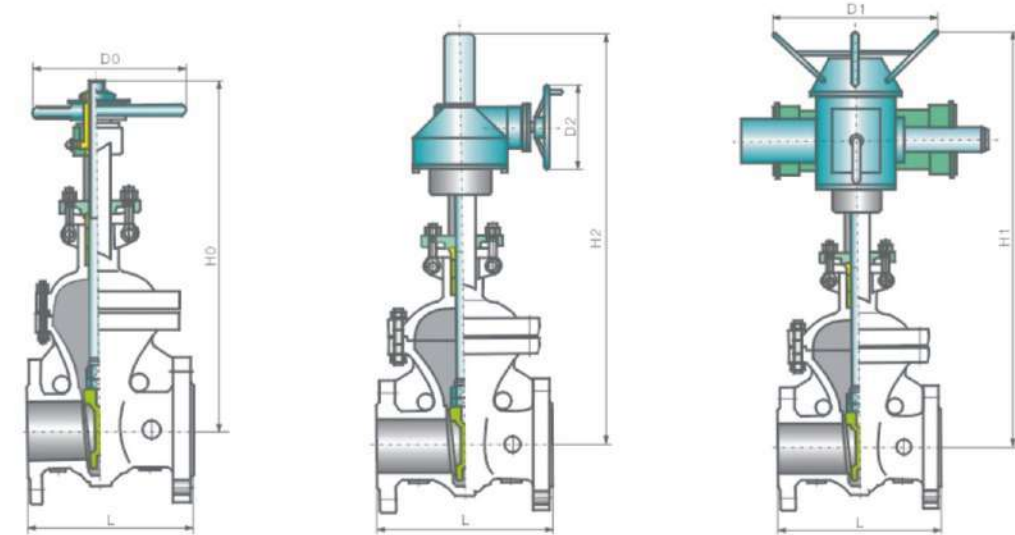
楔式铸钢闸阀PN1.6



主要外形尺寸及重量/Main Size of Outside & Weight

传动方式 Driving			手动 Hand operated			电动 Electric driving				齿轮动 Gear operated		
PN (MPa)	DN (mm)	L	H0	D0	重量 Weight (kg)	H1	D1	电动装置 Electric driving	重量 Weight (kg)	H2	D2	重量 Weight (kg)
1.6	15	130	170	120	5	-	-	-	-	-	-	-
	20	150	190	140	6.5	-	-	-	-	-	-	-
	25	160	205	160	9	-	-	-	-	-	-	-
	32	180	270	180	12	-	-	-	-	-	-	-
	40	200	310	200	26.5	630	590	DZW10A	87.5	-	-	-
	50	250	358	240	29	678	590	DZW10A	90	-	-	-
	65	265	373	240	33	693	590	DZW15A	96	-	-	-
	80	280	435	280	45	755	590	DZW20A	108	-	-	-
	100	300	500	300	62	820	590	DZW20A	126	-	-	-
	125	325	614	320	106	934	590	DZW30A	173	-	-	-
	150	350	674	360	135	994	590	DZW30A	199	-	-	-
	200	400	818	400	193	1138	590	DZW30A	254	-	-	-
	250	450	969	450	273	1409	810	DZW45A	310	-	-	-
	300	500	1145	560	380	1588	810	DZW60A	391	1310	310	504
	350	550	1280	640	590	1755	830	DZW90	729	1468	310	674
	400	600	1452	640	850	1902	830	DZW120	992	1780	460	950
	450	650	1541	720	910	2141	870	DZW180	1168	1880	460	1300
	500	700	1676	720	960	2276	870	DZW250	1222	2110	460	1530
	600	800	1874	800	1115	2474	870	DZW250	1376	2410	460	2140
	700	900	-	-	-	3046	1170	DZW350	-	2600	460	3270
	800	1000	-	-	-	3250	1170	DZW500	-	2860	610	3920
	900	1100	-	-	-	3509	1060	DZW800	-	3170	610	4435
	1000	1200	-	-	-	3873	1060	DZW1000	-	-	-	-

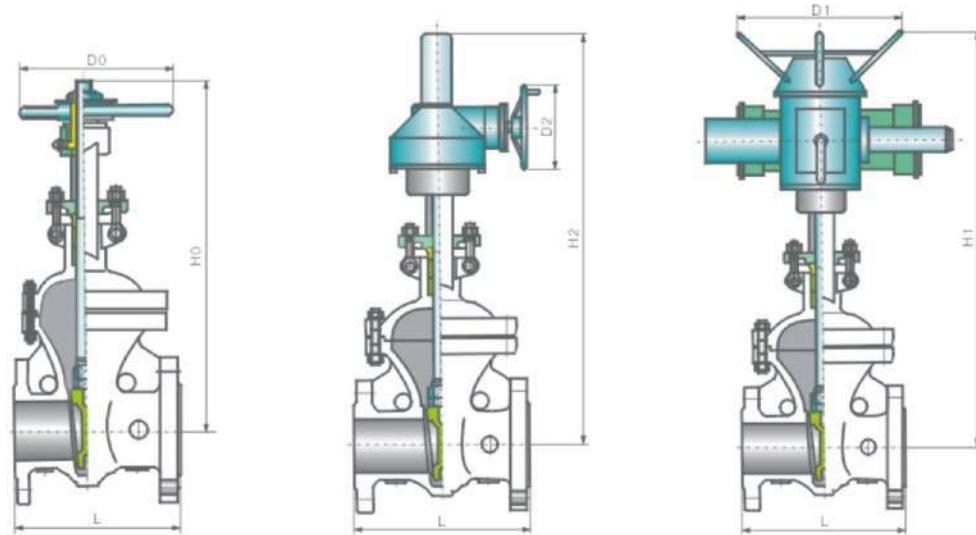
楔式铸钢闸阀PN2.5



主要外形尺寸及重量/Main Size of Outside & Weight

传动方式 Driving			手动 Hand operated			电动 Electric driving				齿轮动 Gear operated		
PN (MPa)	DN (mm)	L	H0	D0	重量 Weight (kg)	H1	D1	电动装置 Electric driving	重量 Weight (kg)	H2	D2	重量 Weight (kg)
2.5	15	130	170	120	5.5	-	-	-	-	-	-	-
	20	150	190	140	7	-	-	-	-	-	-	-
	25	160	205	160	11	-	-	-	-	-	-	-
	32	180	270	180	14	-	-	-	-	-	-	-
	40	200	310	200	30	630	590	DZW10A	91	-	-	-
	50	250	358	240	34	678	590	DZW10A	95	-	-	-
	65	265	373	240	36	693	590	DZW15A	99	-	-	-
	80	280	435	280	50	755	590	DZW20A	113	-	-	-
	100	300	500	300	69	820	590	DZW20A	132	-	-	-
	125	325	614	320	116	934	590	DZW30A	181	-	-	-
	150	350	674	360	141	994	590	DZW30A	206	-	-	-
	200	400	818	400	192	1138	590	DZW30A	257	-	-	-
	250	450	969	450	207	1409	810	DZW45A	317	-	-	-
	300	500	1145	560	400	1588	810	DZW60A	412	1310	310	504
	350	550	1280	640	631	1755	830	DZW90	750	1468	310	674
	400	600	1452	640	900	1902	830	DZW120	1042	1780	460	950
	450	650	1541	720	1013	2141	870	DZW180	1274	1880	460	1300
	500	700	1676	720	1166	2276	870	DZW250	1420	2110	460	1530
	600	800	1874	800	1258	2474	870	DZW250	1522	2410	460	2140
	700	900	-	-	-	3046	1170	DZW350	-	2600	460	3275
	800	1000	-	-	-	3250	1170	DZW500	-	2860	610	3924
	900	1100	-	-	-	3509	1060	DZW800	-	3170	610	4435
	1000	1200	-	-	-	3873	1060	DZW1000	-	-	-	-

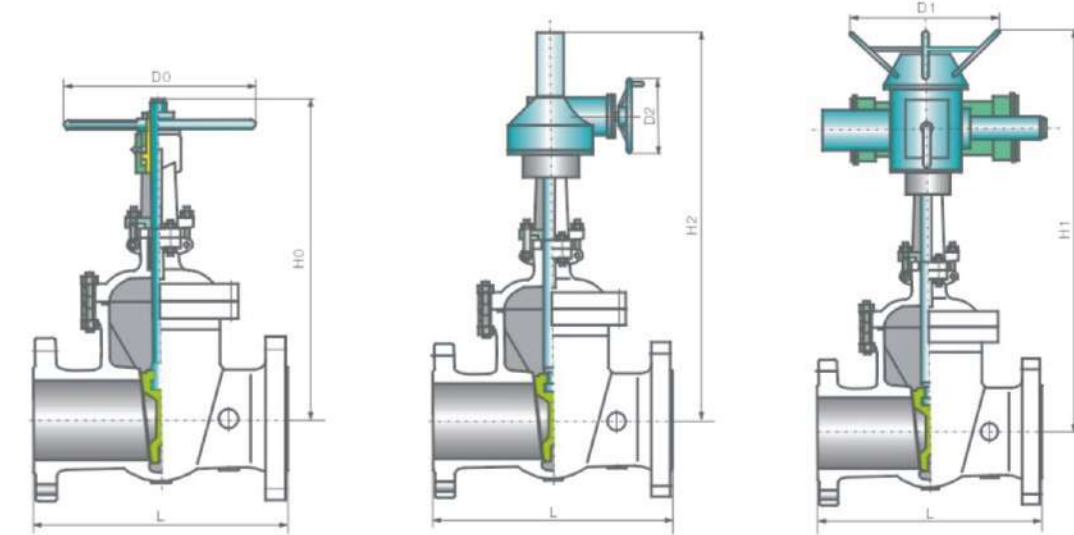
楔式铸钢闸阀PN4.0



主要外形尺寸及重量/Main Size of Outside & Weight

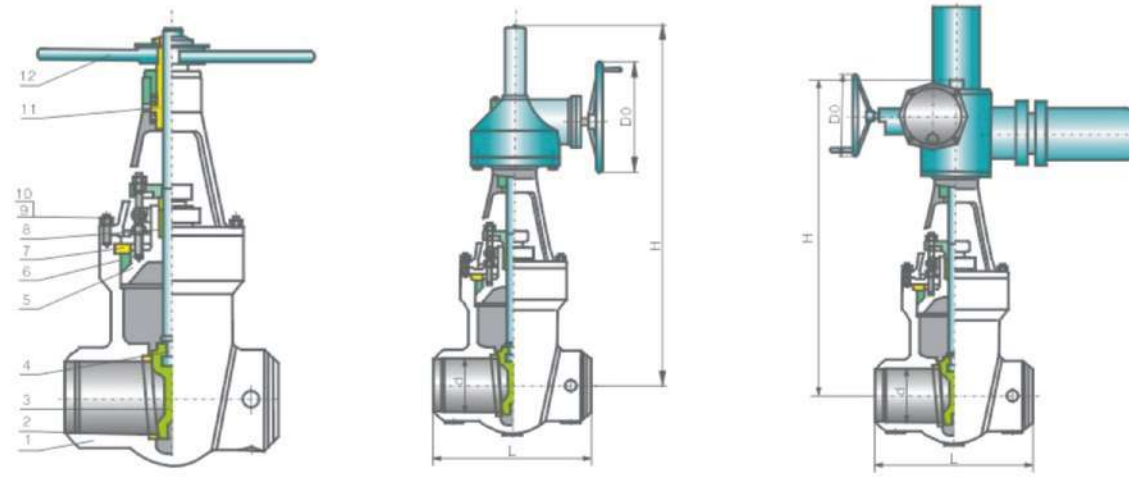
传动方式 Driving			手动 Hand operated			电动 Electric driving				齿轮动 Gear operated			
PN (MPa)	DN (mm)	L	H0	D0	重量 Weight (kg)	H1	D1	电动装置 Electric driving	重量 Weight (kg)	H2	D2	齿轮装置 Gear device	重量 Weight (kg)
4.0	15	130	135	120	6	-	-	-	-	-	-	-	-
	20	150	190	140	8	-	-	-	-	-	-	-	-
	25	160	205	160	12	-	-	-	-	-	-	-	-
	32	180	270	180	15	-	-	-	-	-	-	-	-
	40	240	310	200	31	630	590	DZW10A	92	-	-	-	-
	50	250	371	280	34	670	590	DZW10A	95	-	-	-	-
	65	290	391	280	39	712	590	DZW15A	102	-	-	-	-
	80	310	455	320	52	775	590	DZW20A	115	-	-	-	-
	100	350	551	360	80	875	590	DZW20A	163	-	-	-	-
	125	400	628	400	127	948	590	DZW20A	190	-	-	-	-
	150	450	708	400	154	1030	590	DZW30A	219	-	-	-	-
	200	550	885	460	263	1325	590	DZW45A	373	-	-	-	-
	250	650	906	560	368	1400	810	DZW60A	480	-	-	-	-
	300	750	1203	640	547	1655	830	DZW90	686	1500	460	BA-1	630
	350	850	1341	640	679	1795	830	DZW120	821	1960	460	BA-1	985
	400	950	1492	720	963	2093	870	DZW180	1214	2170	460	BA-1	1430
	500	1150	-	-	-	2645	870	DZW250	2150	2450	610	BA-2	2040
	600	1350	-	-	-	2865	1170	DZW350	-	2940	610	BA-2	3050
	700	1550	-	-	-	3450	1170	DZW500	-	-	-	-	-
	800	1750	-	-	-	3920	1060	DZW800	-	-	-	-	-

楔式铸钢闸阀PN6.4/10.0



主要外形尺寸及重量/Main Size of Outside & Weight

传动方式 Driving			手动 Hand operated			电动 Electric driving				齿轮动 Gear operated			
PN (MPa)	DN (mm)	L	H0	D0	重量 Weight (kg)	H1	D1	电动装置 Electric driving	重量 Weight (kg)	H2	D2	齿轮装置 Gear device	重量 Weight (kg)
6.4	15	170	140	100	7	-	-	-	-	-	-	-	-
	20	190	140	100	9	-	-	-	-	-	-	-	-
	25	210	215	180	12	-	-	-	-	-	-	-	-
	32	230	270	180	16	-	-	-	-	-	-	-	-
	40	240	345	200	32	665	590	DZW10A	93	-	-	-	-
	50	250	470	200	39	790	590	DZW15A	102	-	-	-	-
	65	290	520	250	43	840	590	DZW20A	106	-	-	-	-
	80	310	570	300	60	890	590	DZW20A	123	-	-	-	-
	100	350	700	300	89	1020	590	DZW30A	154	-	-	-	-
	125	400	780	350	140	1100	590	DZW30A	205	-	-	-	-
	150	450	850	350	207	1290	590	DZW45A	317	-	-	-	-
	200	550	1035	400	325	1475	810	DZW60A	437	1420	310	BA-0	430
	250	650	1050	560	467	1500	830	DZW90	606	1580	460	BA-1	530
	300	750	1470	640	590	1820	830	DZW120	732	1770	460	BA-1	590
	350	850	-	-	-	2216	870	DZW180	1110	2060	460	BA-1	840
	400	950	-	-	-	2838	870	DZW250	1540	2270	460	BA-1	1410
	500	1150	-	-	-	3320	1170	DZW350	-	-	-	-	-
	600	1350	-	-	-	3684	1170	DZW500	-	-	-	-	-
10.0	40	240	360	320	50	680	590	DZW15A	113	-	-	-	-
	50	250	490	360	60	810	590	DZW20A	123	-	-	-	-
	65	290	540	400	70	860	590	DZW20A	133	-	-	-	-
	80	310	572	400	100	896	590	DZW30A	165	-	-	-	-
	100	350	573	400	110	1013	590	DZW45A	220	-	-	-	-
	125	400	744	560	180	1184	810	DZW60A	292	-	-	-	-
	150	450	800	560	250	1250	830	DZW90	389	-	-	-	-
	200	550	800	560	360	1250	830	DZW120	502	1490	310	BA-0	730
	250	650	1050	600	420	1650	870	DZW180	790	1720	460	BA-1	900
	300	750	1200	640	530	1800	870	DZW250	910	1890	460	BA-1	1200
	350	850	-	-	-	2030	1170	DZW350	1610	2180	610	BA-2	1700
	400	950	-	-	-	2250	1170	DZW500	2512	2390	610	BA-2	2500
	500	1150	-	-	-	2550	1060	DZW800	3200	-	-	-	-



设计标准

1. 设计标准: JB/T 3595、NB/T 47044
2. 结构长度: JB/T 2788、GB/T 15188.1
3. 对焊连接: JB/T 2788、GB/T 15188.1
4. 压力与温度: JB/T 3595、NB/T 47044、JB/T 74
5. 试验和检验: JB/T 3595、NB/T 47044
6. 焊接坡口: JB/T 3595、NB/T 47044

注: 阀门连接法兰及焊接坡口可根据用户要求设计制造。
Note: valve connecting flange and welded groove can be designed and made upon the user requirements.

Design Construction

1. Design standard: JB/T 3595、NB/T 47044
2. Structural length: JB/T 2788、GB/T 15188.1
3. Welded connection: JB/T 2788、GB/T 15188.1
4. Pressure and temperature: JB/T 3595、NB/T 47044、JB/T 74
5. Test & inspection: JB/T 3595、NB/T 47044
6. Weld the slope mouth: JB/T 3595、NB/T 47044

主要零件材料/Major Parts Material Form

序号 No.	零件名称 Part name	材质 Material
1	阀体 Body	WCB、WC1、WC6、WC9、C12A、15Cr1Mo1V、12Cr1MoV、20CrMoV
2	阀座 Seat	25、15CrMoA、12CrMoVA
3	闸板 Floodgate board	WCB、WC1、WC6、WC9、C12A、15Cr1Mo1V、12Cr1MoV、20CrMoV
4	阀杆 Stem	1Cr17Ni12、2Cr13、20Cr1MoV、25Cr2Mo1V
5	阀盖 Bonnet	WCB、WC1、WC6、WC9、C12A、15Cr1Mo1V、12Cr1MoV、20CrMoV
6	密封圈 Sealing ring	柔性石墨 Graphite
7	四开环 Quarto ring	1Cr13、2Cr13
8	填料 Packing	柔性石墨 Graphite
9	双头螺柱 Stud	35CrMoA、25Cr2MoV
10	螺母 Nut	35CrMoA、25Cr2MoV
11	阀杆螺母 Valve stem nut	铜合金 Copper alloy
12	手轮 Handwheel	QT400-17

主要外形尺寸及重量/Main Size of Outside & Weight

型号 Model: Z91Y-250.C.V

DN (mm)	尺寸 Dimensions(mm)				重量(kg) Weight	电动装置 Electric driving device
	L	d	H	D0		
100	483	106	1194	508	223	SMC-03
125	559	126	1270	305	395	SMC-0
175	711	158	1325	305	555	SMC-0
225	864	210	1530	457	850	SMC-1
250	991	250	1804	305	1280	SMC-1
275	1067	282	2155	457	1725	SMC-2
300	1194	318	2167	610	2429	SMC-3

型号 Model: Z91Y-320.C.V

DN (mm)	尺寸 Dimensions(mm)				重量(kg) Weight	电动装置 Electric driving device
	L	d	H	D0		
100	533	96	1120	305	280	SMC-00
125	610	118	1219	305	419	SMC-0
175	762	148	1349	305	626	SMC-0
225	914	180	1690	305	1020	SMC-1
250	1041	222	1830	457	1320	SMC-2

主要外形尺寸及重量/Main Size of Outside & Weight

型号 Model: Z91Y-P54100V

DN (mm)	尺寸 Dimensions(mm)				重量(kg) Weight	电动装置 Electric driving device
	L	d	H	D0		
100	533	96	1120	305	280	SMC-00
125	610	118	1219	305	419	SMC-0
175	762	148	1349	305	626	SMC-0
225	914	180	1690	305	1020	SMC-1
250	1041	222	1830	457	1320	SMC-2

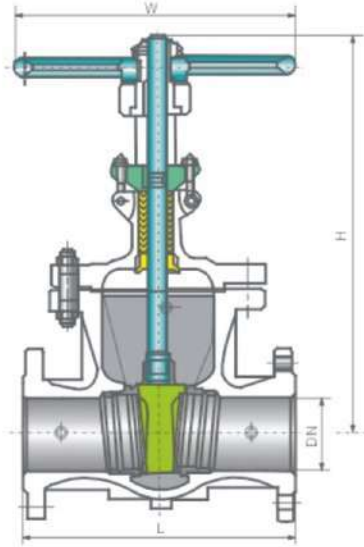
型号 Model: Z91Y-P54140V

DN (mm)	尺寸 Dimensions(mm)				重量(kg) Weight	电动装置 Electric driving device
	L	d	H	D0		
175	762	130	1339	305	725	SMC-0
225	914	162	1468	305	1152	SMC-1
250	1041	210	1890	457	1520	SMC-2

型号 Model: Z91Y-P54170V

DN (mm)	尺寸 Dimensions(mm)				重量(kg) Weight	电动装置 Electric driving device
	L	d	H	D0		
175	930	151	1812	305	1459	SMC-1
225	1060	186	1831	457	2180	SMC-2
250	1118	214	2130	457	2870	SMC-2
350	1550	338	2456	610	5591	SMC-4

夹套保温闸阀PN1.6/2.5/4.0



BZ41型

设计标准

1. 设计制造: GB12234
2. 结构长度: GB12221
3. 法兰尺寸: JB/T79、HG/T 20592
4. 阀门检查和试验: GB13927

Design Construction

1. Design Manufacture According:GB12234
2. Face to Face According:GB12221
3. Flange Dimension According:JB/T79、HG/T 20592
4. Valve Check and Test According:Gb13927

主要零件材质/Parts material

零件名称 Item	ZG1Cr18Ni9Ti系列	ZG00Cr18Ni10系列	ZG1Cr18Ni12MO ₂ Ti系列	ZG00Cr17Ni14MO ₂ 系列	WCB系列
阀体/阀盖 Body/cap	ZG1Cr18Ni9Ti	ZG00Cr18Ni10	ZG1Cr18Ni12MO ₂ Ti	ZG00Cr17Ni14MO ₂	WCB
闸板 Wedge	ZG1Cr18Ni9Ti	ZG00Cr18Ni10	ZG1Cr18Ni12MO ₂ Ti	ZG00Cr17Ni14MO ₂	1Cr13
阀杆 Stem	1Cr18Ni9Ti	00Cr18Ni10	1Cr18Ni12MO ₂ Ti	00Cr17Ni14MO ₂	1Cr13
填料 Packing	PTFE编织	PTFE编织	PTFE编织	PTFE编织	石墨 Graphite
垫片 Gasket	304+PTFE	304L+PTFE	316+PTFE	316L+PTFE	石墨+304 Graphite+304
压盖 Gand flange	ZG1Cr18Ni9Ti	ZG00Cr18Ni10	ZG1Cr18Ni12MO ₂ Ti	ZG00Cr17Ni14MO ₂	WCB
填料压环 Stuffing ring	1Cr18Ni9Ti	00Cr18Ni10	1Cr18Ni12MO ₂ Ti	00Cr17Ni14MO ₂	1Cr13
螺栓 Bolt	1Cr17Ni2	1Cr17Ni2	1Cr17Ni2	1Cr17Ni2	35CrMoA
螺母 Nut	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni9Ti	45

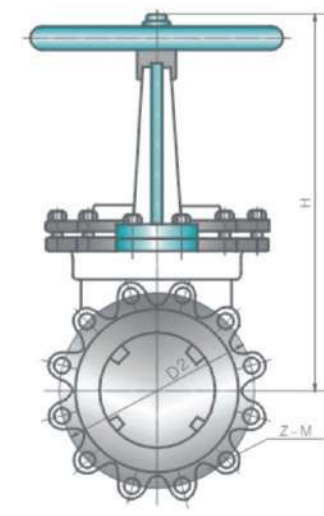
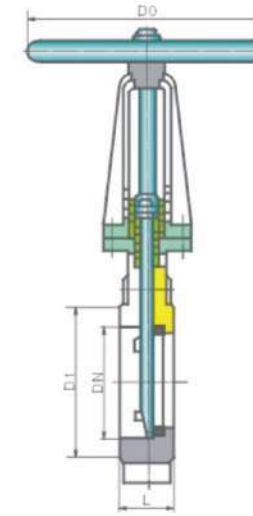
主要连接尺寸/Main connection dimensions

PN(MPa)	尺寸 Dimension	DN	40	50	65	80	100	125	150	200	250	300
1.6	L	mm	200	250	265	280	300	325	350	400	450	500
	H	mm	310	358	373	435	500	614	674	818	969	1145
	W	mm	200	240	240	280	300	320	360	400	450	560

PN(MPa)	尺寸 Dimension	DN	40	50	65	80	100	125	150	200	250	300
2.5	L	mm	200	250	265	280	300	325	350	400	450	500
	H	mm	358	373	435	500	614	674	818	969	1145	1145
	W	mm	240	240	280	300	320	360	400	450	560	640

PN(MPa)	尺寸 Dimension	DN	40	50	65	80	100	125	150	200	250	300
4.0	L	mm	200	250	280	310	350	400	450	550	650	750
	H	mm	358	373	435	500	614	674	818	969	1145	1145
	W	mm	240	240	280	300	320	360	400	450	560	640

刀型闸阀PN1.0/1.6



主要外形尺寸及重量/Main Size of Outside & Weight

PN(MPa)	DN (mm)	L	D	D1	D2	Z-M	H	D0	W
1.0	50	48	160	125	100	4-M16	285	180	8
	65	48	180	145	120	4-M16	298	180	10
	80	50	195	160	135	4-M16	315	220	12
	100	50	215	180	155	8-M16	365	220	14
	150	57	280	240	210	8-M20	475	280	29
	200	70	335	295	265	8-M20	540	360	38
	250	70	390	350	320	12-M20	630	360	66
	300	76	440	400	368	12-M20	780	400	100
	350	76	500	460	428	16-M20	885	400	119
	400	89	565	515	482	16-M22	990	400	195
	450	89	615	565	532	20-M22	1100	530	285
	500	114	670	620	585	20-M22	1200	530	389
	600	114	780	725	685	20-M27	1450	600	529

主要外形尺寸及重量/Main Size of Outside & Weight

PN(MPa)	DN (mm)	L	D	D1	D2	Z-M	H	D0	W
1.6	50	48	165	125	99	4-M16	285	180	8.5
	65	48	185	145	118	4-M16	295	180	10.7
	80	50	200	160	132	8-M15	315	220	13
	100	50	220	180	156	8-M16	365	220	15
	150	57	285	240	211	8-M20	475	280	31
	200	70	340	295	266	12-M20	540	360	40.7
	250	70	405	355	319	12-M24	630	360	70
	300	76	460	410	370	12-M24	780	400	107
	350	76	520	470	429	16-M24	885	400	129
	400	89	580	525	480	16-M27	990	400	215
	450	89	640	585	548	20-M27	1100	530	305
	500	114	715	650	609	20-M30	1200	530	410
	600	114	840	775	720	20-M33	1450	600	550

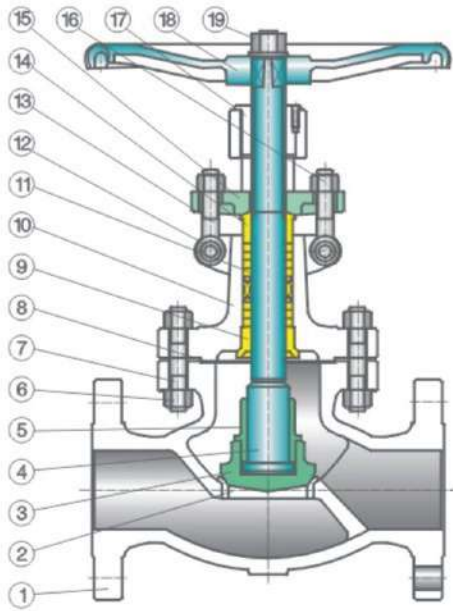


Globe Valve Series
截止阀系列

高品阀门集团有限公司
THERMAL VALVE GROUP CO.LTD.

美标铸钢截止阀
API Cast Steel Globe Valve

API 铸钢截止阀BS 1873



设计标准

- 1. 设计与制造: BS 1873
- 2. 测试标准: API 598、ISO 5208
- 3. 法兰连接尺寸: ASME B16.5
- 4. 对焊端尺寸: ASME B16.25
- 5. 结构长标准: ASME B16.10
- 6. 压力温度等级: ASME B16.34

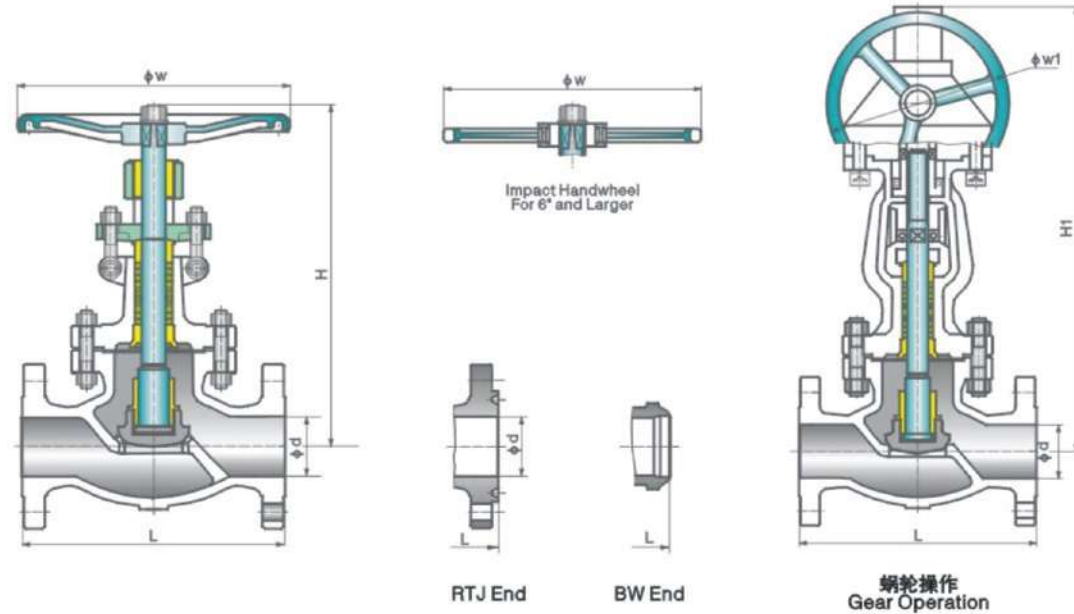
Design Construction

- 1. Design and Manufacture: BS 1873
- 2. Inspection and Test: API 598、ISO 5208
- 3. Flanged ends dimension: ASME B16.5
- 4. Butt-welded ends dimension: ASME B16.25
- 5. Face to face and end to end: ASME B16.10
- 6. Pressure-temperature ratings: ASME B16.34

主要零件材料/Major Parts Material Form

部件编号 Parts No.	零件名称 Parts name	WCB/Trim 1	WCB/Trim 5	WCB/Trim 8	CF8/304	CF8M/316
1	阀体 Body	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
2	阀座 Seat Ring	A105+13Cr	A105+STL	A105+STL	ASTM A351 CF8	ASTM A351 CF8M
3	阀瓣 Disc	ASTM A216 WCB+13Cr	ASTM A216 WCB+STL	ASTM A216 WCB+13Cr	ASTM A351 CF8	ASTM A351 CF8M
4	阀杆 Stem	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F304	ASTM A182 F316
5	阀瓣螺母 Disc Nut	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
6	阀盖螺母 Bonnet Nut	ASTM A194 2H	ASTM A194 2H	ASTM A194 2H	ASTM A194 8	ASTM A194 8M
7	阀盖螺栓 Bonnet Bolt	ASTM A193 B7	ASTM A193 B7	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8M
8	密封垫片 Gasket	304 sheet +Graphite	304 sheet +Graphite	304 sheet +Graphite	304 + Graphite	316 + Graphite
9	上密封轴套 Backseat Bushing	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F6a	ASTM A351 CF8	ASTM A351 CF8M
10	阀盖 Bonnet	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
11	填料 Packing	Graphite	Graphite	Graphite	Graphite	Graphite
12	销 Eyebolt Pin	ASTM A36	ASTM A36	ASTM A36	304ss	316ss
13	鱼眼螺栓 Gland Eyebolt	ASTM A193 B7	ASTM A193 B7	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8M
14	轴套 Gland	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F304	ASTM A182 F316
15	压兰 Gland Flange	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
16	螺母 Eyebolt Nut	ASTM A194 2H	ASTM A194 2H	ASTM A194 2H	ASTM A194 8	ASTM A194 8M
17	阀杆螺母 Stem Nut	ASTM A439 D2	ASTM A439 D2	ASTM A439 D2	ASTM A439 D2	ASTM A439 D2
18	手轮 Handwheel	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron
19	手轮螺母 Handwheel Nut	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel

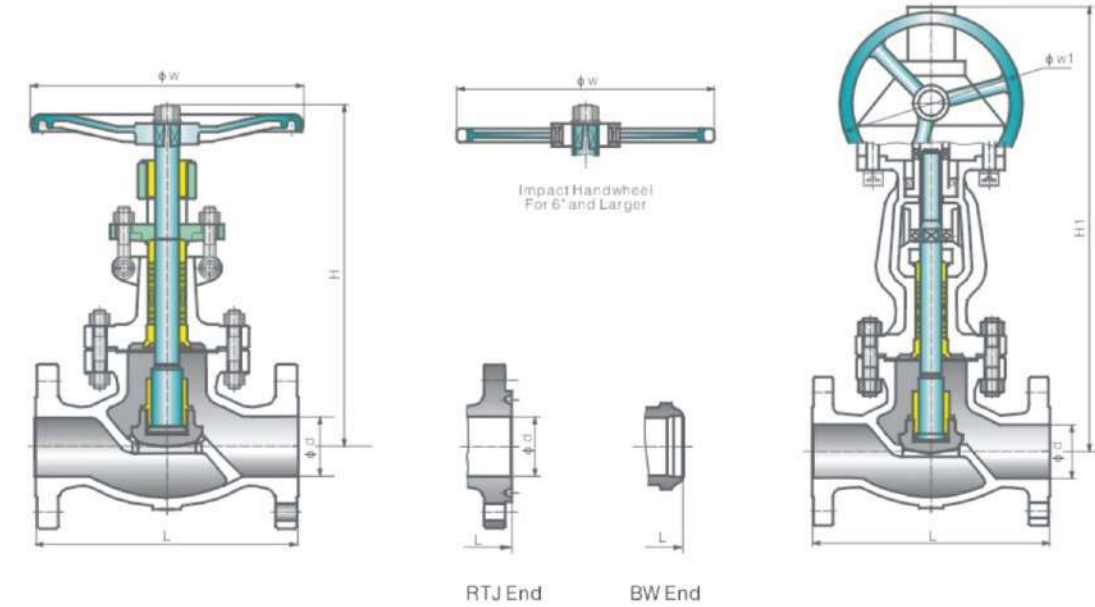
铸钢截止阀Class 150



主要外形尺寸及重量/Main Size of Outside&Weight

磅级 Class	尺寸 Size		尺寸 Dimensions (mm)								重量 Weight (Kg)	
	NPS	DN	L			d	H	H1	W	W1	H.W	G.O
			RF	RTJ	BW							
150	1/2	15	108	119	108	13	182	-	100	-	4	-
	3/4	20	117	130	117	19	193	-	100	-	6	-
	1	25	127	140	127	25	217	-	100	-	8	-
	1 1/4	32	140	152	140	32	235	-	135	-	12	-
	1 1/2	40	165	178	165	38	258	-	135	-	16	-
	2	50	203	216	203	51	330	-	200	-	25	-
	2 1/2	65	216	229	216	64	360	-	250	-	42	-
	3	80	241	254	241	76	390	-	280	-	46	-
	4	100	292	305	292	102	445	-	300	-	74	-
	5	125	356	369	356	127	480	-	350	-	111	-
	6	150	406	419	406	152	520	556	350	310	165	258
	8	200	495	508	495	203	600	658	400	310	275	300
	10	250	622	635	622	254	773	805	450	460	400	450
	12	300	698	711	698	305	880	955	500	460	624	725

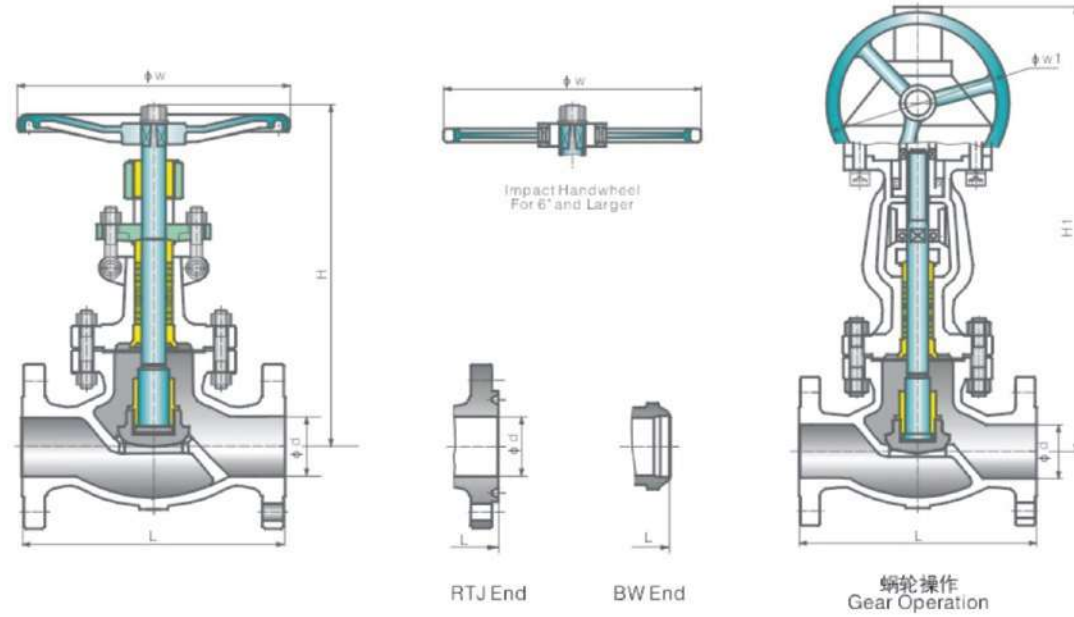
铸钢截止阀Class 300



主要外形尺寸及重量/Main Size of Outside&Weight

磅级 Class	尺寸 Size		尺寸 Dimensions (mm)								重量 Weight (Kg)	
	NPS	DN	L			d	H	H1	W	W1	H.W	G.O
			RF	RTJ	BW							
300	1/2	15	152	164	152	14	185	-	100	-	5	-
	3/4	20	178	191	178	19	195	-	100	-	7	-
	1	25	203	216	203	25	220	-	135	-	10	-
	1 1/4	32	216	229	216	32	240	-	135	-	14	-
	1 1/2	40	229	241	229	38	260	-	160	-	19	-
	2	50	267	283	267	51	385	-	200	-	25	-
	2 1/2	65	292	308	292	64	420	-	200	-	42	-
	3	80	318	333	318	76	440	-	280	-	46	-
	4	100	356	371	356	102	515	-	350	-	74	-
	5	125	400	416	400	127	580	-	350	-	111	-
	6	150	444	460	444	152	660	690	400	310	165	195
	8	200	559	575	559	203	900	950	550	460	275	327
	10	250	622	638	622	254	950	990	600	460	400	452
	12	300	711	727	711	305	1030	1080	700	460	624	725

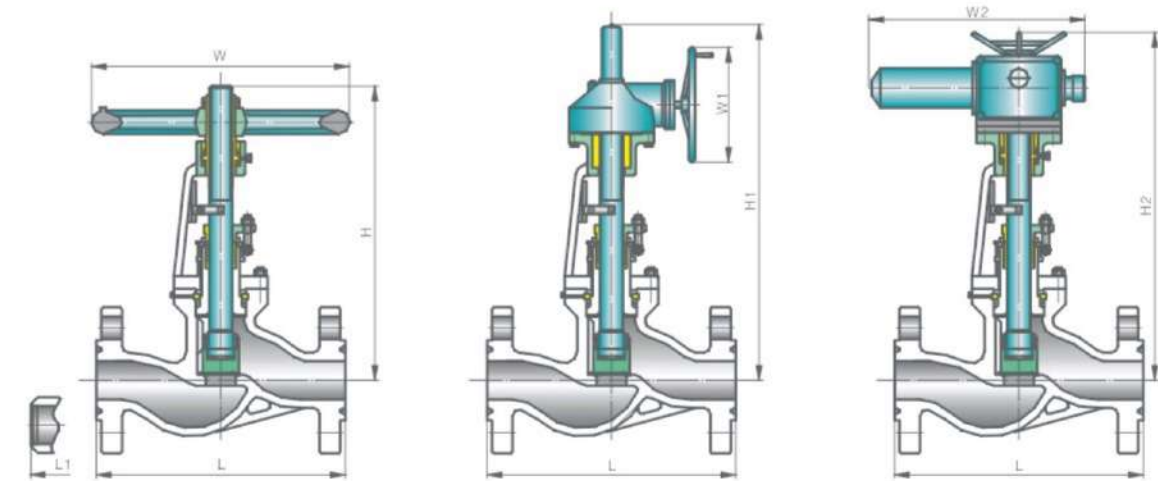
铸钢截止阀/Class 600 & Class 900



主要外形尺寸及重量/Main Size of Outside & Weight

磅级 Class	尺寸 Size		尺寸 Dimensions (mm)								重量 Weight (Kg)	
	NPS	DN	L			d	H	H1	W	W1	H.W	G.O
			RF	RTJ	BW							
600	2	50	292	295	292	51	360	-	250	-	32	-
	2 1/2	65	330	333	330	64	410	-	280	-	42	-
	3	80	356	359	356	76	465	-	300	-	63	-
	4	100	432	435	432	102	545	575	400	310	107	138
	5	125	508	511	508	127	625	660	500	310	185	215
	6	150	559	562	559	152	785	820	550	460	290	342
	8	200	660	664	660	200	930	960	650	460	540	645
900	2	50	368	371	368	51	480	-	350	-	55	-
	2 1/2	65	419	422	419	64	520	-	350	-	68	-
	3	80	381	384	381	76	564	630	400	310	95	128
	4	100	457	460	457	102	685	720	450	310	160	210
	5	125	559	562	559	127	780	840	550	460	270	325
	6	150	610	613	610	152	950	1015	650	460	410	480

铸钢截止阀/Class 900/1500/2500

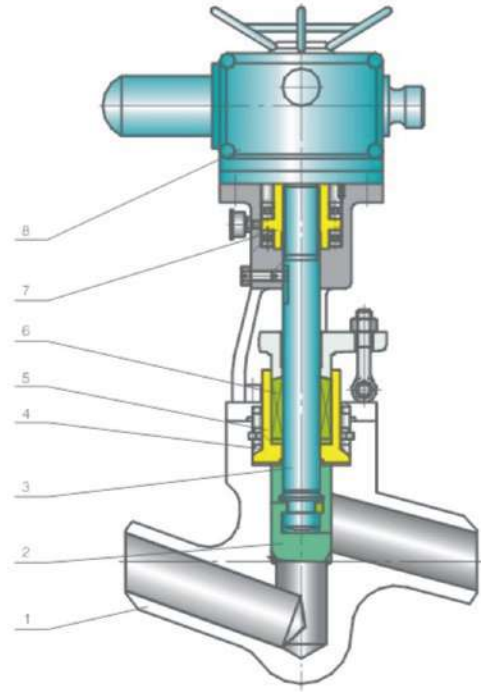


主要外形尺寸及重量/Main Size of Outside & Weight

磅级 Class	DN (mm)	NPS (in)	传动方式 Driving		手动 Hand operated			齿轮动 Gear operated				电动 Electric driving			
			法兰 Flanged	对焊 Butt-welded	H	W	重量 Weight (kg)	H1	W1	齿轮装置 Gear device	重量 Weight (kg)	H2	W2	转矩 Torque (NM)	重量 Weight (kg)
900	50	2	371	368	470	350	110	-	-	-	-	-	-	-	-
	65	2 1/2	422	419	560	400	130	-	-	-	-	-	-	-	-
	80	3	384	381	685	400	140	-	-	-	-	-	-	-	-
	100	4	460	457	830	500	230	880	460	BA-1	250	880	809	900	382
	150	6	613	610	-	-	-	1135	460	BA-1	500	1135	809	1200	635
	200	8	740	737	-	-	-	1495	610	BA-2	900	1495	863	1800	1155
	250	10	841	838	-	-	-	1960	610	BA-2	1200	1960	863	2000	1455
1500	50	2	371	368	535	400	130	-	-	-	-	-	-	-	-
	65	2 1/2	422	419	670	500	175	-	-	-	-	-	-	-	-
	80	3	473	470	838	500	245	-	-	-	-	-	-	-	-
	100	4	549	546	1193	560	350	990	460	BA-1	370	880	809	1200	505
	150	6	711	704	-	-	-	1280	610	BA-2	720	1135	863	1800	855
	200	8	841	831	-	-	-	1615	610	BA-2	1370	1495	863	2500	1628
	250	10	1000	990	-	-	-	2170	610	BA-2	1675	1960	863	2500	1933
2500	50	2	454	451	650	500	180	-	-	-	-	-	-	-	-
	65	2 1/2	514	508	840	560	250	-	-	-	-	-	-	-	-
	80	3	584	578	990	600	350	-	-	-	-	-	-	-	-
	100	4	683	673	1210	680	580	1090	610	BA-2	615	1090	863	1800	870
	150	6	927	814	-	-	-	1470	610	BA-2	990	1470	863	2500	1248
	200	8	1038	1022	-	-	-	1735	610	BA-2	1620	1735	960	3000	2050

注：对焊接阀门尺寸可根据用户要求选配。

Note: connect the valve size can be welded in accordance with user requirements matching.



设计标准

1. 设计标准: JB/T 3595、NB/T 47044
2. 结构长度: JB/T 2788、GB/T 15188.1
3. 对焊连接: JB/T 2788、GB/T 15188.1
4. 压力与温度: JB/T 3595、NB/T 47044
5. 试验和检验: JB/T 3595、NB/T 47044
6. 焊接坡口: JB/T 3595、NB/T 47044、ASME 16.25

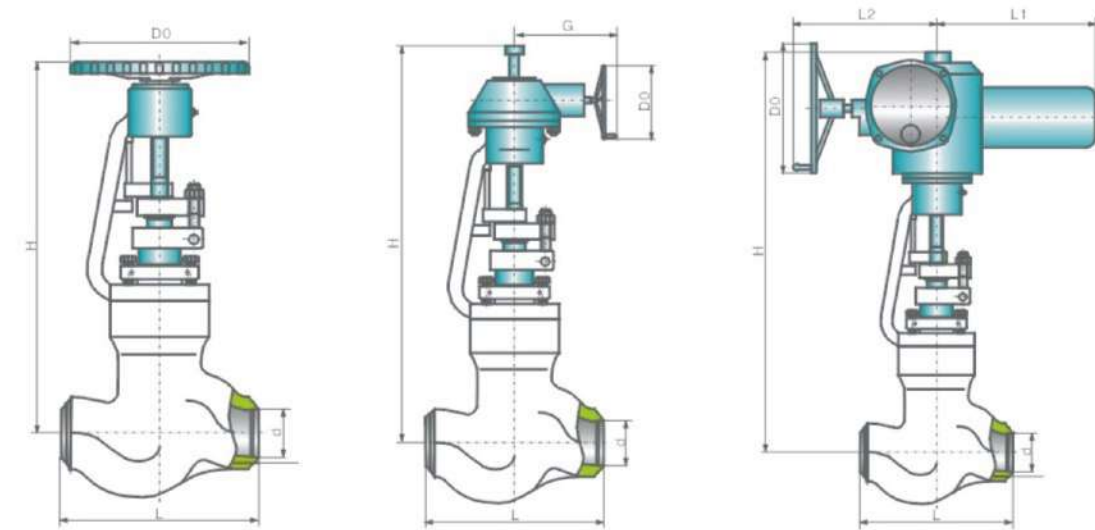
Design Construction

1. Design standard: JB/T 3595、NB/T 47044
2. Structural length: JB/T 2788、GB/T 15188.1
3. Welded connection: JB/T 2788、GB/T 15188.1
4. Pressure and temperature: JB/T 3595、NB/T 47044
5. Test & inspection: JB/T 3595、NB/T 47044
6. Weld the slope mouth: JB/T 3595、NB/T 47044、ASME 16.25

注: 阀门连接法兰及焊接坡口可根据用户要求设计制造。
Note: valve connecting flange and welded groove can be designed and made upon the user requirements.

主要零件材料/Major Parts Material Form

序号 No.	零件名称 Part name	材质 Material
1	阀体 Body	WCB、WC1、WC6、WC9、C12
2	阀瓣 Disc	A105、A182-F11、F22、F5、F9
3	阀杆 Stem	A182-F6a、A182-F22、A182-F11
4	密封圈 Sealing ring	柔性石墨 Graphite
5	阀盖 Bonnet	WCB、WC1、WC6、WC9、C12
6	填料 Packing	柔性石墨 Graphite
7	阀杆螺母 Valve stem nut	铜合金 Copper alloy
8	电动装置 Electronic device	组件 Package



主要外形尺寸及重量/Main Size of Outside & Weight

型号 Model: J61Y-1500Lb、J561Y-1500Lb、J961Y-1500Lb

NPS (in)	L	d	手动 Hand-operated			齿动 Geared driving			齿动装置 Geared driving	电动 Electric driving device			电动装置 Electric driving device
			H	D0	重量(kg) Weight	H	D0	重量(kg) Weight		H	D0	重量(kg) Weight	
3	390	64	848	510	150	-	-	-	-	1030	305	265	SMC-00
4	480	84	910	560	240	-	-	-	-	1070	305	384	SMC-0
5	580	100	1030	610	251	995	460	303	BA-1	1135	457	520	SMC-1
6	630	126	-	-	-	1360	460	680	BA-1	1681	305	804	SMC-1
8	770	158	-	-	-	1500	610	762	BA-2	1860	305	948	SMC-1

型号 Model: J61Y-2000Lb、J561Y-2000Lb、J961Y-2000Lb

2 1/2	420	50	815	510	160	-	-	-	-	975	305	340	SMC-0
3	470	60	895	560	200	-	-	-	-	1060	305	388	SMC-0
4	570	80	1024	700	280	1125	460	386	BA-1	1220	305	542	SMC-1
5	660	96	-	-	-	1370	610	460	BA-2	1425	457	646	SMC-2
6	760	118	-	-	-	1430	610	560	BA-2	1480	457	780	SMC-2

型号 Model: J61Y-2500Lb、J561Y-2500Lb、J961Y-2500Lb

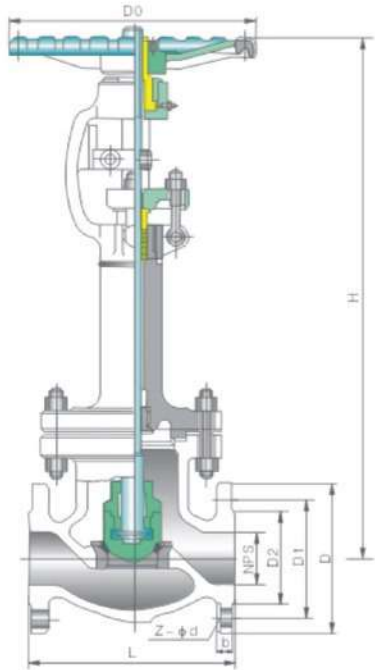
2 1/2	420	46	857	510	250	-	-	-	-	975	305	390	SMC-0
3	470	54	940	560	290	-	-	-	-	1065	305	430	SMC-0
4	570	70	1085	700	325	1125	460	406	BA-1	1220	305	700	SMC-1
5	660	88	-	-	-	1370	610	505	BA-2	1425	457	772	SMC-2
6	760	104	-	-	-	1430	610	605	BA-2	1480	457	872	SMC-2

型号 Model: J61Y-3500Lb、J561Y-3500Lb、J961Y-3500Lb

2 1/2	480	38	890	460	235	-	-	-	-	945	305	342	SMC-00
3	640	48	1030	560	425	1055	310	458	BA-0	1150	305	565	SMC-0
4	762	60	-	-	-	1264	460	641	BA-1	1366	305	810	SMC-0
5	864	74	-	-	-	1435	460	903	BA-1	1530	457	920	SMC-2
6	965	88	-	-	-	1600	760	1050	BA-3	1725	610	1100	SMC-3

产品性能规范/Products Performance Specification

公称压力PN Nominal Pressure	1.6	2.5	4.0
强度试验 Shell Test	2.4	3.8	6.0
水密封试验 Water Seal Test	1.8	2.8	4.4
上密封试验 Back Seat Test	1.8	2.8	4.4
气密封试验 Air Seal Test		0.4-0.7	



设计标准

- 1.设计与制造: BS 1873、GB/T 24925
- 2.结构长度: ASME B16.10
- 3.法兰尺寸: ASME B16.5
- 4.压力温度: ASME B16.34
- 5.试验和检验: API 598、GB/T 24925

Design Construction

1. Design and manufacture: BS 1873、GB/T 24925
2. Face to face: ASME B16.10
3. Flange dimension: ASME B16.5
4. Pressure temperature rating: ASME B16.34
5. Inspection and test: API 598、GB/T 24925

主要零件材料/Major Parts Material Form

体 盖 板 Body cover disc	阀杆 Stem	密封面 Sealing face	垫片 Shim	填料 Packing	工作温度℃ Working temperature	适用介质 Suitable medium	
LCB	1Cr17Ni12	STL/STL	1Cr13/柔性石墨 低温石棉	PTFE	-46	丙烷/丙烯 甲醇/乙醇 煤气/液氨 Propane Propylene Methanol Ethanol Coal-gas Liquid Ammonia	
LC1				浸聚四氟乙 烯石棉绳	-60		
LC2				柔性石墨	-73		
LC3	1Cr18Ni9Ti		Asbe Stos String With	-101			
LC4				PTFE Soaked	-115		
CF8				Fletible Graphite	-196		

主要外形尺寸及重量/Main Size of Outside & Weight

产品型号 Type	NPS	DN	Class 150Lb/300Lb/600Lb						D0	H			WT (Kg)
	in	mm	L	D	D1	D2	b	Z-φd		-46℃	-101℃	-196℃	
DJ41Y-150Lb	2"	50	203	152	120.5	92	16	4-φ19	224	460	480	520	15
	3"	80	241	190	152.5	127	19	4-φ19	250	520	550	590	28
	4"	100	292	229	190.5	157	24	8-φ19	350	545	575	615	32
	5"	125	356	254	216	186	24	8-φ22	350	590	620	660	88
	6"	150	406	279	241.5	216	26	8-φ22	355	650	680	730	96
	8"	200	495	343	298.6	270	29	8-φ22	400	850	880	930	155
	10"	250	611	406	362	324	31	12-φ25	500	956	986	1036	425
	12"	300	698	483	432	381	32	12-φ25	560	1095	1125	1175	641
DJ41Y-300Lb	2"	50	267	165	127	92	23	8-φ19	224	460	480	520	16
	3"	80	318	210	168.5	127	29	8-φ22	300	520	550	590	29
	4"	100	356	254	200	157	32	8-φ22	355	545	575	615	32
	5"	125	400	279	235	186	35	8-φ22	355	590	620	660	90
	6"	150	444	318	270	216	37	12-φ22	450	650	680	730	98
	8"	200	559	381	330	270	42	12-φ25	560	850	880	930	159
	10"	250	622	445	387.5	324	48	16-φ29	560	956	986	1036	436
	12"	300	711	521	451	381	51	16-φ32	630	1095	1125	1175	657
DJ41Y-600Lb	2"	50	292	165	127	92	26	8-φ19	250	483	504	546	16
	3"	80	356	210	168	127	32	8-φ22	400	546	578	620	30
	4"	100	432	273	216	157	38	8-φ25	400	572	604	646	33
	5"	125	508	330	266.5	186	45	8-φ29	400	620	651	693	93
	6"	150	559	356	292	216	48	12-φ29	560	683	741	767	100
	8"	200	660	419	349	270	56	12-φ32	630	893	924	977	163
	10"	250	787	508	432	324	64	16-φ35	630	1004	1035	1088	447
	12"	300	838	559	489	381	67	20-φ35	700	1150	1181	1234	673

设计标准

1. 结构形式: 栓接阀盖明杆支架结构(压力密封)
2. 驱动方式: 手动
3. 设计标准: API 602
4. 结构长度: ASME B16.10
5. 连接法兰: ASME B16.5
6. 试验和检验: API 598

注: 阀门连接法兰及对焊端尺寸可根据用户要求设计制造。

Design Construction

1. Structural formation: Bolt-jointed bonnet outside stem yoke structure (Pressure sealed)
2. Driving manner: Hand-operated
3. Design standard: API 602
4. Face to face: ASME B16.10
5. Flanged ends: ASME B16.5
6. Test & inspection: API 598

Notes: The sizes of valve connecting flange and butt-welding terminas can be designed according to customer's requirement.

主要零件材料/Major Parts Material Form

序号 No.	零件名称 Part name	材质 Material
1	法兰 Flange	ASTM A105, ASTM A182-F11, F22, F5, F9 ASTM A182-F304, F316, F321, F304L, F316L
2	阀体 Body	ASTM A105, ASTM A182-F11, F22, F5, F9 ASTM A182-F304, F316, F321, F304L, F316L
3	阀瓣 Disc	ASTM A105, ASTM A182-F11, F22, F5, F9 ASTM A182-F304, F316, F321, F304L, F316L
4	阀杆 Stem	ASTM A182 Gr.F6a, ASTM A182 F22 ASTM A182-F304, F316, F321, F304L, F316L
5	垫片 Gasket	柔性石墨+不锈钢 Graphite & stainless steel
6	阀盖 Bonnet	ASTM A105, ASTM A182-F11, F22, F5, F9 ASTM A182-F304, F316, F321, F304L, F316L
7	螺栓 Bolt	ASTM A193-B7, A320-B8, A193-B8M
8	填料 Packing	柔性石墨 Graphite
9	填料压套 Stuffing cover	ASTM A105, ASTM A182-F11, F22, F5, F9 ASTM A182-F304, F316, F321, F304L, F316L
10	填料压盖 Gland	ASTM A216-WCB ASTM A351-CF8, CF8M, CF8C, CF3, CF3M
11	阀杆螺母 Valve stem nut	铜合金 Copper alloy
12	手轮 Handwheel	ASTM A47-32510

主要外形尺寸及重量/Main Size of Outside & Weight

Class	DN (mm)	NPS (in)	150				300				600			
			尺寸 Dimensions(mm)				尺寸 Dimensions(mm)				尺寸 Dimensions(mm)			
			L(RF)	L(RTJ)	H ¹	W	L(RF)	L(RTJ)	H ¹	W	L(RF)	L(RTJ)	H ¹	W
	15	1/2	108	119	170	100	152.5	163.5	170	100	165	163.5	170	100
	20	3/4	117	130	170	100	178	191	170	100	190.5	190.5	170	100
	25	1	127	140	205	125	203	216	205	125	216	216	205	125
	32	1 1/4	140	153	225	160	216	229	225	160	229	229	225	160
	40	1 1/2	165	178	254	160	228.5	241	254	160	241	241	254	160
	50	2	203	216	292	180	266.5	282	292	180	292	295	292	180

注: ①H为阀门全开时的高度。
Notes: H represents the height in full opening condition of valve.

设计标准

1. 结构形式: 栓接阀盖明杆支架结构(压力密封)
2. 驱动方式: 手动
3. 设计标准: API 602
4. 结构长度: ASME B1.20.1
5. 连接法兰: ASME B16.11
6. 试验和检验: API 598

注: 阀门连接法兰及对焊端尺寸可根据用户要求设计制造。

Design Construction

1. Structural formation: Bolt-jointed bonnet outside stem yoke structure (Pressure sealed)
2. Driving manner: Hand-operated
3. Design standard: API 602
4. Face to face: ASME B1.20.1
5. Flanged ends: ASME B16.11
6. Test & inspection: API 598

Notes: The sizes of valve connecting flange and butt-welding terminas can be designed according to customer's requirement.

主要零件材料/Major Parts Material Form

序号 No.	零件名称 Part name	材质 Material
1	阀体 Body	ASTM A105, ASTM A182-F11, F22, F5, F9 ASTM A182-F304, F316, F321, F304L, F316L
2	阀瓣 Disc	ASTM A105, ASTM A182-F11, F22, F5, F9 ASTM A182-F304, F316, F321, F304L, F316L
3	阀杆 Stem	ASTM A182 Gr.F6a, ASTM A182 F22 ASTM A182-F304, F316, F321, F304L, F316L
4	垫片 Gasket	柔性石墨+不锈钢 Graphite & stainless steel
5	阀盖 Bonnet	ASTM A105, ASTM A182-F11, F22, F5, F9 ASTM A182-F304, F316, F321, F304L, F316L
6	螺栓 Bolt	ASTM A193-B7, A320-B8, A193-B8M
7	填料 Packing	柔性石墨 Graphite
8	填料压套 Stuffing cover	ASTM A105, ASTM A182-F11, F22, F5, F9 ASTM A182-F304, F316, F321, F304L, F316L
9	填料压盖 Gland	ASTM A216-WCB ASTM A351-CF8, CF8M, CF8C, CF3, CF3M
10	阀杆螺母 Valve stem nut	铜合金 Copper alloy
11	手轮 Handwheel	ASTM A47-32510

主要外形尺寸及重量/Main Size of Outside & Weight

Class		DN (mm)		NPS (in)		900				1500				2500			
						尺寸 Dimensions(mm)				尺寸 Dimensions(mm)				尺寸 Dimensions(mm)			
						L	H ¹	W	重量 Weight (kg)	L	H ¹	W	重量 Weight (kg)	L	H ¹	W	重量 Weight (kg)
		15	10	1/2	3/8	80	170	100	1.9	111	205	125	4.5	111	190	125	4.5
		20	15	3/4	1/2	92	170	100	2.1	111	205	125	4.3	127	225	140	5.5
		25	20	1	3/4	111	205	125	3.2	130	240	160	6.8	127	246	160	8.0
		32	25	1 1/4	1	120	225	160	6.9	150	258	160	8.5	180	287	160	13.2
		40	32	1 1/2	1 1/4	120	254	160	6.9	172	290	160	12.6	180	290	180	12.8
		50	40	2	1 1/2	140	292	180	10.4	220	336	180	19.2	210	362	200	19.8
			50		2	178	330	240	15.8	230	428	234	30	230	420	240	30

注: ①H为阀门全开时的高度。
Notes: H represents the height in full opening condition of valve.

国标截止阀的主要结构特征/Design characteristics of GB Globe Valve

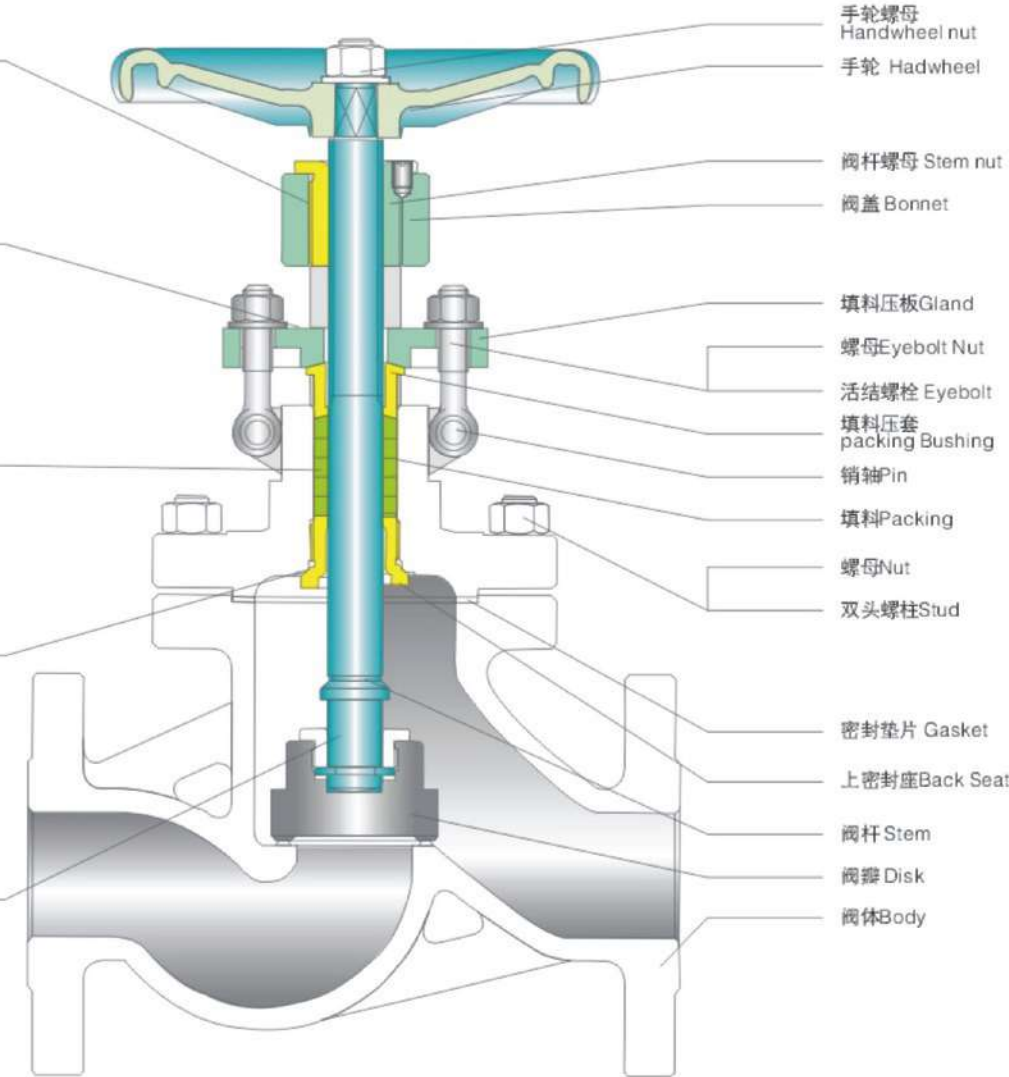
阀杆螺母采用铝青铜材料，大规格的阀门采用推力轴承的设计，使得阀门开启轻便灵活。
Stem nut uses aluminum bronze material. Large valve is provided with thrust bearing to make it opened easily and flexibly.

填料压盖为两体式设计，可避免因压扁而引起的阀杆卡阻。
Two-piece design of packing gland to avoid stem clogging caused by squishing.

填料采用柔性石墨材料，密封性能可靠。用户有要求时可提供填料隔环和注油脂结构。
Packing uses flexible graphite for dependable sealing performance. If requested by users, packing spacer ring and greasing mechanism can be available.

阀门上密封的设计，全开时可保证填料，密封可靠。（不推荐带压更换填料）
Upper seal design to ensure dependable packing and sealing when valve is fully opened. (Replacement of packing under pressure is not recommended).

升降式阀杆，阀杆头部与阀瓣接触处，镶嵌了一块硬质不锈钢材料，使该处不至于因挤压而变形或因锈蚀而影响阀瓣动作的灵活性。
Lift stem, with a piece of hard stainless steel inlaid between stem head and disc to avoid deformation caused by extrusion, and corrosion leading to inflexibility of disc action.



主要零件材料/Major Parts Material Form

序号No.	零件名称 Part name	材质 Material
1	阀体 Body	WCB, WC1, WC6, WC9, C5, CF8, CF8M, CF8C, CF3, CF3M
2	阀瓣 Disc	25, 1Cr13, 2Cr13, 1Cr18Ni9Ti, 0Cr18Ni12Mo2Ti, 20Cr1Mo1V, 25Cr2MoV
3	阀杆 Stem	1Cr13, 2Cr13, 1Cr18Ni9, 0Cr18Ni12Mo2Ti, 20Cr1Mo1V, 25Cr2MoV
4	阀瓣盖 Flat cover	25, 1Cr13, 2Cr13, 1Cr18Ni9Ti, 0Cr18Ni12Mo2Ti, 20Cr1Mo1V, 25Cr2MoV
5	垫片 Gasket	柔性石墨+不锈钢 Graphite & stainless steel
6	阀盖 Bonnet	WCB, WC1, WC6, WC9, C5, CF8, CF8M, CF8C, CF3, CF3M
7	双头螺柱 Stud	35CrMoA, 0Cr18Ni9, 0Cr17Ni12Mo2, 25Cr2MoV
8	六角螺母 Nut	45, 35CrMoA, 0Cr18Ni9, 0Cr17Ni12Mo2, 25Cr2MoV
9	填料 Packing	柔性石墨 Graphite
10	填料压套 Packing press-sleeve	1Cr13, 2Cr13, 1Cr18Ni9, 0Cr18Ni12Mo2Ti
11	填料压盖 Packing gland	WCB, CF8, CF8M, CF8C, CF3, CF3M
12	阀杆螺母 Valve stem nut	铜合金 Copper alloy
13	手轮 Handwheel	ASTM A47-32510

产品结构特点

截止阀适用于公称压力PN1.6~16.0MPa，工作温度≤600℃的石油、化工、制药、化肥、电力行业等各种工况的管路上，切断或接通管路介质。

其主要结构特点有：

1. 产品结构合理、密封可靠、性能优良、造型美观。
2. 密封面堆焊Co基硬质合金，耐磨、耐蚀、抗擦伤性能好，使用寿命长。
3. 阀杆经调质及表面氮化处理，有良好的抗腐蚀性及抗擦伤性。
4. 公称压力≥25.0MPa(Class1500)中腔采用自紧密封式结构，密封性能随压力升高而增强，保证了密封性能。
5. 阀门设有倒密封结构，密封可靠。
6. 零件材质及法兰、对焊端尺寸可根据实际工况或用户要求合理选配，满足各种工程需要。

设计标准

1. 结构形式：栓接阀盖明杆支架结构
 2. 驱动方式：手动、电动
 3. 设计标准：GB/T 12235、DIN3356
 4. 结构长度：GB/T 12221、EN558-1
 5. 连接法兰：GB/T 9113、JB/T 79、HG20592、EN1092-1
 6. 试验和检验：JB/T 9092、ISO5208
- 注：阀门连接法兰及对焊端尺寸可根据用户要求设计制造。

Products Design Features

Globe valve are used to cut or connect the pipe media under nominal pressure between PN1.6~16.0MPa(Class150~2500), working temperatures ≤600℃. in oil industry, chemical industry, pharmaceuticals, fertilizer, and power industry.

The main structure features include:

1. Rational structure, reliable sealing, excellent performance, pretty appearance.
2. Co-radi alloy welded sealing surface, anti-wearing, erosion-proof abrasion-proof and longer use life.
3. The surface and the adjusting media of the valve shaft are nitrogenized so that it is erosion and abrasion resistant.
4. PN≥25.0MPa (class1500), the middle cavity uses a self-tightening sealing structure to have the sealing performance reinforced along with the pressure rise so as to ensure the sealing performance.
5. There is no backward sealing structure in the valve, so the sealing id reliable.
6. The material of the filling and the flange size can be chosen and matched according to the applications and the requirements of the use's. That can satisfies all kinds of working requirements.

Design Construction

1. Structural formation: Bolt-jointed bonnet outside stem yoke structure
 2. Driving manner: Hand-operated, Electric-driving
 3. Design standard: GB/T 12235、DIN3356
 4. Face to face: GB/T 12221、EN558-1
 5. Flanged ends: GB/T 9113、JB/T 79、HG20592、EN1092-1
 6. Test & inspection: JB/T 9092、ISO5208
- Note: The sizes of valve connecting flange and butt-welding terminas can be designed according to customer's requirement.

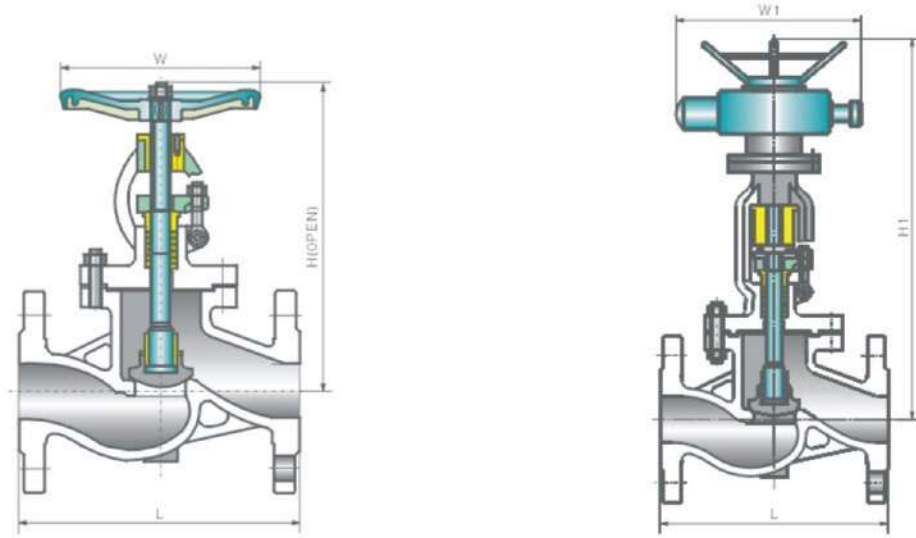
产品主要参数/Main parameter of the products

压力等级范围 Pressure grade range	PN1.6~42.0MPa		
通径范围 Drift diameter range	DN15~DN400(1/2"~16")		
驱动方式 Driving manner	手轮驱动 Hand wheel driving		齿轮驱动、电动 Gear driving and electric driving
适用范围 Scope of application	PN1.6~2.5 (Class150~300)	PN6.4~16.0 (Class400~900)	(1/2"~16") DN15~DN400
	1/2"~12" DN15~DN300	1/2"~16" DN15~DN400	

产品性能规范/Products performance specification

压力等级 Pressure		常温试验压力(MPa) Testing pressure at constant temperature (Mpa)			适用温度 Applicable temperature	适用介质 Applicable medium
		壳体试验 The shell testing	密封试验 Seal and test	上密封试验 Have and seal testing		
公称压力 (MPa) Nominal rating pressure (PN)	1.6	2.4	1.76	1.76	-196~600℃	水、油品、蒸汽等 Water, oil, steam, etc.
	2.5	3.75	2.75	2.75		
	4.0	6.0	4.4	4.4		
	6.4	9.6	7.04	7.04		
	10.0	15.0	11.0	11.0		
	16.0	24.0	17.6	17.6		
磅级(Lb) Pound grade (Class)	25.0	37.5	27.5	27.5		
	150	3.0	2.2	2.2		
	300	7.5	5.5	5.5		
	600	15.0	11.0	11.0		
	900	22.5	16.5	16.5		
	1500	37.5	27.5	27.5		
	2500	63.0	46.2	46.2		

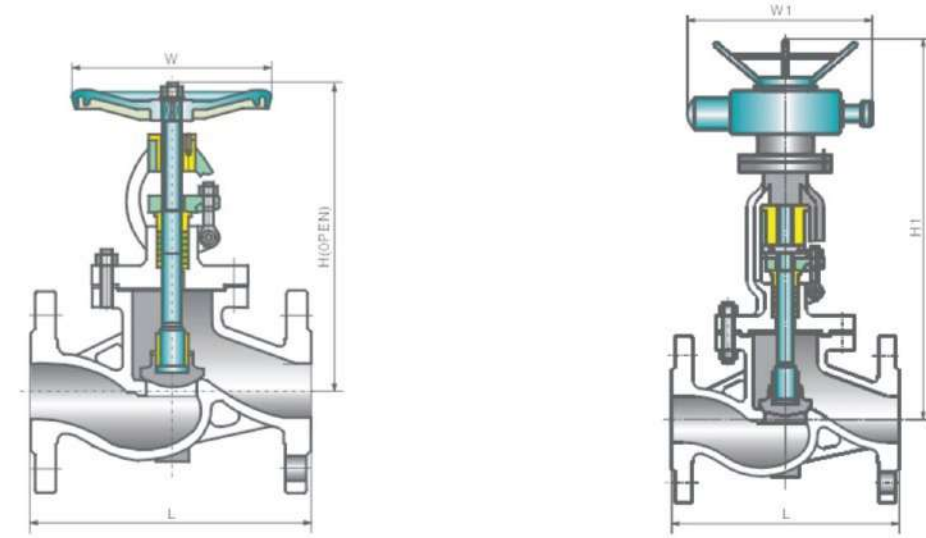
GB铸钢截止阀PN1.6/PN2.5



主要外形尺寸及重量/Main Size of Outside & Weight

传动方式 Driving			手动 Hand operated			电动 Electric driving			
PN (MPa)	DN (mm)	L	H	W	重量 Weight (kg)	H1	W1	电动装置 Electric driving	重量 Weight (kg)
1.6	15	130	218	120	5.3	-	-	-	-
	20	150	260	140	7.2	-	-	-	-
	25	160	275	160	7.5	-	-	-	-
	32	180	282	180	8.7	-	-	-	-
	40	200	332	200	12.4	-	-	-	-
	50	230	350	240	14	642	960	DZW10A	50
	65	290	405	280	22.5	695	960	DZW10A	62
	80	310	360	280	29.5	712	960	DZW10A	65
	100	350	412	320	34	772	960	DZW15A	73
	125	400	462	360	80	785	960	DZW20A	120
	150	480	510	400	95	812	960	DZW30A	212
	200	600	715	400	178	965	1325	DZW45A	325
	250	650	789	450	438	1138	1325	DZW60A	552
	300	750	925	500	650	1285	1370	DZW90	783
2.5	15	130	218	120	5.5	-	-	-	-
	20	150	260	140	7.4	-	-	-	-
	25	160	275	160	7.8	-	-	-	-
	32	180	282	180	8.7	-	-	-	-
	40	200	332	200	12.4	-	-	-	-
	50	230	350	240	15	642	960	DZW10A	52
	65	290	405	280	24.5	695	960	DZW10A	63
	80	310	360	280	31	712	960	DZW15A	68
	100	350	412	320	36	772	960	DZW20A	75
	125	400	462	360	88	785	960	DZW30A	122
	150	480	510	400	98	812	1325	DZW45A	215
	200	600	715	400	183	965	1325	DZW60A	327
	250	650	789	450	443	1138	1370	DZW90	555
	300	750	925	500	654	1285	1370	DZW120	786

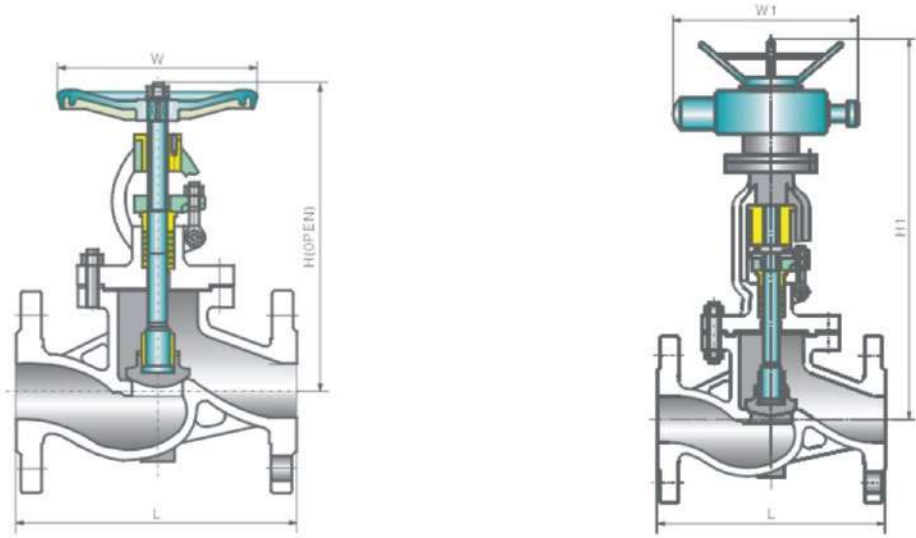
GB铸钢截止阀PN4.0/PN6.4



主要外形尺寸及重量/Main Size of Outside & Weight

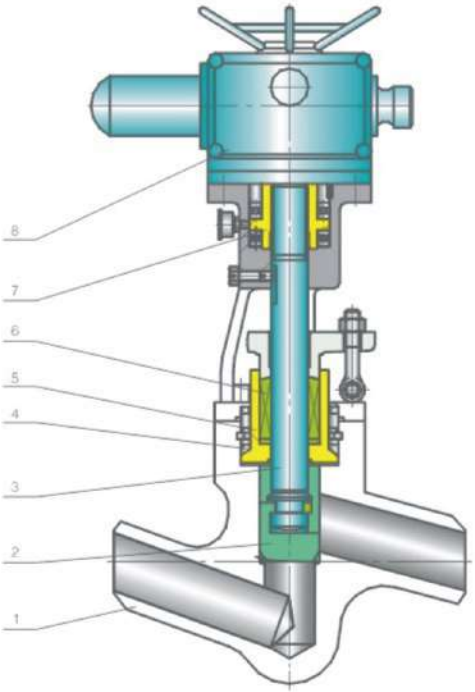
传动方式 Driving			手动 Hand operated			电动 Electric driving			
PN (MPa)	DN (mm)	L	H	W	重量 Weight (kg)	H1	W1	电动装置 Electric driving	重量 Weight (kg)
4.0	15	130	235	120	5.9	-	-	-	-
	20	150	278	140	7.5	-	-	-	-
	25	160	288	160	8.0	-	-	-	-
	32	180	305	180	8.9	-	-	-	-
	40	200	358	200	12.5	-	-	-	-
	50	230	378	240	15.2	642	960	DZW10A	61
	65	290	408	280	24.6	695	960	DZW10A	78
	80	310	435	320	32	712	960	DZW20A	85
	100	350	482	360	40	772	960	DZW30A	105
	125	400	555	400	90	785	1325	DZW45A	205
	150	480	613	400	105	812	1325	DZW60A	228
	200	600	725	400	189	965	1370	DZW90	400
6.4	15	170	218	140	10.2	-	-	-	-
	20	190	260	160	13.5	-	-	-	-
	25	210	275	180	15	-	-	-	-
	32	230	325	200	20	-	-	-	-
	40	260	360	240	25	-	-	-	-
	50	300	410	280	36	710	960	DZW10A	65
	65	340	450	320	47	752	960	DZW15A	78
	80	380	485	360	55	785	960	DZW30A	85
	100	430	535	400	123	835	1325	DZW45A	173
	125	500	630	400	130	1030	1325	DZW60A	245
	150	556	650	450	155	1065	1370	DZW90	300
	200	650	810	500	285	1215	1370	DZW120	420

GB铸钢截止阀PN10.0/PN16.0



主要外形尺寸及重量/Main Size of Outside & Weight

传动方式 Driving			手动 Hand operated			电动 Electric driving			
PN (MPa)	DN (mm)	L	H	W	重量 Weight (kg)	H1	W1	电动装置 Electric driving	重量 Weight (kg)
10.0	15	170	220	120	10.5	-	-	-	-
	20	190	260	140	14	-	-	-	-
	25	210	275	160	15.5	-	-	-	-
	32	230	325	180	21	-	-	-	-
	40	260	360	200	26.5	-	-	-	-
	50	300	415	240	27	715	960	DZW20A	82
	65	340	455	280	49	760	960	DZW30A	105
	80	380	485	280	56	788	1325	DZW45A	178
	100	430	538	320	125	840	1325	DZW60A	195
	125	500	635	360	134	1032	1370	DZW90	288
16.0	150	550	650	400	158	1072	1370	DZW120	450
	200	650	812	400	288	1220	1395	DZW180	855
	15	170	220	140	12.5	-	-	-	-
	20	190	262	160	15.5	-	-	-	-
	25	210	275	180	18	-	-	-	-
	32	230	326	200	22	-	-	-	-
	40	260	362	240	35	-	-	-	-
	50	300	417	250	53	745	960	DZW30A	95
	65	340	455	320	72	825	1325	DZW45A	165
	80	380	485	400	101	940	1370	DZW90	220
	100	430	540	450	120	1152	1370	DZW120	240
	125	500	-	-	-	1185	1435	DZW180	500
	150	550	-	-	-	1230	1435	DZW250	678
	200	650	-	-	-	1500	1785	DZW350	1125



设计标准

1. 设计标准: NB/T 47044
2. 结构长度: NB/T 47044
3. 对焊连接: NB/T 47044
4. 压力与温度: NB/T 47044
5. 试验和检验: NB/T 47044
6. 焊接坡口: NB/T 47044

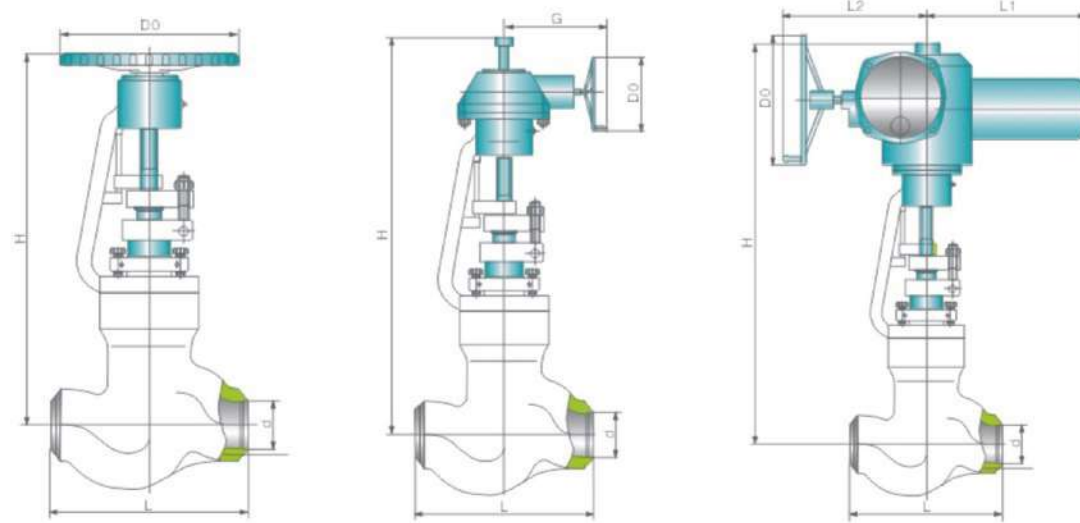
Design Construction

1. Design standard: NB/T 47044
2. Structural length: NB/T 47044
3. Welded connection: NB/T 47044
4. Pressure and temperature: NB/T 47044
5. Test & inspection: NB/T 47044
6. Weld the slope mouth: NB/T 47044

注: 阀门连接法兰及焊接坡口可根据用户要求设计制造。
Note: valve connecting flange and welded groove can be designed and made upon the user requirements.

主要零件材料/Major Parts Material Form

序号 No.	零件名称 Part name	材 质 Material
1	阀体 Body	WCB、WC1、WC6、WC9、C12、15Cr1Mo1V、12Cr1MoV、20CrMoV
2	阀瓣 Disc	A105、A182-F11、F22、F5、F9
3	阀杆 Stem	A182-F6a、A182-F22、A182-F11
4	密封圈 Sealing ring	柔性石墨 Graphite
5	阀盖 Bonnet	WCB、WC1、WC6、WC9、C12、15Cr1Mo1V、12Cr1MoV、20CrMoV
6	填料 Packing	柔性石墨 Graphite
7	阀杆螺母 Valve stem nut	铜合金 Copper alloy
8	电动装置 Electronic device	组件 Package



主要外形尺寸及重量/Main Size of Outside & Weight

型号 Model: J61Y-250、J961Y-250

DN(mm)	L	d	手动 Hand-operated			电动 Electric driving device			电动装置 Electric driving device
			H	D0	重量(kg)Weight	H	D0	重量(kg)Weight	
10	120	10	210	160	8	-	-	-	-
20	170	19	272	180	10	600	250	72.5	DZW10
25	1780	22	308	240	11.2	590	250	73	DZW10
32	170	26	308	240	11.8	600	250	73.5	DZW10
40	250	36	493	320	36.3	-	-	-	-
50	250	42	493	320	36.3	736	250	85	DZW30
65	340	56	775	460	120	1060	450	188	DZW45
80	390	64	848	510	150	1280	560	275	DZW90
100	480	84	910	560	240	1290	560	310	DZW90

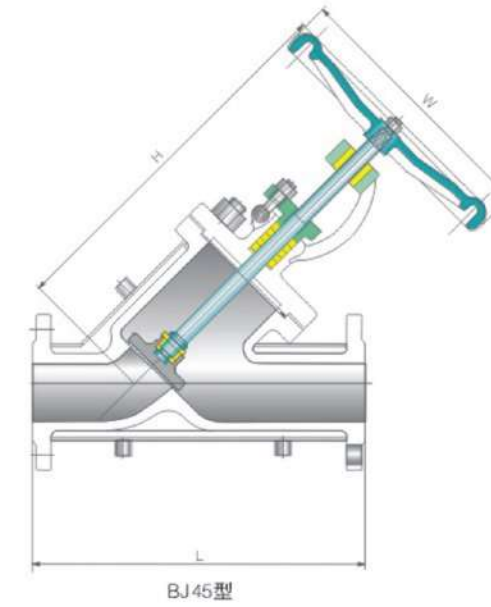
型号 Model: J61Y-320、J961Y-320

DN(mm)	L	d	手动 Hand-operated			电动 Electric driving device			电动装置 Electric driving device
			H	D0	重量(kg)Weight	H	D0	重量(kg)Weight	
10	120	10	210	160	8	-	-	-	-
20	170	19	272	180	10	600	250	72.5	DZW10
25	170	22	308	240	11.2	590	250	73	DZW10
32	170	26	308	240	11.8	600	250	73.5	DZW10
40	250	36	493	320	36.3	-	-	-	-
50	250	42	493	320	36.3	736	250	85	DZW30
65	470	60	895	560	200	1140	560	190	DZW90
80	570	80	4085	700	280	1350	560	460	DZW120
100	660	96	1045	700	340	1500	600	610	DZW180

型号 Model: J61Y-P54170V、J961Y-P54170V

DN(mm)	L	d	手动 Hand-operated			电动 Electric driving device			电动装置 Electric driving device
			H	D0	重量(kg)Weight	H	D0	重量(kg)Weight	
10	120	10	210	160	8	-	-	-	-
20	170	19	272	180	10	600	250	72.5	DZW10
25	170	22	308	240	11.2	590	250	73	DZW10
32	170	26	308	240	11.8	600	250	73.5	DZW10
40	250	36	493	320	36.3	-	-	-	-
50	250	42	493	320	36.3	736	250	85	DZW30
65	762	60	895	610	500	1543	560	785	DZW90
80	864	80	1315	900	750	1790	560	1089	DZW120
100	965	88	1475	900	1000	1891	600	1451	DZW180

夹套保温截止阀PN1.6/2.5/4.0



设计标准

1. 设计制造: GB12235
2. 结构长度: GB12221
3. 法兰尺寸: JB/T79、HG/T 20592
4. 检查和试验: GB13927

Design Construction

1. Design manufacture according:GB12235
2. Face to face according:GB12221
3. Flange dimension according:JB/T79、HG/T 20592
4. Test & inspection:Gb13927

结构/Structure

B.B; OS&Y
Characteristic:B.B; OS&Y

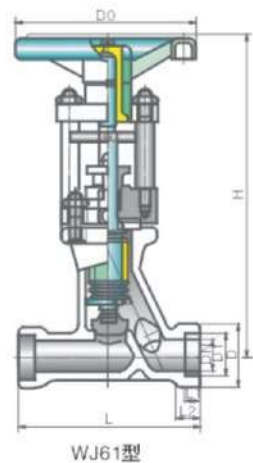
主要零件材料/Major Parts Material Form

零件名称 Item	ZG1Cr18Ni9Ti系列	ZG00Cr18Ni10系列	ZG1Cr18Ni12MO2Ti系列	ZG00Cr17Ni14MO2系列	WCB系列
阀体/阀盖 Body/cap	ZG1Cr18Ni9Ti	ZG00Cr18Ni10	ZG1Cr18Ni12MO2Ti	ZG00Cr17Ni14MO2	WCB
阀瓣 Disc	1Cr18Ni9Ti	00Cr18Ni10	1Cr18Ni12MO2Ti	00Cr17Ni14MO2	1Cr13
阀杆 Stem	1Cr18Ni9Ti	00Cr18Ni10	1Cr18Ni12MO2Ti	00Cr17Ni14MO2	1Cr13
填料 Packing	PTFE编织	PTFE编织	PTFE编织	PTFE编织	石墨 Graphite
垫片 Gasket	304+PTFE	304L+PTFE	316+PTFE	316L+PTFE	石墨+304 Graphite+304
压盖 Gland flange	ZG1Cr18Ni9Ti	ZG00Cr18Ni10	ZG1Cr18Ni12MO2Ti	ZG00Cr17Ni14MO2	WCB
填料压环 Stuffing ring	1Cr18Ni9Ti	00Cr18Ni10	1Cr18Ni12MO2Ti	00Cr17Ni14MO2	1Cr13
螺栓 Bolt	1Cr17Ni2	1Cr17Ni2	1Cr17Ni2	1Cr17Ni2	35CrMoA
螺母 Nut	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni9Ti	45

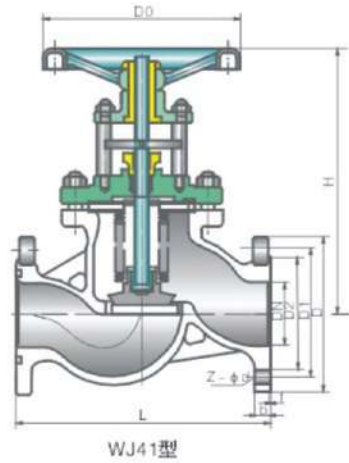
主要外形尺寸及重量/Main Size of Outside & Weight

	尺寸 Dimension	DN	15	20	25	32	40	50	65	80	100	125	150
1.6	L	mm	170	190	210	230	260	300	340	380	430	490	550
	H	mm	250	292	340	348	360	410	440	540	560	625	720
	W	mm	120	140	160	160	160	240	240	280	320	360	360

	尺寸 Dimension	DN	15	20	25	32	40	50	65	80	100	125	150
2.5 4.0	L	mm	170	190	210	230	260	300	340	380	430	490	550
	H	mm	250	292	340	348	360	410	440	548	560	625	720
	W	mm	120	140	160	160	160	240	240	280	320	360	360



WJ61型



WJ41型

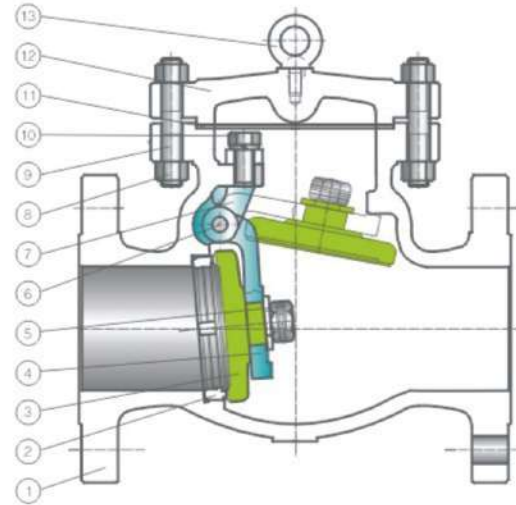
主要外形尺寸及重量/Main Size of Outside & Weight

DN (mm)	L	D	D1	L1	L2	H	D0	WT(Kg)
WJ61H-16C WJ61H-25 WJ61H-40 WJ61W-16P WJ61W-25P WJ61W-40P								
15	110	34	22.5	10	18	214	22.5	1.9
20	130	40	28.5	11	18	242	28.5	2.3
25	140	48	34.5	12	20	245	34.5	3.4
32	160	56	43	14	22	296	43	5.2
40	180	64	49	15	25	337	49	7.3
50	230	85	61	18	28	342	61	10

DN (mm)	L	D	D1	D2	b	f	Z-φd	H	D0	WT(Kg)
WJ41H-16C WJ41W-16P										
15	130	95	65	47	14	2	4-φ13.5	202	120	5
20	150	105	75	58	14	2	4-φ13.5	231	140	7
25	160	115	85	68	14	2	4-φ13.5	231	140	9
32	180	140	100	78	16	2	4-φ17.5	286	160	12
40	200	150	110	88	16	3	4-φ17.5	317	200	16
50	230	165	125	102	16	3	4-φ17.5	317	200	19
65	290	185	145	122	18	3	8-φ17.5	331	240	23
80	310	200	160	123	20	3	8-φ17.5	402	240	30
100	350	220	180	158	20	3	8-φ17.5	416	320	42
125	400	250	210	184	22	3	8-φ17.5	467	360	63
150	480	285	240	212	24	3	8-φ22	525	360	90
200	600	340	295	268	26	3	12-φ22	611	500	150
WJ41H-25 WJ41W-25P										
15	130	95	65	47	16	2	4-φ13.5	202	120	5
20	150	105	75	58	16	2	4-φ13.5	231	160	7
25	160	115	85	68	16	2	4-φ13.5	231	160	9
32	180	140	100	78	18	2	4-φ17.5	286	160	12
40	200	150	110	88	18	3	4-φ17.5	317	200	19
50	230	165	125	102	20	3	4-φ17.5	317	200	24
65	290	185	145	122	22	3	8-φ17.5	331	280	33
80	310	200	160	133	22	3	8-φ17.5	402	280	44
100	350	235	190	158	24	3	8-φ22	416	320	60
125	400	270	220	184	28	3	8-φ26	467	360	72
150	480	300	250	212	30	3	8-φ26	525	360	98
200	600	360	310	278	30	3	12-φ27	611	500	169
WJ41H-40 WJ41W-40P										
15	130	95	65	47	16	2	4-φ13.5	202	120	5
20	150	105	75	58	16	2	4-φ13.5	228	160	7
25	160	115	85	68	16	2	4-φ13.5	228	160	9
32	180	140	100	78	18	2	4-φ17.5	274	160	12
40	200	150	110	88	20	3	4-φ17.5	345	200	16
50	230	165	125	102	22	3	4-φ17.5	396	200	23
65	290	185	145	122	22	3	8-φ17.5	399	280	33
80	310	200	160	133	24	3	8-φ17.5	405	280	43
100	350	235	190	158	28	3	8-φ22	460	320	69

Check Valve Series
止回阀系列高品阀门集团有限公司
THERMAL VALVE GROUP CO.LTD.

铸钢旋启式止回阀API6D



设计标准

1. 设计与制造: BS 1868, API 6D
2. 检验测试标准: API 598, ISO 5208
3. 法兰连接尺寸: ASME B16.5, ASME B 16.47
4. 对焊端尺寸: ASME B16.25
5. 结构长标准: ASME B16.10
6. 压力温度等级: ASME B16.34

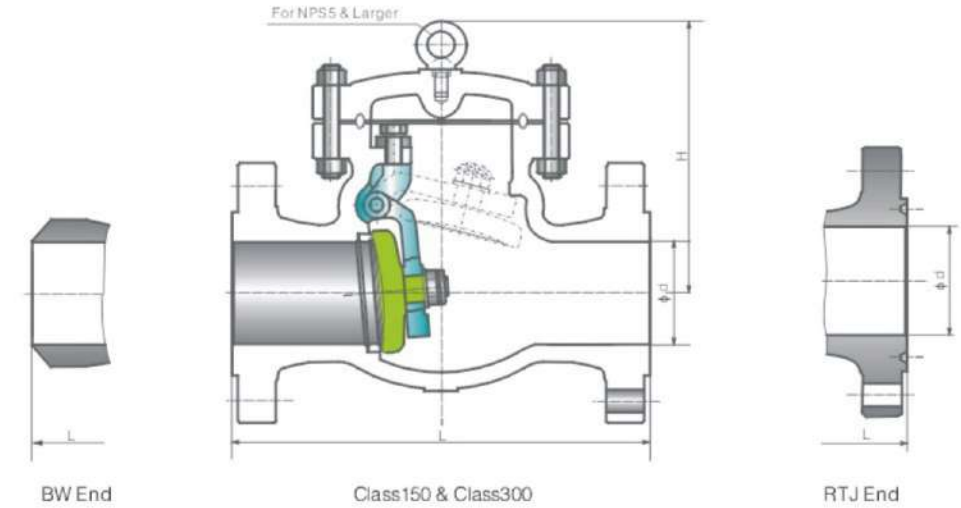
Design Construction

1. Design and Manufacture: BS 1868, API 6D
2. Inspection and Test: API 598, ISO 5208
3. Flanged ends dimension: ASME B16.5, ASME B 16.47
4. Butt-welded ends dimension: ASME B16.25
5. Face to face and end to end: ASME B16.10
6. Pressure-temperature ratings: ASME B16.34

主要零件材料/Major Parts Material Form

部件编号 Parts No.	部件名称 Parts name	碳钢/内件1 WCB/Trim 1	碳钢/内件5 WCB/Trim 5	碳钢/内件8 WCB/Trim 8	不锈钢304 CF8/304	CF8M/316
1	阀体 Body	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
2	密封 Seat Ring	A105+13Cr	A105+STL	A105+STL	ASTM A351 CF8	ASTM A351 CF8M
3	阀板 Disc	ASTM A216 WCB+13Cr	ASTM A216 WCB+STL	ASTM A216 WCB+13Cr	ASTM A351 CF8	ASTM A351 CF8M
4	摇臂 Arm	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
5	螺母 Nut	ASTM A194 2H	ASTM A194 2H	ASTM A194 2H	ASTM A194 8	ASTM A194 8M
6	摇臂销轴 Arm Pin	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F304	ASTM A182 F316
7	支架 Yoke	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
8	阀盖螺母 Bonnet Nut	ASTM A194 2H	ASTM A194 2H	ASTM A194 2H	ASTM A194 8	ASTM A194 8M
9	阀盖螺栓 Bonnet Bolt	ASTM A193 B7	ASTM A193 B7	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8M
10	螺栓 Bolt	ASTM A193 B7	ASTM A193 B7	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8M
11	垫片 Gasket	304 Sheet + Graphite	304 Sheet + Graphite	304 Sheet + Graphite	304 + Graphite	316 + Graphite
12	阀盖 Bonnet	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
13	吊环 Eye Bolt	ASTM A181	ASTM A181	ASTM A181	ASTM A181	ASTM A181

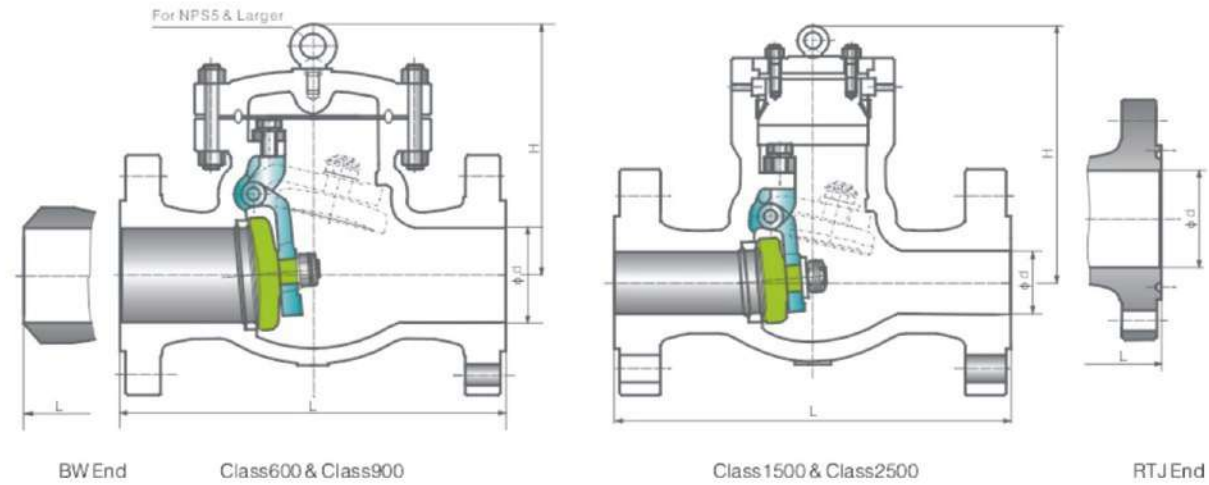
铸钢旋启式止回阀/Class 150 & Class 300



主要外形尺寸及重量/Main Size of Outside & Weight

Size		Class 150						Class 300					
NPS	DN	L			d	H	Weight (Kg)	L			d	H	Weight (Kg)
		RF	RTJ	BW				RF	RTJ	BW			
2	50	203	216	203	51	132	15	267	283	267	51	144	20
2 1/2	65	216	229	216	64	147	20	292	308	292	64	169	35
3	80	241	254	241	76	176	27	318	333	318	76	210	40
4	100	292	305	292	102	198	45	356	371	356	102	260	61
5	125	330	343	330	127	255	58	400	416	400	127	295	80
6	150	356	368	356	152	320	69	445	460	445	152	326	130
8	200	495	508	495	203	380	131	533	549	533	203	380	190
10	250	622	635	622	254	440	219	622	638	622	254	440	296
12	300	699	711	699	305	480	321	711	727	711	305	520	450
14	350	787	800	787	337	530	380	838	854	838	337	540	640
16	400	864	876	864	387	580	560	864	879	864	387	588	850
18	450	978	991	978	438	618	630	978	994	978	438	670	1030
20	500	978	991	978	489	657	770	1016	1035	1016	489	720	1330
24	600	1295	1308	1295	591	760	960	1346	1368	1346	591	850	1950
26	650	1295	-	1295	633	840	1250	1346	1372	1346	633	920	2300
28	700	1448	-	1448	684	920	1580	1499	1524	1499	684	1150	2600
30	750	1524	-	1524	735	980	1950	1594	1619	1594	735	1260	3200

铸钢旋启式止回阀/Class600 ~ Class2500

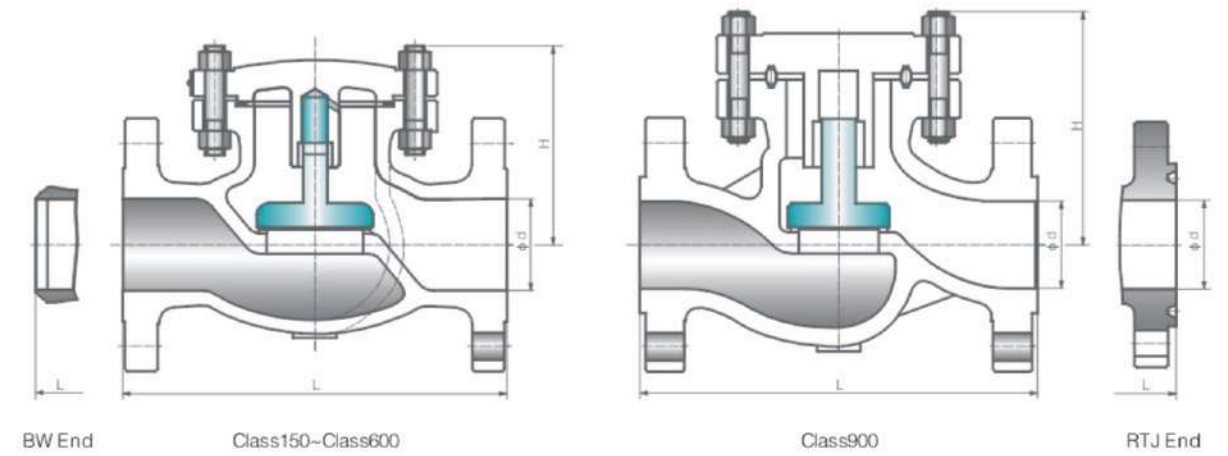


主要外形尺寸及重量/Main Size of Outside & Weight

Size		Class 600						Class 900					
NPS	DN	L			d	H	Weight (Kg)	L			d	H	Weight (Kg)
		RF	RTJ	BW				RF	RTJ	BW			
2	50	292	295	292	51	170	28	368	371	368	51	200	48
2 1/2	65	330	333	330	64	178	40	419	422	419	64	220	75
3	80	356	359	356	76	246	68	381	384	381	76	280	95
4	100	432	435	432	102	290	117	457	460	457	102	320	135
5	125	508	511	508	127	320	155	559	562	559	127	360	200
6	150	559	562	559	152	360	192	610	613	610	152	400	264
8	200	660	664	660	203	430	340	737	740	737	203	480	424
10	250	787	791	787	254	502	515	838	841	838	254	560	730
12	300	838	841	838	305	554	750	965	968	965	305	632	1070
14	350	889	892	889	337	595	890	1029	1038	1029	322	680	1180
16	400	991	994	991	387	680	1303	1130	1140	1130	373	780	1790
18	450	1092	1095	1092	438	778	1800	1219	1232	1219	423	880	2500
20	500	1194	1200	1194	489	970	2150	1321	1334	1321	471	1050	3080
24	600	1397	1407	1397	591	1100	3200	1549	1568	1549	522	1200	4600

Size		Class 1500						Class 2500					
NPS	DN	L			d	H	Weight (Kg)	L			d	H	Weight (Kg)
		RF	RTJ	BW				RF	RTJ	BW			
2	50	368	371	368	51	210	48	451	454	451	42	230	68
2 1/2	65	419	422	419	64	240	75	508	514	508	52	260	100
3	80	470	473	470	76	303	120	578	584	578	62	330	165
4	100	546	549	546	102	340	180	673	683	673	87	370	260
5	125	673	676	673	127	380	294	794	807	794	96	410	440
6	150	705	711	705	144	430	385	914	927	914	131	460	580
8	200	832	841	832	192	500	634	1022	1038	1022	179	530	970
10	250	991	1000	991	239	590	1140	1270	1292	1270	223	620	1700
12	300	1130	1146	1130	287	660	1650	1422	1445	1422	265	690	2600
14	350	1257	1276	1257	315	710	2000	-	-	-	-	-	-
16	400	1384	1407	1384	360	820	2700	-	-	-	-	-	-

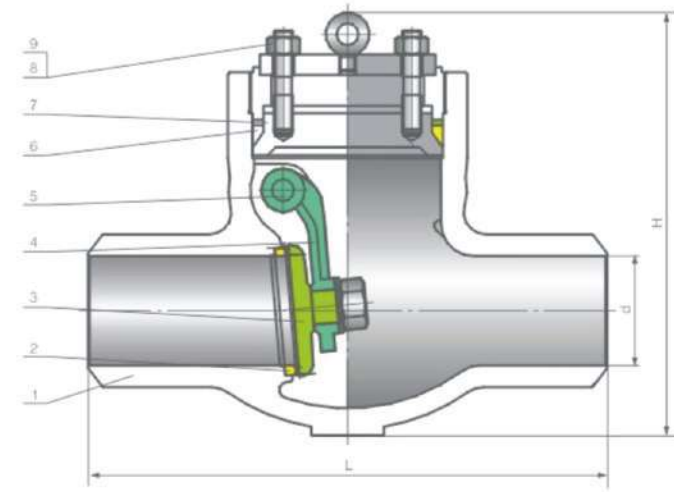
铸钢旋启式止回阀/Class 150 ~ Class900



主要外形尺寸及重量/Main Size of Outside & Weight

Size		Class 150						Class 300					
NPS	DN	L			d	H	Weight (Kg)	L			d	H	Weight (Kg)
		RF	RTJ	BW				RF	RTJ	BW			
1/2	15	108	119	108	13	76	3	152	162	152	13	78	5
3/4	20	117	130	117	19	76	4	178	191	178	19	82	6
1	25	127	140	127	25	98	5	203	216	203	25	102	8
1 1/4	32	140	153	140	32	102	7	216	229	216	32	106	11
1 1/2	40	165	178	165	38	115	8	229	242	229	38	118	13
2	50	203	216	203	51	140	15	267	283	267	51	140	26
2 1/2	65	216	229	216	64	162	22	292	308	292	64	164	33
3	80	241	254	241	76	168	28	318	333	318	76	178	50
4	100	292	305	292	102	194	42	356	371	356	102	195	86
5	125	356	368	356	127	210	60	400	416	400	127	223	120
6	150	406	419	406	152	226	75	445	460	445	152	245	180
8	200	495	508	495	203	250	118	533	549	533	203	280	220
10	250	622	635	622	254	275	194	622	638	622	254	336	310
12	300	699	711	699	305	332	320	711	727	711	305	380	510

Size		Class600						Class900					
NPS	DN	L			d	H	Weight (Kg)	L			d	H	Weight (Kg)
		RF	RTJ	BW				RF	RTJ	BW			
2	50	292	295	292	51	152	32	368	371	368	50	180	50
2 1/2	65	330	333	330	64	167	45	419	422	419	64	200	65
3	80	356	359	356	76	178	68	381	384	381	74	235	88
4	100	432	435	432	102	215	98	457	460	457	100	270	140
5	125	508	511	508	125	240	155	559	562	559	125	300	210
6	150	559	562	559	152	279	230	610	613	610	150	350	300
8	200	660	664	660	200	328	300	737	740	737	200	400	390



设计标准

1. 设计标准: NB/T 47044
 2. 结构长度: NB/T 47044
 3. 对焊连接: NB/T 47044
 4. 压力与温度: NB/T 47044
 5. 试验和检验: NB/T 47044
 6. 焊接坡口: NB/T 47044
- 注: 阀门连接法兰及焊接坡口可根据用户要求设计制造。

Design Construction

1. Design standard: NB/T 47044
 2. Structural length: NB/T 47044
 3. Welded connection: NB/T 47044
 4. Pressure and temperature: NB/T 47044
 5. Test & inspection: NB/T 47044
 6. Weld the slope mouth: NB/T 47044
- Note: valve connecting flange and welded groove can be designed and made upon the user requirements.

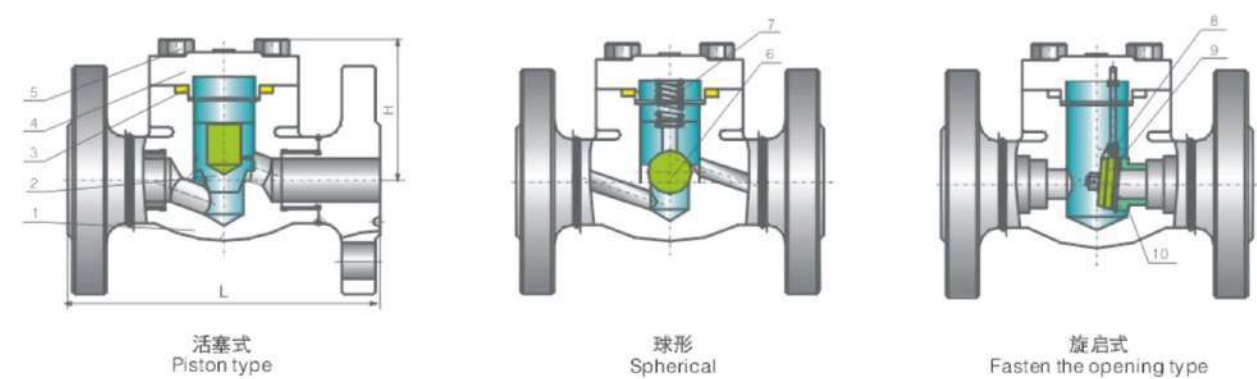
主要零件材料/Major Parts Material Form

序号 No.	零件名称 Part name	材质 Material
1	阀体 Body	WCB, WC1, WC6, WC9
2	阀座 Seat	A105, 25, 15CrMoA, 12CrMoVA
3	阀瓣 Disc	A105, 25, 12CrMoVA
4	摇杆 Rocker	WCB, WC1, WC6, WC9
5	销柱 Sell the post	A105, 25, 15CrMoA, 12CrMoVA
6	密封圈 Sealing ring	柔性石墨 Graphite
7	阀盖 Bonnet	WCB, WC1, WC6, WC9
8	双头螺柱	35CrMoA, 25Cr2MoV
9	螺母 Nut	35CrMoA, 25Cr2MoV

主要外形尺寸及重量/Main Size of Outside & Weight

型号 Model: H64Y-1500Lb, H64Y-2000Lb, H64Y-2500Lb

NPS (in)	1500Lb				2000Lb				2500Lb			
	L	d	H	重量(kg) Weight	L	d	H	重量(kg) Weight	L	d	H	重量(kg) Weight
2 1/2	254	55	282	45	330	50	240	40	-	-	-	-
3	305	64	274	50	368	60	305	60	368	54	297	44
4	406	84	350	80	457	80	315	95	457	70	385	110
5	483	100	425	115	533	96	409	170	533	86	403	168
6	559	126	400	180	610	118	465	186	610	104	455	192
8	711	158	490	270	762	147	528	415	762	130	557	456
10	864	200	540	430	914	180	613	658	914	162	615	730
12	991	250	650	630	1041	222	660	1200	1041	210	715	1120
14	1067	280	710	1400	1118	254	745	1638	1118	234	790	1495
16	-	-	-	-	-	-	-	-	1245	264	815	1950
18	-	-	-	-	-	-	-	-	1397	304	815	2400



设计标准

1. 结构形式: 栓接阀盖升降式、栓接阀盖旋启式止回阀
 2. 设计标准: API 602
 3. 结构长度: ASME B16.10
 4. 法兰连接: ASME B16.5
 5. 螺纹端: ASME B1.20.1
 6. 承插焊端: ASME B16.11
 7. 试验和检验: API 598
- 注: 阀门连接法兰及对接焊端尺寸可根据用户要求设计制造。

Design Construction

1. Structural formation: Bolt-jointed bonnet lifting type, bolt-jointed bonnet swing type check valve
2. Design standard: API 602
3. Face to face: ASME B16.10
4. Flanged ends: ASME B16.5
5. Thread ends: ASME B1.20.1
6. Socket welded ends: ASME B16.11
7. Test & inspection: API 598

Notes: The sizes of valve connecting flange and butt-welding terminas can be designed according to customer's requirement.

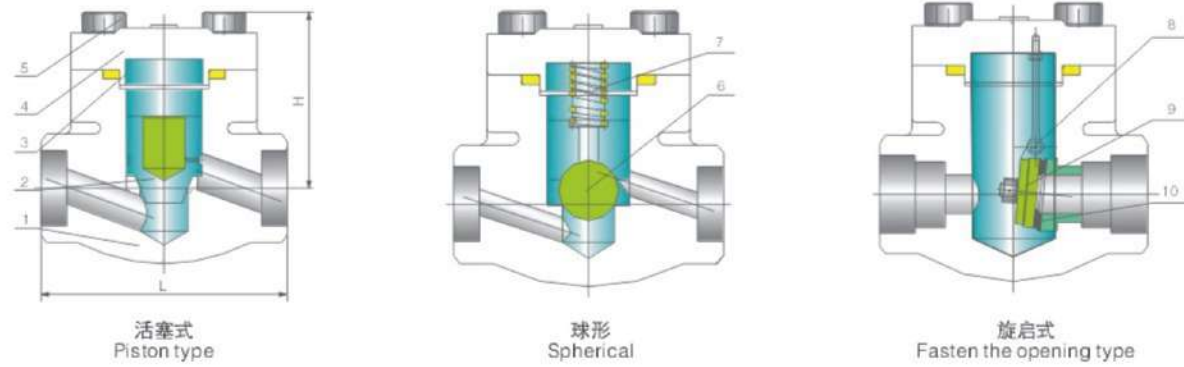
主要零件材料/Major Parts Material Form

序号 No.	零件名称 Part name	材质 Material
1	阀体 Body	ASTM A105, ASTM A182-F11, F22, F5, F9, ASTM A182-F304, F316, F321, F304L, F316L
2	阀瓣 Disc	ASTM A105, ASTM A182-F11, F22, F5, F9, ASTM A182-F304, F316, F321, F304L, F316L
3	弹簧 Spring	柔性石墨+不锈钢 Graphite & stainless steel
4	阀盖 Bonnet	ASTM A105, ASTM A182-F11, F22, F5, F9, ASTM A182-F304, F316, F321, F304L, F316L
5	螺栓 Bolt	ASTM A193-B7, A320-B8, A193-B8M
6	球 Ball	ASTM A105, ASTM A182-F11, F22, F5, F9, ASTM A182-F304, F316, F321, F304L, F316L
7	弹簧 Spring	AISI 9260, AISI 6150, ASTM A182-F304, F316, F321, F304L, F316L
8	摇杆 Rocker	ASTM A182 Gr.F6a, ASTM A182 F22, ASTM A182-F304, F316, F321, F304L, F316L
9	销轴 Pivot	ASTM A105, ASTM A182-F11, F22, F5, F9, ASTM A182-F304, F316, F321, F304L, F316L
10	阀座 Seat	ASTM A105, ASTM A182-F11, F22, F5, F9, ASTM A182-F304, F316, F321, F304L, F316L

主要外形尺寸及重量/Main Size of Outside & Weight

Class		150				300				600			
DN (mm)	NPS (in)	尺寸 Dimensions(mm)			重量 I(II,III) Weight(kg)	尺寸 Dimensions(mm)			重量I(II,III) Weight(kg)	尺寸 Dimensions(mm)			重量 I(II,III) Weight(kg)
		L(RF)	L(RTJ)	H		L(RF)	L(RTJ)	H		L(RF)	L(RTJ)	H	
15	½	108	119	60	2.5(2.5)	152.5	163.5	60	2.5(2.7)	165	163.5	60	2.8(3.0)
20	¾	117.5	130	60	3.3(3.4)	178	191	60	3.5(3.5)	191	190.5	60	4.2(4.1)
25	1	127	140	76	4.8(4.4)	203	216	76	5.0(4.8)	216	216	76	5.2(5.8)
32	1¼	140	153	85	7.0(8.2)	216	229	85	7.5(8.8)	229	229	85	7.7(9.5)
40	1½	165	178	103	7.5(8.9)	228.5	241	103	7.9(9.8)	241	241	103	9.3(10.0)
50	2	203	216	118	11.0(12.5)	266.5	282	118	11.6(13.5)	292	295	118	13.2(15.5)

锻钢止回阀/Class 800~Class 1500



主要外形尺寸及重量/Main Size of Outside & Weight

Class	DN(mm)		NPS(in)		尺寸 Dimensions(mm)		重量 Weight (kg)
	缩径 Reduced bore	全径 Full bore	缩径 Reduced bore	全径 Full bore	L	H	
800 (旋启式) Piston type	15	10	1/2	3/8	80	61	1.0
	20	15	3/4	1/2	92	61	1.1
	25	20	1	3/4	111	78	1.8
	32	25	1 1/4	1	120	85	3.2
	40	32	1 1/2	1 1/4	120	103	4.5
	50	40	2	1 1/2	140	119	7.3
800 (活塞式、球形) Piston type & spherical		50		2	170	132	9.8
	15	10	1/2	3/8	80	61	1.2
	20	15	3/4	1/2	92	61	1.4
	25	20	1	3/4	111	78	2.5
	32	25	1 1/4	1	120	85	3.9
	40	32	1 1/2	1 1/4	152	103	5.5
1500 (旋启式) Fasten the opening type	50	40	2	1 1/2	172	119	8.9
		50		2	200	132	12.5
	15	10	1/2	3/8	111	79	3.3
	20	15	3/4	1/2	111	79	3.6
	25	20	1	3/4	120	96	4.3
	32	25	1 1/4	1	140	105	6.0
1500 (活塞式、球形)	40	32	1 1/2	1 1/4	140	120	8.7
	50	40	2	1 1/2	160	140	12.5
		50	3/8	2	220	160	16.0
	15	10	1/2	3/8	111	79	3.0
	20	15	3/4	1/2	111	79	3.5
	25	20	1	3/4	130	96	4.7
1500 (旋启式、球形)	32	25	1 1/4	1	150	105	7.0
	40	32	1 1/2	1 1/4	172	120	10.5
	50	40	2	1 1/2	220	140	14.5
		50		2	230	160	16.5

斜盘式止回阀/Class 150~Class 1500

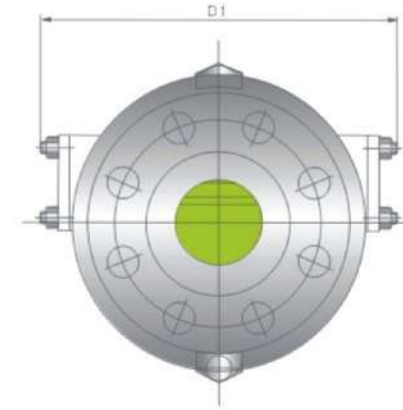
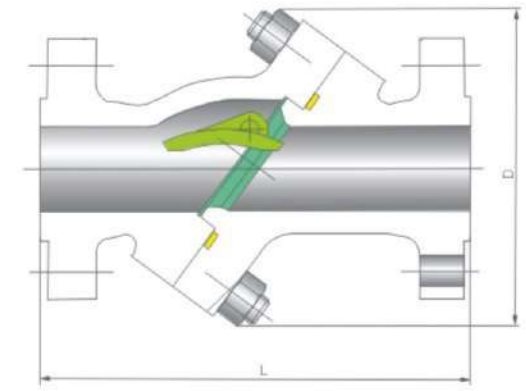


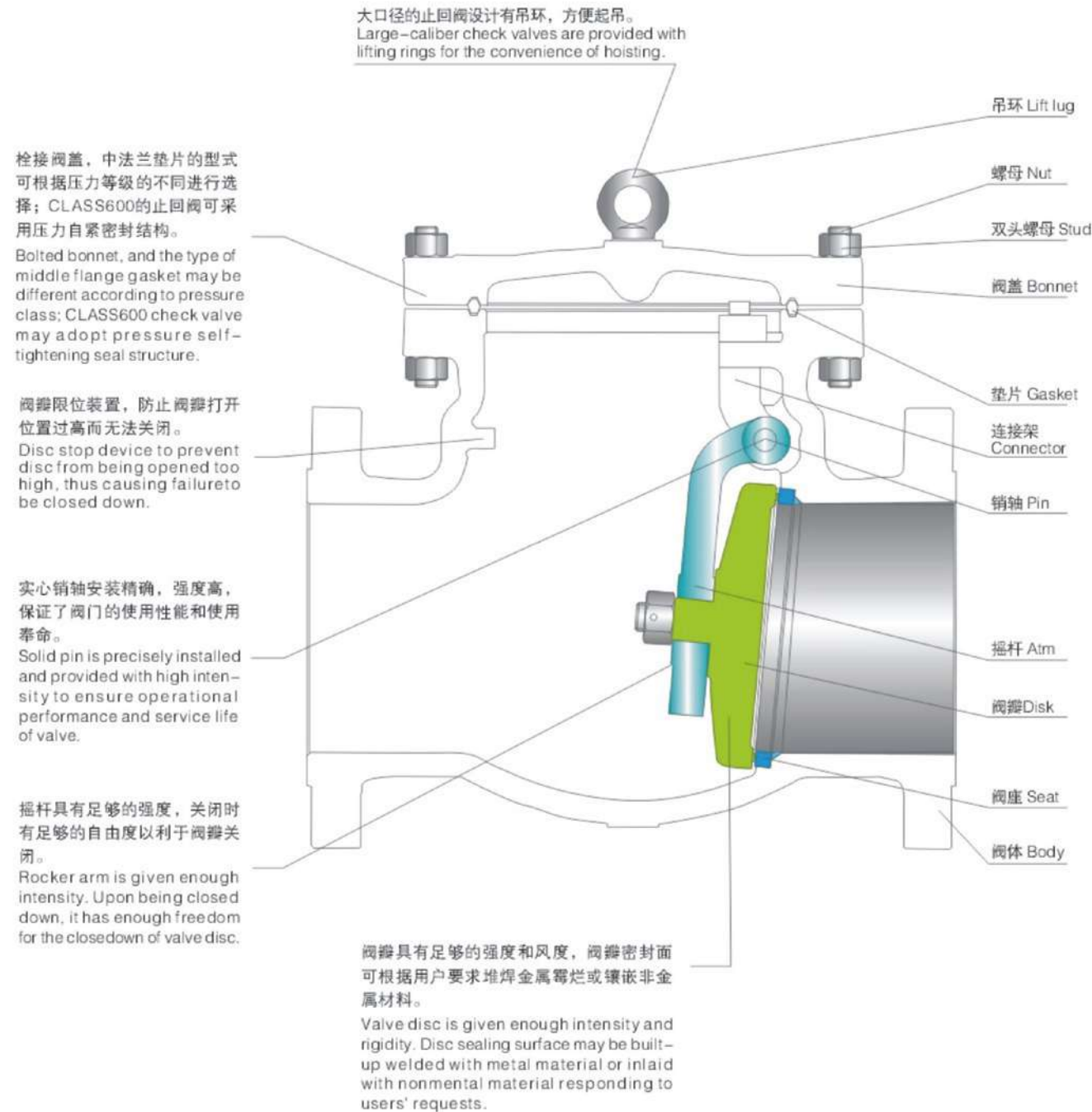
Fig.HRF7



主要外形尺寸及重量/Main Size of Outside & Weight

压力 pressure	规格Size		阀门尺寸Valve Main Dimension				重量Weight(kg)		CV
	mm	in	L(RF)	L(BW)	D	D1	W _{RF}	W _{BW}	
Class 150	50	2	203	203	186	-	17	10	-
	65	2-1/2	216	216	217	-	23	17	-
	80	3	241	241	217	-	27	19	710
	100	4	292	292	251	337	46	34	1,300
	125	5	330	330	286	397	63	49	-
	150	6	356	356	-	-	-	-	3,100
	200	8	495	495	403	527	133	109	5,720
	250	10	622	622	476	635	221	181	8,940
	300	12	698	698	543	705	313	259	13,350
	350	14	787	787	570	724	373	313	16,275
	400	16	762	762	633	864	485	401	21,560
	450	18	838	838	705	908	651	550	28,720
Class 300	500	20	826	826	778	988	828	798	35,760
	600	24	965	965	910	1133	1310	1027	52,165
	750	30	1257	1257	1105	1365	2173	1826	86,235
	900	36	1511	1511	1270	1530	3082	2610	129,500
	50	2	267	267	205	-	26	17	-
	65	2-1/2	292	292	241	-	39	26	-
	80	3	318	318	241	-	41	27	710
	100	4	356	356	273	362	76	48	1,300
	125	5	400	400	317	416	98	75	-
	150	6	444	444	-	-	-	-	3,100
	200	8	622	622	432	559	207	153	5,720
	250	10	533	533	514	638	304	236	8,940
Class 600	300	12	711	711	610	756	467	379	13,350
	350	14	762	762	632	768	565	481	16,275
	400	16	838	838	706	914	769	576	21,560
	450	18	914	914	781	1003	989	764	28,720
	500	20	991	991	826	1035	1201	869	35,760
	600	24	1143	1143	953	1149	1846	1266	52,165
	750	30	1372	1372	1130	1365	2812	2110	86,235
	900	36	1524	1524	1432	1727	5676	4536	129,500
	50	2	368	368	311	435	81	70	-
	65	2-1/2	419	419	311	435	100	75	-
	80	3	470	470	311	435	102	82	600
	100	4	546	546	375	540	195	122	1,070
Class 900	150	6	705	705	470	603	435	363	2,500
	200	8	832	832	565	768	771	553	4,370
	250	10	991	991	724	972	1066	850	6,850
	50	2	368	368	311	435	81	70	-
	65	2-1/2	419	419	311	435	100	75	-
	80	3	470	470	311	435	102	82	600
	100	4	546	546	375	540	195	122	1,070
	150	6	705	705	470	603	435	363	2,500
	200	8	832	832	565	768	771	553	4,370
	250	10	991	991	724	972	1066	850	6,850
	50	2	368	368	311	435	81	70	-
	65	2-1/2	419	419	311	435	100	75	-
Class 1500	80	3	470	470	311	435	102	82	600
	100	4	546	546	375	540	195	122	1,070
	150	6	705	705	470	603	435	363	2,500
	200	8	832	832	565	768	771	553	4,370
	250	10	991	991	724	972	1066	850	6,850
	50	2	368	368	311	435	81	70	-
	65	2-1/2	419	419	311	435	100	75	-
	80	3	470	470	311	435	102	82	600
	100	4	546	546	375	540	195	122	1,070
	150	6	705	705	470	603	435	363	2,500
	200	8	832	832	565	768	771	553	4,370
	250	10	991	991	724	972	1066	850	6,850

铸钢旋启式止回阀的结构特征/Structure of Cast steel Swing Type check Valve



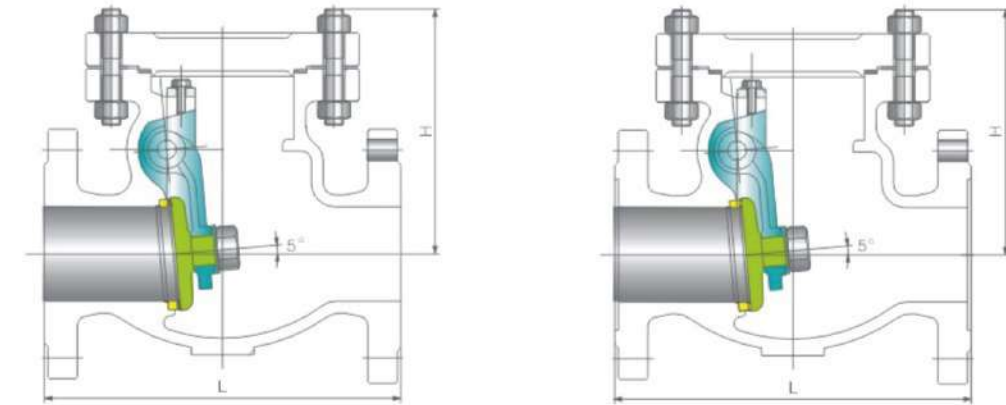
设计标准

1. 制造标准: GB/T 12236
2. 结构长度: GB/T 12221
3. 法兰尺寸: JB/T 79、HG/T 20592
4. 压力与温度: GB/T 12224
5. 试验和检验: GB/T 13927

Design Construction

1. Manufacturing standard: GB/T 12236
2. Face to face according: GB/T 12221
3. Flange dimension according: JB/T 79、HG/T 20592
4. Pressure and temperature: GB/T 12224
5. Test & inspection: GB/T 13927

铸钢旋启式止回阀/PN1.6~6.4

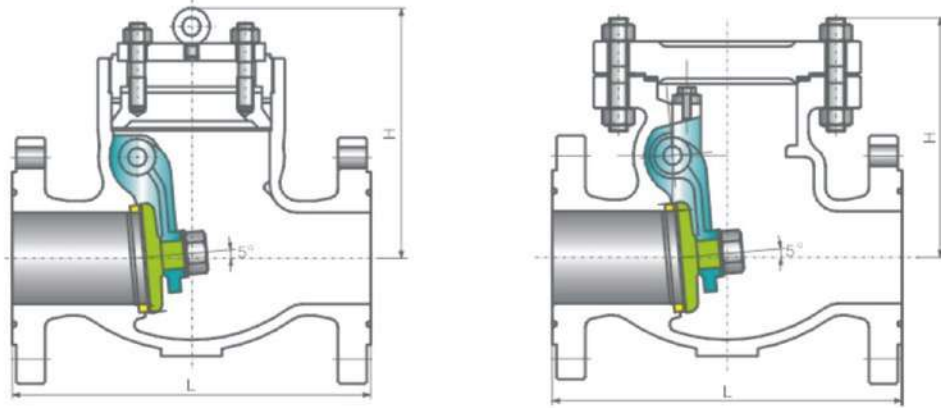


主要外形尺寸及重量/Main Size of Outside & Weight

PN (MPa)	DN (mm)	尺寸 Dimensions (mm)		重量 Weight (kg)
		L	H	
1.6	50	230	165	23
	65	290	180	28
	80	310	190	35
	100	350	208	40
	150	480	270	81
	200	550	295	96
	250	650	337	175
	300	750	386	265
	350	850	430	364
	400	950	475	495
2.5	500	1150	565	590
	50	230	180	25
	65	290	195	32
	80	310	195	35
	100	350	220	55
	150	480	273	104
	200	550	352	138
	250	650	413	198
	300	750	432	388
	350	850	455	390
4.0	400	950	562	498
	500	1150	620	643
	50	300	195	32
	65	340	213	45
	80	380	213	50
	100	430	240	75
	150	550	302	158
	200	650	362	220
	250	775	410	346
	300	900	468	476
6.4	350	1025	520	630
	400	1150	572	886
	500	1400	625	1030

PN (MPa)	DN (mm)	尺寸 Dimensions (mm)		重量 Weight (kg)
		L	H	
1.6	50	230	180	27
	65	290	195	33
	80	310	195	37
	100	350	220	56
	150	480	273	105
	200	550	352	140
	250	650	413	200
	300	750	432	392
	350	850	455	396
	400	950	562	502
2.5	500	1150	620	645
	50	300	195	32
	65	340	213	45
	80	380	213	50
	100	430	240	75
	150	550	302	158
	200	650	362	220
	250	775	410	346
	300	900	468	476
	350	1025	520	630
4.0	400	1150	572	886
	500	1400	625	1030
	50	300	195	32
	65	340	213	45
	80	380	213	50
	100	430	240	75
	150	550	302	158
	200	650	362	220
	250	775	410	346
	300	900	468	476
6.4	350	1025	520	630
	400	1150	572	886
	500	1400	625	1030

铸钢旋启式止回阀/PN10.0~25.0



主要外形尺寸及重量/Main Size of Outside & Weight

PN (MPa)	DN (mm)	尺寸 Dimensions (mm)		重量 Weight (kg)
		L	H	
10.0	50	300	195	43
	65	340	213	52
	80	380	240	75
	100	430	270	112
	150	550	365	220
	200	650	425	345
16.0	250	775	486	475
	50	300	255	52
	65	340	285	62
	80	380	324	113
	100	430	359	165
	150	550	433	270
25.0	200	650	478	324
	250	750	520	375
	50	368	315	65
	65	419	348	79
	80	470	386	95
	100	546	410	172
25.0	150	705	565	275
	200	832	320	325
	250	991	676	395

设计标准

1. 结构形式: 螺旋壳盖升降式止回阀
 2. 设计依据: GB、API
 3. 设计标准: GB/T 12235、BS1868、GB/T 12235
 4. 结构长度: GB/T 12221、ASME B16.10、GB/T 12221
 5. 连接法兰: JB/T 79-94、ASME B16.5、JB/T 79、HG/T 20592
 6. 压力与温度: GB/T 12224
 7. 试验和检验: JB/T9092、API 598、GB/T 13927
- 注: 阀门连接法兰及对焊端尺寸可根据用户要求设计制造。

Design Construction

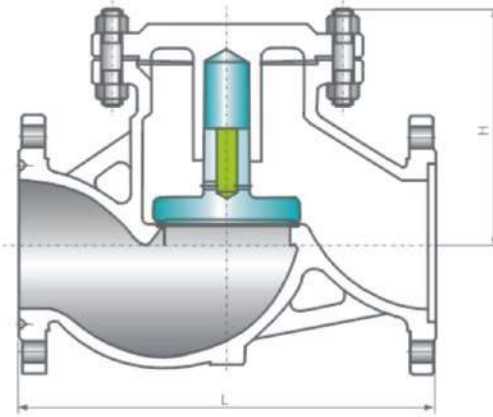
1. Structural formation: Spiral shell's post bonnet lifting type check valve
2. Design reference: GB、API
3. Design standard: GB/T 12235、BS1868、GB/T 12235
4. Face to face: GB/T 12221、ASME B16.10、GB/T 12221
5. Flanged ends: JB/T 79-94、ASME B16.5、JB/T 79、HG/T 20592
6. Pressure and temperature: GB/T 12224
7. Test & inspection: JB/T9092、API 598、GB/T 13927

Notes: The sizes of valve connecting flange and butt-welding terminas can be designed according to customer's requirement.

主要零件材料/Major Parts Material Form

序号 No.	零件名称 Part name	材质 Material	
		ASTM	GB
1	阀体 Body	WCB、WC1、WC6、WC9、C5 CF8、CF8M、CF8C、CF3、CF3M	WCB、WC1、WC6、WC9、C5 CF8、CF8M、CF8C、CF3、CF3M
2	阀瓣 Disc	WCB、WC1、WC6、WC9、C5 CF8、CF8M、CF8C、CF3、CF3M	WCB、WC1、WC6、WC9、C5 CF8、CF8M、CF8C、CF3、CF3M
3	双头螺栓 Stud	A193-B7、A320-B8、A193-B8M	35CrMoA、25Cr2MoV、0Cr18Ni9、0Cr17Ni12Mo2
4	六角螺母 Six angle nuts	A194-2H、A194-8、A194-8M	45、35CrMoA、25Cr2MoV、0Cr18Ni9、0Cr17Ni12Mo2
5	垫片 Gasket	柔性石墨+不锈钢 Graphite & stainless steel	柔性石墨+不锈钢 Graphite & stainless steel
6	阀盖 Bonnet	A105、F11、F22、F5、F9 F304、F316、F321、F304L、F316L	25、1Cr18Ni9Ti、0Cr18Ni12Mo2Ti 20Cr1Mo1V、25Cr2MoV

国标升降式止回阀/PN1.6~16.0



主要外形尺寸及重量/Main Size of Outside & Weight

PN (MPa)	DN (mm)	尺寸 Dimensions (mm)		重量 Weight (kg)
		L	H	
1.6	50	230	115	20
	65	290	140	24
	80	310	175	30
	100	350	203	42
	125	400	228	59
	150	480	250	84
2.5	200	600	285	100
	50	230	115	21
	65	290	140	25
	80	310	175	31
	100	350	203	42
	125	400	228	60
4.0	150	480	250	86
	200	600	285	102
	50	230	150	17
	65	290	160	22
	80	310	178	34
	100	350	203	42
16.0	125	400	228	75
	150	480	265	105
	200	600	317	150

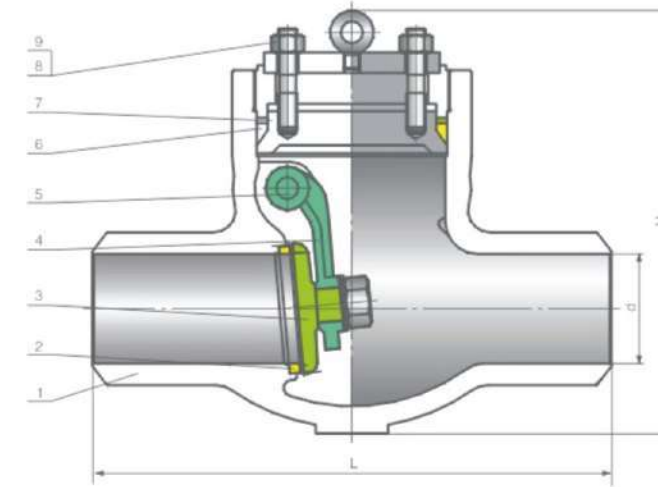
PN (MPa)	DN (mm)	尺寸 Dimensions (mm)		重量 Weight (kg)
		L	H	
6.4	50	300	175	30
	65	340	190	36
	80	380	208	48
	100	430	230	70
	125	500	265	102
	150	550	312	145
10.0	200	600	353	198
	50	300	175	30
	65	340	193	43
	80	380	238	65
	100	430	269	89
	125	500	313	102
16.0	150	550	355	123
	200	600	403	148
	50	300	175	32
	65	340	193	46
	80	380	238	240
	100	430	269	273

设计标准

1. 设计标准: NB/T 47044
 2. 结构长度: NB/T 47044
 3. 对焊连接: NB/T 47044
 4. 压力与温度: NB/T 47044
 5. 试验和检验: NB/T 47044
 6. 焊接坡口: NB/T 47044
- 注: 阀门连接法兰及焊接坡口可根据用户要求设计制造。

Design Construction

1. Design standard: NB/T 47044
 2. Structural length: NB/T 47044
 3. Welded connection: NB/T 47044
 4. Pressure and temperature: NB/T 47044
 5. Test & inspection: NB/T 47044
 6. Weld the slope mouth: NB/T 47044
- Note: valve connecting flange and welded groove can be designed and made upon the user requirements.



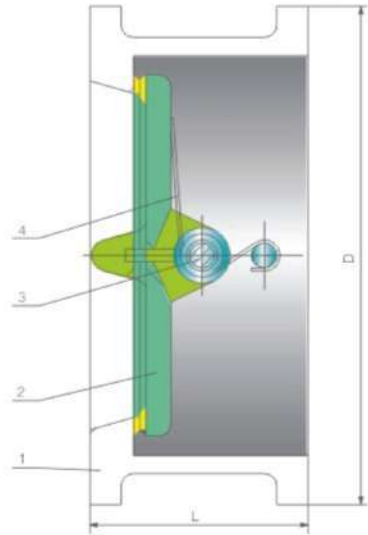
主要零件材料/Major Parts Material Form

序号 No.	零件名称 Part name	材 质 Material
1	阀体 Body	WCB, WC1, WC6, WC9, 15Cr1Mo1V, 12Cr1MoV, 20CrMoV
2	阀座 Seat	A105, 25, 15CrMoA, 12CrMoVA
3	阀瓣 Disc	A105, 25, 12CrMoVA
4	摇杆 Rocker	WCB, WC1, WC6, WC9
5	销柱 Sell the post	A105, 25, 15CrMoA, 12CrMoVA
6	密封圈 Sealing ring	柔性石墨 Graphite
7	阀盖 Bonnet	WCB, WC1, WC6, WC9, 15Cr1Mo1V, 12Cr1MoV, 20CrMoV
8	双头螺柱	35CrMoA, 25Cr2MoV
9	螺母 Nut	35CrMoA, 25Cr2MoV

主要外形尺寸及重量/Main Size of Outside & Weight

型号 Model: H64Y-250, H64Y-320, H64Y-P54170V

DN (mm)	H64Y-250				H64Y-320				H64Y-P54170V			
	L	d	H	重量(kg) Weight	L	d	H	重量(kg) Weight	L	d	H	重量(kg) Weight
65	254	56	250	35	330	50	240	40				
80	305	64	300	45	368	60	305	60	368	56	270	70
100	406	84	350	80	457	80	315	95	457	75	385	110
125	483	100	425	115	533	88	380	110	533	86	410	130
150	559	126	400	180	610	118	425	160	610	104	455	180
200	711	158	490	270	762	148	480	330	762	136	555	380
250	864	200	540	430	914	180	570	540	914	162	615	730
300	991	250	650	630	1041	222	570	800	1041	210	715	1120
350	1067	280	710	810	1118	254	680	930	1118	234	790	1495



设计标准

1. 结构形式: 双瓣旋启式止回阀
2. 设计标准: GB/T 12224 API594
3. 结构长度: GB/T 15188.2 ASME16.10
4. 连接法兰: JB/T 79、GB/T9113、HG20592 ASME16.5
5. 试验和检验: JB/T9092 API598

注: 阀门连接法兰及对焊端尺寸可根据用户要求设计制造。

Design Construction

1. Structural formation: Dual-disc swing type check valve
2. Design standard: GB/T 12224 API594
3. Face to face: GB/T 15188.2 ASME16.10
4. Flanged ends: JB/T 79、GB/T9113、HG20592 ASME16.5
5. Test & inspection: JB/T9092 API598

Notes: The sizes of valve connecting flange and butt-welding terminas can be designed according to customer's requirement.

主要零件材料/Major Parts Material Form

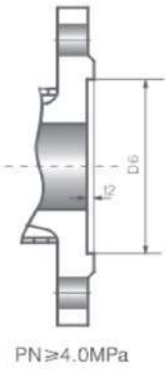
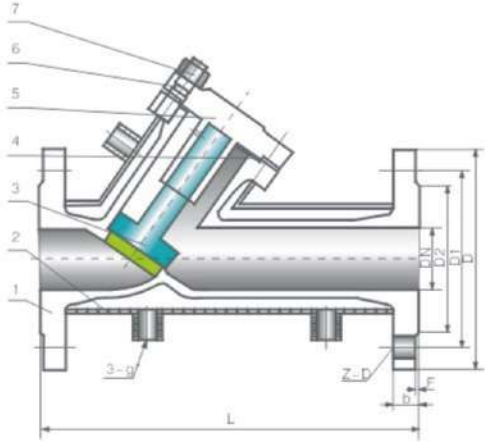
序号 No.	零件名称 Part name	材质 Material
1	阀体 Body	WCB、CF8、CF8M、CF8C、CF3、CF3M
2	阀瓣 Disc	WCB、CF8、CF8M、CF8C、CF3、CF3M
3	销轴 Pivot	1Cr13、2Cr13、1Cr18Ni9Ti、0Cr18Ni12Mo2Ti
4	弹簧 Spring	4Cr13、60Si2Mn、1Cr18Ni9Ti、0Cr18Ni12Mo2Ti

主要外形尺寸及重量/Main Size of Outside & Weight

Class	DN (mm)	NPS (in)	尺寸 Dimensions (mm)		重量 Weight (kg)	Class	DN (mm)	NPS (in)	尺寸 Dimensions (mm)		重量 Weight (kg)	Class	DN (mm)	NPS (in)	尺寸 Dimensions (mm)		重量 Weight (kg)
			L	D					L	D					L	D	
150	50	2	60	103	2	300	50	2	60	110	3.5	600	50	2	60	110	3.5
	65	2 1/2	67	122	3.2		65	2 1/2	67	148	5		65	2 1/2	67	129	5
	80	3	73	135	4		80	3	73	148	7		80	3	73	148	7
	100	4	73	173	6		100	4	73	192	12		100	4	79	192	12
	125	5	86	196	9		125	5	105	240	22.5		125	5	105	240	22.5
	150	6	98	222	12		150	6	136	265	35		150	6	136	265	35
	200	8	127	279	22		200	8	165	319	45		200	8	165	319	45
	250	10	146	339	38		250	10	213	399	77		250	10	213	399	77
	300	12	181	409	54		300	12	229	456	110		300	12	229	456	110
	350	14	184	450	80		350	14	273	489	135		350	14	273	489	135
300	400	16	191	514	118	900	400	16	305	562	163	900	400	16	305	562	163
	450	18	203	549	210		450	18	350	610	210		450	18	350	610	210
	500	20	219	606	240		500	20	400	675	240		500	20	400	675	240
	600	24	222	717	410		600	24	450	762	410		600	24	450	762	410

主要外形尺寸及重量/Main Size of Outside & Weight

PN (MPa)	DN (mm)	尺寸 Dimensions (mm)		重量 Weight (kg)	PN (MPa)	DN (mm)	尺寸 Dimensions (mm)		重量 Weight (kg)	PN (MPa)	DN (mm)	尺寸 Dimensions (mm)		重量 Weight (kg)
		L	D				L	D				L	D	
1.0	50	60	109	2	1.6	50	60	109	2	2.5	50	60	109	2
	65	67	129	3		65	67	129	3		65	67	129	3
	80	73	144	4.2		80	73	144	4.2		80	73	144	4.2
	100	73	164	6.2		100	73	164	6.2		100	73	170	6.2
	125	86	194	7.5		125	86	194	7.5		125	86	197	9
	150	98	220	11.5		150	98	220	11.5		150	98	227	12.5
	200	127	275	20.2		200	127	275	20.2		200	127	287	23
	250	146	330	31		250	146	332	32		250	146	343	40
	300	181	380	48.2		300	181	387	51		300	181	403	55
	350	184	440	72.5		350	184	447	73		350	184	460	82
4.0	400	191	492	104.5	6.4	400	191	498	108	10.0	400	191	518	118
	450	203	542	151		450	203	558	160		450	203	568	212
	500	219	597	180		500	219	620	200		500	219	624	240
	600	222	698	300		600	222	734	320		600	222	734	412



设计标准

1. 设计标准: GB/T12235
 2. 结构长度: GB/T12221
 3. 连接法兰: GB/T9113, JB/T79, HG20596
 4. 试验和检验: GB/T13927, JB/T9092
- 注: 系列阀门连接法兰尺寸可根据用户要求设计等制造。

Design Construction

1. Design standard: GB/T12235
 2. Face to face: GB/T12221
 3. Flanged ends: GB/T9113, JB/T79, HG20596
 4. Test & inspection: GB/T13927, JB/T9092
- Notes: the sizes of serial valve connecting flange can be designed according to customers' requirement.

主要零件材料/Major Parts Material Form

序号 NO	零件名称 Part name	材质 Material
1	阀体 Body	WCB, WC6, WC9, C5, CF8, CF8M, CF3, CF3M
2	夹套 Jacketed	25, 304
3	阀瓣 Disc	25, 1Cr13, 2Cr13, 1Cr18Ni9Ti, 0Cr18Ni12Mo2Ti, 20CrMo1V, 25Cr2MoV
4	垫片 Gasket	柔性石墨 + 不锈钢 Graphite, Stainless steel, PTFE
5	阀盖 Bonnet	WCB, WC6, WC9, C5, CF8, CF8M, CF3, CF3M
6	双头螺柱 Stud	35CrMoA, 0Cr18Ni9, 0Cr17Ni12Mo2, 25Cr2MoV
7	六角螺母 Nut	45, 35CrMoA, 0Cr18Ni9, 0Cr17Ni12Mo2, 25Cr2MoV

主要外形尺寸及重量/Main Size of Outside & Weight

型号Model	BH45H(W、Y)-25/40P (R、RL、RL、I、H、V)																				
	PN2.5MPa										PN4.0MPa										
DN(mm)	L	D	D1	D2	D6	B	F	F2	Z-d	3-g"	L	D	D1	D2	D6	B	F	F2	Z-d	3-g"	
15	200	105	75	55	-	16	2	-	4-14	1/2'	200	105	75	55	51	16	2	4	4-14	1/2'	
20	220	115	85	65	-	16	2	-	4-14	1/2'	220	115	85	65	58	16	2	4	4-14	1/2'	
25	220	135	100	78	-	18	2	-	4-18	1/2'	220	135	100	78	66	18	2	4	4-18	1/2'	
32	250	145	110	85	-	18	3	-	4-18	1/2'	250	145	110	85	76	18	3	4	4-18	1/2'	
40	270	160	125	100	-	20	3	-	4-18	1/2'	270	160	125	100	88	20	3	4	4-18	1/2'	
50	300	180	145	120	-	22	3	-	8-18	3/4"	300	180	145	120	110	22	3	4	8-18	3/4"	
65	350	195	160	135	-	22	3	-	8-18	3/4"	350	195	160	135	121	22	3	4.5	8-18	3/4"	
80	380	230	190	160	-	24	3	-	8-23	3/4"	380	230	190	160	150	24	3	4.5	8-23	3/4"	
100	430	270	220	188	-	28	3	-	8-25	1'	430	270	220	188	176	28	3	4.5	8-25	1'	
125	490	300	250	218	-	30	3	-	8-25	1'	490	300	250	218	204	30	3	4.5	8-25	1'	
150	570	330	280	248	-	32	3	-	12-25	1'	570	350	295	258	234	34	3	4.5	12-30	1'	
200	590	395	340	302	-	36	3	-	12-30	1'	590	415	355	315	287	40	4	4.5	12-34	1'	



Ball Valve Series
球阀系列

高品阀门集团有限公司
THERMAL VALVE GROUP CO.LTD.

结构特点

浮动球阀系我公司在消化吸收国内外先进技术的基础上生产出的优良产品，它具有更新的设计特点，能满足一般工业标准的安全和方便需要。

1. 手动浮动球阀的开、关指示

球体、阀杆、手柄是阀门的运动部件，是一个装配单元，阀杆头部采用扁方结构，能从手柄所处位置很容易辨出阀门是处于开启位置或关闭位置。当手柄或阀杆扁方与管道轴线平行时，阀门处于开启位置；当手柄或阀杆扁方与管道轴线垂直时，阀门处于关闭位置。

2. 阀门锁定装置

为防止误操作阀门，在阀门的全开和全关位置可用锁锁定阀门，特别是安装在野外的阀门或当工艺流程不允许开或关阀门时，为防止其他人员误操作阀门，将阀门位置锁定是很重要的。因此根据用户的需要在阀门设计时加装带锁孔定位片可满足用户的工艺要求。

3. 阀杆防飞出结构

当介质通过阀门时，阀体中腔的压力可能将阀杆推出（或者在维修阀门时，如果中腔有压力，拆卸阀门时阀杆、介质容易飞出，误伤人员）。为防止这种情况发生，在阀杆下部设置一凸台结构。这样，即使火灾时，填料、止推轴承被烧损或其他原因引起填料等损坏，阀体内的介质压力将使阀杆凸台与阀体上密封面紧密接触，防止介质大量从损坏的填料部位出泄漏。

4. 防静电装置

当操作阀门时，由于球体和聚四氟乙烯等非金属材料阀座之间的摩擦，会产生静电电荷并聚集在球体上。为防止产生静电火花，特在阀门上设置防静电装置，将聚集在球体上的电荷通过球体与阀杆、阀杆与阀体之间的静电通道导出。

Structural Features

Float ball valves are superior products developed upon the advanced technology home and abroad. Provided with updated design ideas, they meet the requirements on safety and convenience in general industrial standards.

1. Switch Indication of Hand Operated Float Ball Valve

As the moving parts of valve, ball, valve stem and handle are an assembly unit. The head of valve stem is shaped a diploid, thus to easily distinguish whether valve is in the 'ON' position 'OFF' position from handle position. When handle or stem diploid is in parallel with the pipe axis, valve is in 'ON' position; when handle or stem diploid is vertical to the pipe axis, valve is in 'OFF' position.

2. Valve Locking Device

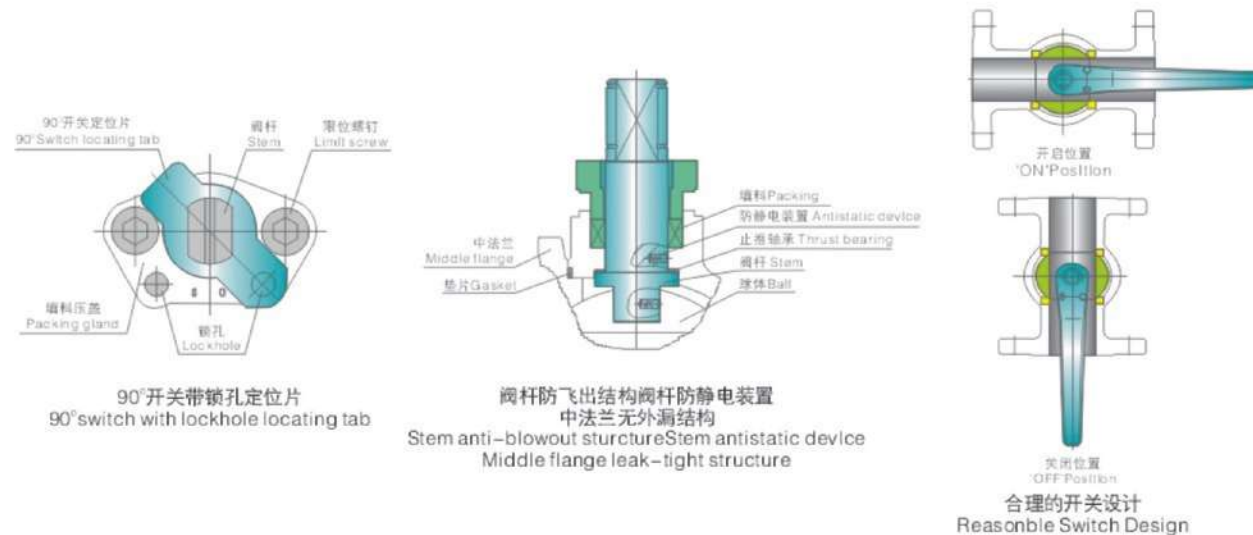
To prevent misoperation, the fully opened or closed position of valve can be locked up, especially when valves are mounted outdoors or when valves are not allowed to be opened or closed by technical process. To prevent misoperation by other persons, it seems very important to have valve position locked up. Thereby, lockhole locating ab is designed if requested by users to meet the technological requirements of users.

3. Anti-flyout Structure of Valve Stem

When medium passes through the valve, the pressure in valve body may possibly push the stem out, or when the valve is repair, if there is pressure in the middle cavity, the stem or medium seems to easily fly out upon disassembling the valve, which can cause injuries to human beings. To prevent these possibilities, a dummy club is placed at the lower part of the stem. In this way, even if there is fire, packing and thrust bearing are burnt or packing is damaged due to other causes, the pressure of medium in valve body will make the dummy club of valve stem in close contact with the upper seal face of valve body, thus to prevent medium leading out from the damaged packing position.

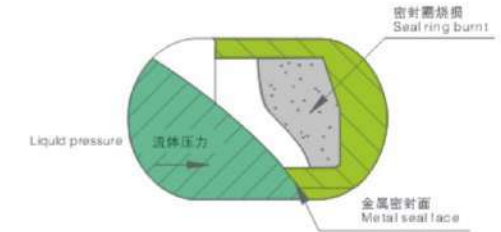
4. Antistatic Device

When operating the valve, the friction between the ball and the nonmetal seat, like PTFE or etc. will produce electrostatic charge that can be accumulated on the ball. To prevent static spark, an antistatic device is placed on the valve to derive the electric charge accumulated on the ball from the static channel between the ball and the stem, or between the stem and valve body.



5. 防火结构

当发生火灾时，填料、阀座等非金属材料（非防火材料）将被烧坏，大量泄漏的介质可能会更加促使火势蔓延、扩大，这是阀门的防火结构可阻挡介质大量泄漏。如图，一旦阀座被烧损，球体将直接与阀体上的金属面接触，从而阻止介质大量从烧损的阀座出泄漏。防火防静电的结构设计应符合 API607、JB/T6899 和 BS6755 第二部分的要求。



浮动球阀防火结构
Fire protection structure of float ball valve

5. Fire Protection Structure

In case of fire, the nonmetal packing or seat (non-fireproof material) will be burnt, the considerable medium leakage may possibly cause fire spread. Here, the fire fire protection structure functions to prevent medium from mass leakage. As shown in the figure, once the seat is burnt, the ball will directly contact the metal face on valve body, thus to prevent medium leaking out from the burnt seat. The design of fire protection and antistatic structure shall conform to the requirements of API607, JB/T6899 and the second part of BS 6755.

6. 中部法兰无外漏结构

阀体与左体的联接部位是靠垫片密封，为防止由于火灾、高温或震动等因素引起的该处密封泄漏，特设计为阀体与左体金属-金属接触，形成止口法兰，保证无外漏。

6. Middle Flange Leak-tight Structure

The connection between valve body and the left body is sealed by gasket. To prevent seal leakage resulted from fire, high temperature or vibration etc. the valve body and the left body is designed metal-to-metal contacted, thus to form up a seal flange to ensure leak-tightness.

7. 可靠的阀座密封结构

公司多年来的球阀制造经验与国际先进技术的结合而设计的双线密封结构，可自然泄压阀座，能保证高、低压和真空状态下的可靠密封。当介质压力运行在低压区时，阀座密封圈与球体接触面积较小，故有较大的密封比压，确保阀座可靠密封，当介质压力运行在较高位时，阀座密封圈与球体的接触面积增大，故阀座密封圈能承受较大的介质推力而不会损坏。

对于工作压力很低的球阀，考虑到介质压力不能确保阀座的可靠密封，而预紧力长期使用后会衰退，故对于低压、超低压或真空工况用球阀，采用球阀，采用板簧加载的阀座密封结构，确保球阀长期可靠的密封。

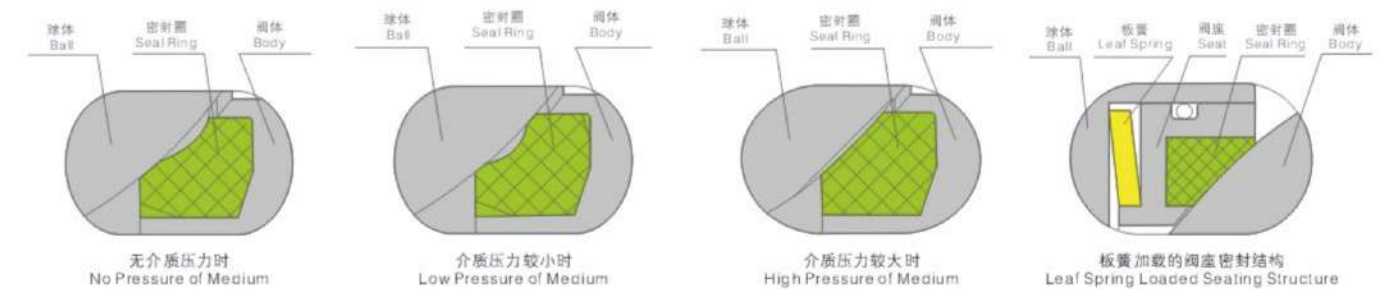
中、高温球阀的阀座密封结构，采用对位聚苯作为密封圈可用于 300°C 的温度，而采用金属密封耐高温组合材料结构设计的球阀可用于更高的温度。这种结构具有单向密封功能。

7. Dependable Seating Structure

The two-way sealing structure embodying the years of our manufacturing experience in ball valves and the internationally advanced technology can release the pressure at valve seat and ensure reliable seal under high or low pressure and vacuum state. When the pressure of medium is low, the contact area between valve seat insert and ball is relatively small, thus providing high sealing load to ensure dependable seating seal. When the pressure of medium is high, the contact area between valve seat insert and ball is relatively large, so that the valve seat insert can endure the considerable medium thrust and cannot be damaged.

Regarding ball valves of very low working pressure, in consideration that the pressure of medium cannot guarantee the dependable seal of valve seat, and that the pretightening force will decrease after a long time of service, so we apply leaf spring loaded seating structure for valves working under low and ultra low pressure or under vacuum conditions, thus to ensure persistent and dependable seal.

The seating structure of medium and high temperature ball valves use PPL for seal ring that can serve a temperature of 300°C. Ball valves with metal seal and high temperature resisting materials can be used to deal with even higher temperature. This structure takes the function of one-way seal.



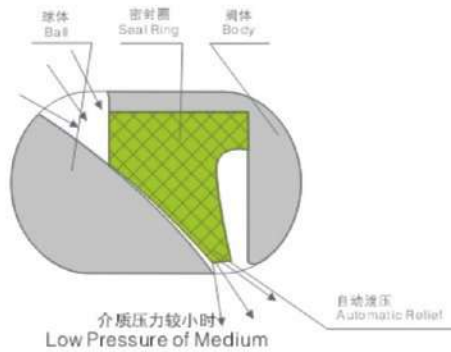
浮动球阀的双斜面弹性密封面
Double Bevel Elastic Seal Ring of Float Ball Valve

8. 自动泄压结构

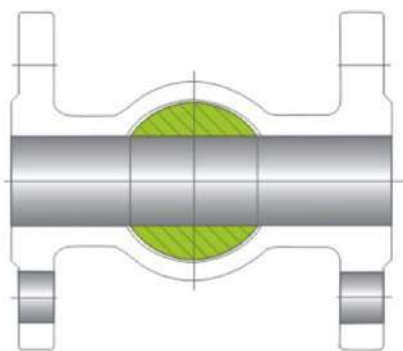
当滞留在阀门中腔的介质由于管道系统压力或介质温度等因素引起的变化,从而出现中腔压力异常升高时,中腔介质能依靠本身的推力推动阀座而自动泄压,从而确保阀门的安全。

9. 全径和缩径

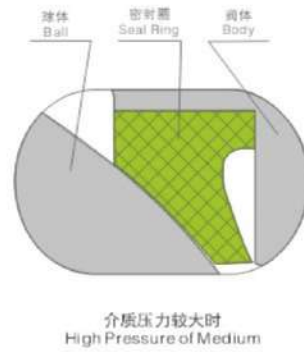
我公司球阀有全径和缩径两个系列,以满足用户的不同需要。全通径球阀的通道内径与管线内径一致,流体阻力最小,并便于管道清扫。而缩径系列球阀的重量只有相同口径球阀的70%左右,能有效降低成本和价格,而其流体阻力系数只有相同口径截止阀的1/7左右,故缩径球阀在国外得到广泛的使用。



浮动球阀V形槽弹性密封圈
V-slot Elastic Seal Ring of Float Ball Valve



全径通道形式
Full-bore Channel Type

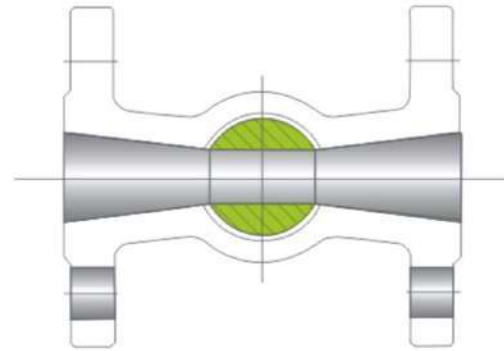


8. Self-relieving S structure

In case of abnormal rise of pressure in the middle caving of valve resulted from the medium left there suffered from changes of pipeline pressure or medium temperature, automatic pressure relief of valve seat can be effected under the pressure of the medium itself, thus to guarantee the safety of valve.

9. Full and Reduced Bore

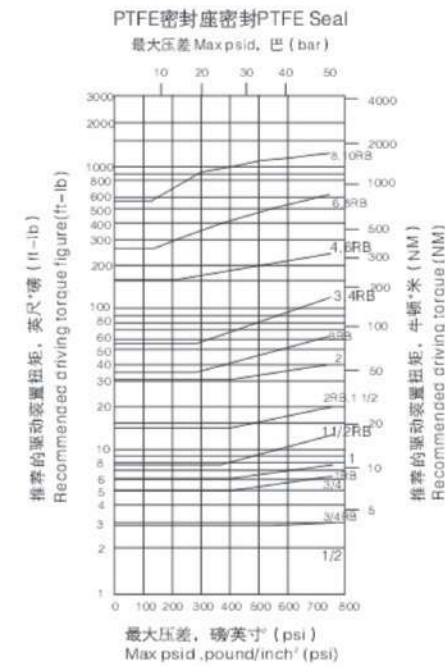
We have ball valves of full and reduced bore to meet users' different needs. Full-bore ball valves have the same inside diameter as that of pipeline, with the lowest fluid resistance for the convenience of cleaning the pipeline. While reduced-bore ball valves weighs only 70% of the full-bore ball valve with the same caliber, a saver of cost and price, and its fluid resistance coefficient is only 1/7 of that of the globe valve with the same caliber, so that reduced-bore valves are widely used abroad.



缩径通道形式
Reduced-bore Channel Type

浮动球阀参考力矩

下列和图形扭矩供选择驱动装置时参考。根据介质的特性,内件及阀门的开启频率尚需作额外因素考虑。使用防腐内件的阀门,用于清洁润滑介质,扭矩可降低20%。而对于苛刻介质,如料浆、颗粒性介质,以及用于氧气,扭矩可能要增加50%。



流量数据表

阀门的流量系数是衡量阀门流通能力的标准，流量系数值越大说明流体流过阀门时的压力损失小。流量系数值随阀门的尺寸、型式、结构而变化，不同类型和不同规格的阀门都要分别进行试验，才能确定该种阀门的流量系数值。对于同样结构的阀门，流体流过阀门的方向不同，流量系数值也有变化。这种变化一般是由于压力恢复不同而造成的。

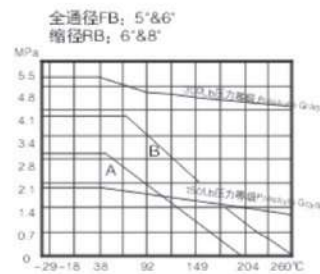
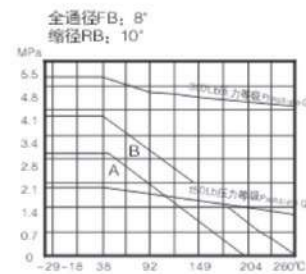
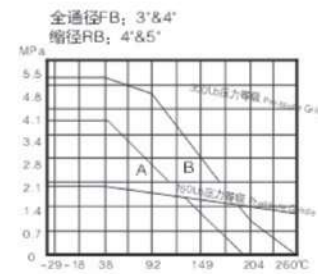
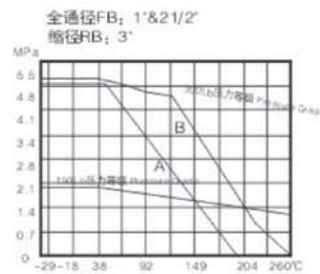
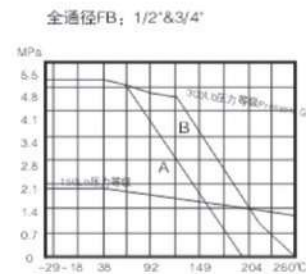
下表为浮动球阀的流量系数。[Cv值表示在1磅英寸² (0.006894757MPa) 压降下+60° F (+16°C) 的水，每分钟流过阀门的美国加伦数。

CV 值/Value

公称 Nominal	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8
通径Size	mm	15	20	25	32	40	50	65	80	100	125	150	200
缩径RB		9	19	45	—	125	165	270	350	550	670	765	1890
全径FB		25	50	100	—	270	490	950	1160	2200	3800	5100	9300

压力—温度额定值

球阀的压力温度额定值不仅与阀体的材料有关，而且与阀座、填料、垫片等密封件有联系。密封件可以是高分子材料、石墨石棉或橡胶等；密封件材料的选择取决于阀门所输送的介质成分、工作温度、工作压力和流速。对于各种不可预知的工况，要准确的确定阀门压力温度额定值是极为困难的。根据我公司长期的阀门制造经验和用户的反馈意见，为此我们为你提供阀门在稳定工况下的压力温度额定值。



A: 纯PTFE
B: 增强PTFE
图中阀体的压力温度曲线为WCB材料，其余壳体材料的压力温度曲线请查询ASME B16.34 最新版本。
A: Pure PTFE
B: RPTFE
The pressure temperature curve is for WCB material other shell material pressure temperature curve, please refer to ASME B16.34 latest version

Flow Coefficient Table

Flow coefficient is an index to measure the flow capacity of a valve. A higher value of flow coefficient means less pressure loss of fluid passing through the valve. The value of flow coefficient varies according to the dimensions, type and structure of valve. Valves of different types and specifications shall be tested separately to make sure of their values of flow coefficient. Regarding valves of the same structure, flow coefficient varies according to the flow direction of fluid through the valve. These differences are caused by different pressure recoveries.

The table below is the flow coefficient of float ball valve. 'Cv' stands for the American gallons flowing through the valve per minute under 1 pound/inch² (0.006894757MPa) pressure drop +60° F (+16°C) water.

Pressure-temperature Rating

The pressure-temperature rating of ball valve is not only related to shell materials, but also to the sealing parts of seat, packing and gasket etc. The materials of sealing parts may be high molecular material, graphite asbestos or rubber etc., which depends on the composition of the medium to be handled, working temperature, working pressure and flow velocity. It is rather difficult to accurately make out the pressure temperature rating of valve under various unpredictable working conditions. Based upon the years of valve manufacturing experience and the precious feedback of users, we can offer you the pressure-temperature rating of valve under stable working conditions.

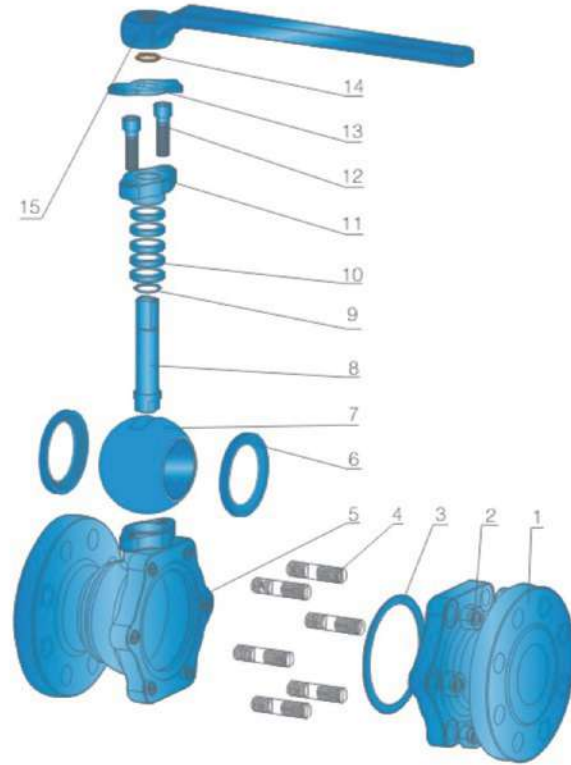
供货范围/Supply Scope

公称通径Nominal Size		压力等级Pressure Grade (class)			
DN	In	150	300	400	600
15	1/2	●/△			
20 × 15	3/4 × 1/2	●/△			
20	3/4	●/△			
25 × 20	1 × 3/4	●/△			
25	1	●/△			
32	1	—			
40 × 32	1 1/2 × 1 1/4	●/△			
40	1 1/2	●/△			
50 × 40	2 × 1 1/2	●/△			
50	2	●/△/★			
65 × 50	2 1/2 × 2	●/△/★			
65	2 1/2	●/△/★			
80 × 65	3 × 2 1/2	●/△/★			
80	3	●/△/★			
100 × 80	4 × 3	●/△/★			
100	4	●/△/★			
125 × 100	5 × 4	●/△/★		/	
125	5	●/△/★		/	
150 × 100	6 × 4	●/△/★		/	
150	6	●/△/★		/	
200 × 150	8 × 6	●/△/★		/	
200	8	●/△/★		/	

注：●表示手柄操作阀门；☆表示齿轮箱操作阀门；△表示气动操作阀门；★表示电动操作阀门；/表示没有此选项，表中未涉及的可按用户的要求制造。
Note: ● stands for handle operated valves; ☆ stands for gearbox operated valves; △ stands for air operated valves; ★ stands for electrically operated valves; / stands for no option of this. Those not covered in the table can be custom made to users' requirements.

产品性能规范/Products Performance Specification

性能规范 Performance Specification		公称压力Nominal Pressure (MPa)					压力等级Pressure Grade (class)			
		1.6	2.5	4.0	6.4	10.0	150	300	400	600
试验压力 Testing Pressure (MPa)	强度试验 Shell test	2.4	3.75	6.0	9.6	15.0	2.93	7.58	10.0	15.0
	密封试验 Seal test	1.76	2.75	4.4	7.04	11.0	2.07	5.52	7.31	11.03
	气压试验Air test	0.6MPa								
适用温度Applicable Temperature		-196°C~550°C (注：不同工况温度，选用不同的材质) Different materials for different Operating temperature								
适用介质 Applicable Medium	普通型 Ordinary type	水、蒸汽、石油、液化气、天然气等 Water, Steam, Petroleum, LPG, Natural gas etc.								
	抗硫型 Antisulphur type	含H ₂ S、CO天然气、石油等 Natural gas containing H ₂ S and CO, petroleum, etc								



设计标准

1. 设计标准: API 6D、BS5351、ASME B16.34、GB/T12237
 2. 结构长度: ASME B16.10、GB/T12221
 3. 法兰尺寸: ASME B16.5、GB/T9113、HG/T 20592
 4. 试验和检验: API 598、JB/T9092
- 注: 系列阀门连接法兰及对接端尺寸可根据用户要求设计制造。

Design Construction

1. Design Standard: API 6D、BS5351、ASME B16.34、GB/T12237
2. Face to Face: ASME B16.10、GB/T12221
3. Flanged size: ASME B16.5、GB/T9113、HG/T 20592
4. Test & Inspection: API 598、JB/T9092

Notes: The sizes of serial valve connecting flange and butt-welding terminal can be designed according to customer's requirement.

主要零件材料/Major Parts Material Form

序号 No.	零件名称 Accessory name	材质Material		
		碳钢系列Carbon Steel Series	不锈钢系列Stainless Steel Series	低温系列Cryogenic Steel Series
1	右体Bonnet	A216 WCB	A351-CF8、CF8M、CF3、CF3M	A352 LCB、LCC
2	螺母Nut	A194 2H	A194 8M	A194 4
3	垫片Gasket	柔性石墨+不锈钢Flexible Graphite+stainless Steel		
4	螺柱Stud	A193-B7 A193-B8 A320 L7M		
5	阀体Body	A216 WCB	A351-CF8、CF8M、CF3、CF3M	A352 LCB、LCC
6	阀座Seat	PTFE、RPTFE、Sintering carbon fibre、Metal+Rubber groupware		
7	球体Ball*	A105+HCr/ENP	A182 F304 A182 F316	A350 LF2 A350 LF3+ENP
8	阀杆Stem**	A182 F6a	A182 F304、316	A182 F6a
9	垫片Gasket	A182 F6a		A182 F6a
10	填料垫片Packing gasket	柔性石墨Flexible graphite、PTFE		
11	填料压盖Gland	A216 WCB	A351 CF8、CF8M	A351 CF8
12	螺钉Screw nail	A193 B7	A193 B8、B8M	A320 L7
13	定位片Locating piece	GB/T 700 Q235A+Zn(Cr)		
14	挡圈Ring	A216 WCB		
15	手柄Wrench	GB/T 1222 65Mn		

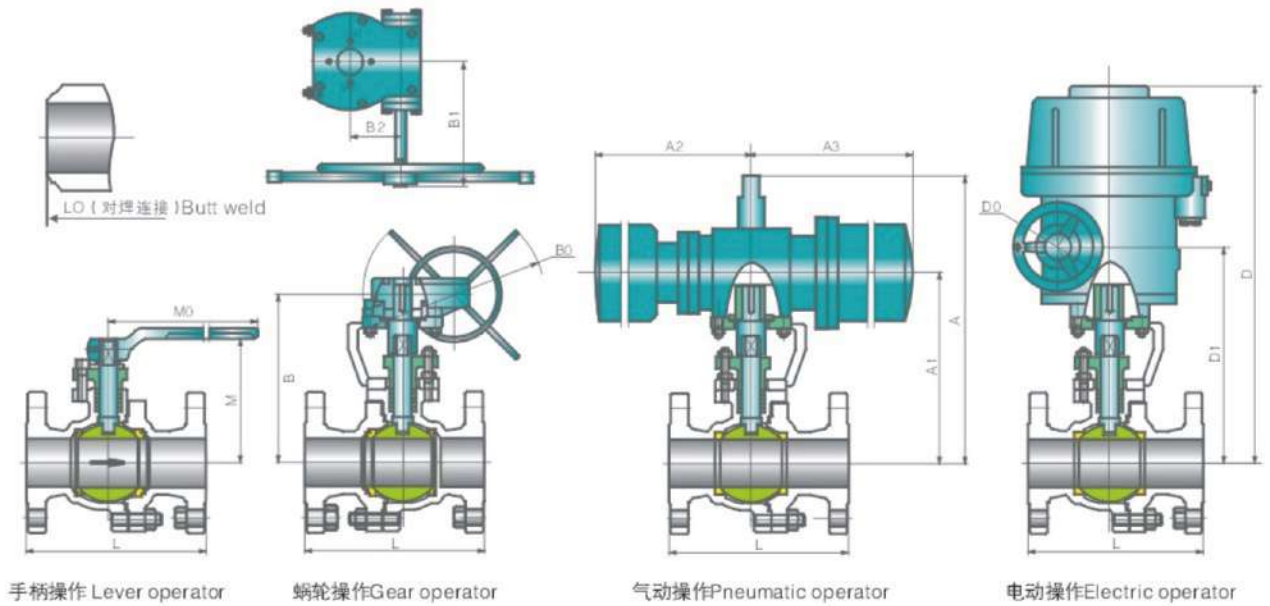
注: *抗硫型阀门的该零件的材质为ASTM(A182-304+Ni.P);

**抗硫型阀门的该零件的材质为ASTM(A276-321);系列阀门主要零部件及密封面的材质可根据实际工况条件或用户特殊要求设计选用。

Notes: *The material of this part about the anti-sulphur type valve is ASTM(A182-304+Ni.P)

**The material of this part about the anti-sulphur type valve is ASTM(A276-321)Major parts of the valve series and materials of sealing surface differ according to actual working condition and customer's special requirement

全径浮动球阀PN1.6MPa CLASS150~PN6.4/10.0MPa CLASS600



主要外形尺寸及重量/Main Size of Outside & Weight

PN1.6MPa CLASS150

DN	mm	15	20	25	40	50	65	80	100	125	150	200
NPS	in	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8
L	RF	108	117	127	165	178	190	203	229	356	394	457
Lo	BW	140	152	165	190	216	241	283	305	381	457	521
手动 Hand-operated	M	59	63	75	95	107	142	152	178	252	272	342
	MO	130	130	160	230	230	400	400	650	1050	1050	1410
蜗轮 蜗杆 Worm gear	B	/	/	/	/	/	/	/	/	/	292	398
	B0	/	/	/	/	/	/	/	/	/	400	600
	B1	/	/	/	/	/	/	/	/	/	350	350
	B2	/	/	/	/	/	/	/	/	/	115.5	115.5
气动 Pneumatic operated	A	200	204	257	264	340	370	389	594	646	646	781
	A1	122	126	162	169	209	239	258	337	437	437	537
	A2	326	326	347	420	426	426	590	523	610	610	885
	A3	136	136	181	181	257	257	257	287	378	378	530
电动 Electric Driving	D	/	/	/	/	472	486	579	595	650	739	799
	D1	/	/	/	/	377	391	484	500	500	589	649
	D0	/	/	/	/	190	190	190	190	400	400	400
重量 Weight Kg (RF)	手动	2.5	3	5	7	10	15	19	33	58	93	160
	气动	10	15.7	19.5	42.8	46.9	50.5	70	92.7	160.7	183.5	276
	电动	/	/	/	/	32	35.6	44	55	93	128	195

注: 连接法兰尺寸、焊接端尺寸见附表 (A、E) Flange dimensions, butt weld dimensions refer to annex A,E.

主要外形尺寸及重量/Main Size of Outside & Weight

PN2.5/4.0MPa CLASS 300

DN	mm	15	20	25	40	50	65	80	100	125	150	200
NPS	in	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8
L	RF	140	152	165	190	216	241	283	305	381	403	502
Lo	BW	140	152	165	190	216	241	283	305	381	457	521
手动 Hand-operated	M	59	63	75	95	107	142	152	178	252	272	342
	MO	130	130	160	230	230	400	400	650	1050	1050	1410
蜗轮 蜗杆 Worm gear	B	/	/	/	/	/	/	/	/	/	292	398
	BO	/	/	/	/	/	/	/	/	/	400	600
	B1	/	/	/	/	/	/	/	/	/	350	421
	B2	/	/	/	/	/	/	/	/	/	115.5	171
气动、液动 Pneumatic hydraulic operated	A	200	204	257	264	340	379	452	594	646	744	920
	A1	122	126	162	169	209	248	295	375	437	500	615
	A3	326	326	347	420	426	426	590	523	610	610	885
	A4	136	136	181	181	257	257	257	287	378	378	530
电动 Electric Driving	D	/	/	/	/	472	486	579	595	650	739	799
	D1	/	/	/	/	377	391	484	500	500	589	649
	D0	/	/	/	/	190	190	190	190	400	400	400
重量 Weight Kg (RF)	手动	3	4	6	11	15	24	30	55	81	118	200
	气动	10	15.7	20	40.9	43.9	51.9	68	99.4	177.5	207.5	381
	电动	/	/	/	/	29	37	42	77	116	143	235

注：连接法兰尺寸、焊接端尺寸见附表（A、E） Flange dimensions, butt weld dimensions refer to annex A, E.

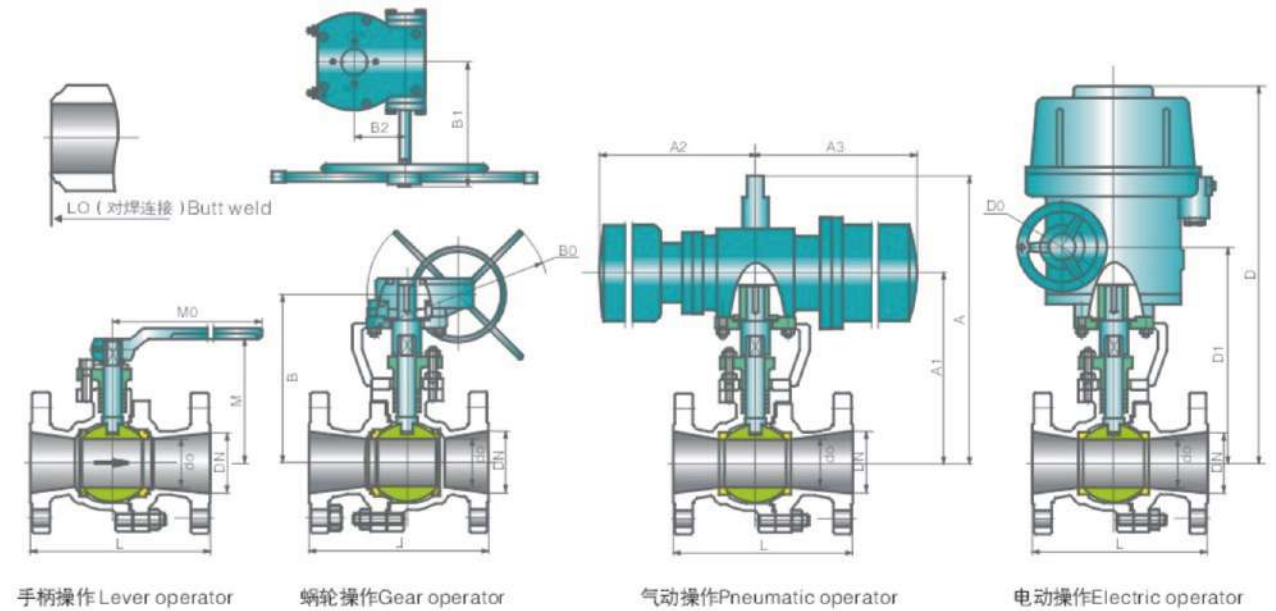
主要外形尺寸及重量/Main Size of Outside & Weight

PN6.4/10.0MPa CLASS 600

DN	mm	15	20	25	40	50	65	80	100
NPS	in	1/2	3/4	1	1 1/2	2	2 1/2	3	4
L	RF	165	190	216	241	292	330	356	406(432)
Lo	BW	165	190	216	241	292	330	356	406(432)
手动 Hand-operated	M	59	63	75	95	142	154	184	209
	MO	160	160	230	400	400	650	650	1050
蜗轮、蜗杆 Worm gear	B	/	/	/	/	/	/	292	398
	BO	/	/	/	/	/	/	400	600
	B1	/	/	/	/	/	/	350	421
	B2	/	/	/	/	/	/	115.5	171
气动、液动 Pneumatic hydraulic operated	A	200	204	241	264	340	379	452	584
	A1	122	145	146	169	209	248	295	375
	A3	283	283	283	350	590	590	523	610
	A4	136	136	181	181	257	257	287	378
电动 Electric Driving	D	/	/	/	/	472	599	599	632
	D1	/	/	/	/	377	4491	449	472
	D0	/	/	/	/	190	190	190	190
重量 Weight Kg (RF)	手动	8	11	15	19	25	32	48	76
	气动	17.2	21	24	32	68	75	101.3	177.5
	电动	/	/	/	/	60	67	83	111

注：表中（）括号内尺寸为PN10.0（CLASS 600）的结构长度。连接法兰尺寸、焊接端尺寸见附表（A、E）
The dimensions in parentheses in above table are the face to face dimensions of PN10.0 (CLASS 600) Flange dimensions, butt weld dimensions refer to annex A, E.

缩径浮动球阀PN1.6MPa CLASS150~PN6.4/10.0MPa CLASS600



主要外形尺寸及重量/Main Size of Outside & Weight

PN1.6MPa CLASS150

DN	mm	20	25	40	50	65	80	100	125	150	200
NPS	in	3/4 x 1/2	1 x 3/4	1 1/2 x 1 1/4	2 x 1 1/2	2 1/2 x 2	3 x 2 1/2	4 x 3	5 x 4	6 x 4	8 x 6
do		15	20	32	40	50	65	80	100	100	150
L	RF	152	165	190	216	241	283	305	381	403	502
Lo	BW	152	165	190	216	241	283	305	381	457	521
手动 Hand-operated	M	59	63	75	95	107	142	152	178	178	272
	MO	130	130	160	230	230	400	400	650	650	1050
蜗轮、蜗杆 Worm gear	B	/	/	/	/	/	/	/	/	/	292
	BO	/	/	/	/	/	/	/	/	/	400
	B1	/	/	/	/	/	/	/	/	/	350
	B2	/	/	/	/	/	/	/	/	/	115.5
气动 Pneumatic operated	A	200	204	257	264	340	379	452	594	594	744
	A1	122	126	162	169	209	248	295	375	375	500
	A2	326	326	347	420	426	426	590	523	523	610
	A3	136	136	181	181	257	257	257	287	287	378
电动 Electric Driving	D	/	/	/	/	472	486	579	595	595	739
	D1	/	/	/	/	377	391	484	500	500	589
	D0	/	/	/	/	190	190	190	190	190	400
重量 Weight Kg (RF)	手动	3	4	7	9	14	19	25	32	40	84.0
	气动	10	15.7	21	40.9	45.9	50.9	68	87.4	95.4	186.5
	电动	/	/	/	/	31	36	42	49	57	119

注：连接法兰尺寸、焊接端尺寸见附表（A、E） Flange dimensions, butt weld dimensions refer to annex A, E.

主要外形尺寸及重量/Main Size of Outside & Weight

PN2.5/4.0MPa CLASS 300

DN	mm	20	25	40	50	65	80	100	125	150	200
NPS	in	3/4 × 1/2	1 × 3/4	1 1/2 × 1 1/4	2 × 1 1/2	2 1/2 × 2	3 × 2 1/2	4 × 3	5 × 4	6 × 4	8 × 6
do		15	20	32	40	50	65	80	100	100	150
L	RF	152	165	190	216	241	283	305	381	403	502
Lo	BW	152	165	190	216	241	283	305	381	457	521
手动 Hand-operated	M	59	63	75	95	107	142	152	178	178	272
	M0	130	130	160	230	230	400	400	650	650	1050
蜗轮、蜗杆 Worm gear	B	/	/	/	/	/	/	/	/	/	292
	B0	/	/	/	/	/	/	/	/	/	400
	B1	/	/	/	/	/	/	/	/	/	350
	B2	/	/	/	/	/	/	/	/	/	115.5
气动、液动 Pneumatic hydraulic operated	A	200	204	257	264	340	379	452	594	594	744
	A1	122	126	162	169	209	248	295	375	375	500
	A3	326	326	347	420	426	426	590	523	523	610
	A4	136	136	181	181	257	257	257	287	287	378
电动 Electric Driving	D	/	/	/	/	472	486	579	595	595	739
	D1	/	/	/	/	377	391	484	500	500	589
	D0	/	/	/	/	190	190	190	190	190	400
重量Weight Kg (RF)	手动	3	4	7	9	14	19	25	32	40	84.0
	气动	10	15.7	21	40.9	45.9	50.9	68	87.4	95.4	186.5
	电动	/	/	/	/	31	36	42	49	57	119

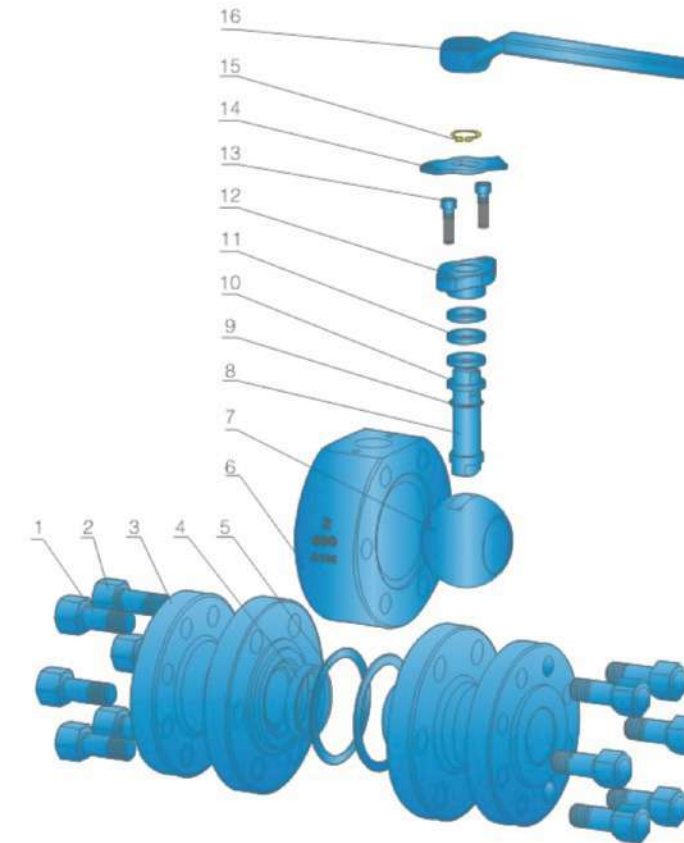
注：连接法兰尺寸、焊接端尺寸见附表 (A、E) Flange dimensions, butt weld dimensions refer to annex A, E.

主要外形尺寸及重量/Main Size of Outside & Weight

PN6.4/10.0MPa CLASS 600

DN	mm	20	25	40	50	65	80	100	150
NPS	in	3/4 × 1/2	1 × 3/4	1 1/2 × 1 1/4	2 × 1 1/2	2 1/2 × 2	3 × 2 1/2	4 × 3	6 × 4
do		15	20	32	40	50	65	80	100
L	RF	190	216	241	292	330	356	406(432)	495(559)
Lo	BW	190	216	241	292	330	356	406(432)	495(559)
手动 Hand-operated	M	59	63	75	95	142	154	184	209
	M0	160	160	230	400	400	650	650	1050
蜗轮、蜗杆 Worm gear	B	/	/	/	/	/	/	292	398
	B0	/	/	/	/	/	/	400	600
	B1	/	/	/	/	/	/	350	421
	B2	/	/	/	/	/	/	115.5	171
气动、液动 Pneumatic hydraulic operated	A	200	204	241	264	340	379	452	584
	A1	122	145	146	169	209	248	295	375
	A3	283	283	283	350	590	590	523	610
	A4	136	181	181	181	257	257	287	378
电动 Electric Driving	D	/	/	/	/	472	599	599	632
	D1	/	/	/	/	377	4491	449	472
	D0	/	/	/	/	190	190	190	190
重量Weight Kg (RF)	手动	8	11	15	19	25	48	76	85
	气动	15	22.7	29	33	39	91	119	187.5
	电动	/	/	/	/	60	83	111	120

注：连接法兰尺寸、焊接端尺寸见附表 (A、E) Flange dimensions, butt weld dimensions refer to annex A, E.



设计标准

1. 设计标准: API 6D、BS5351、ASME B16.34、GB/T12237
2. 结构长度: ASME B16.10、GB/T12221
3. 法兰尺寸: ASME B16.5、GB/T9113、HG/T 20592
4. 试验和检验: API 598、JB/T9092

注：系列阀门连接法兰及对焊端尺寸可根据用户要求设计制造。

Design Construction

1. Design Standard: API 6D、BS5351、ASME B16.34、GB/T12237
2. Face to Face: ASME B16.10、GB/T12221
3. Flanged size: ASME B16.5、GB/T9113、HG/T 20592
4. Test & Inspection: API 598、JB/T9092

Notes: The sizes of serial valve connecting flange and butt-welding terminal can be designed according to customer's requirement.

主要零件材料/Major Parts Material Form

序号 No.	零件名称 Accessory name	材质Material ASTM	序号 No.	零件名称 Accessory name	材质Material ASTM
1	垫片Gasket	柔性石墨+不锈钢 Flexible graphite+stainless steel	9	垫片Gasket	PTFE
2	阀座Seat	PTFE	10	填料垫Packing seat	A276-410
3	右体Bonnet	A105	11	填料Packing	柔性石墨Flexible graphite
4	螺母Nut	A194-2H	12	填料压盖Gland	A216-WCB
5	螺栓Stud	A193-B7	13	螺栓Bolt	A193-B7
6	阀体Body	A105	14	定位片Locating piece	Carbon steel
7	球体Ball*	A105+ENP	15	挡圈Ring	AISI 1566
8	阀杆Stem**	A182-F6a	16	手柄Wrench	A47-667 32510

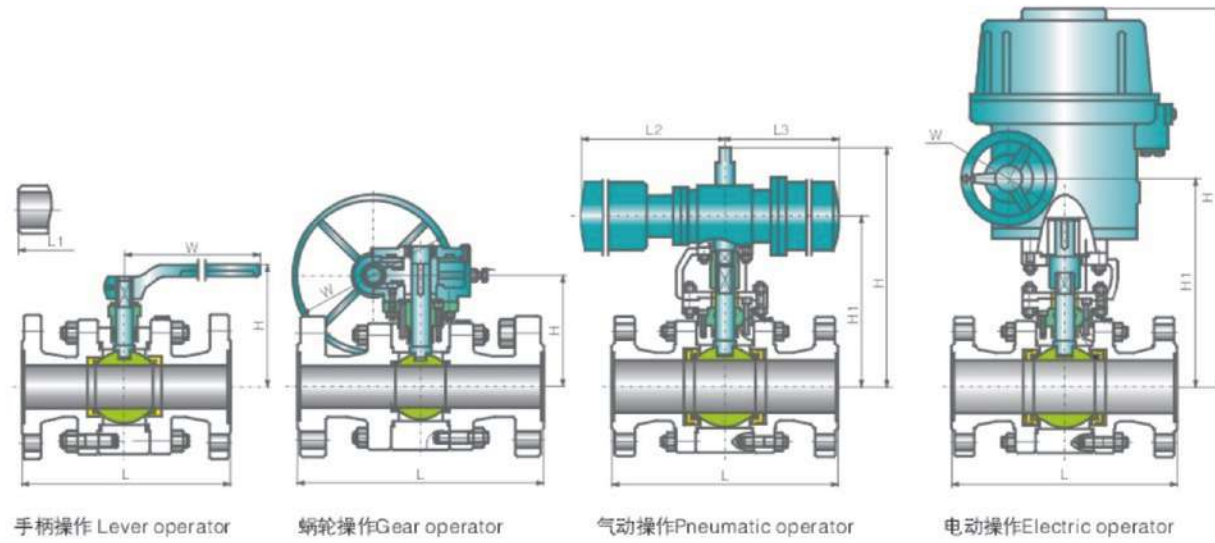
注：*抗硫型阀门的该零件的材质为ASTM(A182-304+Ni.P)；

**抗硫型阀门的该零件的材质为ASTM(A276-321)；系列阀门主要零部件及密封面的材质可根据实际工况条件或用户特殊要求设计选用。

Notes: *The material of this part about the anti-sulphur type valve is ASTM(A182-304+Ni.P)

**The material of this part about the anti-sulphur type valve is ASTM(A276-321) Major parts of the valve series and materials of sealing surface differ according to actual working condition and customer's special requirement

浮动式锻钢球阀PN1.6MPa CLASS150~PN6.4/10.0MPa CLASS600



主要外形尺寸及重量/Main Size of Outside & Weight

PN1.6MPa CLASS 150

DN	mm	15	20	25	40	50	65	80	100	125	150	200
NPS	in	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8
法兰Flange	L	108	117	127	165	178	190	203	229	356	394	457
对焊Butt Welding	L1	140	152	165	190	216	241	282	305	381	403	419
手动 Hand-operated	H	73	78	86	102	130	142	191	200	226	242	285
	W	130	130	160	180	230	400	400	460	750	750	900
Kg		3	4	6	12	15	19	22	46	65	85	127
蜗轮 蜗杆 传动 Worm gear operated	H	-	-	-	-	-	-	-	-	-	260	300
	W	-	-	-	-	-	-	-	-	-	400	600
	型号Type	-	-	-	-	-	-	-	-	-	A	B
	Kg	-	-	-	-	-	-	-	-	-	110	175
气动 Pneumatic operated	H	203	234	242	326	354	366	415	485	607	623	742
	H1	125	139	147	195	223	235	284	328	398	414	498
	L2	326	326	347	420	426	426	590	523	610	610	885
	L3	136	136	181	181	257	257	257	287	378	378	530
	型号Type	AG06	AG09	AG09	AG13	AG13	AG13	AG13	AW13	AW17	AW17	AW20
	Kg	6.1	6.3	8.1	14.1	16.6	38.0	42.1	53.0	93.5	105.2	207.8
电动 Electric Driving	H	-	-	-	-	432	443	454	493	574	646	678
	H1	-	-	-	-	337	348	359	398	424	496	528
	W	-	-	-	-	190	190	190	190	400	400	400
	型号Type	-	-	-	-	Q60-1	Q60-1	Q60-1	Q60-1	Q120-1	Q120-1	Q120-1
	Kg	-	-	-	-	23	25	60	75	97	162	226

主要外形尺寸及重量/Main Size of Outside & Weight

PN2.5/4.0MPa CLASS 300

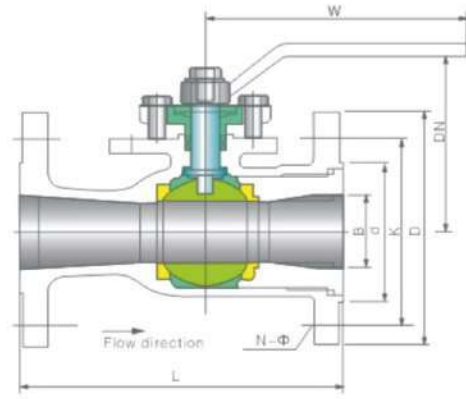
DN	mm	15	20	25	40	50	65	80	100	125	150	200
NPS	in	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8
法兰Flange	L	140	152	165	190	216	241	282	305	381	403	502
对焊Butt Welding	L1	140	152	165	190	216	241	282	305	381	403	502
手动 Hand-operated	H	73	80	86	102	136	164	191	223	240	253	307
	W	140	140	180	230	240	400	400	750	750	900	1000
Kg		4	6	6.8	11.2	18.3	32	38	78	85	102	125
蜗轮 蜗杆 传动 Worm gear operated	H	-	-	-	-	-	-	-	-	-	325	387
	W	-	-	-	-	-	-	-	-	-	400	600
	型号Type	-	-	-	-	-	-	-	-	-	A	B
	Kg	-	-	-	-	-	-	-	-	-	148	196
气动 Pneumatic operated	H	204	236	242	326	359	388	415	508	621	675	824
	H1	126	141	147	195	228	257	284	351	412	466	580
	L2	326	326	347	420	426	426	590	523	610	610	885
	L3	136	136	181	181	257	257	257	287	378	378	530
	型号Type	AG06	AG09	AG09	AG13	AG13	AG13	AG13	AW13	AW17	AW17	AW20
	Kg	6.2	6.4	8.5	16.9	20.6	42.5	52.7	77.9	107.0	130	220
电动 Electric Driving	H	-	-	-	-	432	443	454	493	574	646	678
	H1	-	-	-	-	337	348	359	398	424	496	528
	W	-	-	-	-	190	190	190	190	400	400	400
	型号Type	-	-	-	-	Q60-1	Q60-1	Q60-1	Q60-1	Q120-1	Q120-1	Q120-1
	Kg	-	-	-	-	23	35	60	75	100	170	245

主要外形尺寸及重量/Main Size of Outside & Weight

PN 6.4/10.0MPa CLASS 600

DN	mm	15	20	25	40	50	65	80	100
NPS	in	1/2	3/4	1	1 1/2	2	2 1/2	3	4
法兰Flange	L	165	190	216	241	292	330	356	406(432)*
对焊Butt Welding	L1	165	190	216	241	292	330	356	406(432)
手动 Hand-operated	H	73	80	86	110	142	171	185	220
	W	160	160	230	400	400	650	650	800
Kg		4.5	6.2	7.5	12.5	26.1	38	44	65
蜗轮 蜗杆 传动 Worm gear operated	H	-	-	-	-	-	-	182	217
	W	-	-	-	-	-	-	280	400
	型号Type	-	-	-	-	-	-	O	A
	Kg	-	-	-	-	-	-	50	95
气动 Pneumatic operated	H	229	236	242	266	366	395	470	601
	H1	134	141	147	171	235	264	313	392
	L2	283	283	283	350	590	590	523	610
	L3	136	181	181	181	257	257	287	378
	型号Type	AG09	AG09	AG09	AG09	AG13	AG13	AG13	AW17
	Kg	6.5	6.8	9.3	17.8	33.6	45.1	55.3	81.3
电动 Electric Driving	H	-	-	-	-	500	520	545	558
	H1	-	-	-	-	350	370	395	408
	W	-	-	-	-	190	190	190	190
	型号Type	-	-	-	-	Q120-1	Q120-1	Q120-1	Q120-1
	Kg	-	-	-	-	26	41	72	92

表中*()内的尺寸是PN10.0MPa Class 600. The dimension in parentheses is for PN 10.0 MPa. Class 600



主要零件材料/Major Parts Material Form

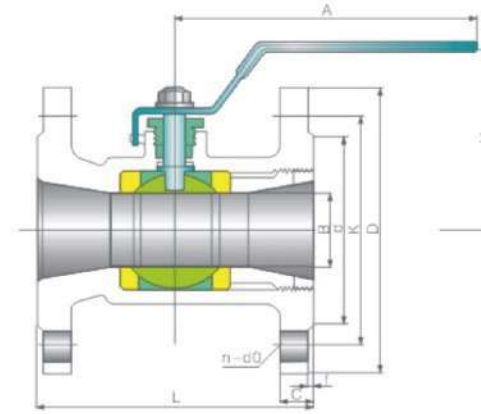
零件名称 Description of parts	C	P	R
阀体Body	WCB	1Cr18Ni9Ti CF8	1Cr18Ni12Mo2Ti CF8M
阀盖Bonnet	WCB	1Cr18Ni9Ti CF8	1Cr18Ni12Mo2Ti CF8M
球体Ball	1Cr18Ni9Ti 304	1Cr18Ni9Ti 304	1Cr18Ni12Mo2Ti 316
阀杆Stem	1Cr18Ni9Ti 304	1Cr18Ni9Ti 304	1Cr18Ni12Mo2Ti 316
密封圈Sealing	聚四氟乙烯 Poly tetra fluor ethylene(PTFE)		
填料Packing	聚四氟乙烯 Poly tetra fluor ethylene(PTFE)		

主要性能规范/Main Performance Parameter

公称压力 Nominal pressure	PN	Class150/300	
强度试验压力(MPa) Strength testing pressure	PT	3.0/7.5	
低压密封试验压力(MPa) Seat testing pressure(Low pressure)	0.6		
高压密封试验压力(MPa) Seat testing pressure (High pressure)	2.2/5.5		
适用介质 Applicable media	C	P	R
	水、油品、气 Water、Oil、Steam	硝酸类 Nitric acid	醋酸类 Acetic acid
适用温度 Applicable Temperature	-40~180℃		

主要外形尺寸及重量/Main Size of Outside & Weight

SIZE	B	W	L	D	K	N-Φ
1/2	15	120	108	89	60.5	4 × 15
3/4	20	120	117	98	70	4 × 15
1	25	140	127	108	79.5	4 × 15
1 1/4	32	160	140	117	89	4 × 15
1 1/2	40	180	165	127	98.5	4 × 15
2	50	200	178	152	120.5	4 × 19
2 1/2	65	240	190	78	139.5	4 × 19
3	80	260	203	190	152.5	4 × 19
4	100	320	229	229	190.5	8 × 19
5	125	600	356	254	216	8 × 22
6	150	600	394	279	241.3	8 × 22
8	200	800	457	343	298.5	8 × 25
10	250	1000	533	406	362	12 × 25
12	300	1200	610	483	431.8	12 × 25



主要零件材料/Major Parts Material Form

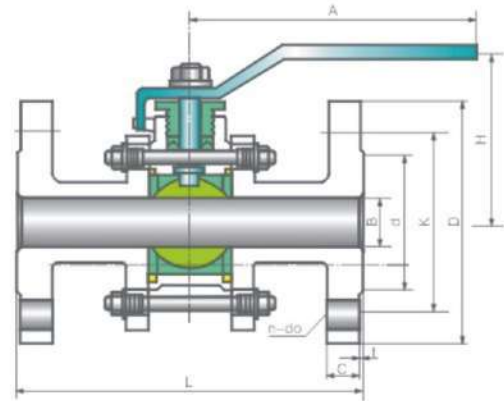
零件名称 Description of parts	C	P	R
阀体Body	WCB	1Cr18Ni9Ti CF8	1Cr18Ni12Mo2Ti 316
球体Ball	1Cr18Ni9Ti 304	1Cr18Ni9Ti 304	1Cr18Ni12Mo2Ti 316
阀杆Stem	1Cr18Ni9Ti 304	1Cr18Ni9Ti 304	1Cr18Ni12Mo2Ti 316
密封圈Sealing	聚四氟乙烯 Poly tetra fluor ethylene(PTFE)		
填料Packing	聚四氟乙烯 Poly tetra fluor ethylene(PTFE)		

主要性能规范/Main Performance Parameter

公称压力 Nominal pressure	PN	1.6,2.5,4.0,6.4	
强度试验压力(MPa) Strength testing pressure	PT	2.4,3.8,6.0,9.6	
低压气密封试验压力(MPa) Seat testing pressure(Low pressure)	0.6		
高压密封试验压力(MPa) Seat testing pressure(High pressure)	1.8,2.8,4.4,7.1		
适用介质 Applicable media	C	P	R
	水、油品、气 Water、Oil、Steam	硝酸类 Nitric acid	醋酸类 Acetic acid
适用温度 Applicable Temperature	-40~180℃		

主要外形尺寸及重量/Main Size of Outside & Weight

DN	B	L	D	K	d	C	F	H	A	N-do
15	12	90	95	65	46	14	2	60	110	4-14
20	15	105	105	75	56	14	2	65	120	4-14
25	20	110	115	85	65	15	2	75	150	4-14
32	25	125	135	100	76	16	3	83	160	4-18
40	32	136	145	110	85	18	3	90	160	4-18
50	38	155	160	125	100	18	3	100	180	4-18
65	50	170	180	145	118	20	3	110	200	4-18
80	65	200	195	160	132	20	3	130	250	8-18
100	80	230	215	180	150	22	3	150	270	8-18



主要零件材料/Major Parts Material Form

零件名称 Description of parts	C	P	R
阀体Body	WCB	1Cr18Ni9Ti CF8	1Cr18Ni12Mo2Ti CF8M
阀盖Bonnet	WCB	1Cr18Ni9Ti CF8	1Cr18Ni12Mo2Ti CF8M
球体Ball	1Cr18Ni9Ti 304	1Cr18Ni9Ti 304	1Cr18Ni12Mo2Ti 316
阀杆Stem	1Cr18Ni9Ti 304	1Cr18Ni9Ti 304	1Cr18Ni12Mo2Ti 316
密封圈Sealing	聚四氟乙烯 Poly tetra fluor ethylene(PTFE)		
填料Packing	聚四氟乙烯 Poly tetra fluor ethylene(PTFE)		

主要性能规范/Main Performance Parameter

公称压力 Nominal pressure	PN	1.6,2.5,4,0.6,4		
强度试验压力(MPa) Strength testing pressure	PT	2.4,3.8,6,0.9,6		
低压气密封试验压力(MPa) Seat testing pressure(Low pressure)	0.6			
高压密封试验压力(MPa) Seat testing pressure(High pressure)	1.8,2.8,4,4,7,1			
适用介质 Applicable media	C	P	R	
	水、油品、气 Water、Oil、Steam	硝酸类 Nitric acid	醋酸类 Acetic acid	
适用温度 Applicable Temperature	-40~180℃			

主要外形尺寸及重量/Main Size of Outside & Weight

DN	B	A	H	PN	ANSI	16					40					150Lb				
				L	D	K	d	C	n-do	D	K	d	C	n-do	D	K	d	C	n-do	
15	10	125	75	35		95	65	45	14	4-14	95	65	45	14	4-14	89	60.5	35	11	4-15
20	11	140	80	37		105	75	58	16	4-14	105	75	58	16	4-14	98	70	43	12	4-15
25	12	140	85	42		115	85	68	16	4-14	115	85	68	16	4-18	108	79.5	51	13	4-15
32	14	170	100	53		135	100	78	16	4-18	135	100	78	16	4-18	117	89	64	13	4-15
40	16	200	110	62		160	110	88	16	4-18	160	110	88	16	4-18	127	98.5	73	15	4-15
50	17	220	120	78		180	125	102	18	4-18	180	125	102	18	4-18	152	120.5	92	16	4-19
65	18	280	130	90		185	145	122	18	4-18	185	145	122	18	4-18	178	139.5	105	18	4-19
80	18	300	140	110		200	160	138	20	8-18	200	160	138	20	8-18	190	152.5	127	20	4-19
100	19	340	160	134		215	180	158	20	8-18	215	180	162	20	8-22	229	190.5	157	24	8-19

固定球阀结构特点

1. 自动泄压结构

当中腔压力出现异常升高现象时，单密封结构的球阀具有自动泄压机能，而双密封结构的球阀则由阀体上的附加泄压装置进行泄压。

2. 密封的紧急救护

阀门设计有辅助的阀座紧急密封系统，如图所示。一旦软密封受损，或出现紧急情况下而不能密封时，通过向辅助密封系统注射相应的密封剂即可进行紧急密封。紧急密封装置在必要时也可用来对阀座区域进行冲洗润滑，以保持其清洁。同样阀杆也可设计有辅助的紧急密封系统。

3. 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 607 及 GB/T 6899 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。

4. 防静电结构

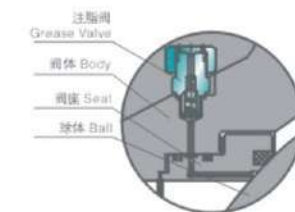
当操作阀门时，由于球体和阀座之间的摩擦，会产生静电电荷并积聚在球体上。为防止产生静电火花，特在阀门上设置防静电装置，将积聚在球体上的电荷导出（如图所示）。

5. 锁定装置

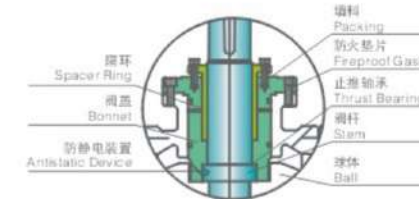
在手动球阀的全开、全闭两点位置上设计可上锁的结构，这样，可防止误操作以及不可预知的线路振动而产生的不应有的开关现象，特别是在可燃性介质的石油类和化学药品的生产线，以及阀门在室外配管时，这种设计体现出的优点和实际效果特别好。

6. 全通径结构及缩径结构

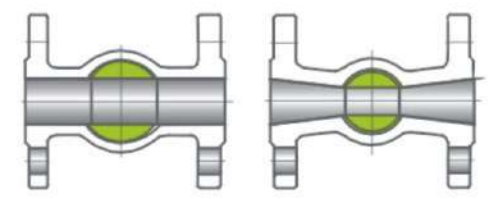
为满足用户的不同需要，本公司球阀产品有全通径及缩径两种系列（如图所示）。全通径球阀的通道内径与管道内径一致，便于管道清扫，而缩径系列球阀的重量相对较轻，但流体阻力仅为相同口径截止阀的 1/7 左右，故缩径系列球阀的应用前景较为广阔。



阀座辅助密封
Sealing Auxiliary Seal



阀杆飞出结构/阀杆防静电装置/阀盖无外漏结构
Stem Anti-blowout Structure Stem Antistatic Device Bonnet Leak-tight Structure



全径流道形式
Full-bore Channel Type

缩径流道形式
Reduced-bore Channel Type

Structural Features of Fixed Ball Valve

1. Self-relieving Structure

In case of abnormal rise of pressure at middle cavity, ball valve of single seal structure is provided with self-relieving function, while ball valve of dual seal structure uses the auxiliary pressure relief device on valve body to carry out pressure relief.

2. Emergency Seal System

The valve is designed with an auxiliary seating emergency seal system, as shown in the figure. In case of soft seal damaged, or failure of seal in an emergency circumstances, emergency seal may be effected by injecting in sealant through auxiliary sealing system if needed, emergency seal assembly can be used to rinse and lubricate the seating area. Plus, valve stem can also be designed with an auxiliary emergency sealing system.

3. Fire Safe Design

The ball valve can be fire, safe design according to working circumstances and customers' needs. The fireproofing design of ball valve is to the the standards of API 607 and GB/T 6899. In case of soft seal ring burnt in fire, the fire protection structure of ball valve functions to prevent mediums from mass leakage, thus to avoid fire spreading.

4. Antistatic Structure

When operating the valve, the friction between the ball and seat will produce electrostatic charge that can be accumulated on the ball. To prevent static spark, an antistatic device is placed on the valve to derive the electric charge accumulated on the ball (as shown in the figure).

5. Locking Device

To prevent misoperation and the unexpected open or close caused by the unpredicted circuit vibration, a locking device is designed at the fully opened and closed positions of hand operated ball valve. This design is proven to be especially good and effective in the production line of inflammable mediums of petroleum and chemicals, or when valves are mounted outdoors.

6. Full And Reduced Bore Structure

To meet the different requirements of users, we have full and reduced bore ball valves series (as shown in the figure). Full bore ball valve is for convenience of cleaning, while reduced-bore series ball valve is comparatively lighter in weight, but fluid resistance is only 1/7 of that of globe valve of the same caliber, so reduced-bore ball valves boast of wider prospects.

7. 阀体的泄放装置

根据用户要求或装置系统要求，球阀的阀体上安装有排泄阀。一旦阀门的两端被封闭，阀腔内的积压可通过阀体的排泄阀进行排放，它具有双截止与泄放（DBB）功能。阀体的泄放阀的另一种功能是通过它可对阀体内的长期淤积物进行冲洗与排放。

8. 防腐蚀

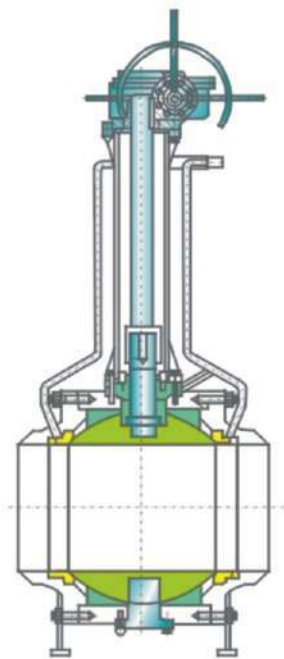
阀体壁厚设计时留有一定的腐蚀余量，碳钢阀门阀杆、固定轴、球体、阀座及底盖均按ASTM B733和B656进行表面化学镀层。此外尚有多种防腐蚀材料供用户选择。阀门外表使用G“国际标准”的油漆，满足了各种环境条件的要求。

9. 抗硫化应力裂化

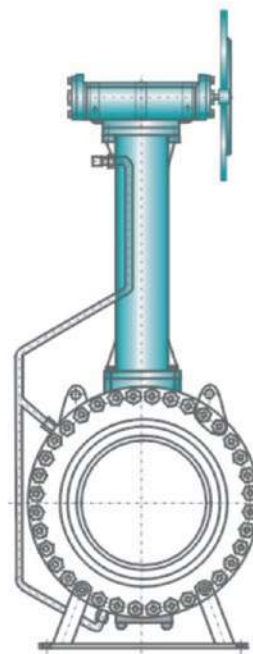
我公司生产系列抗硫球阀，阀门接触介质的材料（包括紧固件）都是按美国腐蚀工程师协会标准NACE Mr0175的要求进行选择，并在制造过程中作严格的质量控制和质量检测，以求完全符合标准的规定，并满足硫化环境工况的工艺要求。

10. 加长杆装置

对于埋地球阀，可提供加长装置，加长装置包括阀杆、注油脂阀、排泄阀等的加长。如右图，用户应在订单中说明加长要求和长度（长度一般是指阀门通道中心至操作装置中心的距离）。



加长杆装置
Extension bar device



泄放装置
Discharge Device

7. Discharge Device On Valve Booy

According to user or device system requirement, discharge valve Will be mounted on the body of ball valve. In case the two ends of valve have been sealed, the pressure in valve will be released through the discharge valve on the body. Besides the function of DBB, this discharge valve also functions to rinse and blow out the deposits inside valve body.

8. Corrosion Resistance

Corrosion allowance is left for the design of body thickness, the stem, fixed shaft, ball, seat and bottom cover of carbon steel valve are all chemical plated in surface to ASTM B733 and B656. Use of paint from international standard to deal with all kinds of conditions.

9. Sulfide Stress Cracking Resistance

The materials exposed to fluid of our sulfur resisting ball valves including fastening components are all selected to NACE Mr0175, and rigorous quality control and inspection is implemented in the manufacturing process to make our products conformed to the standard and suitable for vulcanizing conditions.

10. Extension Bar Device

Extension device may be provided for buried ball valves, which include the extension of valve stem, greasing valve and discharge valve. As shown in the figure on the right, users shall specify the requirements and length to be extended (The length is generally the distance from the center of valve channel to the center of operating device).

固定球阀力矩表(N.M)

下表所列的扭矩值供选择驱动装置时参，介质的特性，内件及阀门的开启频率尚需作额外因素考虑。如使用防腐内件，用于清洁润滑介质的阀门，扭矩可降低20%。而对于苛刻介质，如料浆、颗粒性介质，以及用于氧气，扭矩可能要增加50%。对于缩径阀门的操作扭矩按其缩口所对应的通径的阀门操作扭矩选用。

Trunnion Mounted Ball Valve Torque Form

The torque figure listed below are for the reference to choose a drive device. The properties of medium, trims and valve open frequency shall be considered as extra factors. For instance, valves with corrosion-resistant trims to deal with clean lubricating mediums, their torque may be lowered by 20%. However, to deal with stringent mediums like slurry, granular medium and oxygen, the torque may be increased by 50%. The operating torque for reduced bore valves is subject to the corresponding full bore diameter valve.

通径Nominal		压力Pressure PN(Mpa)					CLASS						
DN	in	1.6	2.5	4.0	6.4	10.0	150	300	400	600	900	150	2500
50	2	25	30	50	100	190	57	99	/	168	228	390	589
65	2 1/2	50	60	100	200	360	/	/	/	/	/	/	/
80	3	65	80	150	300	460	122	212	/	360	512	831	1577
100	4	125	140	250	400	770	192	335	467	572	946	1524	1965
125	5	250	300	450	650	1050	/	/	/	/	/	/	/
150	6	340	400	585	890	1980	274	544	650	912	1784	2934	5501
200	8	485	680	996	1500	3280	832	1250	1806	2177	4116	7215	11786
250	10	810	1140	1690	2560	5250	1105	1736	2638	3093	5910	11128	13222
300	12	1310	1870	2800	4290	7200	1502	2388	2929	4282	10137	16103	20075
350	14	1910	2740	4110	6320	9860	1946	3224	3971	7458	14141	24518	/
400	16	2860	4150	6300	9750	14500	3164	5139	6307	9310	18866	29630	/
450	18	4500	6500	8900	13500	16900	3793	6194	7609	14639	22400	34392	/
500	20	5860	7800	12000	18600	19000	4769	7826	9623	20011	28544	40198	/
550	22	/	/	/	/	/	5695	9454	11651	24785	42427	/	/
600	24	8920	13210	20380	31820	42500	7529	12958	15900	31226	43276	65351	/
650	26	/	/	/	/	/	8693	14394	17727	35184	47580	/	/
700	28	13320	19380	30670	48020	58000	9832	15620	20182	38987	52486	/	/
750	30	/	/	/	/	/	11172	18703	23086	41832	56210	/	/
800	32	24000	35420	55200	68830	82000	12494	21030	25985	45199	60849	/	/
850	34	/	/	/	/	/	21148	31558	33000	48401	65244	/	/
900	36	34960	52870	82700	134000	/	22987	34170	36045	52262	70355	/	/
1000	40	43420	66700	102820	162210	/	26059	39115	43990	60197	/	/	/
1050	42	/	/	/	/	/	28149	42414	50300	65496	/	/	/
1200	48	/	/	/	/	/	42776	71868	80302	118938	/	/	/
1350	54	/	/	/	/	/	70276	91238	116000	144342	/	/	/
1400	56	/	/	/	/	/	85654	108550	129900	169230	/	/	/
1500	60	/	/	/	/	/	116000	122820	178200	216270	/	/	/

产品性能规范/Products Performance Specification

性能规范 Performance Specification		公称压力Nominal Pressure (MPa)					压力等级Pressure Grade (class)						
		1.6	2.5	4.0	6.4	10.0	150	300	400	600	900	1500	2500
试验压力 Testing Pressure (Mpa)	强度试验Shell test	2.4	3.75	6.0	9.6	15.0	2.93	7.58	10.0	15.0	22.5	37.5	63.0
	密封试验Seal test	1.76	2.75	4.4	7.04	11.0	2.07	5.52	7.31	11.03	16.5	27.5	46.2
	气压试验Air test	0.6MPa											
适用温度Applicable Temperature		-196℃~550℃ (注: 不同工况温度, 选用不同的材质) Different materials for different Operating temperature											
适用介质 Applicable Medium	普通型 Ordinary type	水、蒸汽、石油、液化气、天然气等 Water, Steam, Petroleum, LPG, Natural gas etc.											
	抗硫型 Antisulphur type	含H ₂ S、CO天然气、石油等 Natural gas containing H ₂ S and CO, petroleum, etc.											

固定球阀流量系数表

阀门的流量系数是衡量阀门流通能力的指标，流量系数值越大说明流体过阀门时的压力损失越小。流量系数值随阀门的尺寸、型式、结构而变化，不同类型和不同规格的阀门都要分别进行试验，才能确定该种阀门的流量系数值。对于同样结构的阀门，流体流过阀门的方向不同，流量系数值也有变化。这种变化一般是由于压力恢复不同而造成的。

下表为固定球阀的流量系数，Cv值表示在1磅/英寸² (0.006894757MPa) 压力下+60F(+16)的水，每分钟流过阀门的美国加伦数。

Cv值/Value

口径 Nominal		2"FB	3"RB	3"FB	4"RB	4"FB	6"RB	6"FB	6"RB
		50	80 × 50	80	100 × 80	100	150 × 100	150	200 × 150
压力等级 Pressure grade	150	500	180	1350	545	2500	790	5300	1945
	300	500	195	1350	535	2500	765	5300	1945
	600	500	180	1350	550	2500	745	5300	2220
	900	500	187	1350	512	2500	740	5300	2035
	1500	330	187	1350	510	2500	742	4167	2033
	2500	301	180	743	505	1460	735	2603	1502
口径 Nominal		8"FB	10"RB	10"FB	12"RB	12"FB	14"RB	14"FB	16"RB
		200	250 × 200	250	300 × 250	300	350 × 300	350	400 × 300
压力等级 Pressure grade	150	10500	4050	17500	6900	26300	13100	31850	14600
	300	10500	4040	17500	7100	26300	13200	30050	14580
	600	10500	4065	17500	7150	26300	14350	28400	14350
	900	10500	4061	17500	7136	26300	14290	26803	14313
	1500	8013	4051	13309	7117	17073	14180	24276	14247
	2500	5370	3198	8631	5767	12503	/	/	/
口径 Nominal		16"FB	18"RB	18"FB	20"RB	20"FB	22"FB	24"RB	24"FB
		400	450 × 400	450	500 × 400	500	550	600 × 500	600
压力等级 Pressure grade	150	43300	/	57300	27750	74500	89700	44700	112300
	300	41700	/	55370	28050	72300	85350	44650	109150
	600	38150	/	50950	29500	65600	77600	48900	98150
	900	36705	/	48703	29443	62504	/	48713	86252
	1500	33215	/	43402	29253	55931	/	/	/
口径 Nominal		26"FB	28"RB	30"RB	30"FB	32"FB	34"FB	36"RB	36"FB
		550	700	750 × 600	750	800	850	900 × 750	900
压力等级 Pressure grade	150	128300	151750	76000	179300	199750	225000	123000	258300
	300	123050	146050	75900	171200	187700	214900	121550	243500
	600	114050	136500	73850	158900	175000	196500	118300	226300
	900	102940	121201	71500	140093	159420	181137	103083	226033
	1500	102940	121201	71500	140093	159420	181137	103083	226033
口径 Nominal		40"FB	42"FB	48	54	56	60	/	/
		1000	1050	1200	1350	1400	1500	/	/
压力等级 Pressure grade	150	323000	343000	480500	/	/	/	/	/
	300	309000	340000	460300	/	/	/	/	/
	600	28500	309000	438500	/	/	/	/	/
	900	/	/	/	/	/	/	/	/

Flow Coefficient Table For Trunnion Mounted Ball Valve

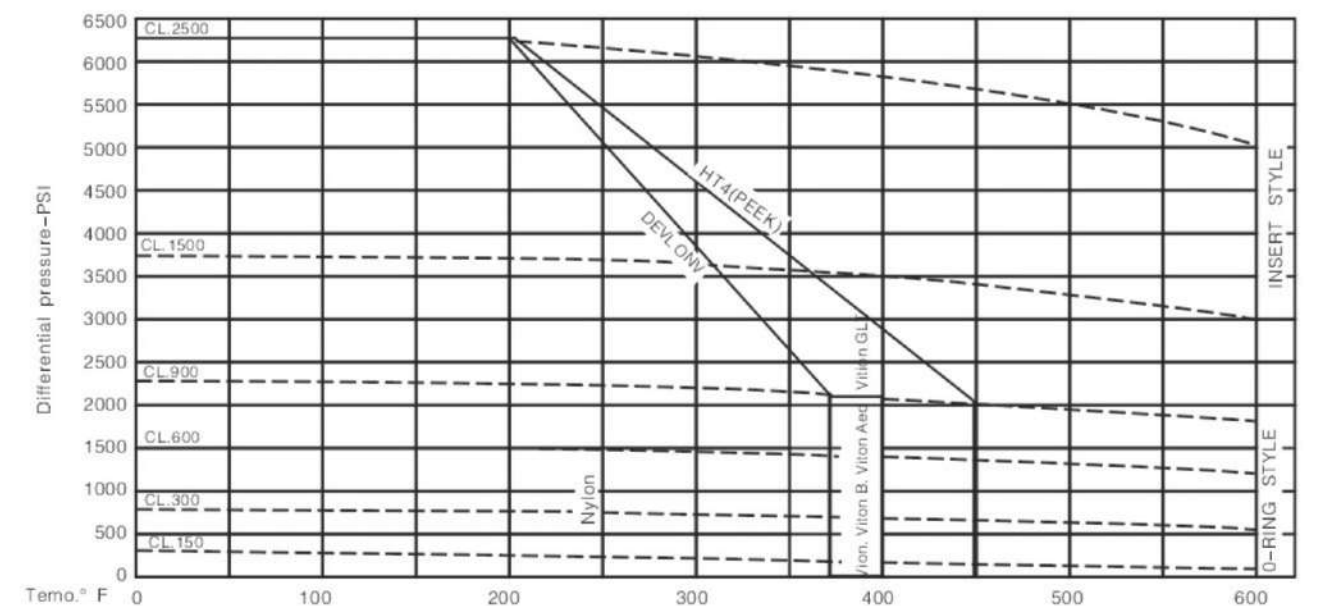
Flow coefficient is an index to measure the flow capacity of a valve. A higher value of flow coefficient means less pressure loss when fluid passing through the valve. The value of flow coefficient varies according to the dimensions, type and structure of valve. Valves of different types and specifications shall be tested separately to make sure of their values of flow coefficient. Regarding valves of the same structure, flow coefficient varies according to the flow direction of fluid through the valve. These differences are caused by different pressure recoveries.

The table below is the flow coefficient of fixed ball valve. 'Cv' stands for the American gallons flowing through the valve per minute under 1 pound/inch² (0.006894757MPa) pressure drop +60° F (+16°C) water.

密封阀座材料性能数据表/Material Performance Data Sheet For Sealing Seat

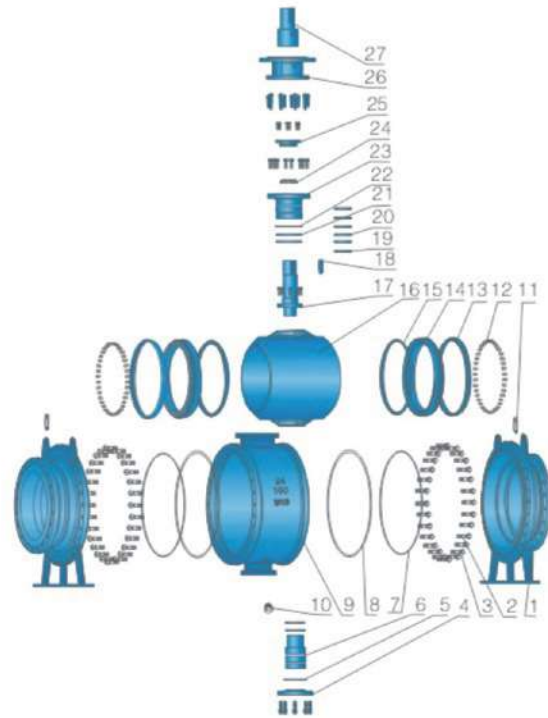
测试标准 Test criteria	测试项目 Test item	单位 Unit	PEEK	MOLON	DEVLON	PPL	PTFE	PTFE+石墨 Graphite	PTFE+玻纤 Bolivian filament	NYLON66
D638	拉伸强度23°C/-40°C Longitudinal strength	MPa	93.08	75/100	79.92/ 109.52	72	24.82	25	24.2	60/80
D638	断裂伸长率23°C Break elongation ratio	%	50	10/30	5.37	6/8	300	150	105	60
D785	硬度 Hardness	邵氏D 邵氏R	/	78	78/80	80	56	58	65	78
D790	弯曲强度 Bending strength	MPa	166.71	140	121.55	176	/	/	23.7	117
D621	符合下变形24hours Consistent with deformation under	%	~0	1.2	1.0/2.0	0.78	14/48	8.8	5.5	1.4
E831	线膨胀系数 Linear expansion coefficient	1/K	0.48x10 ⁻⁴	0.6x10 ⁻⁴	1.1x10 ⁻⁴	0.43x10 ⁻⁴	1.2x10 ⁻⁴	1x10 ⁻⁴	1x10 ⁻⁴	0.7x10 ⁻⁴
E648	热变形温度 1.82MPa/0.46MPa Heat distortion temperature	°C	160	150/190	93	163	55	63	78	90
D792	密度Density	G/cm3	1.34~1.36	1.15	1.14	1.48	2.20	2.22	2.1	1.12
D570	24hours 吸水率 Water absorption	%	0.13	0.7	0.1	0.2	0.01	0.015	0.015	1.2
D695	抗拉强度 Tensile strength	MPa	142	140	140	117	35	45	52	/
D695	压缩强度 Compressive strength	MPa	/	120	88.9	/	11.7	/	/	75.8

密封阀座的压力-温度特性值/Pressure-temperature Rating For Sealing Seat



上表中给了nylon、devlon、PEEK、viton 等材料的温度压力值，其中150Lb、300Lb、600Lb的温度压力值同样适用于O型密封圈形式的阀座设计。

Above table gives the temperature and pressure ratings of nylon, devlon, PEEK, viton and etc., and the temperature and pressure ratings of 150Lb, 300Lb and 600Lb equally apply to seat design with O-ring.



设计标准

1. 设计标准: API 6D、GB/T12237
2. 结构长度: ASME B16.10、GB/T12221
3. 法兰尺寸: ASME B16.5、ASME B16.47、GB/T9113、HG/T 20592
4. 试验和检验: API 598、JB/T9092

注: 1. 系列阀门连接法兰端尺寸可根据用户要求设计制造。
2. DN > 1000 (40") 阀门设计标准按《长输管线阀门技术条件》

Design Construction

1. Design Standard: API 6D、GB/T12237
2. Face to Face: ASME B16.10、GB/T12221
3. Flanged size: ASME B16.5、ASME B16.47、GB/T9113、HG/T 20592
4. Test & Inspection: API 598、JB/T9092

Notes: 1. The sizes of serial valve connecting flange ends can be designed according to customer's requirement.
2. DN > 1000 (40"), the design standard is accordance with 《Specification of the length pipe valve》

主要零件材料/Major Parts Material Form

序号 No.	零件名称 Part name	材质Material ASTM	序号 No.	零件名称 Part name	材质Material ASTM
1	左右体Bonnet	A216-WCB	15	密封圈Sealing ring	PTFE
2	螺栓Bolt	A193-B7	16	球体Ball**	WCB+ENP
3	螺母Nut	A194-2H	17	上阀杆Stem*	A182-F6a
4	底盖Bottom Cover	A105	18	键Key	AISI C1045
5	垫片Gasket	柔性石墨+不锈钢 Flexible graphite+stainless steel	19	填料垫Packing seat	A276-420
6	下阀杆Stem*	A182-F6a	20	填料Packing	柔性石墨 Flexible graphite
7	O型圈O'Ring	Viton	21	O型圈O'Ring	Viton
8	垫片Gasket	柔性石墨+不锈钢 Flexible graphite+stainless steel	22	垫片Gasket	柔性石墨+不锈钢 Flexible graphite+stainless steel
9	阀体Body	A216-WCB	23	阀盖Cover	A105
10	排污堵头Drain plug	A105	24	O型圈O'Ring	Viton
11	注脂阀Grease injection valve	Assembled	25	填料压盖Gland	A216-WCB
12	弹簧Spring	Inconel X-750	26	支架Yoke	A216-WCB
13	O型圈O'Ring	Viton	27	连接套Connection set	AISI C1045
14	阀座Seat*	A105			

注: *抗硫型阀门的该零件的材质为ASTM(A276-321);

**抗硫型阀门的该零件的材质为ASTM(A182-304、CF8+Ni.P);

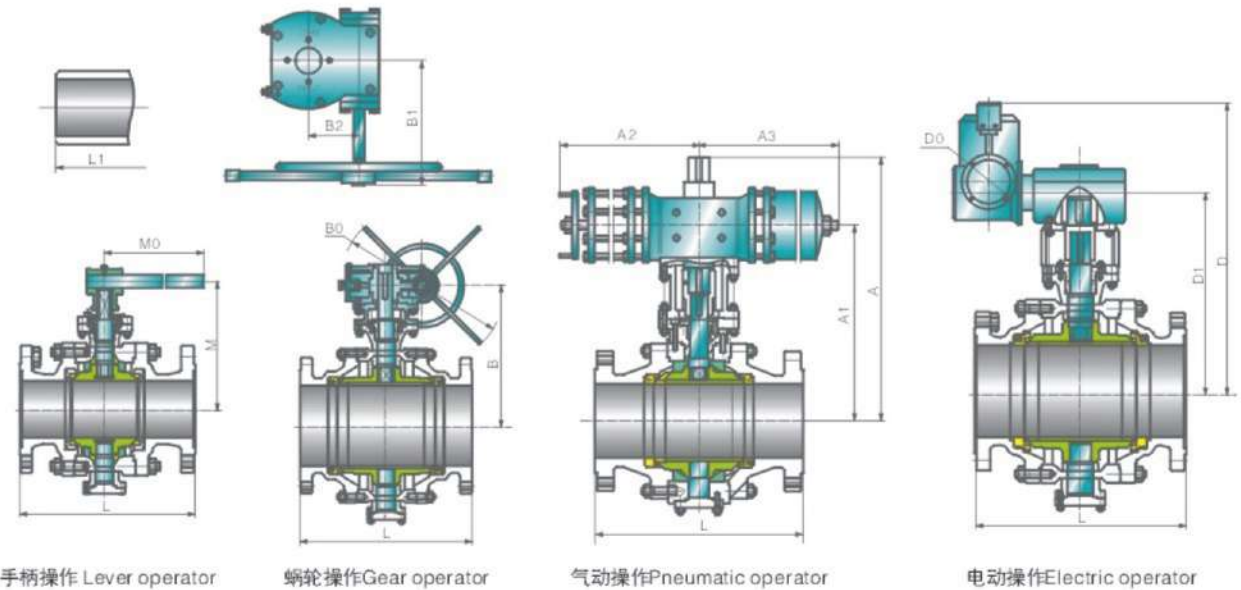
系列阀门主要零部件及密封面的材质可根据实际工况条件或用户特殊要求设计选用。

Notes: *The material of this part about the anti-sulphur type valve is ASTM(A276-321)

**The material of this part about the anti-sulphur type valve is ASTM(A182-304、CF8+Ni.P)

Major parts of the valve series and materials of sealing surface differ according to actual working condition and customer's special requirement.

全径固定球阀PN1.6MPa CLASS 150~PN35.0MPa CLASS 2500



主要外形尺寸及重量/Main Size of Outside & Weight

PN1.6MPa CLASS 150

尺寸Nominal		L			d	手动 Hand operated		蜗轮蜗杆传动Worm gear				气动Pneumatic operated				电动Electric driving			重量Weight(kg)	
DN	NPS	RF	BW	RJ		M	M0	B	B0	B1	B2	A	A1	A2	A3	D	D1	D0	RF	WE
50	2	178	216	191	49	107	230	/	/	/	/	217	174	89	181	/	/	/	12	11
65	21/2	191	241	203	62	125	400	/	/	/	/	308	248	148	257	/	/	/	16	15.3
80	3	203	283	216	74	152	400	/	/	/	/	318	258	148	257	/	/	/	22	21.3
100	4	229	305	241	100	178	650	/	/	/	/	407	322	287	287	/	/	/	35	34
125	5	356	381		125	252	1050	/	/	/	/	480	395	287	287	/	/	/	58	55.4
150	6	394	457	406	150	272	1050	378	400	200	106	562	457	378	378	554	337	508	74	72
200	8	457	521	470	201	/	/	421	400	200	108	700	595	378	378	606	421	508	205	201
250	10	533	559	546	252	/	/	482	400	200	108	735	630	378	378	667	482	508	322	310
300	12	610	635	622	303	/	/	549	600	330	144	858	728	530	530	734	549	508	460	447
350	14	686	762	699	334	/	/	582	600	330	144	1013	883	530	530	784	582	508	576	536
400	16	762	838	775	385	/	/	687	800	370	220	1319	1154	680	680	889	687	508	864	814
450	18	864	914	876	436	/	/	730	800	370	220	1389	1224	680	680	981	730	305	1280	1210
500	20	914	991	927	487	/	/	772	800	370	220	1459	1294	680	680	1023	772	305	1600	1500
600	24	1067	1143	1080	589	/	/	995	800	515	279	1060	915	1455	1455	1268	995	305	3540	3000
650	26	1143	1245	/	633	/	/	1022	800	515	279	1234	1089	1455	1455	1334	1071	305	3930	3240
700	28	1245	1346	/	684	/	/	1088	800	515	279	1140	980	1665	1665	1459	1155	305	4500	3710
750	30	1295	1397	/	735	/	/	1153	800	515	279	1195	1035	1665	1665	1515	1211	305	5370	4530
800	32	1372	1524	/	779	/	/	1223	800	570	368	1338	1149	1960	1960	1649	1316	458	5940	4870
850	34	1473	1626	/	830	/	/	1307	800	570	368	/	/	/	/	1694	1361	458	6615	5305
900	36	1524	1727	/	874	/	/	1374	800	570	368	/	/	/	/	1766	1433	458	7540	6010
1000	40	1753	1956	/	976	/	/	1468	960	575	220	/	/	/	/	1854	1521	458	9320	7400
1050	42	1855	2083	/	1020	/	/	1532	960	575	220	/	/	/	/	2036	1586	610	14450	12150
1200	48	2134	2388	/	1166	/	/	1670	960	575	220	/	/	/	/	2185	1735	610	19200	16000

注: 连接法兰尺寸、焊接端尺寸见附录(A)

表格L栏中, RF表示突面法兰结构长度, BW表示焊接结构长度, RJ表示环连接形式结构长度。

Flange dimensions, butt weld dimensions refer to annex A. Column L in the above table, RF: Raised end; BW: Butt weld end; RJ: Ring joint end

主要外形尺寸及重量/Main Size of Outside & Weight

PN2.5/4.0MPa CLASS 300

尺寸Nominal		L				d		手动 Hand operated		蜗轮蜗杆传动Worm gear				气动Pneumatic operated				电动Electric driving			重量Weight(kg)	
DN	NPS	RF	BW	RJ				M	M0	B	B0	B1	B2	A	A1	A2	A3	D	D1	D0	RF	WE
50	2	216	216	232	49	107	230	/	/	/	/	/	/	234	174	148	257	/	/	/	15	11
65	2 1/2	241	241	257	62	125	400	/	/	/	/	/	/	308	248	148	257	/	/	/	24	18
80	3	283	283	298	74	152	400	/	/	/	/	/	/	343	258	287	287	/	/	/	30	22
100	4	305	305	321	100	178	650	/	/	/	/	/	/	407	322	287	287	/	/	/	55	45
125	5	381	381	/	125	252	1050	/	/	/	/	/	/	500	395	378	378	/	/	/	87	69
150	6	403	457	419	150	272	1050	378	400	200	106	562	457	378	378	522	337	508	118	98		
200	8	502	521	517	201	/	/	421	400	200	108	700	595	378	378	606	421	508	255	225		
250	10	568	559	584	252	/	/	482	600	330	108	760	630	530	530	667	482	508	370	330		
300	12	648	635	664	303	/	/	549	600	330	144	858	728	530	530	751	549	508	533	493		
350	14	762	762	778	334	/	/	582	800	370	144	1048	883	680	680	784	582	305	640	600		
400	16	838	838	854	385	/	/	687	800	370	220	1319	1154	680	680	983	687	305	1030	930		
450	18	914	914	930	436	/	/	730	800	370	220	1369	1224	1455	1455	981	730	305	1542	1402		
500	20	991	991	1010	487	/	/	772	800	515	220	1459	1294	1455	1455	1045	772	305	2100	1900		
600	24	1143	1143	1165	589	/	/	995	800	515	279	1075	915	1665	1665	1268	995	305	3430	2860		
650	26	1245	1245	1270	633	/	/	1022	800	515	279	1249	1089	1665	1665	1375	1071	305	4340	3620		
700	28	1346	1346	1372	684	/	/	1088	800	515	279	1140	980	1665	1665	1459	1155	305	4960	4140		
750	30	1397	1397	1422	735	/	/	1153	800	515	279	1195	1035	1960	1960	1515	1211	305	5950	4960		
800	32	1524	1524	1553	779	/	/	1223	800	570	368	1338	1149	1960	1960	1649	1316	458	6760	5640		
850	34	1626	1626	1654	830	/	/	1307	800	570	368	/	/	/	/	1694	1361	458	8280	6900		
900	36	1727	1727	1756	874	/	/	1374	960	570	368	/	/	/	/	1883	1433	458	9640	8040		
1000	40	1930	1930	/	976	/	/	1468	960	575	220	/	/	/	/	1971	1521	458	11730	9680		
1050	42	2032	2032	/	1020	/	/	1532	960	630	220	/	/	/	/	2036	1586	610	16300	13700		
1200	48	2388	2388	/	1166	/	/	1670	960	630	220	/	/	/	/	2255	1735	610	20160	16800		

主要外形尺寸及重量/Main Size of Outside & Weight

PN6.4-10.0MPa CLASS 600

尺寸Nominal		L				d		手动 Hand operated		蜗轮蜗杆传动Worm gear				气动Pneumatic operated				电动Electric driving			重量Weight(kg)	
DN	NPS	RF	BW	RJ				M	M0	B	B0	B1	B2	A	A1	A2	A3	D	D1	D0	RF	WE
50	2	292	292	295	49	107	400	/	/	/	/	/	/	234	174	148	148	/	/	/	35	29
65	2 1/2	330	330	333	62	125	650	/	/	/	/	/	/	333	248	287	287	/	/	/	38	31
80	3	356	356	359	74	152	650	/	/	/	/	/	/	343	258	287	287	/	/	/	55	45
100	4	432	432	435	100	178	1050	/	/	/	/	/	/	407	322	287	287	/	/	/	102	78
125	5	508	508	/	125	/	/	/	/	/	/	/	/	500	395	378	378	/	/	/	160	120
150	6	559	559	562	150	/	/	389	400	200	108	562	457	378	378	522	337	508	232	182		
200	8	660	660	664	201	/	/	449	600	330	144	725	595	530	530	606	421	508	390	310		
250	10	787	787	791	252	/	/	497	600	330	144	760	630	530	530	684	482	508	710	590		
300	12	838	838	841	303	/	/	550	800	370	220	893	728	680	680	751	549	508	960	790		
350	14	889	889	892	334	/	/	582	800	370	220	1048	883	1455	1455	784	582	305	1700	1490		
400	16	991	991	994	385	/	/	687	800	370	220	1319	1154	1455	1455	960	687	305	1970	1720		
450	18	1092	1092	1095	436	/	/	730	800	515	279	1384	1224	1665	1665	1003	730	305	2180	1830		
500	20	1194	1194	1200	487	/	/	780	800	515	279	1459	1294	1665	1665	1045	772	305	3250	2770		
600	24	1397	1397	1407	589	/	/	995	800	515	279	1075	915	1665	1665	1328	995	305	4880	4030		
650	26	1448	1448	1461	633	/	/	1038	800	515	279	1249	1089	1960	1960	1375	1071	305	5830	4840		
700	28	1549	1549	1562	684	/	/	1088	800	570	368	1140	980	1960	1960	1459	1155	305	670	5610		
750	30	1651	1651	1664	735	/	/	1157	800	570	368	/	/	/	/	1661	1211	305	7450	6210		
800	32	1778	1778	1794	779	/	/	1190	800	570	368	/	/	/	/	1766	1316	458	8470	7060		
850	34	1930	1930	1946	830	/	/	1246	960	575	220	/	/			1694	1361	458	10360	8640		
900	36	2083	2083	2099	874	/	/	1292	960	575	220	/	/	/	/	1883	1433	458	12080	10070		
1000	40	2337	2337	/	976	/	/	1361	960	575	220	/	/	/	/	1971	1521	458	15420	12850		
1050	42	2387	2387	/	1020	/	/	1423	960	575	220	/	/	/	/	2036	1586	610	18180	15150		
1200	48	2540	2540	/	1166	/	/	1568	960	630	295	/	/	/	/	2255	1735	610	25260	21050		

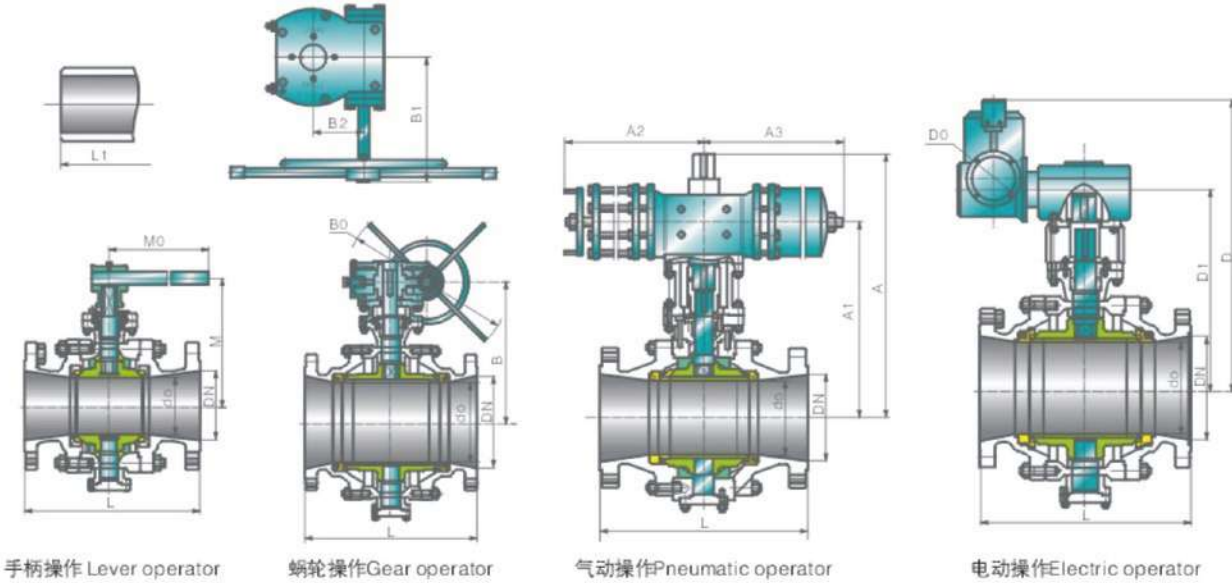
注：连接法兰尺寸、焊接端尺寸见附录（A）
表格L栏中，RF表示突面法兰结构长度，BW表示焊接结构长度，RJ表示环连接形式结构长度。
Flange dimensions,butt weld dimensions refer to annex A.Column L in the above table,RF:Raised end;BW:Butt weld end,RJ:Ring joint end

主要外形尺寸及重量/Main Size of Outside & Weight

PN15.0MPa CLASS 900

尺寸Nominal		L			d	手动 Hand operated		蜗轮蜗杆传动Worm gear				气动Pneumatic operated				电动Electric driving			重量Weight(kg)	
DN	NPS	RF	BW	RJ		M	M0	B	B0	B1	B2	A	A1	A2	A3	D	D1	D0	RF	WE
50	2	368	368	371	49	123	650	/	/	/	/	234	174	148	257	/	/	/	50	40
65	2 1/2	419	419	422	62	136	800	/	/	/	/	308	248	148	257	/	/	/	75	60
80	3	381	381	384	74	/	/	185	400	200	106	343	258	287	287	/	/	/	92	70
100	4	457	457	460	100	/	/	225	400	200	108	427	322	378	378	/	/	/	146	109
125	5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
150	6	610	610	613	150	/	/	389	600	330	144	587	457	530	530	522	337	508	339	264
200	8	737	737	740	201	/	/	449	600	330	144	725	595	530	530	606	421	508	640	540
250	10	838	838	841	252	/	/	497	800	370	220	795	630	680	680	684	482	508	960	800
300	12	965	965	968	303	/	/	550	800	370	220	837	728	1455	1455	822	549	508	1330	1110
350	14	1029	1029	1038	322	/	/	582	800	370	220	1048	883	1455	1455	855	582	305	1640	1370
400	16	1130	1130	1140	373	/	/	687	800	515	279	1314	1154	1665	1665	991	687	305	2240	1910
450	18	1219	1219	1232	423	/	/	730	800	515	279	1384	1224	1665	1665	1003	730	305	2770	2310
500	20	1321	1321	1334	471	/	/	780	800	515	279	1459	1294	1665	1665	1105	772	305	3740	3120
600	24	1549	1549	1568	570	/	/	995	800	515	279	1075	915	1960	1960	1445	995	305	5560	4640
650	26	1651	1651	1674	617	/	/	1038	800	570	368	1249	1089	1960	1960	1521	1071	305	7070	5880
700	28	1753	1753	1775	665	/	/	1088	800	570	368	1140	980	1960	1960	1605	1155	305	8070	6730
750	30	1880	1880	1902	712	/	/	1157	800	570	368	/	/	/	/	1661	1211	305	9680	8070
800	32	2032	2032	2054	760	/	/	1190	960	575	220	/	/	/	/	1766	1316	458	11000	9170
850	34	2159	2159	2188	808	/	/	1246	960	575	220	/	/	/	/	1881	1361	458	13470	11230
900	36	2286	2286	2315	855	/	/	1292	960	575	220	/	/	/	/	1953	1433	458	15700	13090
1000	40	2410	2410	2438	959	/	/	1361	960	630	295	/	/	/	/	1971	1521	458	20040	16700
1050	42	2515	2515	2540	1003	/	/	1423	960	630	295	/	/	/	/	2036	1586	610	23620	19690
1200	48	2620	2620	/	1155	/	/	1568	960	630	295	/	/	/	/	2255	1735	610	32830	27360

缩径固定球阀PN1.6MPa CLASS150~PN25.0MPaCLASS1500



主要外形尺寸及重量/Main Size of Outside & Weight

PN1.6MPa CLASS 150

尺寸Nominal	L				d	手动 Hand operated		蜗轮蜗杆传动Worm gear				气动Pneumatic operated				电动Electric driving			重量Weight(kg)	
	DN	NPS	RF	BW	RJ	M	M0	B	B0	B1	B2	A	A1	A2	A3	D	D1	D0	RF	WE
80	3×2	203	283	216	49	107	230	/	/	/	/	217	174	89	181	/	/	/	19	15
100	4×3	229	305	241	74	152	400	/	/	/	/	318	258	148	257	/	/	/	32	24
150	6×4	394	457	406	100	178	650	/	/	/	/	407	322	287	287	/	/	/	55	48
200	8×6	457	521	470	150	272	1050	378	400	200	106	562	457	378	378	554	337	508	73	69
250	10×8	533	559	546	201	/	/	421	400	200	108	700	595	378	378	606	421	508	122	110
300	12×10	610	635	622	252	/	/	482	400	200	108	735	630	378	378	667	482	508	310	297
350	14×12	686	762	699	303	/	/	549	600	330	144	858	728	530	530	734	549	508	470	430
400	16×14	762	838	775	336	/	/	607	600	330	144	888	758	530	530	774	589	508	590	540
450	18×16	864	914	876	385	/	/	687	800	370	220	1319	1154	680	680	889	687	508	830	760
500	20×18	914	991	927	435	/	/	713	800	370	220	1354	1180	680	680	909	708	508	1040	940
600	24×20	1067	1143	1080	487	/	/	772	800	370	220	1459	1294	680	680	1023	772	305	1650	1110

主要外形尺寸及重量/Main Size of Outside & Weight

PN2.5/4.0MPa CLASS 300

尺寸Nominal	L				d	手动 Hand operated		蜗轮蜗杆传动Worm gear				气动Pneumatic operated				电动Electric driving			重量Weight(kg)	
	DN	NPS	RF	BW	RJ	M	M0	B	B0	B1	B2	A	A1	A2	A3	D	D1	D0	RF	WE
80	3×2	283	283	298	49	107	230	/	/	/	/	234	174	148	257	/	/	/	28	20
100	4×3	305	305	321	74	152	400	/	/	/	/	343	258	287	287	/	/	/	38	28
150	6×4	403	457	419	100	178	650	/	/	/	/	407	322	287	287	/	/	/	67	54
200	8×6	502	521	517	150	272	1050	378	400	200	106	562	457	378	378	522	337	508	95	83
250	10×8	568	568	584	201	/	/	421	400	200	108	700	595	378	378	606	421	508	144	125
300	12×10	648	648	664	252	/	/	482	400	200	108	760	630	530	530	667	482	508	380	340
350	14×12	762	762	778	303	/	/	549	600	330	144	858	728	530	530	751	549	508	580	540
400	16×14	838	838	854	336	/	/	607	700	330	144	909	758	530	530	774	589	508	780	680
450	18×16	914	914	930	385	/	/	687	800	370	220	1319	1154	680	680	938	687	305	1190	1050
500	20×18	991	991	1010	435	/	/	713	800	370	220	1354	1180	680	680	909	708	508	1880	1690
600	24×20	1143	1143	1165	487	/	/	772	800	370	220	1459	1294	1455	1455	1045	772	305	2750	2180

注: 连接法兰尺寸、焊接端尺寸见附录 (A) Flange dimensions, butt weld dimensions refer to annex A.

主要零件材料/Major Parts Material Form

PN10.0MPa CLASS 600

尺寸Nominal	L				d	手动 Hand operated		蜗轮蜗杆传动Worm gear				气动Pneumatic operated				电动Electric driving			重量Weight(kg)	
	DN	NPS	RF	BW	RJ	M	M0	B	B0	B1	B2	A	A1	A2	A3	D	D1	D0	RF	WE
80	3×2	356	356	359	49	107	400	/	/	/	/	234	174	148	257	/	/	/	44	34
100	4×3	432	432	435	74	152	650	/	/	/	/	343	258	287	287	/	/	/	89	65
150	6×4	559	559	562	100	178	1050	/	/	/	/	407	322	287	287	/	/	/	160	110
200	8×6	660	660	664	150	/	/	389	400	200	108	500	457	378	378	522	337	508	310	240
250	10×8	787	787	791	201	/	/	449	600	330	144	562	595	378	378	606	421	508	570	500
300	12×10	838	838	841	252	/	/	497	600	330	144	725	630	530	530	684	482	508	850	680
350	14×12	889	889	892	303	/	/	550	800	370	220	760	630	530	530	751	549	508	1180	970
400	16×14	991	991	994	336	/	/	550	800	370	220	760	758	530	530	751	549	508	1390	1140
450	18×16	1092	1092	1095	385	/	/	687	800	370	220	1319	1154	1455	1455	960	687	305	1765	1415
500	20×18	1194	1194	1200	435	/	/	687	800	370	220	1319	1154	1455	1455	960	687	305	2170	1690
600	24×20	1397	1397	1407	487	/	/	780	800	515	279	1459	1294	1665	1665	1045	772	305	3390	2540

主要零件材料/Major Parts Material Form

PN15.0MPa CLASS 900

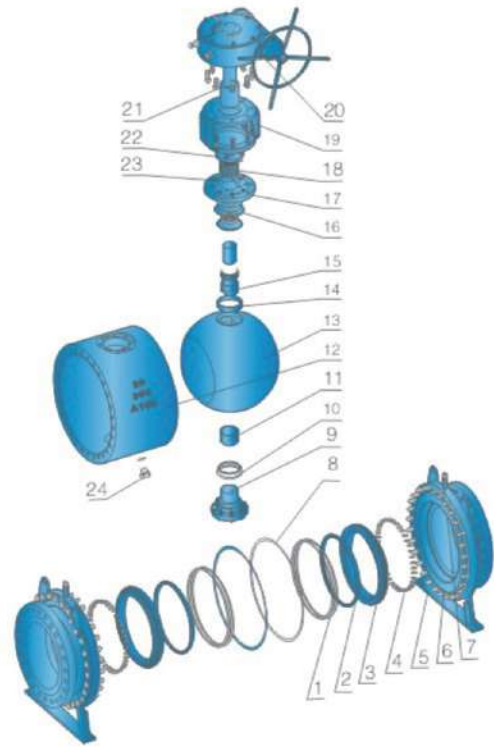
尺寸Nominal	L				d	手动 Hand operated		蜗轮蜗杆传动Worm gear				气动Pneumatic operated				电动Electric driving			重量Weight(kg)	
	DN	NPS	RF	BW	RJ	M	M0	B	B0	B1	B2	A	A1	A2	A3	D	D1	D0	RF	WE
80	3×2	381	381	384	49	123	650	/	/	/	/	234	174	148	257	/	/	/	58	48
100	4×3	457	457	460	74	/	/	185	400	200	106	343	258	287	287	/	/	/	105	90
150	6×4	610	610	613	100	/	/	225	400	200	108	427	322	378	378	/	/	/	230	162
200	8×6	737	737	740	150	/	/	389	600	330	144	587	457	530	530	522	337	508	470	370
250	10×8	838	838	841	201	/	/	449	600	330	144	725	595	530	530	606	421	508	530	410
300	12×10	965	965	968	252	/	/	497	800	370	220	795	630	680	680	684	482	508	1200	1030
350	14×12	1029	1029	1038	303	/	/	550	800	370	220	837	728	1455	1455	822	549	508	1695	1440
400	16×14	1130	1130	1140	303	/	/	550	800	370	220	837	728	1455	1455	822	549	508	1790	1480
450	18×16	1219	1219	1232	373	/	/	687	800	515	279	1314	1154	1665	1665	991	687	305	2520	2100
500	20×18	1321	1321	1334	373	/	/	687	800	515	279	1314	1154	1665	1665	991	687	305	2970	2430
600	24×20	1549	1549	1568	471	/	/	780	800	515	279	1459	1294	1665	1665	1105	772	305	5580	4520

主要零件材料/Major Parts Material Form

PN25.0MPa CLASS 1500

尺寸Nominal	L				d	蜗轮蜗杆传动Worm gear				气动Pneumatic operated				电动Electric driving			重量Weight(kg)	
	DN	NPS	RF	BW	RJ	B	B0	B1	B2	A	A1	A2	A3	D	D1	D0	RF	WE
80	3×2	470	470	473	49	154	400	200	106	259	174	287	287	/	/	/	75	49
100	4×3	546	546	549	74	187	600	330	144	363	258	378	378	/	/	/	130	73
150	6×4	705	705	711	100	217	600	330	144	452	322	530	530	/	/	/	300	181
200	8×6	832	832	841	144	346	800	370	220	587	457	530	530	522	337	508	615	491
250	10×8	991	991	1000	192	384	800	370	220	760	595	680	680	623	421	508	1085	879
300	12×10	1130	1130	1146	239	452	800	370	220	739	630	1455	1455	755	482	508	1850	1547
350	14×12	1257	1257	1276	287	512	800	515	279	837	728	1455	1455	822	549	508	2620	2214
400	16×14	1384	1384	1407	287	512	800	515	279	837	728	1455	1455	822	549	508	2890	2365
450	18×16	1537	1537	1559	360	601	800	515	279	1314	1154	1665	1665	1020	687	305	3856	3156
500	20×18	1664	1664	1686	360	601	800	515	279	1314	1154	1665	1665	1020	687	305	5005	4105
600	24×20	1943	1943	1972	416	727	800	570	368	1459	1294	1960	1960	1272	772	305	11377	9980

注: 连接法兰尺寸、焊接端尺寸见附录 (A) Flange dimensions, butt weld dimensions refer to annex A.



设计标准

1. 设计标准: API 6D、GB/T12237
2. 结构长度: API 6D、ASME B16.10、GB/T12221
3. 法兰尺寸: ASME B16.5、ASME B16.47、GB/T9113、HG/T 20592
4. 试验和检验: API 598、JB/T9092

注: 1. 系列阀门连接法兰端尺寸可根据用户要求设计制造。
2. DN > 1000 (40") 阀门设计标准按《长输管线阀门技术条件》

Design Construction

1. Design Standard: API 6D、GB/T12237
2. Face to Face: API 6D、ASME B16.10、GB/T12221
3. Flanged size: ASME B16.5、ASME B16.47、GB/T9113、HG/T 20592
4. Test & Inspection: API 598、JB/T9092

Notes: 1. The sizes of serial valve connecting flange ends can be designed according to customer's requirement.
2. DN > 1000 (40"), the design standard is accordance with 《Specification of the length pipe valve》

主要零件材料/Major Parts Material Form

序号 No.	零件名称 Part name	材质Material ASTM	序号 No.	零件名称 Part name	材质Material ASTM
1	O型圈 O'Ring	Viton	13	球体 Ball**	A105+ENP
2	密封圈 Sealing ring	PTFE	14	衬套 Bushing	PTFE&Nikelium
3	阀座 Seat	A105	15	上阀杆 Stem*	A182-F6a
4	弹簧 Spring	Inconel X-750	16	垫片 Gasket	柔性石墨+不锈钢 Flexible graphite+stainless steel
5	螺栓 Bolt	A193-B7	17	阀盖 Cover	A105
6	左右体 Bonnet	A105	18	填料 Packing	Graphite
7	注脂阀 Grease injection valve	Assembled	19	支架 Yoke	A216-WCB
8	垫片 Gasket	柔性石墨+不锈钢 Flexible graphite+stainless steel	20	驱动装置 Driving	Assembled
9	下阀杆 Stem*	柔性石墨+不锈钢 Flexible graphite+stainless steel	21	连接套 Connection set	AISI C1045
10	垫片 Gasket	A182-F6a	22	填料压盖 Gland	A216-WCB
11	衬套 Bushing	PTFE&Nikelium	23	定位销 Stop pin	A276-410
12	阀体 Body	A105	24	排污堵头 Drain plug	A105

注: *抗硫型阀门的该零件的材质为ASTM(A276-321);

**抗硫型阀门的该零件的材质为ASTM(A182-304、CF8+Ni.P);

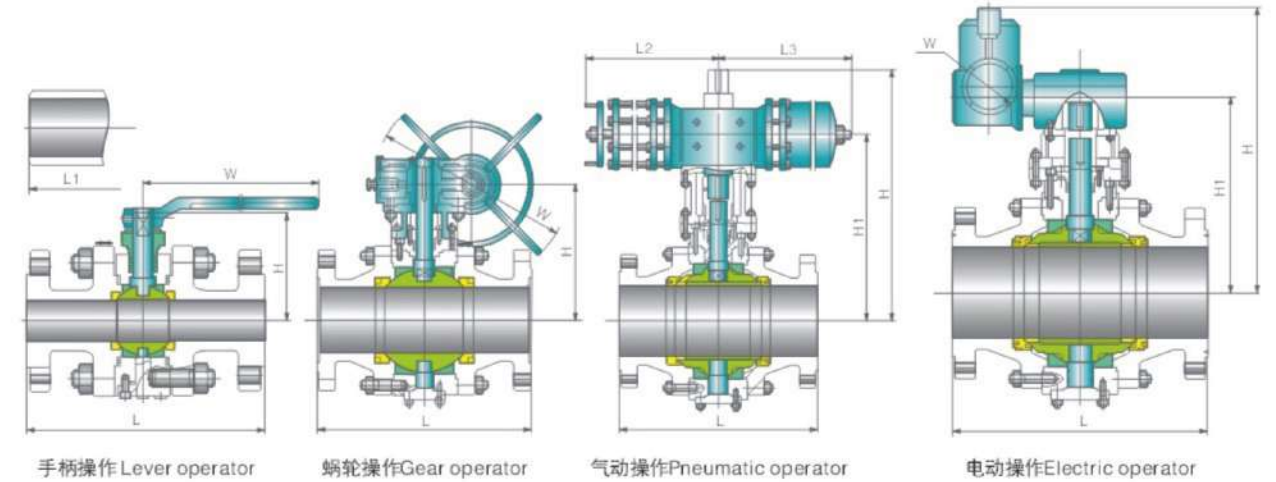
系列阀门主要零部件及密封面的材质可根据实际工况条件或用户特殊要求设计选用。

Notes: *The material of this part about the anti-sulphur type valve is ASTM(A276-321)

**The material of this part about the anti-sulphur type valve is ASTM(A182-304、CF8+Ni.P)

Major parts of the valve series and materials of sealing surface differ according to actual working condition and customer's special requirement.

固定式锻钢球阀 PN1.6MPa CLASS 150~PN25.0MPa CLASS 1500



主要外形尺寸及重量/Main Size of Outside & Weight

PN1.6MPa CLASS 150

DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1050	1200	1400	1500
NPS	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	28	32	36	40	42	48	56	60
法兰 Flange	L	178	191	203	229	356	394	457	553	610	686	762	864	914	1067	1245	1372	1524	1721	1829	2180	2300	2400
对焊 Butt Welding	L1	216	241	283	305	381	457	521	559	635	762	838	914	991	1143	1346	1524	1727	1930	1689	2100	2250	2400
手动 Hand-operated	H	130	142	191	200	226	242	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	W	230	350	400	450	750	750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Kg	12	28	33	50	78	93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
蜗轮传动 Worm gear operated	H	-	-	-	-	-	-	337	385	414	447	545	545	585	663	723	923	986	1061	1420	1530	1640	1710
	W	-	-	-	-	-	-	600	600	800	800	800	800	800	800	800	800	800	800	800	800	800	800
	Type	-	-	-	-	-	-	B	B	C	C	D	D	D	DA	DA	DB	DB	DC	DC	DD	DD	HD
气动 Air-operating	H	269	379	389	479	552	666	769	824	897	937	1121	1161	1203	1145	1160	1460	1510	1610	-	-	-	-
	H1	174	248	258	322	395	457	560	615	653	691	816	856	898	915	930	1100	1150	1250	-	-	-	-
	L2	89	148	148	287	287	378	378	378	530	530	680	680	680	1455	1455	1665	1665	1960	-	-	-	-
电动 Electric Driving	L3	181	257	257	287	287	378	378	378	530	530	680	680	680	1455	1455	1665	1665	1960	-	-	-	-
	Type	AG09	AG13	AG13	AW13	AW13	AW17	AW17	AW17	AW20	AW28	AW28	AW28	AW28	C1-35	C1-35	C2-49	C2-49	C3-60	-	-	-	-
	Kg	32	42	53	100	125	157	265	410	595	795	1150	1295	1910	2400	4600	7100	10100	14200	-	-	-	-
电动 Electric Driving	H	-	-	-	-	-	559	710	744	851	859	959	999	965	1141	1233	1341	1666	1895	2114	2194	2374	2404
	H1	-	-	-	-	-	342	492	527	570	608	708	748	790	866	960	1068	1100	1210	1390	1470	1650	1680
	W	-	-	-	-	-	200	200	200	280	280	305	305	305	400	400	460	460	600	600	600	600	600
电动 Electric Driving	Type	-	-	-	-	-	SMC-04 +H3C	SMC-04 +H3C	SMC-04 +H1BC	SMC-04 +H1BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H3BC	SMC-03 +H3BC	SMC-0 +H4BC	SMC-0 +H4BC	SMC-1 +H5BC	SMC-2 +H5BC	SMC-3 +H5BC	SMC-3 +H7BC	SMC-4 +H7BC	SMC-4 +H7BC	SMC-4 +H7BC
	Kg	-	-	-	-	-	152	245	425	610	800	1180	1300	1200	2500	4710	7300	10200	15200	16800	24000	38500	40500

主要外形尺寸及重量/Main Size of Outside & Weight

PN2.5、4.0MPa CLASS 300

DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1050	1200	1400	1500
NPS	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	28	32	36	40	42	48	56	60
法兰Flange	L	216	241	283	305	381	403	502	568	648	762	838	914	991	1143	1346	1524	1727	2083	2050	2180	2300	2400
对焊Butt Welding	L1	216	241	283	305	381	457	521	559	635	762	838	914	991	1143	1346	1524	1727	2083	1960	2020	2250	2400
手动 Hand-operated	H	136	164	191	223	240	253	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	W	240	400	400	600	750	800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Kg	32	37	58	110	157	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
蜗轮传动 Worm gear operated	H	-	-	-	-	-	-	337	385	414	447	545	545	585	663	723	923	986	1061	1420	1530	1640	1710
	W	-	-	-	-	-	-	600	600	800	800	800	800	800	800	800	800	800	800	800	800	800	800
	Type	-	-	-	-	-	-	B	B	C	C	D	D	DA	DB	DC	DC	DD	DD	DD	DD	DH	HD
	Kg	-	-	-	-	-	-	280	410	760	1100	1600	1700	2300	3500	6000	8000	11000	14000	17000	25000	39500	45300
气动 Air-operating	H	360	388	476	418	621	634	701	771	814	913	1013	1148	1190	1316	1410	1518	1740	1850	-	-	-	-
	H1	229	257	319	361	412	425	492	527	570	608	708	748	790	886	960	1068	1140	1250	-	-	-	-
	L2	148	148	287	287	378	378	378	530	530	680	680	680	1455	1455	1665	1665	1960	1960	-	-	-	-
	L3	181	257	287	287	378	378	378	530	530	680	680	680	1455	1455	1665	1665	1960	1960	-	-	-	-
	Type	AG13	AG13	AW13	AW13	AW17	AW17	AW20	AW20	AW28	AW28	C1-355	C1-355	C2-490	C2-490	C2-490	C3-600	C3-600	-	-	-	-	-
	Kg	45	70	95	153	260	350	450	750	1140	1580	2550	2300	3100	4400	6000	8120	11200	14500	-	-	-	-
电动 Electric Driving	H	-	-	-	-	-	559	710	744	851	859	959	999	963	1141	1233	1341	1696	1925	2114	2194	2374	2404
	H1	-	-	-	-	-	342	492	527	570	608	708	748	790	866	960	1068	1100	1210	1390	1470	1650	1680
	W	-	-	-	-	-	200	200	200	280	280	280	305	305	305	400	400	460	460	600	600	600	600
	Type	-	-	-	-	-	SMC-04 +H1BC	SMC-04 +H1BC	SMC-04 +H1BC	SMC-04 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC
	Kg	-	-	-	-	-	380	460	780	1150	1620	2160	2400	3120	4500	6100	8210	11400	14800	17500	26000	41000	46200

主要外形尺寸及重量/Main Size of Outside & Weight

PN10.0MPa CLASS 600

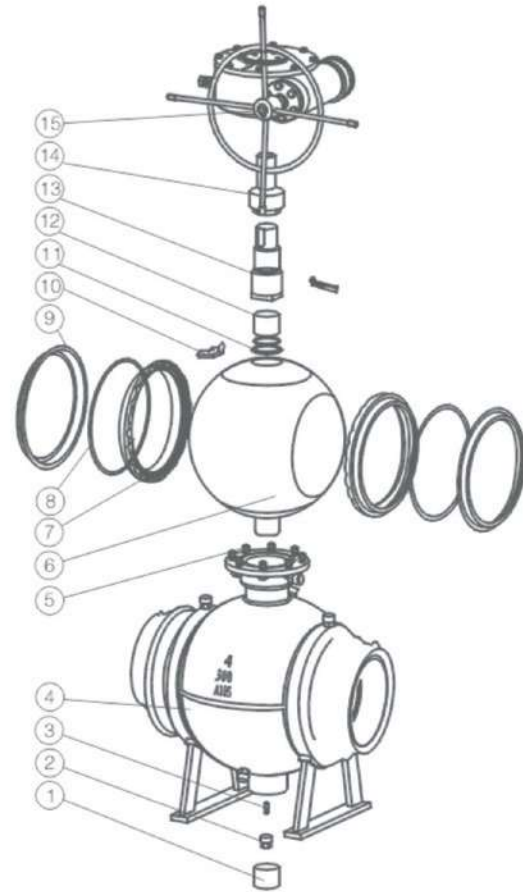
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1050	1200	1400	1500
NPS	in	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	28	32	36	40	42	48	56	60
法兰Flange	L	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1549	1778	2083	2337	2100	2400	2400	2700
对焊Butt Welding	L1	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1549	1778	2083	2337	2050	2180	2300	2400
手动 Hand-operated	H	136	164	191	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	W	500	650	650	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Kg	35	42	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
蜗轮传动 Worm gear operated	H	-	-	-	244	309	361	412	475	502	533	636	675	759	836	915	987	1212	1460	1600	1760	1845
	W	-	-	-	600	600	800	800	800	800	800	800	800	800	800	800	800	800	1000	1000	1000	1000
	Type	-	-	-	B	C	C	D	D	DA	DA	DB	DC	DD	DH	DH	DH	DH	DJ	DJ	DK	DK
	Kg	-	-	-	180	270	500	780	1100	1200	1600	2160	2700	5000	7000	9800	14000	19000	22000	32000	49000	56000
气动 Air-operating	H	269	-	519	636	728	839	1014	1120	1224	1374	-	1490	1615	1760	-	-	-	-	-	-	-
	H1	209	-	295	479	519	595	770	810	1004	1154	-	1210	1335	1410	-	-	-	-	-	-	-
	L2	148	-	287	287	378	530	530	680	1445	1445	-	1665	1665	1960	-	-	-	-	-	-	-
	L3	257	-	287	287	378	530	530	680	1445	1445	-	1665	1665	1960	-	-	-	-	-	-	-
	Type	AG13	-	AW13	AW13	AW17	AW20	AW20	AW28	C1-355	C1-355	-	C2-490	C2-490	C3-600	-	-	-	-	-	-	-
	Kg	60	-	112	196	380	585	760	1190	1650	2550	-	3200	4520	6350	-	-	-	-	-	-	-
电动 Electric Driving	H	-	-	-	-	527	533	653	652	801	784	809	948	1038	1253	1473	1287	1512	2114	2254	2424	2524
	H1	-	-	-	-	309	361	412	475	502	533	636	675	765	980	1150	987	1212	1390	1530	1700	1800
	W	-	-	-	-	200	200	280	280	280	305	305	305	400	400	600	600	600	600	600	600	600
	Type	-	-	-	-	SMC-04 +H1BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC
	Kg	-	-	-	-	410	480	860	1320	1750	2280	2620	3350	4720	6540	8800	14500	22000	23500	33500	51000	58500

主要外形尺寸及重量/Main Size of Outside & Weight

PN15.0MPa CLASS 900

DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	750	800	900	1000	1200
NPS	in	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	30	32	36	40	48
法兰Flange	L	368	419	381	457	610	737	838	965	1092	1130	1219	1321	1549	1780	2050	2050	2180	2600
对焊Butt Welding	L1	368	419	381	457	610	737	838	965	1092	1130	1219	1321	1549	1700	1780	1960	2100	2376
手动 Hand-operated	H	148	191	216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	W	650	650	650	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Kg	50	55	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
蜗轮传动 Worm gear operated	H	-	-	-	270	384	435	518	657	693	762	866	894	965	1160	1240	1310	1420	1530
	W	-	-	-	600	800	800	800	800	800	800	800	800	800	800	1000	1000	1000	1000
	Type	-	-	-	B	-	C	D	D	DA	DB	DC	DD	DH	DH	DJ	DJ	DK	DK
	Kg	-	-	-	150	360	620	1100	1600	1850	2200	2800	4250	7000	12500	14500	18000	22000	32000
气动 Air-operating	H	519	-	728	842	1014	1120	1124	13747	1490	1615	1760	1760	1760	-	-	-	-	-
	H1	295	-	519	595	770	815	1004	1154	1210	1335	1410	1410	1410	-	-	-	-	-
	L2	287	-	378	530	530	680	1455	1455	1665	1665	1960	1960	1960	-	-	-	-	-
	L3	287	-	378	530	530	680	1455	1455	1665	1665	1960	1960	1960	-	-	-	-	-
	Type	AW17	-	AW17	AW20	AW20	AW28	AW28	C1-355	C1-355	C2-490	C2-490	C2-490	C3-600	-	-	-	-	-
	Kg	80	-	145	225	380	700	1200	1750	1900	2300	2900	4350	8100	-	-	-	-	-
电动 Electric Driving	H	-	-	-	418	625	612	817	908	866	1035	1139	1167	1279	1854	1934	2004	2114	2224
	H1	-	-	-	270	384	435	518	657	693	762	866	894	956	1130	1210	1280	1390	1500
	W	-	-	-	200	280	280	280	305	305	305	400	400	600	600	600	600	600	600
	Type	-	-	-	SMC-04 +H1BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC
	Kg	-	-	-	240	390	710	1300	1780	2000	2410	3110	4420	8250	13200	16000	19500	23500	33100

主要外形尺寸及重量/Main Size of Outside & Weight</



设计标准

1. 设计标准: API 6D、GB/T12237
2. 结构长度: API 6D、ASME B16.10、GB/T12221
3. 法兰尺寸: ASME B16.5、ASME B16.47、GB/T9113、HG/T 20592
4. 试验和检验: API 598、JB/T9092

注: 1. 系列阀门连接法兰端尺寸可根据用户要求设计制造。
2. DN > 1000 (40") 阀门设计标准按《长输管线阀门技术条件》

Design Construction

1. Design Standard: API 6D、GB/T12237
2. Face to Face: API 6D、ASME B16.10、GB/T12221
3. Flanged size: ASME B16.5、ASME B16.47、GB/T9113、HG/T 20592
4. Test & Inspection: API 598、JB/T9092

Notes: 1. The sizes of serial valve connecting flange ends can be designed according to customer's requirement.
2. DN > 1000 (40"), the design standard is accordance with 《Specification of the length pipe valve》

主要零件材料/Major Parts Material Form

序号 No.	零件名称Part name	材质Material ASTM	序号 No.	零件名称Part name	材质Material ASTM
1	衬套Bushing	NiKealium+PTFE		板簧Plate spring	AISI 9260
2	垫片Machine screw	A105	10	旋转装置Device for seat rotating	
3	弹簧Spring	Inconel 750		阀杆密封Sealing ring for stem	PTFE
4	阀体Body	A105	12	衬套Bushing	NiKealium+PTFE
5	螺柱Stud	A193-B7	13	阀杆Stem*	A182-F6a
6	球体Ball**	WCB+ENP	14	连接套Connection set	AISI C 1045
7	阀座Seat	A105	15	驱动装置Driving	
8	密封圈Sealing ring	PTFE			

注: *抗硫型阀门的该零件的材质为ASTM(A276-321)

**抗硫型阀门的该零件的材质为ASTM(A182-304、CF8+Ni.P)

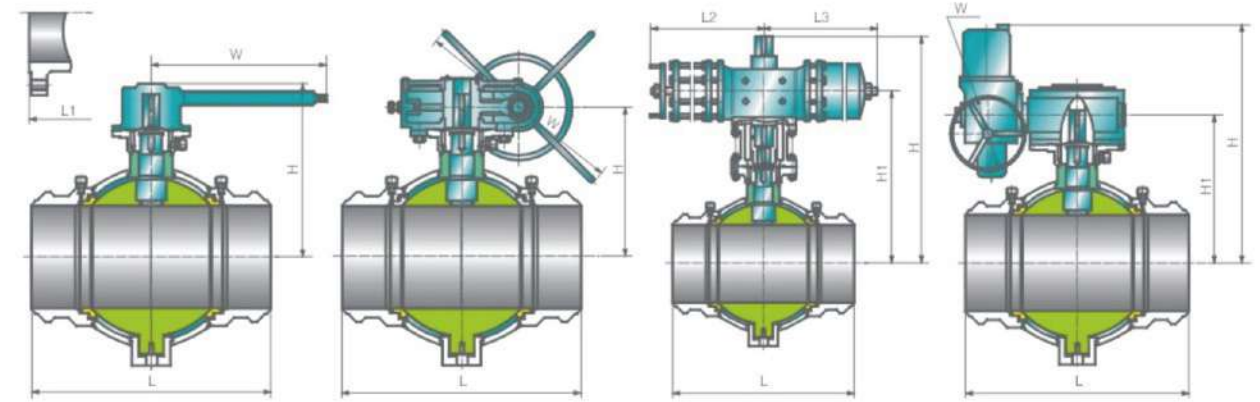
系列阀门主要零部件及密封面的材质可根据实际工况条件或用户特殊要求设计选用。

Notes: *The material of this part about the anti-sulphur type valve is ASTM(A276-321)

**The material of this part about the anti-sulphur type valve is ASTM(182-304、CF8+Ni.P)

Major parts of the valve series and materials of sealing surface differ according to actual working condition and customer's special requirement.

全焊接固定球阀PN1.6MPa CLASS 150~PN25.0MPa CLASS 1500



手柄操作 Lever operator

蜗轮操作 Gear operator

气动操作 Pneumatic operator

电动操作 Electric operator

主要外形尺寸及重量/Main Size of Outside & Weight

PN1.6MPa CLASS 150

DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1050	1200	1400	1500
NPS	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	28	32	36	40	42	48	56	60
法兰Flange	L	216	241	283	305	381	457	521	559	635	762	838	914	991	1143	1346	1524	1727	1930	1829	2180	2300	2400
对焊Butt Welding	L1	178	191	203	229	356	394	457	533	610	686	762	864	914	1067	1245	1372	1524	1721	1689	2100	2250	2400
手动 Hand- operated	H	107	125	152	178	300	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	W	230	350	400	450	700	750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Kg	23	42	50	65	70	82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
蜗轮传动 Worm gear operated	H	-	-	-	-	-	-	337	385	414	447	510	538	585	665	730	930	990	1070	1260	1370	1480	1550
	W	-	-	-	-	-	-	600	600	800	800	800	800	800	800	800	800	800	800	800	800	800	800
	Type	-	-	-	-	-	-	B	B	C	C	D	D	D	DA	DA	DB	DB	DC	DC	DD	DH	HD
	Kg	-	-	-	-	-	-	133	208	312	413	577	780	1028	1706	2534	3644	4986	6800	8500	11173	12300	15800
气动 Pneumatic operated	H	269	379	389	479	552	666	804	839	972	1127	1495	1529	1599	1645	1160	1460	1510	1610	-	-	-	-
	H1	174	248	258	322	395	457	595	630	728	883	1154	1224	1294	915	930	1100	1150	1250	-	-	-	-
	L2	89	148	148	287	287	378	378	378	530	530	680	680	680	1455	1455	1665	1665	1960	-	-	-	-
	L3	181	257	257	287	287	378	378	378	530	530	680	680	680	1455	1455	1665	1665	1960	-	-	-	-
	Type	AG09	AG13	AG13	AW13	AW13	AW17	AW17	AW17	AW20	AW20	AW26	AW26	AW26	C1-355	C1-355	C2-400	C2-400	C3-600	-	-	-	-
电动 Electric Driving	Kg	40	50	72	80	110	130	180	300	350	450	610	820	1100	1900	2600	4000	5100	7200	-	-	-	-
	H	-	-	-	-	-	435	480	532	600	610	670	760	763	903	982	1108	1445	1655	1954	2064	2174	2244
	H1	-	-	-	-	-	215	262	315	320	360	420	510	590	630	725	835	880	970	1230	1340	1450	1520
	W	-	-	-	-	-	200	200	200	280	280	280	305	305	305	400	400	460	460	600	600	600	600
	Type	-	-	-	-	-	SMC-04 +H0BC	SMC-04 +H0BC	SMC-04 +H1BC	SMC-04 +H1BC	SMC-03 +H0BC	SMC-03 +H0BC	SMC-03 +H0BC	SMC-03 +H0BC	SMC-03 +H0BC	SMC-03 +H0BC	SMC-03 +H0BC	SMC-03 +H0BC	SMC-03 +H0BC	SMC-03 +H0BC	SMC-03 +H0BC	SMC-03 +H0BC	SMC-03 +H0BC
	Kg	-	-	-	-	-	145	196	310	360	475	625	880	1200	2100	2750	4230	6000	7800	9000	12500	14000	17000

主要外形尺寸及重量/Main Size of Outside & Weight

PN2.5、4.0MPa CLASS 300

DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1050	1200	1400	1500
NPS	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	28	32	36	40	42	48	56	60
法兰Flange	L	216	241	283	305	381	457	521	559	635	762	838	914	991	1143	1346	1524	1727	2083	2050	2180	2300	2400
对焊Butt Welding	L1	216	241	283	305	381	403	502	568	648	762	838	914	991	1143	1346	1524	1727	2083	1960	2020	2250	2400
手动 Hand- operated	H	107	125	152	178	300	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	W	230	400	400	600	750	800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Kg	32	48	65	75	82	91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
蜗轮传动 Worm gear operated	H	-	-	-	-	-	-	278	375	460	465	510	538	660	830	880	930	990	1070	1260	1370	1480	1550
	W	-	-	-	-	-	-	600	600	800	800	800	800	800	800	800	800	800	800	800	800	800	800
	Type	-	-	-	-	-	-	B	B	C	C	D	D	DA	DB	DC	DC	DD	DD	DD	DD	DD	DD
气动 Pneumatic operated	H	269	379	452	579	595	595	736	942	994	1188	1280	1480	1554	1380	1430	1599	1790	1850	-	-	-	-
	H1	209	248	295	322	386	386	527	698	570	883	975	1080	1154	930	980	1149	1190	1250	-	-	-	-
	L2	148	148	287	287	378	378	530	530	680	680	680	1455	1455	1665	1665	1960	1960	-	-	-	-	-
电动 Electric Driving	L3	181	257	287	287	378	378	530	530	680	680	680	1455	1455	1665	1665	1960	1960	-	-	-	-	-
	Type	AG13	AG13	AW13	AW13	AW17	AW17	AW20	AW20	AW28	AW28	C1-355	C1-355	C2-490	C2-490	C2-490	C3-600	C3-600	-	-	-	-	-
	Kg	49	64	70	82	112	145	220	310	395	510	752	1000	1320	2200	3200	4520	6500	9100	-	-	-	-
	H	-	-	-	-	-	434	480	432	641	611	670	761	763	903	998	1108	1565	1655	2105	2245	2395	2470
	H1	-	-	-	-	-	217	263	315	360	360	420	510	590	670	725	835	880	970	1420	1560	1710	1785
	W	-	-	-	-	-	200	200	200	280	280	305	305	305	400	4600	460	460	600	600	600	600	600
	Type	-	-	-	-	-	SMC-04 +H1BC	SMC-04 +H1BC	SMC-04 +H1BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC
	Kg	-	-	-	-	-	170	290	330	415	525	780	1200	1380	2400	3500	4630	6850	10500	11000	14000	15200	18100

主要外形尺寸及重量/Main Size of Outside & Weight

PN10.0MPa CLASS 600

DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1050	1200	1400	1500
NPS	in	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	28	32	36	40	42	48	56	60
法兰Flange	L	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1549	1778	2083	2337	2100	2400	2400	2700
对焊Butt Welding	L1	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1549	1778	2083	2337	2050	2180	2300	2400
手动 Hand- operated	H	108	155	197	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	W	500	650	650	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Kg	45	60	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
蜗轮传动 Worm gear operated	H	-	-	-	115	180	254	325	392	390	455	590	630	830	960	1030	1171	1250	1260	1370	1480	1550
	W	-	-	-	600	600	800	800	800	800	800	800	800	800	800	800	800	800	1000	1000	1000	1000
	Type	-	-	-	B	C	C	D	D	DA	DA	DB	DC	DD	DH	DH	DH	DH	DJ	DJ	DK	DK
气动 Pneumatic operated	H	269	-	519	636	728	839	1014	1120	1224	1374	-	1490	1615	1760	-	-	-	-	-	-	-
	H1	209	-	295	479	519	595	770	815	1004	1154	-	1210	1335	1410	-	-	-	-	-	-	-
	L2	148	-	287	287	378	530	530	680	1445	1445	-	1665	1665	1960	-	-	-	-	-	-	-
电动 Electric Driving	L3	257	-	287	287	378	530	530	680	1445	1445	-	1665	1665	1960	-	-	-	-	-	-	-
	Type	AG13	-	AW13	AW13	AW17	AW20	AW20	AW28	C1-355	C1-355	-	C2-490	C2-490	C3-600	-	-	-	-	-	-	-
	Kg	60	-	105	112	160	220	320	470	610	890	-	1600	2700	4000	-	-	-	-	-	-	-
	H	-	-	-	-	480	532	641	651	670	761	783	943	998	1108	1238	1350	1400	1954	2064	2174	2244
	H1	-	-	-	-	262	360	400	474	472	510	610	670	725	835	915	1050	1100	1230	1340	1450	1520
	W	-	-	-	-	200	200	280	280	280	305	305	305	400	400	600	600	600	600	600	600	600
	Type	-	-	-	-	SMC-04 +H1BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC
	Kg	-	-	-	-	175	240	350	495	625	920	1200	1280	2900	4350	5800	8200	11200	14100	19000	23000	24000

主要外形尺寸及重量/Main Size of Outside & Weight

PN15.0MPa CLASS 900

DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	750	800	900	1000	1200
NPS	in	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	30	32	36	40	48
法兰Flange	L	368	419	381	457	610	737	838	965	1092	1130	1219	1321	1549	1780	2050	2050	2180	2600
对焊Butt Welding	L1	368	419	381	457	610	737	838	965	1092	1130	1219	1321	1549	1700	1780	1960	2100	2376
手动 Hand- operated	H	217	241	259	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	W	650	650	650	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Kg	58	76	96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
蜗轮传动 Worm gear operated	H	-	-	-	177	244	274	382	452	515	602	708	714	736	1050	1090	1150	1230	1530
	W	-	-	-	600	800	800	800	800	800	800	800	800	800	800	1000	1000	1000	1000
	Type	-	-	-	B	-	C	D	D	DA	DB	DC	DD	DH	DH	DJ	DJ	DK	DK
气动 Pneumatic operated	H	519	-	728	842	1014	1120	1224	1374	1490	1615	1760	1760	1760	-	-	-	-	-
	H1	295	-	519	595	770	815	1004	1154	1210	1335	1410	1410	1410	-	-	-	-	-
	L2	287	-	378	530	530	680	1455	1455	1665	1665	1960	1960	1960	-	-	-	-	-
电动 Electric Driving	L3	287	-	378	530	530	680	1455	1455	1665	1665	1960	1960	1960	-	-	-	-	-
	Type	AW17	-	AW17	AW20	AW20	AW28	AW28	C1-355	C1-355	C2-490	C2-490	C2-490	C3-600	-	-	-	-	-
	Kg	70	-	115	125	165	240	390	620	790	1240	1700	2250	3420	-	-	-	-	-
	H	-	-	-	480	641	651	711	811	783	963	1058	1148	1238	1744	1784	1844	1294	2044
	H1	-	-	-	262	400	474	512	550	610	690	785	875	915	1020	1060	1120	1200	1320
	W	-	-	-	200	280	280	280	305	305	305	400	400	600	600	600	600	600	600
	Type	-	-	-	SMC-04 +H1BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-03 +H2BC
	Kg	-	-	-	128	175	265	395	635	812	1320	1750	2350	3560	4200	8100	11800	12500	20000

主要外形尺寸及重量/Main Size of Outside & Weight

PN25.0MPa CLASS 1500

DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
NPS	in	2	2½	3	4	6	8	10	12	14	16	18	20	24
法兰Flange	L	368	419	470	546	705	832	991	1130	1257	1384	1537	1664	2043
对焊Butt Welding	L1	368	419	470	546	705	832	991	1130	1257	1384	1537	1664	2043
手动 Hand- operated	H	217	241	259	—	—	—	—	—	—	—	—	—	—
	W	650	650	650	—	—	—	—	—	—	—	—	—	—
	Kg	75	82	105	—	—	—	—	—	—	—	—	—	—
蜗轮传动 Worm gear operated	H	137	161	169	177	244	355	458	576	601	671	740	770	860
	W	600	600	600	600	800	800	800	800	800	800	800	800	800
	Type	A	A	B	B	C	D	D	DA	DB	DC	DD	DH	DH
	Kg	85	98	115	125	145	240	395	610	820	1250	1680	2400	3580
气动 Pneumatic operated	H	519	728	842	1014	1120	1124	1374	1490	1615	1760	1760	1760	—
	H1	295	519	595	770	815	1004	1154	1210	1335	1410	1410	1410	—
	L2	287	378	530	530	680	1455	1455	1665	1665	1960	1960	1960	—
	L3	287	378	530	530	680	1455	1455	1665	1665	1960	1960	1960	—
	Type	AW17	AW17	AW17	AW20	AW28	AW28	C1-355	C1-355	C2-490	C2-490	C2-429	C3-600	—
	Kg	95	115	120	145	180	290	420	700	890	1300	1820	2610	—
电动 Electric Driving	H	—	—	542	641	651	711	801	823	965	1085	1168	1238	—
	H1	—	—	370	400	474	512	550	650	690	785	895	915	—
	W	—	—	200	280	280	280	305	305	305	400	400	600	—
	Type	—	—	SMC-04 +H1BC	SMC-04 +H1BC	SMC-00 +H0BC	SMC-00 +H0BC	SMC-0 +H1BC	SMC-0 +H0BC	SMC-1 +H0BC	SMC-3 +H0BC	SMC-3 +H0BC	SMC-4 +H7BC	—
	Kg	—	—	142	160	196	320	452	850	910	1420	1960	2820	—

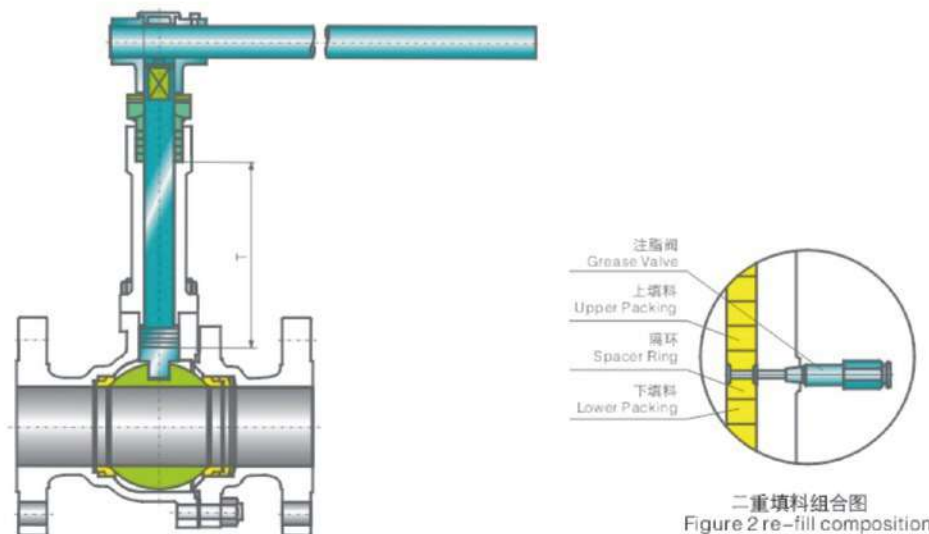
用途

系列低温球阀主要适用于乙烯、液化天然气等化工装置上，输出的液态低温介质如乙烯、液氧、液氢等。这类介质不但易燃易爆，而且在升温时要气化，气化时，体积膨胀数百倍。而且这些介质渗透力强，易泄漏，加工制造比较困难。

结构特性

1. 承压件的材料能承受介质温度的变化而引起的膨胀、收缩，密封部位的结构在温度变化时不会产生永久的变形。用于-100℃以下工况时，阀门零件在精加工前应进行深冷处理，即将零件浸放在液氮箱中进行冷却，当零件温度达到-196℃时，开始保温1~2h，然后取出箱外自然处理到常温，重复循环2次。
2. 阀盖采用长颈结构，其目的保护填料函的功能，使填料函处于离低温较远的位置，保证填料的密封效果。同时还可以缠绕保冷材料，防止冷能损失。长颈的颈长(H,见左图)可根据使用温度和保冷材料的厚度来选择不同的长度。当填料密封效果降低时，可以从填料函的压差，提高密封性能。
3. 使用温度低于-100℃时，阀杆材料经过镀铬或氮化处理，提高阀杆表面硬度，提高填料密封的可靠性。
4. 低温球阀具有防止异常升压结构，由于低温阀门介质气化后，其体积急剧膨胀，压力会异常升高，当阀门中腔压力升高时，阀门中腔和进口侧连通，或在阀门进口端安装泄压阀，保证阀门安全使用。
5. 低温球阀用的垫片具有在常温下、低温状态及温度变化下能可靠密封性和复原性。

产品结构型式/Structural Type



Applicability

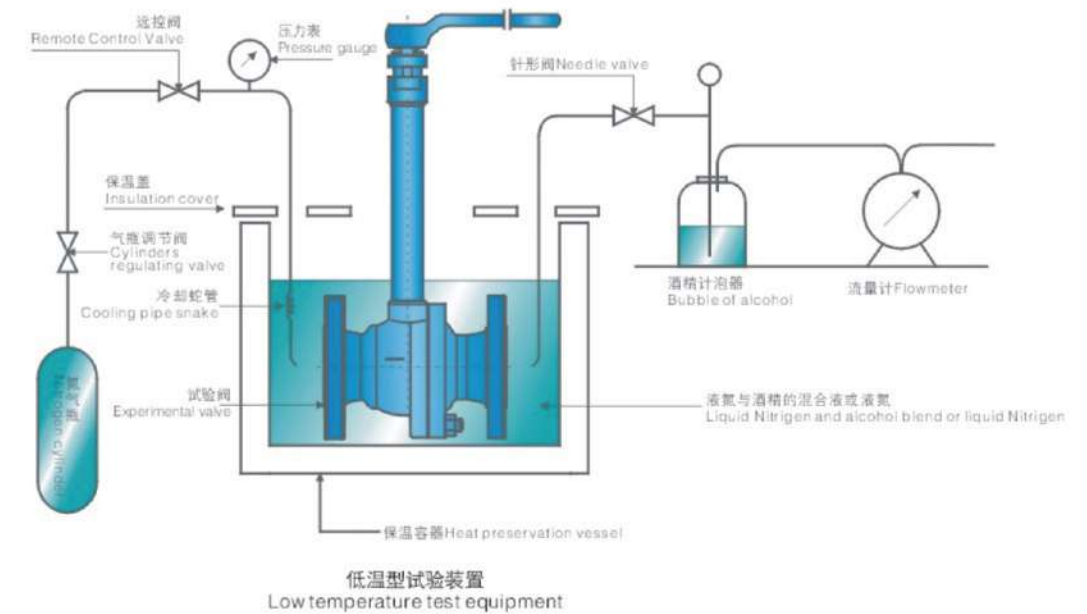
Low temperature ball valves are mainly used in the chemical equipment of ethylene and LNG etc. to handle low temperature liquid medium like ethylene, liquid oxygen, liquid hydrogen and so on. These types of inflammable and explosive medium can be volumetrically expanded by several hundred times when being gasified under temperature rise, and are difficult to manufacture due to their highly penetrative and leaky properties.

Structural Properties

1. The materials of compression parts can endure the expansion and shrinkage resulted from the temperature variation of medium, and seal structure is away from permanent deformation under temperature changes. To work under the conditions below -100℃, the parts of valve shall be subject to deep cooling treatment before precision machining. Namely, have the parts cooled in liquid nitrogen box, when the temperature of parts reaches -196℃, keep the temperature for 1~2h, then take them out to have them to the normal temperature naturally, and do in this way twice.
2. Bonnet is extended for the purpose to protect the function of packing box, making packing box somewhat away from low temperature to ensure good seal of packing. Besides, it can be wound with cold insulating materials to prevent loss of cold energy. The length of neck (H, see the drawing on the left) depends on service temperature and the thickness of cold insulating material. When the effect of packing seal turns lower, fill in grease to form up oil seal layer from the middle of packing box. (see combined packing structure) to lower the differential pressure of packing box and enhance the reliability of seal.
3. To serve a temperature below -100℃, the material of valve stem shall be treated with chrome plating or nitriding to enhance the surface hardness of valve stem and the sealing reliability of packing.
4. Low temperature ball valve takes a structure to avoid abnormal pressure rise. As the medium in low temperature valve is gasified and rapidly expanded in volume, the pressure will go extremely high. When the pressure in the middle cavity of valve rises, the middle cavity and the inlet side can be communicated, or a relief can be mounted at the inlet side of valve, thus to ensure the safe use of valves.
5. The gaskets used on low temperature ball valves may function reliable seal and restoration under normal and low temperature or under the conditions of temperature changes.

低温球阀型式试验/Type Test Of Low Temperature Ball Valves

按照有关标准要求，低温球阀型式试验在常温压力试验合格后，还需进行低温压力试验。其原理图如下：
In accordance with the requirements of relative standards, the type test low temperature ball valves shall be carried out under both normal and low temperatures. With its principle as following:



低温球阀主要外形连接尺寸/Main Overall Connection Dimensions Of Low Temperature Ball Valves

低温球阀的主要外形连接尺寸参照侧装式浮动球阀和固定球阀，阀门高度尺寸在其基础上加长颈的高度，故不再列尺寸表。
The main overall connection dimensions of low temperature ball valve may be referred to side-mounted float ball valve and fixed ball valve, with extra height added to that basis, and the dimensions list is omitted here.

低温球阀技术规范/Low Temperature Ball Valve Technical Specifications

技术规范Technical specification	API系列Series	GB系列Series
基本设计规范Design codes	GB/T 24925	
压力温度等级Pressure/Temperature rating	ANSI B16.34	GB/T 12224
结构长度Face to face dimension	ASME B16.10	
连接法兰Flange ends	ASME B16.5	GB/T 9113/HG 20596
检验与试验Inspection and test	API 598*, GB/T 24925	JB/T 9092*, GB/T 24925

*低温球阀在常温下压力试验合格后，还需进行低温压力试验，其原理见低温球阀型式图。
Low temperature ball valves shall be subject to pressure test under low temperature after the pressure test under normal temperature with its principle referred to the type drawing of low temperature ball valve.

低温球阀盖加长颈部长(参考)
Extension Length Of Stem Neck For Low Temp.
Service(reference Only)

公称通径Nominal size		颈部长Extension lengthH(mm)		
DN	in	≥-60℃	≥-100℃	<-100℃
15	1/2	90	110	130
20	3/4	100	110	140
25	1	100	120	150
32	1 1/4	110	120	150
40	1 1/2	110	130	160
50	2	110	130	170
65	2 1/2	120	140	180
80	3	120	150	190
100	4	130	160	200
125	5	130	160	200
150	6	140	170	220
200	8	140	170	220
250	10	150	180	240
300	12	150	180	240
350	14	160	190	250
400	16	160	190	250

供货范围/Supply Scope

公称通径Nominal size		Pressure压力等级 CLASS
DN	in	150Lb、300Lb、PN1.6~10.0MPa
15	1/2	△/●
20	3/4	△/●
25	1	△/●
32	1 1/4	△/●
40	1 1/2	△/●
50	2	△/★/●
65	2 1/2	△/★/●
80	3	△/★/●
100	4	△/★/●
125	5	△/★/●
150	6	△/★/●
200	8	△/★/●
250	10	△/★/●
300	12	△/★/●
350	14	△/★/●
400	16	△/★/●

注: ★表示电动操作阀门; △表示气动操作阀门; ●表示手柄操作阀门; —表示没有此选项, 表示未涉及的可按用户的要求制造。

Note: ★stands for electrically operated valves; △stands for air operated valves; ●stands for handle operated valves; —stands for no option of this. Those not covered in the table can be custom made to users' requirements.

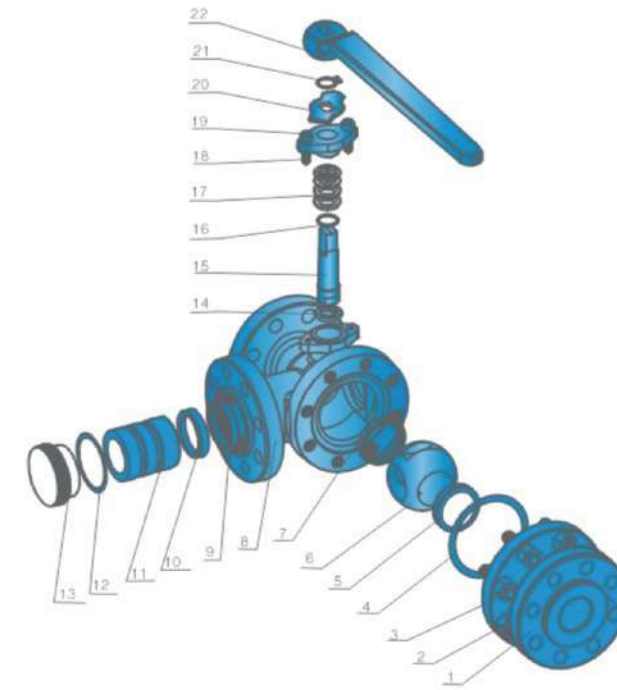
◆球阀阀体低温材料最低使用温度/Working Temperature For Different Material

锻件Forging		铸件Casting	
标准、材料牌号 Standards, materials code	最低温度℃ Lowest temp	标准、材料牌号 Standards, materials code	最低温度℃ Lowest temp
ASTM A350 LF2	-45.6℃	ASTM A352 LCB, LCC	-46℃
ASTM A350 LF5	-59.4℃	ASTM A352LC1	-59℃
ASTM A350 LF9	-73.3℃	ASTM A352 LC2	-73℃
ASTM A350 LF3	-101.1℃	ASTM A352 LC3	-101℃
ASTM A182 F304	-254℃	ASTM A351 CF8	-254℃
ASTM A182 F316	-254℃	ASTM A351 CF8M	-254℃
ASTM A182 F304L	-254℃	ASTM A351 CF3	-254℃
ASTM A182 F316L	-254℃	ASTM A351 CF3M	-254℃

三通球阀制造规范/3-Way Ball Valve Manufacture Norms

标准Standards	API系列API Series	DIN系列 Series
基本设计规范 Design standards	ANSI B 16.34	
压力温度等级 Pressure/Temperature rating	ANSI B 16.34	DIN3356
结构长度 Face to face dimensions	ASME B 16.10	
连接法兰Flange ends	ASME B 16.5 DIN 2543-2551	
检验与试验 Inspection and test	API598	DIN3230

阀门结构示意图(侧装浮动式爆炸图)
Structural Drawing (Side Entry Floating
Type Explosion Drawing)



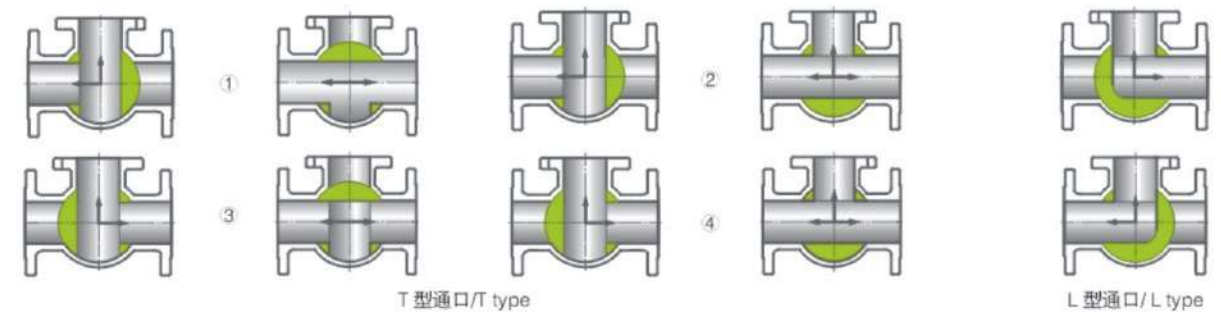
序号No.	零件名称Name of part	序号No.	零件名称Name of part
1	阀盖Bonnet	12	O型圈O-ring
2	螺母Nut	13	螺塞Insert plug
3	螺栓Bolt	14	阀杆Stem
4	垫片Gasket	15	垫片Stem washer
5	密封圈1Seat ring1	16	填料Stem packing
6	球体Ball	17	螺钉Gland screw
7	密封圈2Seat ring2	18	填料压盖Gland
8	阀体Body	19	限位片Stop plate
9	密封圈3Seat ring3	20	挡圈Snap ring
10	密封圈4Seat ring4	21	手柄Lever
11	阀座Seat		

球阀功能

三通球阀适用于在-46℃~+200℃温度下对腐蚀或非腐蚀性液体、气体、粉末介质实现切换、混合和分流; 开闭过程中, 流路通畅减小了压力损失, 操作省力、维修方便; 五种流向(见右图: L型一种、T型四种)类型满足不同工艺要求, 可进行手、气动、电动控制。

结构特点

1. 阀座可设计成四面座浮动球和固定球, 流态稳定, 密封可靠;
2. 结构可设计成侧装式和顶装式, 双向密封设计; 流向切换绝无串流;
3. 防飞出阀杆设计;
4. 防静电设计;
5. 两位(开合关位置)锁定设计。



T 型通口/T type

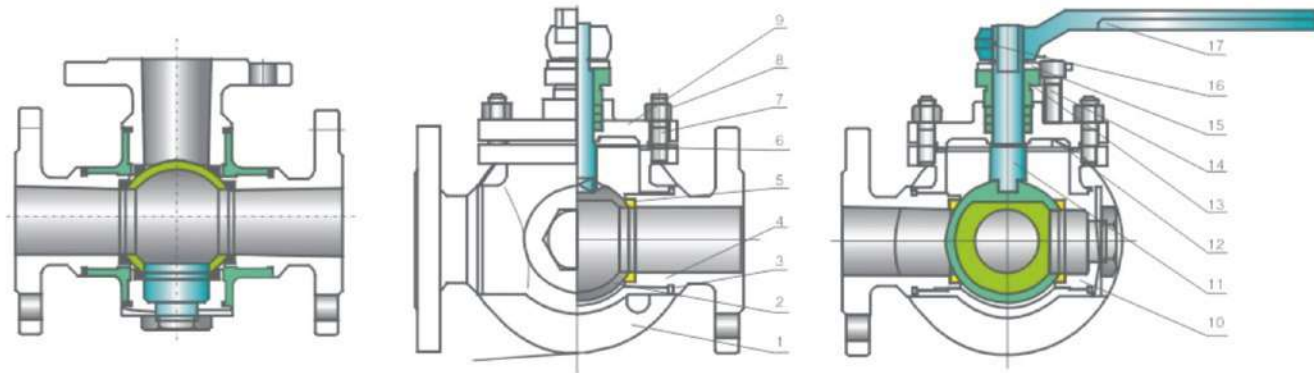
L 型通口/L type

Function

Three-way ball valves are used to switch over, mix and divide the flow of corrosive or non corrosive liquid, gas or powdery mediums. Upon opening and closing, the smooth flow channel effects less pressure loss, making operation quite labor-saving and maintenance fairly easy. The five types of flow direction (figure on the right, 1 for L-shaped and 4 for T-shaped) to meet different technological requirements. It can be hand, air and electrically operated.

Structural Features

1. Valve seat can be designed into four-side seated float ball and fixed ball, with smooth fluid state and reliable seal;
2. The structure can be designed into side entry type and top entry type, with two way seal, no series flow upon switch over of flow direction;
3. Anti-blowout design of valve stem;
4. Antistatic design;
5. Two position (ON and OFF) lockup design.



主要零部件/Main Parts Materials

序号No.	零件名称Name of part	序号No.	零件名称Name of part
1	阀体Body	10	阀座圈Seat retainer
2	球体Ball	11	阀杆Stem
3	O型圈O-ring	12	填料Stem packing
4	法兰盘Adapter	13	填料压盖Packing gland
5	密封圈Seat ring	14	限位螺钉Stop screw
6	垫片Gasket	15	限位片Stop plate
7	螺栓Bolt	16	紧定螺钉Set screw
8	螺母Nut	17	手柄Lever
9	阀盖Bonnet		

供货范围/Supply Scope

公称通径Nominal size		压力等级Class	
DN	in	150	300
15	1/2	●	●
20	3/4	●	●
25	1	●	●
32	1 1/4	●	●
40	1 1/2	●	●
50	2	●	●
65	2 1/2	●	●
80	3	●	●
100	4	●	●
125	5	●	●
150	6	☆	☆
200	8	☆	☆
250	10	☆	☆

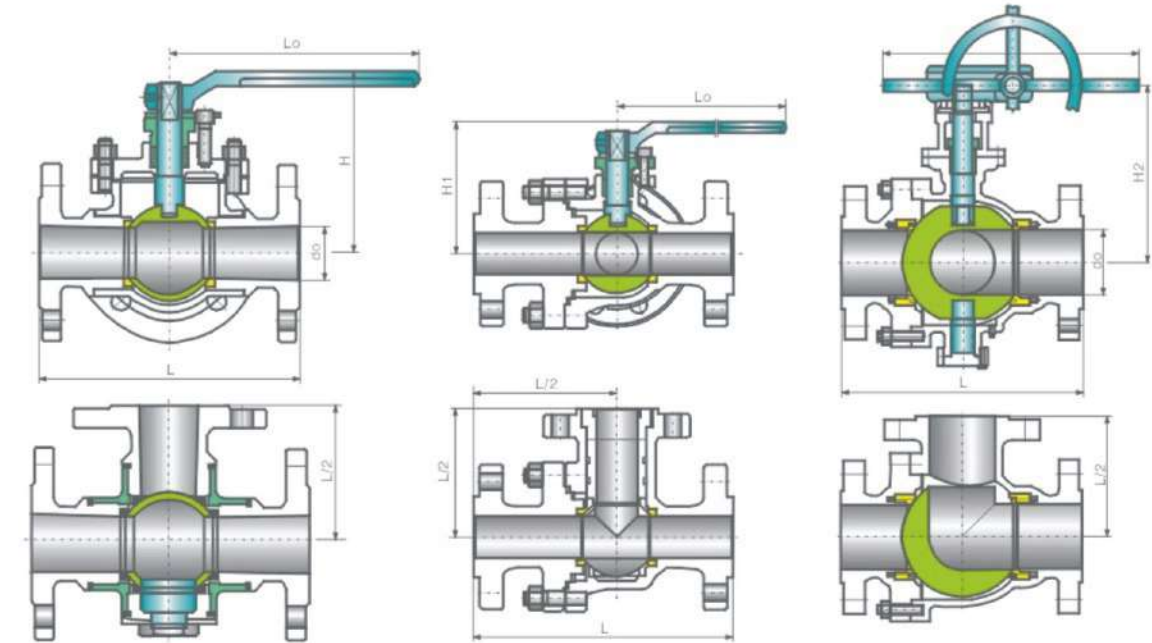
注：●表示手柄操作阀门；
☆表示齿轮箱操作阀门；
—表示没有此选项，
表中未涉及的可按用户的要求制造。

Note: ●stands for handle operated valves;
☆stands for gearbox operated valves;
—stands for no option of this.
Those not covered in the table can be custom made to users' requirements.

主要零部件材料(侧装式结构)/Main Parts Materials(Side Entry Type)

序号 No.	零件名称 Name of part	材料Material			序号 No.	零件名称 Name of part	材料Material		
		碳钢 Carbon steel	不锈钢 Stainless steel	低温钢 Low temperature steel			碳钢 Carbon steel	不锈钢 Stainless steel	低温钢 Low temperature steel
1	阀盖Bonnet	A216 WCB	A351 CF8M	A352 LCB	12	O型圈O-ring		氟橡胶 Viton	
2	螺母Nut	A194 2H	A194 8	A194 4	13	螺塞Insert plug	A105+ENP	A182 F316	A350 LF3
3	螺栓Bolt	A193 B7	A193 B8	A320 L7	14	阀杆Stem	A182 F6a	A182 F316	A182 F316
4	垫片Gasket	柔性石墨+SS Flexible graphite+SS			15	垫片Gasket	PTFE/RPTFE		
5	密封圈Seat ring	PTFE/RPTFE			16	填料Stem packing	PTFE/柔性石墨PTFE/Flexible graphite		
6	球体Ball	A105+ENP	A182 F316/F304	A350 LF3/LF2+ENP	17	螺钉Screw	A193 B7	A193 B8	A320 L7
7	密封圈Seat ring	PTFE/RPTFE			18	填料压盖 Packing gland	A216 WCB	A351 CF8M	A352 LCB
8	阀体Body	A216 WCB	A351 CF8M	A352 LCB	19	限位片Stop plate	A105+ENP		
9	密封圈Seat ring	PTFE/RPTFE			20	挡圈Snap ring	65Mn		
10	密封圈Seat ring	PTFE/RPTFE			21	手柄Lever	Q235A		
11	阀座Seat retainer	A105+ENP	A182 F316	A350 LF3					

三通球阀PN1.6MPa CLASS 150/PN2.5、4.0MPa CLASS 300



主要外形尺寸及重量/Main Size of Outside & Weight

PN1.6MPa CLASS 150

DN	NPS	L	do	H	H1	H2	L0	W	重量 Weight(kg)	
15	1/2	140	13	90	70	/	160	/	3	
20	3/4	150	15	106	86	/	230	/	4	
25	1	160	25	109	88	/	230	/	6	
32	1 1/4	/	32	125	106	/	400	/	10	
40	1 1/2	210	38	149	132	/	400	/	14	
50	2	220	51	154	137	/	400	/	20	
65	2 1/2	250	64	189	162	/	700	/	25	
80	3	260	76	198	170	/	700	/	32	
100	4	330	102	254	229	/	1050	/	45	
125	5	430	127	273	247	/	1050	/	/	/
150	6	510	152	/	/	314	/	450	/	/
200	8	580	203	/	/	430	/	600	/	/
250	10	670	250	/	/	475	/	600	/	/

主要外形尺寸及重量/Main Size of Outside & Weight

PN2.5、4.0MPa CLASS 300

DN	NPS	L	do	H	H1	H2	L0	W	重量 Weight(kg)	
									PN2.5	PN4.0
15	1/2	140	13	90	70	/	160	/	3	3
20	3/4	150	15	106	86	/	230	/	4	4
25	1	160	25	109	88	/	230	/	6.5	6.5
32	1 1/4	/	32	125	106	/	400	/	11	11
40	1 1/2	210	38	149	132	/	400	/	15	15
50	2	220	51	154	137	/	400	/	21.5	21.5
65	2 1/2	250	64	189	162	/	700	/	/	/
80	3	260	76	198	170	/	700	/	35	35
100	4	330	102	254	229	/	1050	/	49	49
125	5	430	127	273	247	/	1050	/	/	/
150	6	510	152	/	/	314	/	450	/	/
200	8	580	203	/	/	430	/	600	/	/
250	10	670	250	/	/	475	/	600	/	/

四通球阀功能

四通球阀在电站系统中称为双向供水球阀(在石化系统中也称空气切换阀),适用于液体、气体、粉尘、浆料及含固体颗粒介质的循环系统。如:电站机组冷却器正反向循环供水系统。传统工艺配管方式实现冷却正反向供水,该装置所占空间大、成本高、操作烦琐(每次切换需操作四个阀门)、正向供水时阀1、3开启,阀2、4关闭;反向供水时阀2、4开启,阀1、3关闭。(见图1)采用四通球阀替代该工艺管汇和阀组的工作原理,简化程序、方便操作、降低成本、便于控制、同步性好。(见图2)

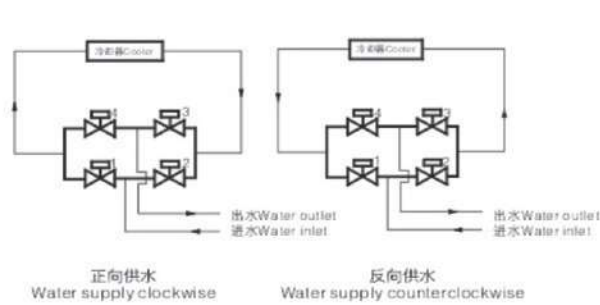


图1Figure1

结构特点

1. 针对电力系统冷却器正反向供水特定工艺过程设计, 功能适用、可靠;
2. 顶装式固定球四面座阀芯结构密封性能好、耐砂粒磨损、使用寿命长;
3. 电动、气动操作(必要时可切换到手动操作);
4. 便于控制控制箱与阀门间以及与上位机间有良好的信息通道和操作界面; 并可按工艺要求实现在一定时间间隔正反向供水的自动切换。

四通球阀制造规范/4-Way Ball Valve Manufacture Norms

标准 Standards	API系列 API series	DIN系列 DIN series
基本设计规范 Design codes	ANSI B16.34	
压力温度等级 Pressure/Temperature rating	ANSI B16.34	DIN3356
结构长度 Face to face dimensions	ASME B16.10	
连接法兰 Flange ends	ASME B16.5	DIN2543-2551
检验与实验 Inspection test	API 598	DIN3230

控制系统/Control System

四通球阀即可就地现场控制, 也可以通过控制箱中央控制系统实施远程集中控制。控制界面功能如下:
Four-way ball valve may be field controlled, or through control cabinet or central control system for remote centralized control. The functions of control interface as follows:

一、开关 Switch

1. 电源开关 Power Switch
2. 现场控制/远程控制转换开关 Field Control/Remote Control Changeover Switch
3. 手动循环/自动循环转换开关 Manual Circulation/Automatic Circulation Changeover Switch

二、按钮 Button

1. 正向供水 Forward Water Supply
2. 反向供水 Reverse Water Supply
3. 停 Pause

FourWayBall Valve Function

Four-way ball valve is also called multi-way water service rotary valve in power stations, and air reversing change over valve in petrochemical system. They are applicable for circulating system of liquid, gas, dust, slurry and medium containing solid particles. For example, the forward and reverse circulating water supply system of unit cooler in power station. The conventional piping for forward and reverse circulating water supply has the defects of large occupation, high cost, complicated operation (to operate four valves for each changeover), for forward water supply, valve 1 and 3 to be opened and valve 2 and 4 to be closed, for reverse water supply, valve 2 and 4 to be opened and valve 1 and 3 to be closed. (See figure 1). Use of four-way ball valve instead of the conventional piping and valve group can simplify operational procedures, lower the cost, facilitate the control and improve its asynchronism. (See figure 2)

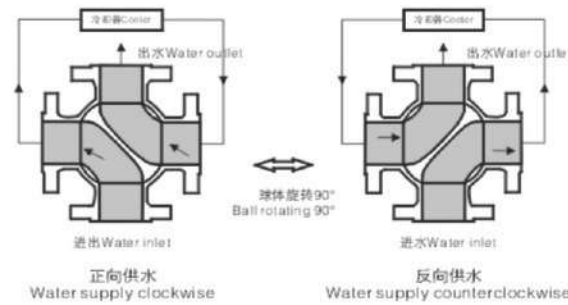


图2 Figure2

Structural Features:

1. Designed to meet the process of forward and reverse water supply of coolers in electric power system, with suitable and reliable functions;
2. Top mounted fixed ball four-side seated valve core, with sound sealing performance, resistance to sand abrasion, and long service life;
3. Electric and pneumatic operation (switched to hand operation if necessary);
4. Ensure facilitated control, good information channel and operating interface between control cabinet and valve, and upper-level machine. If requested, automatic switchover of forward and reverse water supply may be actualized by a certain interval.

三、指示灯 Indicator Light

1. 电源指示
Power Indicator
2. 正向供水指示
Forward Water Supply Indicator
3. 反向供水指示
Reverse Water Supply Indicator
4. 中位停顿指示
Middle Position Pause Indicator (Flash and Alarm upon OvertimePause)
5. 阀门或电卡阻过力矩指示 (闪烁并报警)
Valve or Electric Fitting Jammed Over-moment Indicator (Flash and Alarm)

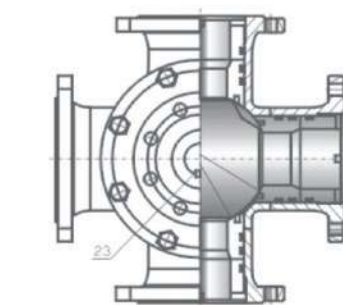
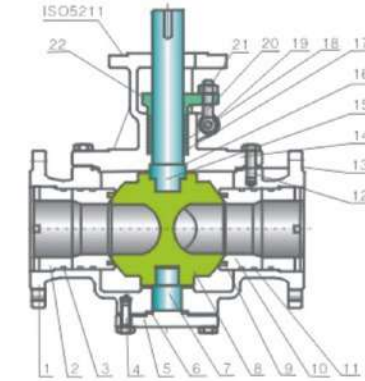
四、开度指示表 Opening Indicator

五、与上位机通讯 Communication with Upper Machine

电器参数:

电源AC 280V/50HZ,环境温度-20~+40℃,相对湿度≤90%(25℃时),防护等级IP67,电气原理图以使用说明书为准。

Electrical Parameters: Power supply AC 380V/50HZ, ambient temperature -20~+40℃, relative humidity =90% (at 25%), level of protection Ip67, schematic electrical diagram subject to instruction manual.



主要零部件材料/Main Parts Materials

序号 No.	零件名称 Name of part	材料 Material		
		碳钢 Carbon steel	不锈钢 Stainless steel	低温钢 Low temperature steel
1	阀体 Body	A216 WCB	A351 CF8M	A352 LCB
2	锁紧螺母 Insert	A105+ENP	A182 F316	A350 LF3
3	O型圈 O-ring	氟橡胶 Viton		
4	螺栓 Screw	A193 B7	A193 B8	A320 L7
5	底盖 End plate	A105+ENP	A182 F316	A350 LF3
6	垫片 Gasket	柔性石墨 Flexible graphite+SS		
7	下阀杆 Lower stem	A182 F6a	A182 F316	
8	球体 Ball	A105+ENP	A182 F316/F304	A350 LF3/LF2+ENP
9	密封圈 Seat ring	PTFE/RPTFE		
10	阀座 Seal retainer	A105+ENP	A182 F316	A350 LF3
11	O型圈 O-ring	氟橡胶 Viton		
12	螺栓 Bolt	A193 B7	A193 B8	A320 L7
13	垫片 Body gasket	柔性石墨+SS Flexible graphite+SS		
14	阀盖 Bonnet	A216 WCB	A351 CF8M	A352 LCB
15	阀杆 Stem	A182 F6a	A182 F316	A182 F316
16	垫片 Thrust washer	PTFE+SS		
17	填料垫 Packing gasket	A182 F6a	/	A182 F6a
18	填料 Stem packing	柔性石墨+SS Flexible graphite/PTFE		
19	销轴 Pin	A182 F6a		
20	活接螺栓 Eyelet bolt	A193 B7	A193 B8	A320 L7
21	螺母 Nut	A194 2H	A194 8	A 194 4
22	填料压盖 packing gland	A216 WCB	A351 CF8M	A352 LCB
23	键 Key	ANSI 1215		

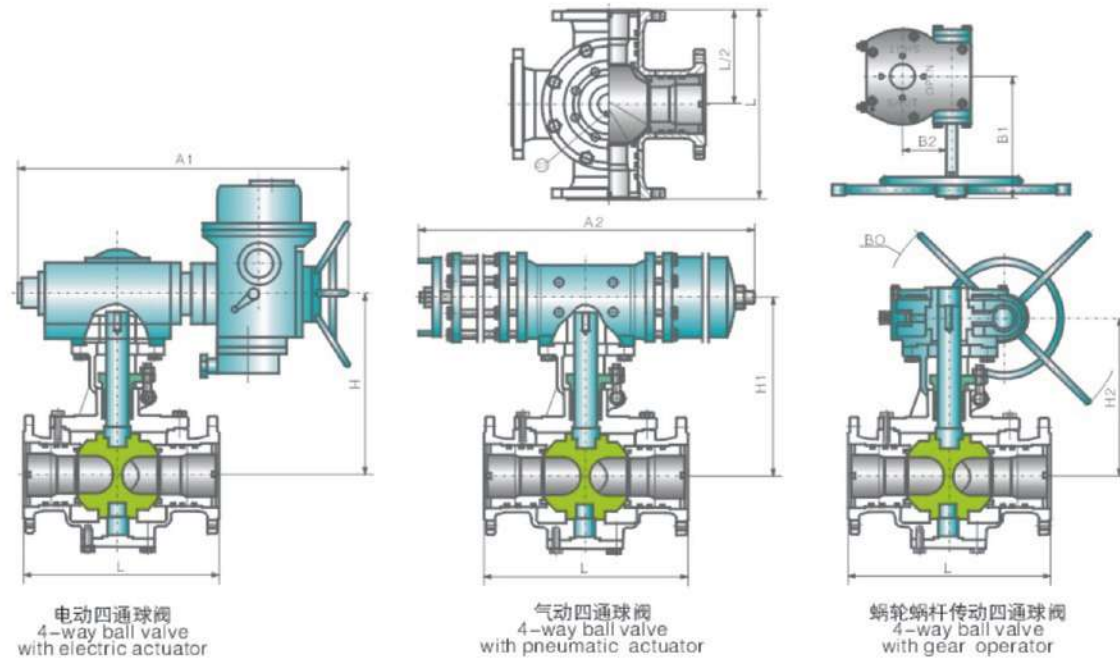
供货范围/Supply Scope

公称口径 Nominal size		压力等级 Class	
DN	in	150Lb	PN1.0\1.6\2.5MPa
50	2	△/★/☆	△/★/☆
65	2 1/2	△/★/☆	△/★/☆
80	3	△/★/☆	△/★/☆
100	4	△/★/☆	△/★/☆
125	5	△/★/☆	△/★/☆
150	6	△/★/☆	△/★/☆
200	8	△/★/☆	△/★/☆
250	10	△/★/☆	△/★/☆
300	12	△/★/☆	△/★/☆
350	14	△/★/☆	△/★/☆
400	16	△/★/☆	△/★/☆
450	18	△/★/☆	△/★/☆
500	20	△/★/☆	△/★/☆

注: ●表示手柄操作阀门;
☆表示齿轮箱操作阀门;
—表示没有此选项, 表示未涉及的可按用户的要求制造。

Note: ●stands for handle operated valves;
☆Stands for gearbox operated valves;
—Stands for no option of this.
Those not covered in the table can be custom made to users' requirements.

四通球阀PN1.6MPa CLASS 150/PN2.5、4.0MPa CLASS 300



主要外形尺寸及重量/Main Size of Outside & Weight

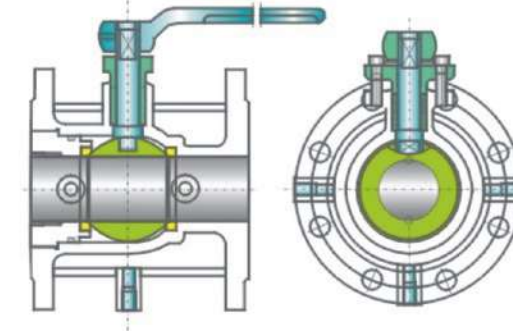
PN1.0/1.6MPa CLASS150

DN	NPS	L	do	H	A1	H1	A2	H2	Bo	B1	B2	重量Weight(kg) G.O
50	2	265	51	220	433	217	405	200	250	106	52	28
65	2 1/2	280	64	295	433	248	405	260	250	106	52	48
80	3	310	76	367	433	335	574	320	250	106	52	87
100	4	370	102	440	520	412	574	400	300	143	80	137
125	5	440	127	535	520	495	756	500	300	143	80	240
150	6	510	152	660	520	613	756	600	400	200	108	270
200	8	580	203	870	520	824	756	800	400	200	108	585
250	10	665	250	1080	896	1025	1060	1000	600	200	108	765
300	12	760	305	1200	896	1176	1060	1160	600	200	108	1121
350	14	850	337	1250	896	1239	1360	1225	800	330	140	1450
400	16	940	387	1420	910	1388	1360	1350	800	330	140	1780
450	18	1050	438	1610	910	1596	1360	1575	800	330	140	2435
500	20	1180	489	1830	910	1725	2910	1750	1000	370	220	3108

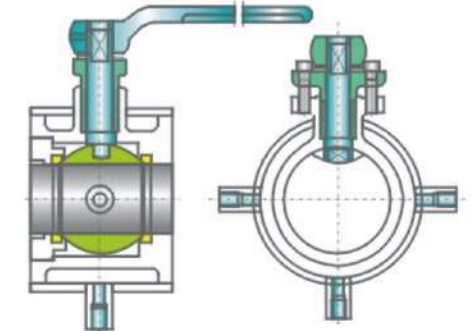
PN2.5/4.0MPa CLASS300

DN	NPS	L	do	H	A1	H1	A2	H2	Bo	B1	B2	重量Weight(kg) G.O
50	2	265	51	390	433	217	405	200	250	106	52	28.5
65	2 1/2	280	64	420	433	248	405	260	250	106	52	49
80	3	350	76	490	520	335	574	320	250	106	52	87
100	4	420	102	570	520	412	574	400	300	143	80	139
125	5	490	127	680	520	495	756	500	300	143	80	240
150	6	580	152	830	896	613	756	600	400	200	108	270
200	8	640	203	1020	896	824	756	800	400	200	108	585
250	10	740	250	1140	896	1025	1060	1000	600	200	108	765
300	12	820	305	1220	896	1176	1060	1200	600	200	108	1125
350	14	910	337	1390	910	1239	1360	1225	800	330	140	1455
400	16	1000	387	1580	910	1388	1360	1350	800	330	140	1785
450	18	1150	438	1790	910	1596	1360	1575	800	330	140	2467
500	20	1300	489	1960	936	1725	2910	1750	1000	370	220	3150

法兰尺寸见附表 Flange dimensions refe to Annexes.



法兰连接 Flange ends



对夹连接 Wafer ends

用途

系列夹套球阀主要适用于石油、化工、冶金、电力等各类系统中，以输送常温下会凝固的高黏度介质。其球阀的夹套焊接在阀门的两端密封之间，阀门的侧面和底部没有夹套的标准连接口。由于增加了夹套，此种阀门的端部连接尺寸比同一规格的连接尺寸大一两个规格，阀门的结构长度与同一规格的阀门相同。阀门的端部连接型式有法兰和对夹两种。夹套中可自由的通过蒸汽或其他热保温介质，确保粘稠的介质顺畅的通过阀门。

结构特点

1. 既能防止管路中粘稠的介质凝固，又能降低管路中低温介质的热量损失。
2. 采用碳钢管焊接夹套比铸造的更加耐压、牢固和可靠。
3. 由于阀门的通径与管道内径一致，介质呈直线流动，流阻小，最适用于易凝固，高粘性液体介质。
4. 球阀阀体采用整体（一片式）结构，体积小，其重量比同类球阀的体积小、重量轻。

Application

Jacketed ball valves are mainly used in the industries of petroleum, chemicals, pharmaceuticals, metallurgy, electric power and etc. to handle high viscosity medium that can be solidified at ordinary temperature. The jacket of ball valve is welded between the seal faces at both ends of the valve. On the side and at the bottom of the valve there are standard connection ports for jacket. Provided with a jacket, the types of end connection may be flanged and wafer. Steam or other heat insulating mediums may freely pass through the jacket, to ensure pasty mediums smoothly through the valve.

Structural Features

1. To prevent the pasty medium in pipeline from being solidified and to lower the heat loss of the low-temperature medium in pipeline.
2. The carbon steel pipe welded jackets are more over pressure resistance and reliable than cast ones.
3. Due to the conformity of valve diameter and pipe inside diameter, medium makes linear flow of low resistance, most suitable for easily solidified and highly viscous liquid mediums.
4. One-piece structure of ball valve body, small volume and light weight compared with their counterparts.

夹套球阀制造规范/Wafer Ball Valve Manufacture Norms

标准 Standards	API系列 API series
基本设计规范 Design codes	ANSI B16.34
压力温度等级 Pressure/temperature rating	ANSI B16.34
结构长度 Face to face dimensions	ASME B16.10
连接法兰 Flange ends	ASME B16.5
检验与实验 Inspection and test	API598

主要零部件材料/Main Parts Materials

序号No.	零件名称 Part Name	材料Materials
		ASTM
1	阀体Body	A216 WCB
2	连接口Ends sock	A105
3	夹套Jacketed	A105
4	锁紧螺母Locking nut	A105
5	O型圈O-ring	氟橡胶 Viton
6	密封圈Seat ring	对位聚苯、尼龙PTFE/RPTFE/NYLON/PEEK
7	球体Ball	A105+ENP/F304
8	阀杆Stem	A182 F6a
9	垫片Gasket	PTFE+SS
10	填料垫Packing Seat	A182 F6a
11	填料Packing	柔性石墨Flexible graphite/PTFE
12	填料压盖 Packing gland	A216 WCB
13	螺钉Screw	A193 B7
14	定位片Stop pland	Q235+Zn
15	挡圈Snap ring	65Mn
16	螺钉Screw	A 193 B7
17	手柄Lever	Q235+Zn

供货范围/Supply Scope

公称通径Nominal size		压力等级 class
DN	in	150Lb、300Lb PN1.0~4.0MPa
15	1/2	△/●
20	3/4	△/●
25	1	△/●
40	1 1/2	△/●
50	2	△/★/●
80	3	△/★/●
100	4	△/★/●
150	6	△/★/●
200	8	△/★/●

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

Note: ●stands for handle operated valves;
☆stands for gearbox operated valves;
—stands for no option of this.

Those not covered in the table can be custom made to users' requirements.

阀门驱动装置选配表/The valve Door Drives Device To Choose To Go Together With Watch

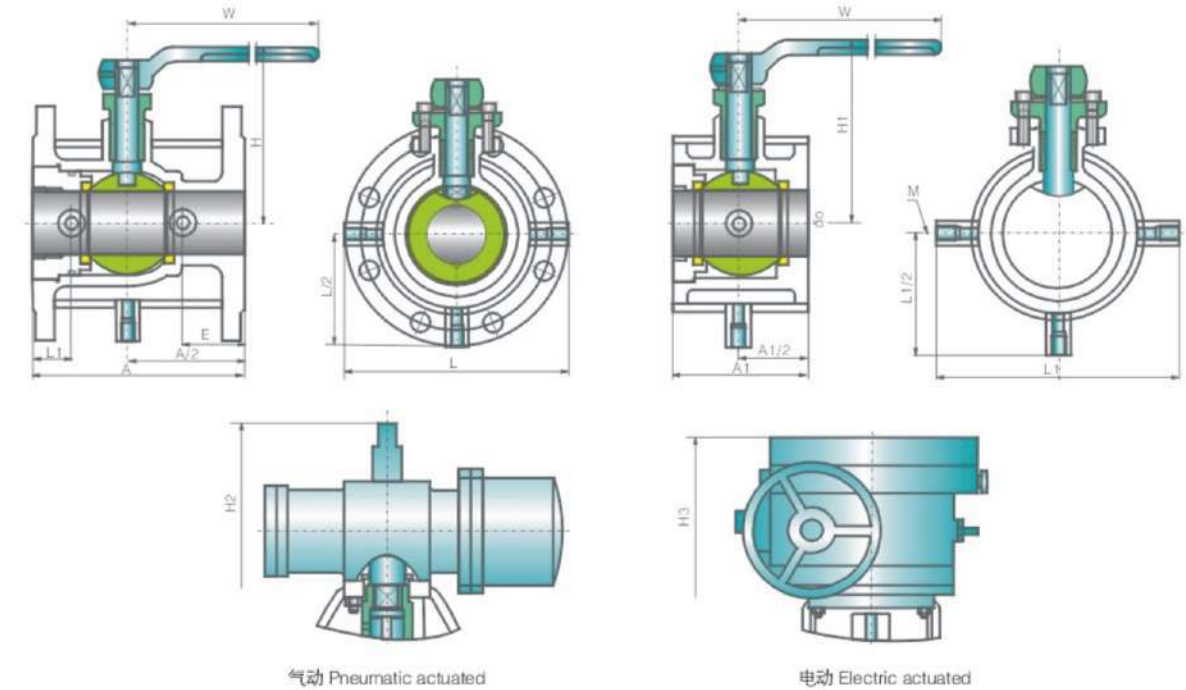
SIZE		150Lb		300Lb	
DN	NPS	气动 air-operated	电动Electric Operated	气动 air-operated	电动Electric Operated
15	1/2	AG06	/	AG06	/
20	3/4	AG06	/	AG06	/
25	1	AG09	/	AG09	/
40	1 1/2	AG09	/	AG09	/
50	2	AG09	QT12.5	AG13	QB12.5
80	3	AG13	QT12.5	AW13	QB25
100	4	AW13	QT25	AW13	QB50
150	6	AW17	QT50	AW17	QB100
200	8	AW17	QT50	AW17	QB200

Note: The pneumatic operated device type is produced by ALFA company, The electric operated device type is produced by changzhou Auxiliary Power Plant.

电动装置输出扭矩值/Electric Device Forge Output Figure

型号 Model	输出转矩 Torque output	阀杆直径 Stem	输出转速 Rotating speed output	电机功率 Motor power
QB12.5	125	22	1r/min	0.05KW
QB25	250	28	1r/min	0.09KW
QB50	500	50	1r/min	0.18KW
QB100	1000	50	1r/min	0.25KW
QB200	2000	60	1r/min	0.55KW

夹套保温球阀PN1.6MPa CLASS 150/PN2.5、4.0MPa CLASS 300



主要外形尺寸及重量/Main Size of Outside & Weight

DN	NPS	A	A1	do	H	H1	H2	H3	W	M	L	L1	E	法兰规格 Flange size	重量Weight(kg)
															手动Lever(PN16)
15	1/2	110	50	15	63	101	126	/	130	ZG3/4	147	110	58.5	DN40(11/2)	7.04
20	3/4	117	55	20	82	101	126	/	160	ZG3/4	147	117	58.5	DN40(11/2)	7.74
25	1	127	60	25	85	106	137	/	160	ZG3/4	156	127	63.5	DN50(2)	10.7
40	1 1/2	165	80	40	100	125	169	/	230	ZG3/4	181	165	62.5	DN65(2 1/2)	14.5
50	2	178	90	51	153	135	179	576	230	ZG3/4	218	178	68	DN80(3)	17.9
80	3	229	120	76	195	217	258	643	400	ZG3/4	275	229	82	DN150(6)	37.3
100	4	254	140	102	213	265	322	715	700	ZG3/4	300	254	83	DN200(8)	56
150	6	292	160	152	235	355	415	848	1100	ZG1	403	292	95	DN250(10)	93
200	8	330	180	203	342	410	527	903	1500	ZG1	492	330	100	DN300(12)	160

主要外形尺寸及重量/Main Size of Outside & Weight

DN	NPS	A	A1	do	H	H1	H2	H3	W	M	L	L1	E	法兰规格 Flange size	重量Weight(kg)
															手动Lever(PN40)
15	1/2	110	50	15	63	101	126	/	130	ZG3/4	147	110	58.5	DN40(11/2)	7.24
20	3/4	117	55	20	82	101	126	/	160	ZG3/4	147	117	58.5	DN40(11/2)	8.24
25	1	127	60	25	85	106	137	/	160	ZG3/4	156	127	63.5	DN50(2)	11.5
40	1 1/2	165	80	40	100	125	169	/	230	ZG3/4	181	165	62.5	DN65(2 1/2)	18.4
50	2	178	90	51	153	135	179	576	230	ZG3/4	218	178	68	DN80(3)	25.1
80	3	229	120	76	195	217	258	643	400	ZG3/4	275	229	82	DN150(6)	55.4
100	4	254	140	102	213	265	322	715	700	ZG3/4	300	254	83	DN200(8)	76.4
150	6	292	160	152	235	355	415	848	1100	ZG1	403	292	95	DN250(10)	118
200	8	330	180	203	342	410	527	903	1500	ZG1	492	330	100	DN300(12)	200

产品结构特点

系列螺纹连接端球阀主要用于以氦气为介质的海洋勘探设备中，同时也适用于水、油、酸等各类介质的系统中，以实现气体和液体的断流及放流。其中要结构特点有：

1. 结构紧凑、重量轻、流阻低。
2. 启闭扭矩小、密封性能优异。
3. 结构形式有整体式、两体式及三体式三种结构，维修和更换内件均十分方便。
4. 两侧用内、外螺纹与管道连接，安装方便。
5. 根据用户需要，可提供左右不同形式的连接端。
6. 根据用户需要，可装上相应的电动及气动装置以实现遥控或自动控制。

Product Design Features

The series of the threaded ends ball valves are mainly used in the equipment for sea prospecting, which takes helium as medium, and also applied to the system which takes water, oil, acid etc. as medium, for cutting or releasing the gas or liquid. The main features of construction

1. Compact construction, light weight, little flow resistance.
2. Quick start and stop, excellent seal performance.
3. The type of construction divided into one-side type, two-side type, three-side type, and the parts be maintained and changed conveniently.
4. Two sides are connected with pipe by internal and outer threaded screw.
5. Can provide different type of connecting ends on the right or left side, according to user's demand.
6. Can set up the corresponding electric or pneumatic installations for remote control or automatic control, according to user's demand.

技术规范/Technical Specification

结构长度 Face to face	内螺纹连接端 Internal thread screw connecting	GB/T15188.3
	外螺纹连接端 Outer thread screw connecting	GB/T15188.4
内螺纹连接端 Internal thread screw connecting end		GB/T7073
外螺纹连接端 Outer thread screw connecting end		JB/T1752、JB/T1754、JB/T1755
试验和检验 Test and Inspection		JB/T9092

产品性能规范/Form Of Major Parts Materials

压力等级 Pressure		公称压力(PN) Nominal pressure		
		1.6	2.5	4.0
试验压力 Test pressure (MPa)	壳体试验 Shell test	2.4	3.75	6.0
	密封试验 Sealing test	1.76	2.75	4.4
适用温度 Applicable medium		-29℃~300℃ (注：不同工况温度，选用不同的材质 Different raw material for different work temperature)		
适用介质 Applicable medium		水、油、气各类腐蚀性介质等 Water, oil, gas and other corrosive mediums		

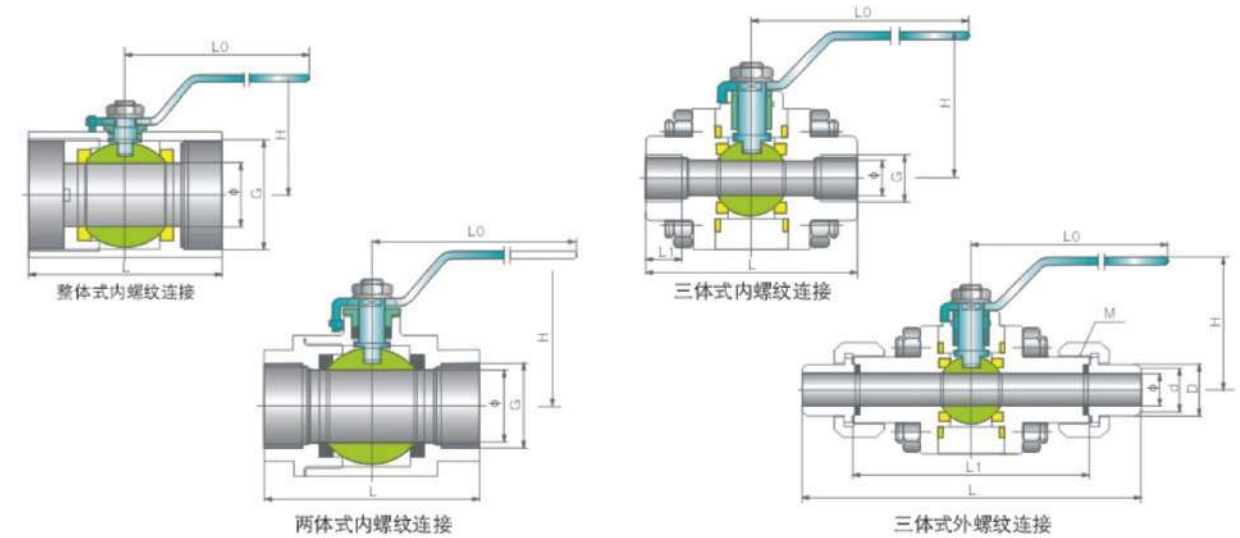
主要外形尺寸/Main Size Of Outside

序号No.	零件名称 Accessory name	材 质 Material	
		GB	ASTM
1	阀体 Body	WCB CF8、CF8M、CF3、CF3M	A216-WCB、 A351-CF8、CF8M、CF3、CF3M
2	阀盖 Bonnet	WCB CF8、CF8M、CF3、CF3M	A216-WCB、 A351-CF8、CF8M、CF3、CF3M
3	球体 Ball	1Cr13、0Cr18Ni9、1Cr18Ni12Mo2Ti	A276-410、304、316、304L、316L
4	阀杆 Stem	1Cr13、0Cr18Ni9、1Cr18Ni12Mo2Ti	A276-410、304、316、304L、316L
5	密封圈 Sealing ring	尼龙、对位聚苯 Nylon PTFE、RTFE	PTFE、PTFE、尼龙、对位聚苯

注：系列阀门主要零部件及密封面的材质可根据实际工况条件或用户特殊要求设计选用。

Notes: Major parts of the valve series and materials of sealing surface differ according to actual working condition and customer's special requirement.

螺纹连接端球阀PN1.6~4.0



内螺纹连接/Internal Thread Screw Connecting

DN (mm)	整体式 One-side type					两体式 Two-side type					三体式 Three-side type					
	φ	G	L	L0	H	φ	G	L	L0	H	φ	G	L	L1	L0	H
6	4.2	1/4	40	80	22	10	1/4	55	95	42	-	-	-	-	-	-
10	6	3/8	45	80	26	10	3/8	55	95	42	12	3/8	65	12	95	46
15	8	1/2	57	88	31	15	1/2	64	108	51	15	1/2	75	14	110	46
20	12	3/4	60	88	34	20	3/4	75	115	58	20	3/4	85	16	110	54
24	15	1	72	105	38	25	1	85	135	77	25	1	90	18	140	65
32	19	1 1/4	79	105	43	32	1 1/4	102	150	83	32	1 1/4	112	20	140	69
40	24	1 1/2	85	124	50	38	1 1/2	108	175	97	38	1 1/2	120	22	155	76
50	32	2	101	124	57	50	2	124	190	106	50	2	145	24	180	86
65	-	-	-	-	-	65	2 1/2	163	220	122	65	2 1/2	170	28	220	120
80	-	-	-	-	-	80	3	185	250	133	80	3	200	32	260	150

外螺纹连接/Outer Thread Screw Connecting

DN (mm)	外螺纹连接 Outer thread screw connecting						
	φ	d	D	L	L1	L0	H
6	8	10	14	150	85	96	20×1.5
10	10	12	18	150	85	96	24×1.5
15	15	17	22	175	108	110	30×2
20	20	22	28	190	120	120	36×2
25	25	27	33	200	132	135	42×2
32	32	34	40	230	158	160	52×2

产品结构特征

系列对夹式球阀主要用于石油、化工、冶金、制药、食品等各类系统中，以截断或接通管路中的介质。对夹式球阀根据结构长度的长短可分为普通型及薄型两面三刀种系列，其中薄型系列系我公司根据客户的要求，引进国外产品的技术并结合普通型对夹式球阀的特点，自行研制开发的改进型产品。与其它类型球阀相比，系列对夹式球阀的主要结构特点有：采用一体式结构，结构紧凑，体积小、重量轻；密封可靠，介质流向不受限制；流阻小、启闭快，操作方便，根据用户需要，普通型对夹式球阀可装上相应的电动及气动装置，以实现遥控或自动控制。

产品规格/Products Specification

系列型号 Serial models	Q71、Q671、Q971	Q7b1
压力等级 Pressure	PN1.6~MPa, Class150	PN1.6~4.0MPa
通径 Size	DN15~100mm, 1/2'~4'	DN10~200
驱动方式 及适用范围 Driving manner and scope of application	手柄驱动、气动、电动 Wrench operated、 Air operateel & Electric driving	手柄驱动 Wrench operated

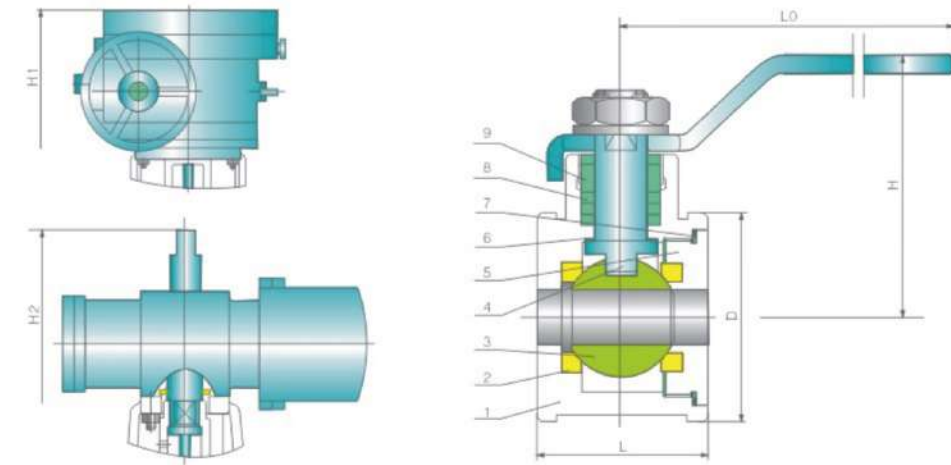
注：本公司可根据用户要求提供产品
Notes: Our Company can provide products at customres' request.

产品性能规范/Products Performance Specification

公称压力 Nominal Pressure	壳体强度试验压力 Shell test pressure	密封试验压力 Sealingtest pressure
1.0MPa	1.5MPa	2.0MPa
1.6MPa	2.4MPa	1.76MPa
2.0MPa	3.1MPa	2.2MPa
2.5MPa	3.75MPa	2.75MPa
4.0MPa	6.0MPa	4.4MPa
Class 150	3.03MPa	2.2MPa
介质温度 Temperature	≤300℃	
适用介质 Medium	水、油及腐蚀性介质 Water、oil & corrosive medium	

Products Design Features

The series of the wafer type ball valves can be applied to petroleum, chemical industry, metallurgy, pharmacy, etc, used to block or connect the medium in the pipe. The wafer type ball valve divided into normal type and thin type, by its length of construction. The series of the thin types are the improved products, designed and developed by ourselves, which combine the advanced technology of abroad with the feature of the normal type, according to user's demand. Compared with other ball valves, the main characters of construction of the wafer type ball valve are: with one-sided, and compact construction, small volume, light weight, well-sealed, non-limitation of medium direction, little flow resistance, quick start and stop, convenient operation. And it is possible for the normal type to set up the corresponding electric or pneumatic installarions, for remote control or automatic control, according to user's demand.



技术规范/Technical Specification

结构形式 Structure form	对夹式 Wafer type
连接法兰 Flanged ends	ANSI B 16.5、JB/T79
驱动方式 Driving manner	手动、电动、气动 Wrench、Electroc driving、Air operated
试验和检验 Test & Inspection	API 598

主要零件材质表/Form Of Major Parts Materials

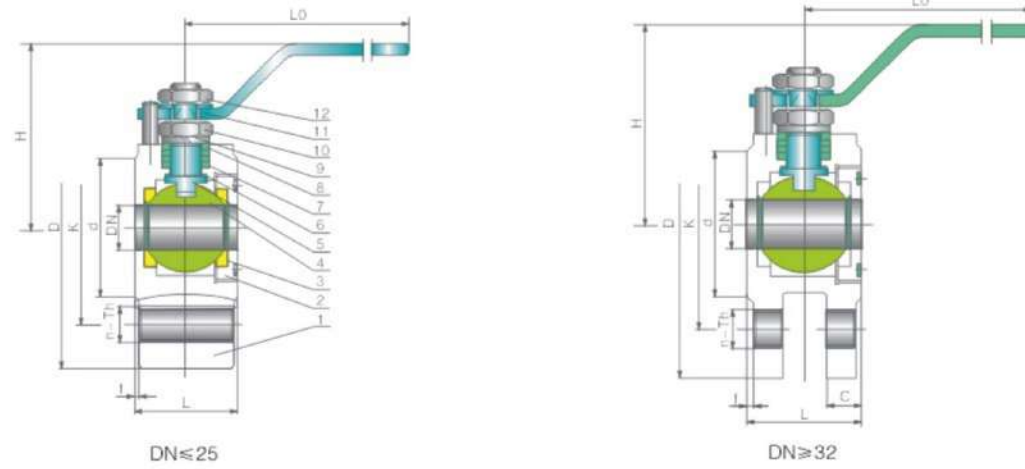
序号 No	零件名称 Accessory name	材质 Material		序号 No	零件名称 Accessory name	材质 Material	
		GB	ASTM			GB	ASTM
1	阀体 Body	CF8	A351-CF8	6	垫片 Gasket	PTFE、RTFE	
2	密封圈 Sealing ring	尼龙、对位聚苯 Nylon	PTFE、RTFE	7	垫片 Gasket	柔性石墨+不锈钢 Graphite+stainless steel	
3	球体 Ball	0Cr18Ni9+Ni.P	A276-304+Ni.P	8	填料 Packing	柔性石墨 Graphite	
4	阀杆 Stem	0Cr18Ni9	A276-304	9	压套 Stuffing cover	0Cr18Ni9	A276-304
5	阀座 Seat	0Cr18Ni9	A276-304				

注：系列阀门主要零部件及密封面的材质可根据实际工况条件或用户特殊要求设计选用。
Notes: Major parts of the valve series and materials of sealing surface differ according to actual working condition and customer's special requirement.

主要外形尺寸/Main Size Of Outside

PN1.0~2.5MPa CLASS150

DN(mm)		15	20	25	32	40	50	65	80	100
NPS(in)		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
L		40	45	50	60	70	80	110	120	140
D	PN1.0、1.6MPa	53	63	73	84	94	109	129	144	164
	PN2.5MPa	53	63	73	84	94	109	129	144	170
	PN2.0MPa、Class 150	47	57	66	75	85	103	122	135	173
手动 Hand Operated	H	82	82	104	113	122	132	144	155	183
	L ₀	140	180	180	200	200	250	300	350	450
电动 Electric Driving	H ₁	324	323	345	354	363	373	385	455	495
	电动装置 Electric Driving Device	Q45-1	Q45-1	Q45-1	Q245-1	Q60-1	Q60-1	Q60-1	Q60-1	Q60-1
气动 Air-operating	H ₂	228	228	238	263	275	284	365	382	425
	气动装置 Air-operating Device	AG06	AG06	AG09	AG09	AG09	AG13	AG13	AG13	AW17



技术规范/Technical Specification

结构形式 Structure form	对夹式 Wafer type
连接法兰 Flanged ends	ANSI B 16.5、JB/T79
驱动方式 Driving manner	手动 Wrench
试验和检验 Test & Inspection	API 598

主要零件材质表/Form Of Major Parts Materials

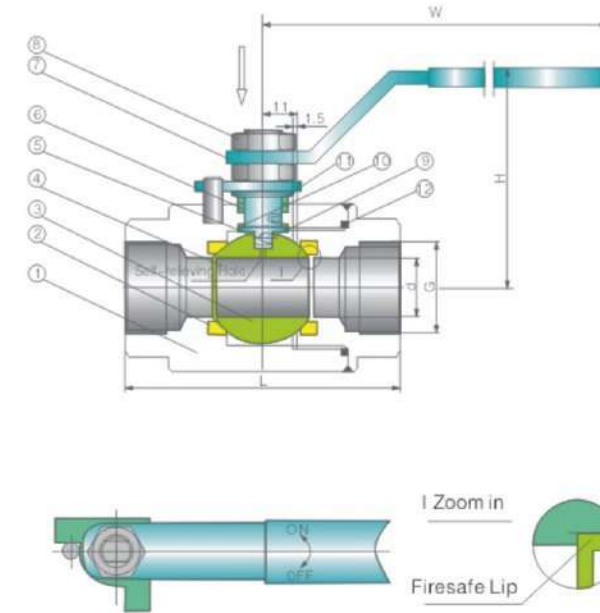
序号 No	零件名称 Accessory name	材质 Material		序号 No	零件名称 Accessory name	材质 Material	
		GB	ASTM			GB	ASTM
1	阀体 Body	CF8	A351-CF8	7	填料 Packing	柔性石墨 Graphite	
2	阀座 Seat	0Cr18Ni9	A276-304	8	填料压圈 Stuffing cover	0Cr18Ni9	A276-304
3	密封圈 Sealing ring	尼龙、对位聚苯 Nylon PTFE、RTFE		9	垫圈 spring lock washers	0Cr18Ni9	A276-304
4	球体 Ball	0Cr18Ni9+Ni.P	A276-304+Ni.P	10	锁紧螺母 Lock nut	0Cr18Ni9	A276-304
5	阀杆 Stem	0Cr18Ni9	A276-304	11	手柄 Wrench	0Cr18Ni9	A276-304
6	垫片 Gasket	PTFE		12	限位销 Pin	0Cr18Ni9	A276-304

注：系列阀门主要零部件及密封面的材质可根据实际工况条件或用户特殊要求设计选用。
Notes: Major parts of the valve series and materials of sealing surface differ according to actual working condition and customer's special requirement.

主要外形尺寸/Main Size Of Outside

PN1.0~2.5MPa CLASS150

DN	L	PN1.6MPa					PN2.5MPa					PN4.0MPa					f	H	L ₀
		D	K	d	C	n-Th	D	K	d	C	n-Th	D	K	d	C	n-Th			
10	32	85	60	42	-	4-M12	85	60	42	-	4-M12	85	60	42	-	4-M12	2	80	150
15	32	90	65	47	-	4-M12	90	65	47	-	4-M12	90	65	47	-	4-M12	2	80	150
20	38	100	75	58	-	4-M12	100	75	58	-	4-M12	100	75	58	-	4-M12	2	85	150
25	42	110	85	68	-	4-M12	110	85	68	-	4-M12	110	85	68	-	4-M12	2	95	170
32	50	130	100	78	16	4-M16	130	100	78	16	4-M16	130	100	78	18	4-M16	2	100	180
40	60	140	110	88	16	4-M16	140	110	88	16	4-M16	140	110	88	18	4-M16	2	105	210
50	70	155	125	102	18	4-M16	155	125	102	18	4-M16	155	125	102	20	4-M16	2	115	230
65	94	180	145	125	20	4-M16	180	145	125	22	8-M16	180	145	125	22	8-M16	2	130	280
80	118	195	160	138	20	8-M16	195	160	138	24	8-M16	195	160	138	24	8-M16	2	145	300
100	140	215	180	160	22	8-M16	230	190	160	24	8-M20	230	190	160	24	8-M20	2	175	400
125	195	245	210	188	22	8-M16	270	220	188	26	8-M24	270	220	188	26	8-M24	2	190	500
150	225	280	240	212	24	8-M20	300	250	212	28	8-M24	300	250	212	28	8-M24	2	220	600
200	275	335	295	266	24	8-M22	360	310	274	30	8-M24	375	320	285	34	8-M27	2	260	700



特点

- 2PC结构设计，全通径流量
- 设计制造：BS 5351
- 检验和试验按：API598
- 产品规格从1/2"到2"
- 防静电结构设计
- 工作压力：800Lb(2000psi)
- 防火设计
- 螺纹端可按：BSPT、NPT、DIN2999制造

主要零件材料/Major Parts Material Form

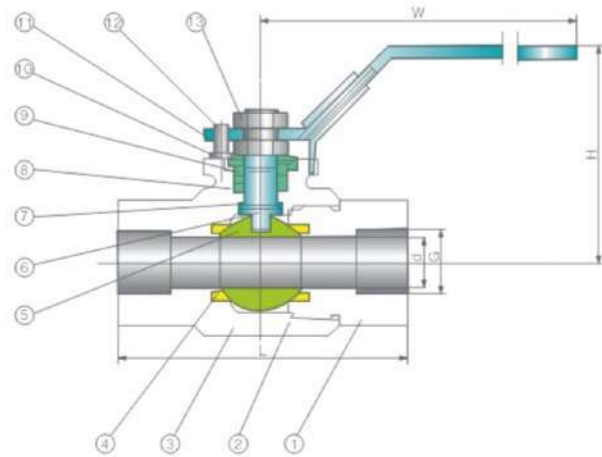
序号 NO.	部件名称 Part name	材料 Material	QTYI
1	阀体Body	A105N F316	1
2	阀座Seat	PTFE	2
3	球Ball	316	1
4	端盖Cap	A105N F316	1
5	阀杆Stem	316	1
6	填料Packing	石墨 Graphite	1
7	手柄Handle	304	1
8	螺母Stem nut	304	2
9	防静电Anti static devise	SS304	2
10	杆密封Stem sealing	PTFE	1
11	压盖Gland	SS316	1
12	密封垫Gasket	石墨 Graphite	2

Feature

- 2PC Body full bore
- Design and manufacture: BS 5351
- Test and check API598
- Size: 1/2" to 2"
- Anti-static device
- Working Pressure: class800(2000psi)
- Firen safely
- Threaded End BSPT, NPT, DIN29999

主要外形尺寸及重量/Main Size of Outside & Weight

NPS	φd	G	L	H	W
1/4	6	1/4"-18NPT	60	55	120
3/8	10	3/8"-18NPT	60	60	120
1/2	12.7	1/2"-14NPT	75	65	150
3/4	17.5	3/4"-14NPT	80	72	150
1	22	1"-11-1/2NPT	90	80	170
1-1/4	28.5	1-1/4"-11-1/2NPT	110	80	170
1-1/2	35	1-1/2"-11-1/2NPT	120	105	240
2	47.5	2"-11-1/2NPT	140	114	240



主要零件材料/Major Parts Material Form

序号 NO.	部件名称 Part name	材料 Material	QTY
1	阀盖 End cap	A105 SS304 SS316	1
2	密封垫 Seal Gasket	PTFE	1
3	阀体 Body	A105 SS304 SS316	1
4	阀座 Seat	Delrin	2
5	球 Ball	SS316	1
6	阀杆 Stem	SS630(17-4PH)	1
7	杆密封 Stem sealing	RPTFE	1
8	填料 Packing	PTFE OR NYLON(尼龙)	1
9	填料压套 Packing gland	SS304	1
10	弹簧 Stem washer	SS304	2
11	手柄 Handle	SS304	2
12	定位销 Stop pin	SS304	1
13	螺母 Nut	SS304	1

特点

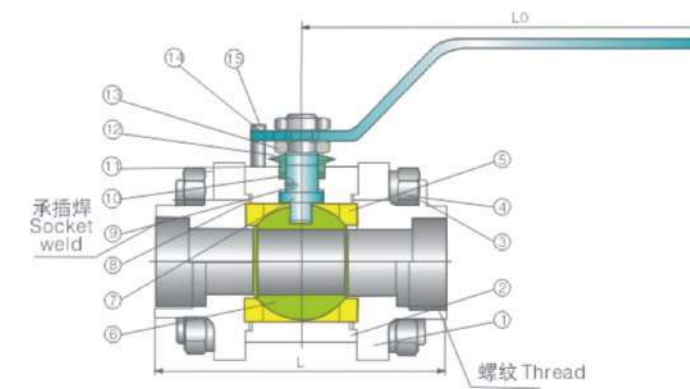
- 2PC 结构设计, 全通径流量
- 设计制造: ANSI B16.34
- 检验和测试按: API 598
- 产品规格从 1/4" 到 2"
- 防静电结构设计
- 工作压力: 1500Lb(3000psi)
- 防火设计
- 螺纹端可按: BSPT, NPT, DIN2999 制造
- ISO5211 驱动平台

Feature

- 2PC Body full bore
- Design and manufacture: ANSI B16.34
- Test and check: API 598
- Size 1/4" to 2"
- Anti-Static device
- Working pressure class 1500(3000psi)
- Fire-safety
- Threaded end: BSPT, NPT, DIN2999
- ISO5211 Mounting pad

主要外形尺寸及重量/Main Size of Outside & Weight

NPS	d	G	L	H	W	正方(厚)口	螺孔中心圆Dim 上平台(ISO5211 pad)	N-M
1/4	9	1/4-18NPT	102	62	170	46(6)	φ42	4-M6
3/8	9	3/8-18NPT	102	62	170	46(6)	φ42	4-M6
1/2	13	1/2-14NPT	102	62	170	46(6)	φ42	4-M6
3/4	19	3/4-14NPT	110	90	170	46(6)	φ50	4-M6
1	25	1-11.5NPT	114	90	170	46(6)	φ50	4-M6
1-1/2	38		133	125	280	65(8)	φ70	4-M8
2	50	2-11.5NPT	159	142	300	65(8)	φ70	4-M8



主要零件材料/Major Parts Material Form

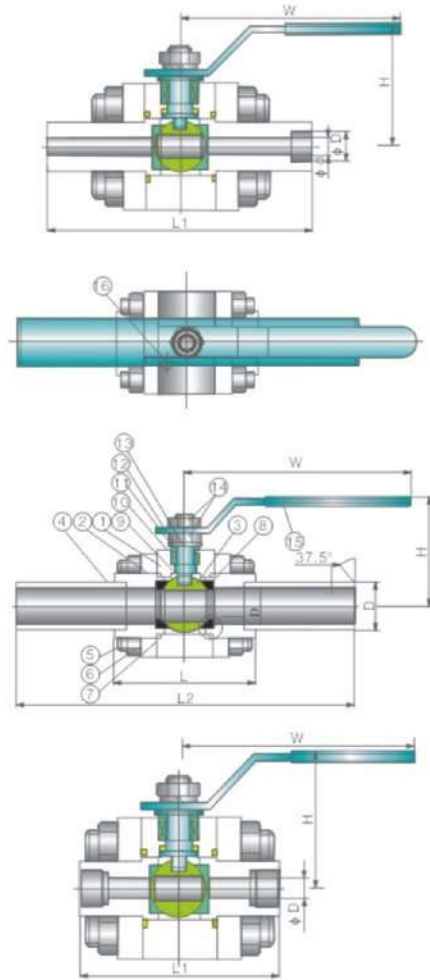
序号 NO.	零件名称 Part name	CS ASTM		SS ASTM
		Type A105N	Type F304(L)	Type F316(L)
1,2	阀本排体, 阀盖 Body/Bonnet	ASTM A105N	A182 F304(L)	A182 F316(L)
3	等长双头螺栓 Bolt	A193 B7+镀锌	A193 B8	A193 B8M
4	螺母 Nut	A194 2H+镀锌	A194 8	A194 8M
5,8	密封圈/垫片 Seal ring/Gasket	RTFE+Cu粉/尼龙1010/PPL		
6	球体 Ball Body	A182 F304	A182 F304 (L)	A182 F316 (L)
7	阀杆 Stem	A182 F410	A182 F304 (L)	A182 F316 (L)
9,10	止推片填料 Stem Packing	RTFE+Cu粉/尼龙1010/PPL		
11	压套 Gland	A182 F410	A182 F304 (L)	A182 F316 (L)
12	螺旋弹簧 Spring	65Mn		
13	扁螺母 Nut	A194 B7+镀锌	A194 8	A194 8
14	手柄 Wrench	Q235A		
15	圆柱销 Pin	A194 B7+镀锌	F316	F316

主要性能规范/ Main Performance Parameter

公称压力 Nominal pressure		900LB	1500LB
试验压力 (MPa) Test pressure	强度试验 Strength test	22.7	37.8
	密封试验 Seat test	16.7	28.1
	气密试验 Gas seal test	0.6	0.6
最高工作温度 Maximum operating temperature		尼龙<80℃, PTFE<150℃, PPL<220℃	
适用介质 Suitable Medium		水、油及腐蚀性介质 Water, oil & corrosive medium	

主要外形尺寸及重量/Main Size of Outside & Weight

尺寸 Dimensions	口径 Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L		92	111	127	140	152	178
S		21.8	27.1	33.8	42.8	48.7	61.1
B		9.6	12.7	12.7	12.7	12.7	15.9
L0		123	160	160	195	195	250
NPT		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"



特点

- 3-pcs 阀体结构
- 全通径流量
- 从1/2"到2"压力为800Lb(2000psi)
- 螺纹端可按BSPT、NPT、DIN2999制造
- 承插焊端口按ANSI 16.11制造
- 防火结构设计
- 可为防静电结构图

主要外形尺寸及重量/Main Size of Outside & Weight

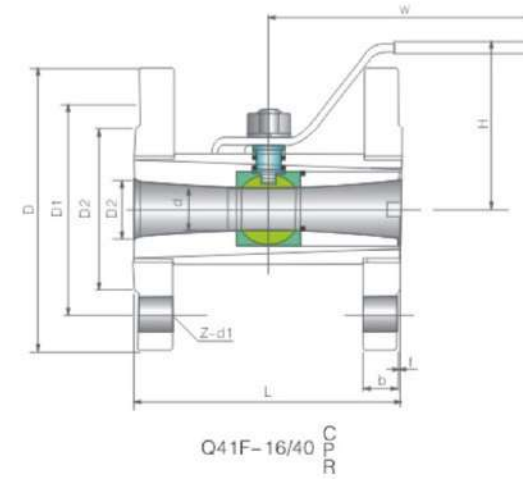
NPS	d	D	L	L1	L2	H	W
1/2	12.7	22	100	130	200	65	150
3/4	17.5	28	120	130	220	72	150
1	22	34	135	130	235	80	170
1-1/4	28.5	43	165	180	265	80	170
1-1/2	38	49	200	210	300	105	240
2	47.5	61	220	250	320	114	240

主要零件材料/Major Parts Material Form

序号 NO.	部件名称 Part name	材料 Material	QTY
1	阀体 Body	A105 SS316	1
2	阀盖 Cap	A105 SS316	1
3	球 Ball	SS410 SS316	1
4	焊管 Nipple	A105 SS316	2
5	螺栓 Bolt	A193 B7 A193 B8M	4
6	螺母 Nut	A194 2H A194 B8	8
7	密封垫 Seal Gasket	RPTFE	2
8	阀座 Seat	RPTFE	2
9	密封 seal	RPTFE	1
10	填料 Packing	RPTFE	1
11	填料压盖 Packing gland	SS304	1
12	弹簧 Belleville washer	SS301	2
13	阀杆 Stem	A276 410 SS316	1
14	螺母 Nut	A194 2H A194 B8	2
15	手柄 Handle	SS301+PVC	1
16	定位销 Stoper	SS304	1

Feature

- 3-pcs body
- Full bore
- Size 1/2" to 2" 800Lb(2000psi)
- Threaded end BSPT, NPT, DIN2999
- Socket weld end ANSI 16.11
- Fire-safely
- Anti-static available



应用规范

公称压力: 1.6-4.0MPa
适用温度范围: -20~232°C ~350°C
适用介质: 水、油、气及某些腐蚀性液体 (W.O.G)。

Application Norm

Working Pressure: 1.6-4.0MPa
Temperature Range: -20~232°C ~350°C
Suitable medium: Water, oil, air and some Corrosive liquid

主要零件材料/Major Parts Material Form

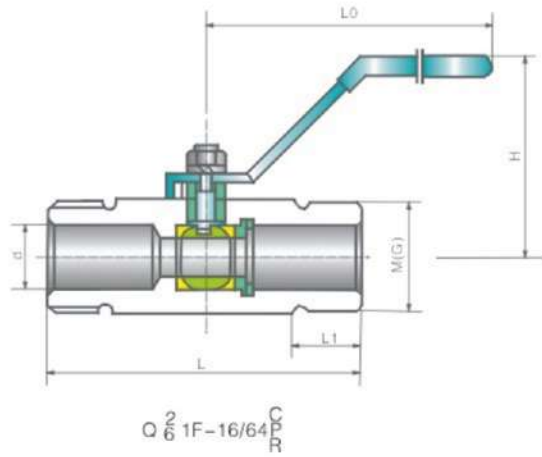
适用介质 Suitable medium	型号 Type	阀体 Body	球体、阀杆 Ball, Stem	手柄 Handle	密封圈 Gasket	垫片、填料 Shim, Packing
水、蒸汽、油品 Water, steam, oil	Q41F-16C, Q41F-25C Q41F-40C	A105、45	1Cr18/1Cr18Ni9Ti	不 锈钢 SS304	聚四氟乙烯 PTFE 增强聚四氟乙烯 VUJLUK PTFE 对位聚苯 PPL	聚四氟乙烯 PTFE 对位聚苯 PPL
硝酸类 Nitric Acid	Q41F-16P, Q41F-25P Q41F-40P	SS304/1Cr18Ni9Ti	SS304/1Cr18Ni9Ti			
醋酸类 Acetic Acid	Q41F-16R, Q41F-25R Q41F-40R	SS316/1Cr18Ni12Mo2Ti	SS316/1Cr18Ni12Mo2Ti			

主要外形尺寸及重量/Main Size of Outside & Weight

公称通径 Nominal diameter		d	d2	L	D	D1	D2	b	f	Z-d1	H	W
DN(mm)	in											
15	1/2"	10	15	92	95	65	45	14	2	4-14	60	110
20	3/4"	12.6	20	106	105	75	55	14	2	4-14	65	110
25	1"	17	24	109	115	85	65	16	2	4-14	70	110
32	1 1/4"	22	32	126	135	100	78	16	2	4-18	85	145
40	1 1/2"	25	38	136	145	110	85	16	3	4-18	90	145
50	2"	32	46	154	160	125	100	18	3	4-18	98	177
65	2 1/2"	44	60	170	180	145	120	20	3	8-18	110	190
80	3"	50	72	195	195	160	135	22	3	8-18	130	240
100	4"	65	92	215	215	180	155	22	3	8-18	150	260

法兰标准: JB79-59
亦可按国标 GB9113设计制造。

Flange standard: JB79-59
Flange also can be designed and manufactured according to GB9113.



应用规范

公称压力: 1.6~6.4MPa
适用温度范围: -20~232°C ~350°C
适用介质: 水、油、气及某些腐蚀性液体 (W.O.G)。
螺纹类型: ZG.G · NPT.BSPT.BSP.DIN259/2999

Application Norm

Working Pressure: 1.6~6.4MPa
Temperature Range: -20~232°C ~350°C
Suitable medium: Water, oil, air and some Corrosive liquid
Thread type: ZG.G · NPT.BSPT.BSP.DIN259/2999

主要零件材料/Major Parts Material Form

零件名称 Part name	阀体 Body	球体、阀杆 Ball, Stem	手柄 Handle	密封圈 Seal ring	垫片、填料 Shim, Packing
Q21F-16C, Q21F-25C, Q21F-40C, Q21F-64C	A105, 45	1Cr18/1Cr18Ni9Ti	不 锈 钢 SS304	聚四氟乙烯 PTFE 对位聚苯 PPL	聚四氟乙烯 PTFE 对位聚苯 PPL
Q21F-16P, Q21F-25P, Q21F-40P, Q21F-64P	1Cr18Ni9Ti	SS304/1Cr18Ni9Ti			
Q21F-16R, Q21F-25R, Q21F-40R, Q21F-64R	SS316/1Cr18Ni12Mo2Ti	SS316/1Cr18Ni12Mo2Ti			

主要外形尺寸及重量/Main Size of Outside & Weight

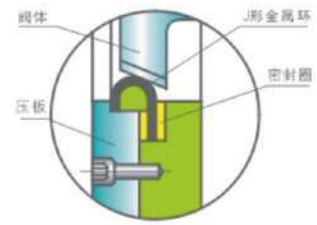
公称直径(mm) Nominal diameter	尺 寸 (mm) Dimensions					
	d	L	L1	M	Lo	Q61 带对焊接头总长
6	8	85	15	20×1.5	110	166
10	10	85	16	24×1.5	110	166
15	10	85	18	30×2	110	172
20	13	90	18	36×2	110	187
25	17	100	20	42×2	110	227
32	22	120	20	52×2	150	235
40	25	135	25	60×3	150	255
50	32	140	25	72×3	180	291

螺纹标准: GB196 Thread Standard: GB196

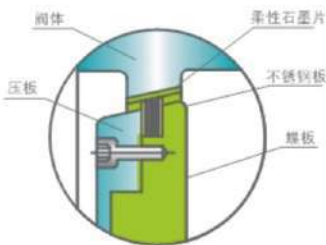


Butterfly Valve Series 蝶阀系列

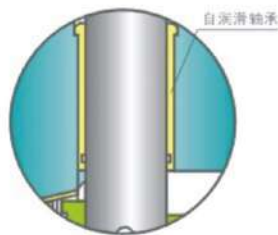
高品阀门集团有限公司
THERMAL VALVE GROUP CO.LTD.



弹性密封付结构



多层次密封付结构



金属对金属弹性硬密封结构是将装在阀座上的一种结构形式。J形环用压板压住，并用螺栓固定，J形环的两面分别有密封性能很好且耐高温、高压的密封圈，并有一定的余量，可以通过调节J形环的位置，使得阀门在使用一段时间后不因磨损而泄漏。该阀门适用中、高温及中、高压管路系统。

Hard flexible metal on metal seal structure will be installed in the valve seat is on a structure. J-shaped ring with clips and fixed with bolts, J-ring seals on both sides were very good performance and high temperatures, high pressure of the ring and have a certain cushion, you can adjust the location of J-rings, making valve in the use of the door after a period of time due to wear and do not leak. The application of the valve, and high-temperature, high-pressure pipeline system.

三偏心结构是在设计时将阀杆偏离密封面中心线，形成第一个偏心；阀杆略偏离管路中心线，形成第二个偏心；阀板密封面加工成圆锥体的一个斜截体，形成第三个偏心。三个偏心的结构使用阀门密封面在启闭过程中尽可能小地减少摩擦，在阀板开始旋转的瞬间密封面完全脱离，从而实现了无摩擦密封。这种结构是蝶阀的一次质的飞跃，阀门因此大大地提高了使用寿命，并使启闭扭矩的大小有了明显地改善。

Three eccentric structure is in the design will stem from the centerline sealing surface, forming the first eccentric; stem pipe slightly deviated from the centerline, a second eccentric; disc sealing surface processed into the cone of a cut-off ramps, A third eccentric. Three eccentric use of the structure of the valve seal in the course of the hoist as small as possible to reduce friction in the valve plate starting rotation of the moment completely sealed from the surface, thus achieving a sealed without friction. This structure is a butterfly valve qualitative leap, valves therefore greatly enhance the life, and hoist the size of torque has been noticeably improved.

在轴与体相对运动的关键部分采用高耐磨型自润滑复合轴承，减小蝶板在开启或关闭时的摩擦力，保证轴和体的永无磨损。

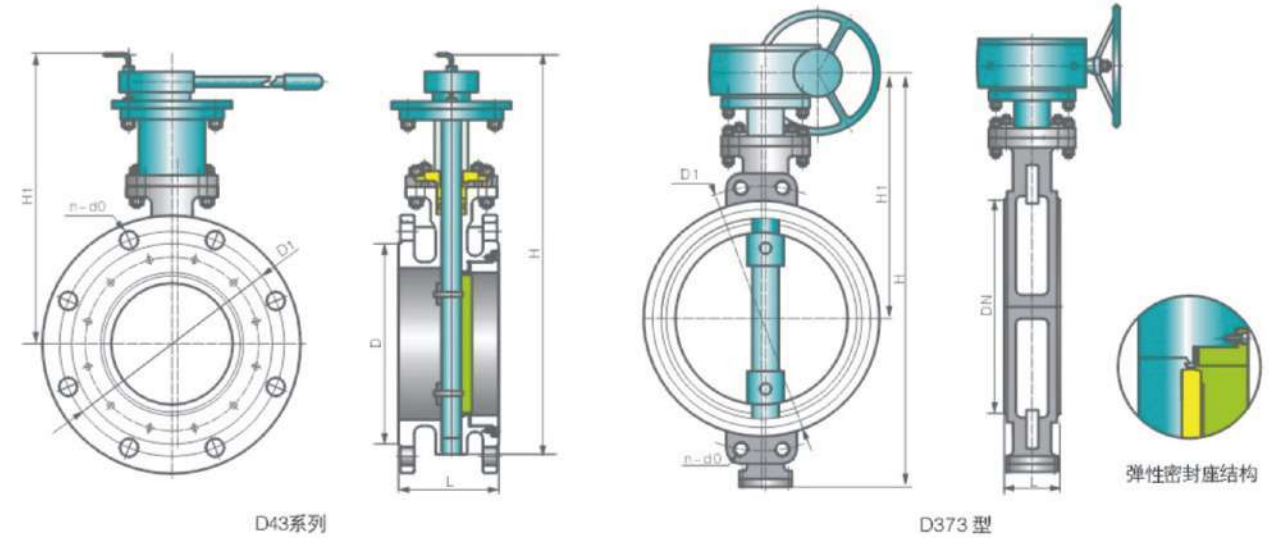
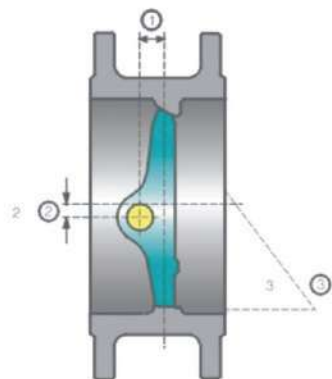
Axis and the relative movement of a key part of a high wear-resistant type of self-lubricating bearings, reducing the butterfly plate in the open or closed when the friction, ensure that the body axis and never wear.

在阀体下轴的底部采用高硬度耐磨合金球面止推垫和高硬度平垫。蝶板在运动过程中，所有产生向下的重力和摩擦力均集中在此。由于两推力垫硬度高，接触面积小长期运动无磨损，保证阀门开启关闭轻松，永无下沉。

Valve in the bottom of the shaft using high hardness wear-resistant alloys spherical thrust pad hardness and high-pad. Butterfly Plate in the campaign process, all have a downward force of gravity and friction are concentrated here. As the two thrust pad hardness, small contact area and wear a long-term campaign to ensure that the valve closed to open easily, never sink.

金属对金属多层次复合型硬密封结构是将多层次复合型金属安装在阀板上的一种结构形式。多层次复合型金属圈由不锈钢金属板和柔性石墨片重复叠压制而成，具有很高的强度和刚性；柔性石墨在高温、高压下仍有良好的密封性能。这两种材料的刚柔相济的特性，使得阀门适用与绝大多数介质、使用范围广、使用寿命长。

Metal on metal hardware multi-level complex will be sealed structure is a multi-level complex of metal valve installed in a board structure. Multi-level complex of metal ring from stainless steel plates and flexible graphite-repeat stack from repression, is of high strength and rigidity; flexible graphite in high-temperature, high pressure is still good sealing performance. Both Gangrouxiangji the characteristics of the material, makes the valve and the application of the overwhelming majority of media, the use of a wide range of long life.



主要技术参数/Main Technology Parameter

公称口径 Nominal diameter	DN(mm)	50 ~ 2000				
公称压力 Nominal pressure	PN(MPa)	0.6	1.0	1.6	2.5	4.0
试验压力 Ps(MPa) Test pressure	强度试验 Shell test	0.9	1.5	2.4	3.75	6.0
	密封试验 Seal test	0.66	1.1	1.76	2.75	4.4
适用介质 Appropriate medium	空气、煤气、水、蒸气、油品、酸类腐蚀性等 Water, steam, oil, acid corrosive and so on.					
适用温度 Appropriate temperatuer	碳钢 Carben steel: -29℃ ~ 350℃ 不锈钢 Stainless steel: -40℃ ~ 600℃					

主要外形尺寸/Main Size Of Outside

公称口径 DN Nominal diameter		结构长度 (标准值) Structure length (standard)	外形尺寸(参考值) External dimension (consult)			连接尺寸 Conjunction size					
						1.0MPa		1.6MPa		2.5MPa	
mm	inch	L	L2	H	H1	D1	n-d0	D1	Z-d	D1	Z-d
50	2	43	265	330	250	125	4-18	125	4-18	125	4-18
65	2 1/2	46	265	362	267	145	4-18	145	4-18	145	8-18
80	3	49	320	375	275	160	8-18	160	8-18	160	8-18
100	4	56	320	410	295	180	8-18	180	8-18	190	8-22
125	5	64	340	425	305	210	8-18	210	8-18	220	8-26
150	6	70	390	465	320	240	8-22	240	8-22	250	8-26

产品结构

多层次硬密封蝶阀系列产品，我公司新开发的长寿命、节能型高性能蝶阀。其结构采用三维偏心原理设计，阀座采用硬软密封兼容的多层次结构，加工精湛，工艺先进。本产品由阀体、蝶板、多层次阀座、阀杆、传动机构等主要部件组成。

特点

由于本产品蝶阀采用的是三维偏心原理设计，使密封面的空间运动轨迹达到理想化，密封面相互之间无磨损、运动件无干涉，根据不同工况要求密封材料选择得当，从而使蝶阀的密封性、耐腐蚀性、耐高温性和耐磨性等得到了可靠的保证。其主要特点如下：

1. 开启力矩小，灵活方便，省力节能；
2. 三维偏心结构，使蝶板越关越紧，其密封性能可靠；
3. 根据工况要求耐高压、耐腐蚀、耐磨损、使用寿命长等。

主要技术参数/Main Technology Parameter

公称通径 Nominal diameter	DN (mm)	50 ~ 1600				50 ~ 500
公称压力 Nominal pressure	PN (MPa)	0.6	1.0	1.6	2.5	4.0
试验压力 Ps (MPa) Test pressure	强度试验 Shell test	0.9	1.5	2.4	3.75	6.0
	密封试验 Seal test	0.66	1.1	1.76	2.75	4.4
泄漏率 Leakage	< 0.1 × DN mm ³ /s (符合 accord with GB/T13927-92 标准 standard)					
适用温度 Appropriate temperatuer	碳钢 Carbon steel: -29℃ ~ 350℃ 不锈钢 Stainless steel: -40℃ ~ 600℃					
适用介质 Appropriate medium	尘气、空气、水、蒸气、煤气、油品以及酸、碱、盐带有腐蚀性介质等 Air, water, steam, coal gas, oil and acid, alkali, salt corrosive medium and so on.					
驱动形式 Drive modality	蜗轮蜗杆传动、气传动、电传动 Worm worm wheel drive, gas drive, electric drive					

主要零件的材质/Material For Main Parts

零件名称 Parts name	材料 Material
阀体 Body	焊接钢、铸钢、不锈钢、合金钢 Weld the piece, Cast steel, stainless steel, alloy steel
蝶板 Disc	焊接钢、铸钢、合金钢、不锈钢 Weld the piece, Cast steel, Alloy steel, stainless steel
体、板、密封圈 Seal ring	不锈钢与耐高温石棉板组合成多层次 Stainless steel and high temperature resistant asbestos composed of multiple layers
阀杆 Stem	2Cr13、1Cr13 不锈钢、铬钼钢 Stainless steel, Cr.Mo.Steel
轴承 Axletree	铝青铜、奥氏体不锈钢、304 氮化 Aluminum bronze ZG00Cr18Ni10, 304 nitrification
填料 Packing	柔性石墨 Flexible graphite

Product Structure

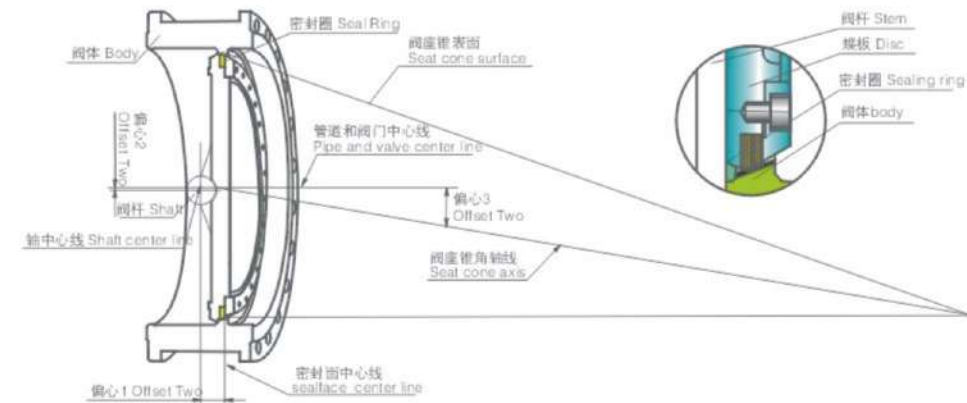
This company has produced new product of multiple layers hard sealing butterfly valve with long service life, energy saving. The configuration adopt three-dimensional eccentric principle to be designed, seat use hard & soft hermetical multiple configuration, exquisite process, advanced technology, and this product is composed of body, disc, seat with multiple layers, stem, operative mechanical etc.

Characteristic

Because this butterfly valve adopt three-dimensional eccentric principle to design, makes the movement track on facing space reach to idealization, and there are no attrition and no intervene between hermetical components, furthermore, the hermetical material has been selected reasonably, thereby it ensure hermetic, 10. antisepsis, wear-able capability of valve. The main characteristic as below:

1. Tiny moment for starting, flexible and convenient, save labor and energy.
2. Three-dimensional eccentric configuration forces disc close tighter and tighter, and reach to reliable hermetic capability and with no leakage
3. It has characteristic of high temperature resistant, high pressure resistant, antisepsis, wearable, long service life etc.

三偏心几何图/The Triple Offset Geometry



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

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

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

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



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

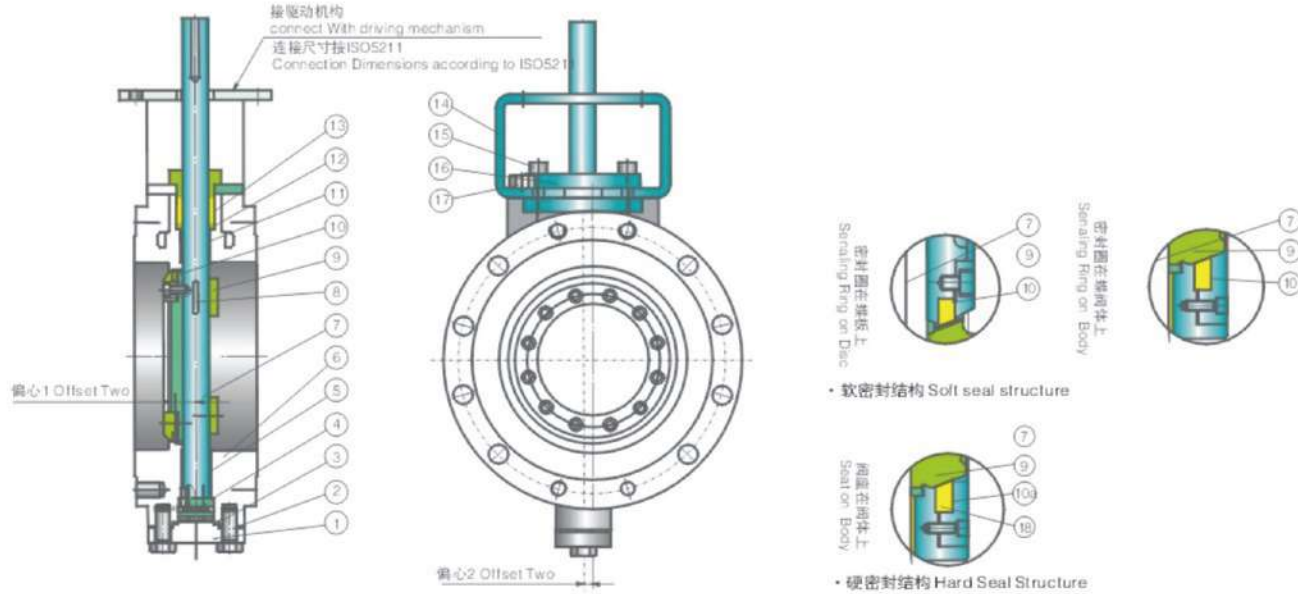
特点

- 复合金属密封圈的弹性特性使得阀门具有零泄漏性能。
- 扭矩密封确保阀门持续的双向零泄漏特性。
- 直角旋转无摩擦设计是通过一个独特的三偏心原理来实现，它消除90°旋转中阀座与密封圈之间的摩擦。
- STL一体式硬面阀座可满足许多工况要求，使用寿命，维修方便。
- 一体式铸造(板焊)阀体，结构长度符合ISO752、ASME B16.10和API609。可替换高性能蝶阀以及其他种类的阀门，安装简单、灵活
- 全金属结构加上零泄漏性能，使阀门具有‘本质防火安全’特性。
- 阀杆防吹出设计安全可靠，完全符合API609的要求。
- 阀杆杆上的阀位指示器以及顶部安装法兰有利于蝶板位置指示。
- 三偏心蝶阀的阀杆采用一根通轴式结构，阀杆与蝶板连接采用键或销键组合。

Characteristic

- Elastic property of composite metal sealing ring to perform zero leakage.
- Torque seal to ensure persistent two-way zero leakage.
- The design of right-angled rotation with zero friction is implemented by the distinctive triple eccentric principle. It eliminates the friction between the seat and sealing ring in 90° rotation.
- STL one-piece hard-surface seat may adapt to many working conditions, which is featured by long service life and easy maintenance.
- One-piece cast (sheet welded) body, face-to-face dimensions conforming to ISO752, ASME B16.10 and API609, replacement to high performance butterfly valves and other types of valves, easy and flexible installation.
- Intrinsic fireproof property thanks to all metal structure and leak-tight performance.
- Anti-blowout stem for high dependability, completely conforming to API609.
- The valve position indicator on the stem and the flange mounted at the top are in favor of the indication of disc position.
- The stem of triple eccentric butterfly valve is a shaft, stem and disc are connected by of pin-key combination.

法兰连接蝶阀/Flange Butterfly Valve



材料明细表(法兰连接蝶阀)/Materials List (Flange Butterfly Valve)

序号NO	零件名称Part Name	材料Materials	可选材料Optional Materials	序号NO	零件名称Part Name	材料Materials	可选材料Optional Materials
1	底盖 Cover	碳钢 Carbon Steel	不锈钢、蒙乃尔 SS、Monel	10	密封圈 Seal Ring	PTFE/PTFE+SS	MBR/SS+柔性石墨 MBR/SS+Graphite
2	螺栓 Bolt	合金钢 Alloy Steel	不锈钢、蒙乃尔 SS、Monel	11	上轴套 Bushing	聚四氟乙烯+黄铜 PTFE+ Bronze	自润滑黄铜 Lubricized Bronze
3	垫片 Gasket	柔性石墨 Graphite		12	填料垫 Packing Seat	不锈钢 SS	不锈钢、蒙乃尔 SS、Monel
4	调整垫 Spacer	不锈钢 SS	不锈钢、蒙乃尔 SS、Monel	13	填料 Packing	柔性石墨 Graphite	PTFE
5	下轴套 Bushing	聚四氟乙烯+黄铜 PTFE+ Bronze	自润滑黄铜 Lubricized Bronze	14	连接支架 Yoke	碳钢 Carbon Steel	
6	阀体 Body	铸钢 Cast steel	不锈钢、蒙乃尔 SS、Monel	15	螺栓 Bolt	合金钢 Alloy Steel	不锈钢、蒙乃尔 SS、Monel
7	阀杆 Stem	不锈钢 SS	不锈钢、蒙乃尔 SS、Monel	16	填料压板 Gland	碳钢 Carbon Steel	不锈钢 SS
8	键 Key	不锈钢 SS	不锈钢、蒙乃尔 SS、Monel	17	螺栓 Bolt	合金钢 Alloy Steel	不锈钢、蒙乃尔 SS、Monel
9	蝶板 Disc	铸钢 Cast steel	不锈钢、蒙乃尔 SS、Monel				

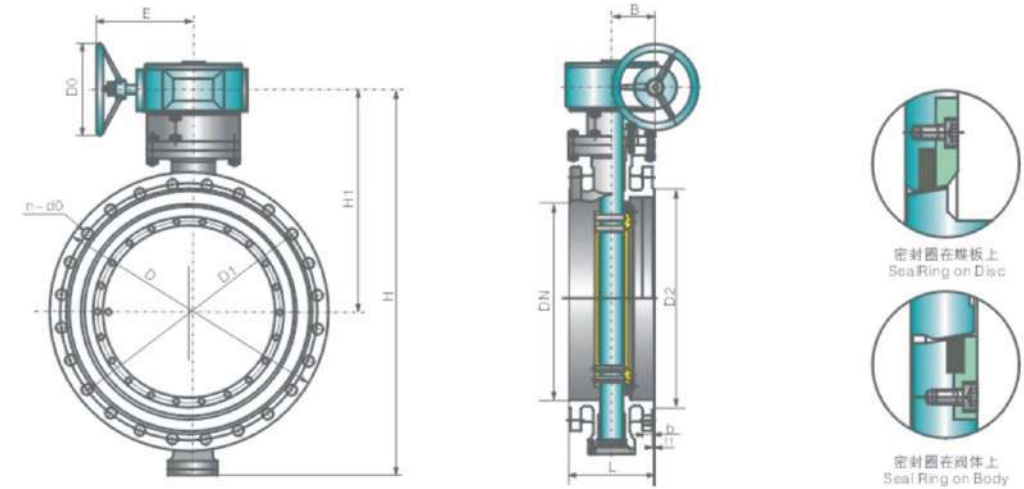
标准应用/Standards Compliance

设计和制造 Design and manufacture standard		API 609	试验和检验 Inspection and test standard		API 598
温压等级 Material pressure-temp standard		ASME B16.34	法兰连接尺寸 Flange ends dimension standard	口径Size ≤ 24" 到 根据 ANSI B16.5	
结构长度 Face to face dimension standard	短结构 Flange short pattern to	ISO5752 basic series 13		口径Size > 24" 到 根据 ANSI B16.47 Series B	
	长结构 Flange long pattern to	ASME B16.10	防火制造 Fire safe standard		API 607

产品性能规范/Products Performance Specification

压力等级 Pressure	常温试验压力(MPa) Testing pressure at constant temperature (Mpa)			适用温度 Applicable temperature	适用介质 Applicable medium
	壳体试验 The shell testing	高压密封 High-Pressure seal	低压密封 Low-Pressure seal		
磅级(Lb) Pound grade (Class)	150	2.93	2.07	0.6	水、油、气及各类腐蚀性介质(不同的介质选用不同的材质) Water, oil, gas and other causticity medium (Different raw material for different medium)
	300	7.58	5.52	0.6	
	600	15.0	11.03	0.6	

DN343HS Class 150~600



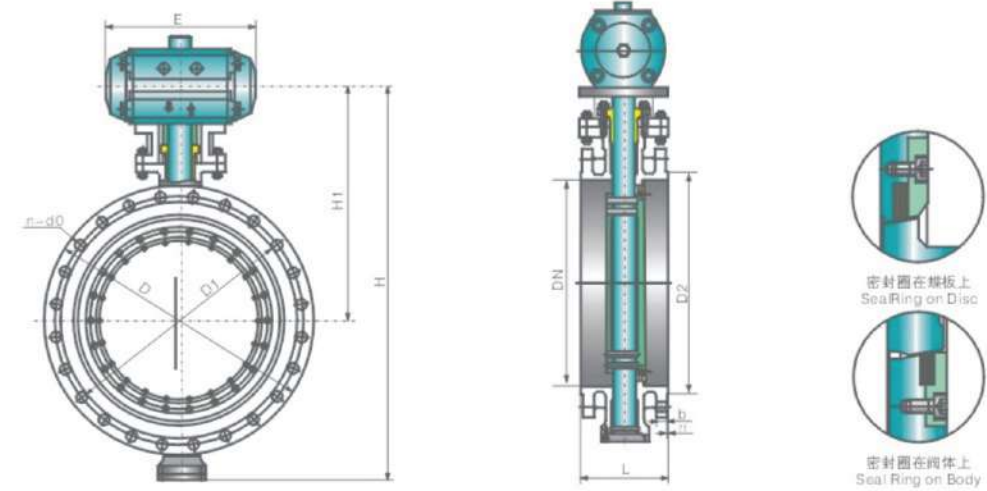
主要外形尺寸及重量/Main Size of Outside & Weight

D343 ^H _F - 150Lb (A系列) 法兰蝶阀 (A Series) Flange butterfly													
NPS	DN	D	D1	突面 D2 Tunisia face	凸台 f1 Boss	b	n-d0	短结构 Short pattern	H	H1	B	E	D0
3"	80	190	152.5	127	1.6	24	4X18	114	472	350	50	130	203
4"	100	230	190.5	175.5	1.6	24	8X18	127	520	375	60	188	203
6"	150	280	241.5	216	1.6	25.5	8X22	140	580	410	67	220	305
8"	200	345	298.5	270	1.6	29	8X22	152	650	440	90	260	460
10"	250	405	362	324	1.6	30.5	12X26	165	700	460	90	260	460
12"	300	485	432	381	1.6	32	12X26	178	800	530	100	295	610
14"	350	535	476	413	1.6	35	12X29.5	190	980	675	100	320	356
16"	400	600	540	470	1.6	37	16X29.5	216	1042	710	120	320	457
18"	450	635	578	533.5	1.6	40	16X32.5	222	1110	750	120	340	610
20"	500	700	635	584	1.6	43	20X32.5	229	1170	760	140	340	762
24"	600	815	749.5	692	1.6	48	20X35	267	1225	777	140	360	762
26"	650	870	806.5	749.5	1.6	68.5	24X35	267	1280	805	155	360	315
28"	700	927	863.5	800	1.6	71	28X35	292	1330	827	155	360	400
30"	750	985	914.5	857	1.6	75	28X35	308	1385	853	155	435	400
32"	800	1060	978	914.5	1.6	81	28X41	318	1440	870	190	435	400
36"	900	1170	1086	1022.5	1.6	83	32X41	330	1530	905	230	580	400
38"	950	1240	1149.5	1073	1.6	87	32X41	330	1610	950	230	580	400
40"	1000	1290	1200	1124	1.6	90	36X41	410	1660	965	230	580	400
42"	1050	1346	1257.5	1194	1.6	97	36X41	410	1720	997	230	580	400
44"	1100	1405	1314.5	1244.5	1.6	102	40X41	410	1780	1027	263	620	450
46"	1150	1455	1365	1295.5	1.6	103	40X41	470	1830	1053	263	620	450
48"	1200	1511	1422.5	1359	1.6	108	44X41	470	1920	1115	263	620	450
50"	1250	1570	1479.5	1410	1.6	111	44X48	470	1980	1160	263	620	450
52"	1300	1625	1536.5	1460.5	1.6	116	44X48	470	2030	1168	263	620	450
54"	1350	1683	1594	1511	1.6	121	44X48	470	2093	1203	310	690	500
56"	1400	1746	1651	1575	1.6	124	48X48	530	2160	1235	310	690	500
58"	1450	1805	1708	1625.5	1.6	128	48X48	530	2220	1265	310	690	500
60"	1500	1855	1759	1676.5	1.6	132	52X48	530	2270	1293	310	690	500

主要外形尺寸及重量/Main Size of Outside & Weight

D343H _F -300Lb (A 系列) 法兰蝶阀 (A Series) Flange butterfly													
NPS	DN	D	D1	突面 D2 Tunisia face	凸台 f1 Boss	b	n-d0	短结构 Short pattern	H	H1	B	E	D0
3'	80	210	168.5	127	1.6	29	8x22	180	378	253	73	229	152
4'	100	255	200	157.5	1.6	32	8x22	190	421	274	73	229	305
6'	150	320	270	216	1.6	34	12x22	210	543	351	108	254	305
8'	200	380	330	270	1.6	41.5	12x26	230	628	392	108	254	305
10'	250	445	387.5	324	1.6	48	16x29.5	250	855	480	133	305	610
12'	300	520	451	381	1.6	51	16x32.5	270	812	515	133	305	610
14'	350	585	514.5	413	1.6	54	20x32.5	290	885	555	175	256	610
16'	400	650	571.5	470	1.6	57.5	20x35.5	310	951	590	175	356	356
18'	450	710	628.5	533.5	1.6	60.5	24x35.5	330	1020	615	175	356	356
20'	500	775	686	584	1.6	63.5	24x35.5	350	1080	653	175	356	356
24'	600	915	813	692	1.6	70	24x42	390	1200	759	210	435	400
26'	650	927	876.5	749.5	1.6	84	28x44	390	1277	764	210	435	400
28'	700	1035	940	800	1.6	90	28x44	430	1385	817	210	435	400
30'	750	1092	997	857	1.6	95	28x48	430	1442	846	250	580	425
32'	800	1150	1054	914.5	1.6	100	28x51	470	1555	930	250	580	425
36'	900	1270	1168.5	1022.5	1.6	111	32x54	510	1640	955	250	580	425
38'	950	1170	1092	1029	1.6	108	32x41	510	1540	905	300	620	450
40'	1000	1240	1155.5	1086	1.6	114	32x44	550	1630	960	300	620	450
42'	1050	1290	1206.5	1136.5	1.6	119	32x44	550	1650	955	300	620	450
44'	1100	1353	1263.5	1194	1.6	124	32x48	550	1723	997	300	620	450
46'	1150	1416	1321	1244.5	1.6	128	28x51	630	1790	1032	350	690	500
48'	1200	1467	1371.5	1302	1.6	133	32x51	630	1840	1056	350	690	500
50'	1250	1530	1429	1359	1.6	140	32x54	630	1900	1100	350	690	500
52'	1300	1581	1479.5	1410	1.6	144	32x54	630	1950	1126	420	820	520
54'	1350	1658	1549.5	1467	1.6	152	28x60.5	710	2030	1150	420	820	520
56'	1400	1710	1600	1517.5	1.6	154	28x60.5	710	2080	1175	420	820	520
58'	1450	1760	1651	1575	1.6	159	32x60.5	710	2130	1200	530	1020	600
60'	1500	1810	1702	1625.5	1.6	163	32x60.5	710	2180	1225	530	1020	600
D343H-600Lb (A 系列) 法兰蝶阀 (A Series) Flange butterfly													
6'	150	355	292	216	6.4	48	12x29.5	210	680	480	130	320	300
8'	200	420	349	270	6.4	55.5	12x32.5	230	750	515	130	320	300
10'	250	510	432	324	6.4	63.5	16x35.5	250	840	560	130	320	300
12'	300	560	489	381	6.4	67	20x35.5	270	890	580	155	340	350
14'	350	605	527	413	6.4	70	20x39	290	955	625	175	360	350
16'	400	685	603	470	6.4	76.5	20x42	310	1035	665	175	360	350
18'	450	745	654	533.5	6.4	83	20x45	330	1095	693	175	360	350
20'	500	815	724	584	6.4	89	24x45	350	1165	730	210	435	400
24'	600	940	838	692	6.4	102	24x51	390	1290	805	250	580	425
26'	650	1016	914.5	749.5	6.4	108	28x51	390	1386	860	250	580	425
28'	700	1073	965	800	6.4	111.5	28x54	430	1443	893	300	620	450
30'	750	1130	1022.5	857	6.4	114.5	28x54	430	1500	920	300	620	450
32'	800	1194	1079.5	914.5	6.4	117.5	28x60.5	470	1565	950	350	690	500
36'	900	1315	1194	1022.5	6.4	124	28x66.5	510	1685	1010	350	690	500

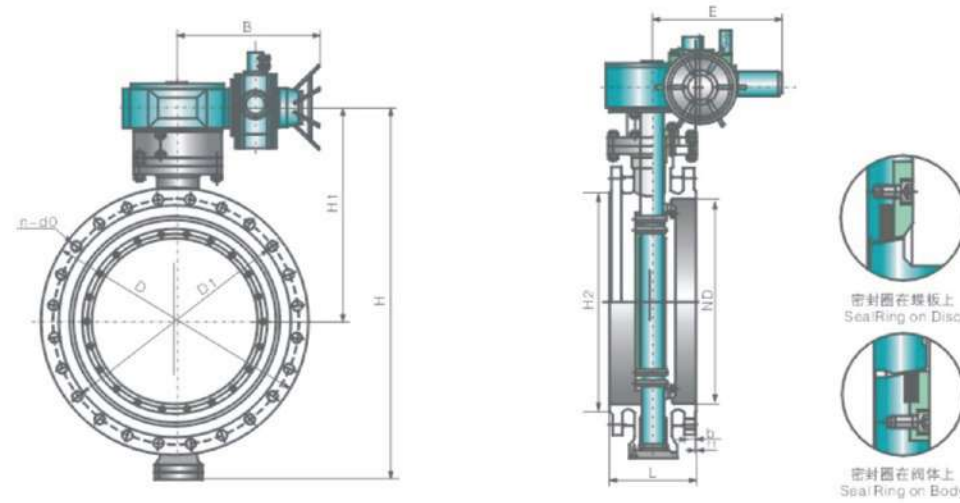
DN643HS Class 150/300



主要外形尺寸及重量/Main Size of Outside & Weight

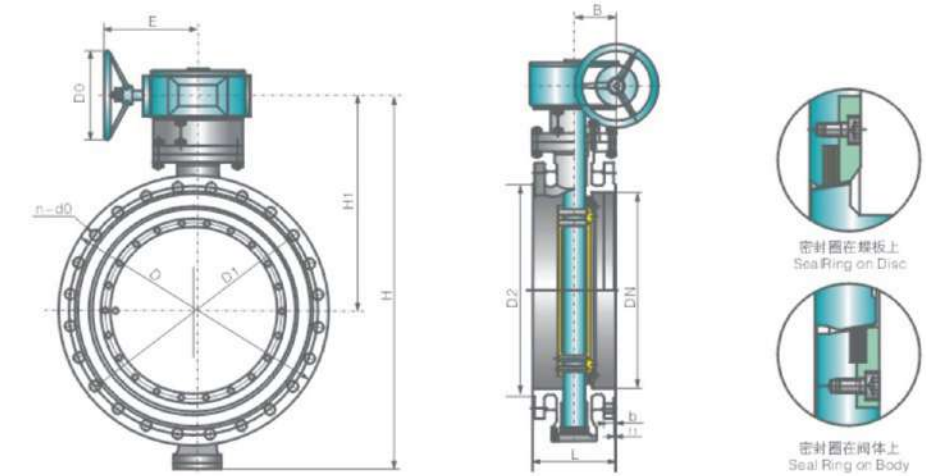
150Lb												
NPS	DN	D	D1	突面 D2 Tunisia face	凸台 f1 Boss	b	n-d0	短结构 Short pattern	H	H1	E	
3"	80	190	152.5	127	1.6	24	4X18	114	560	220	263	
4"	100	230	190.5	175.5	1.6	24	8X18	127	580	240	263	
6"	150	280	241.5	216	1.6	25.5	8X22	140	640	290	263	
8"	200	345	298.5	270	1.6	29	8X22	152	690	323	275	
10"	250	405	362	324	1.6	30.5	12X26	165	750	355	275	
12"	300	485	432	381	1.6	32	12X26	178	955	475	378	
14"	350	535	476	413	1.6	35	12X29.5	190	1032	513	378	
16"	400	600	540	470	1.6	37	16X29.5	216	1182	598	530	
18"	450	635	578	533.5	1.6	40	16X32.5	222	1265	635	530	
20"	500	700	635	584	1.6	43	20X32.5	229	1335	667	530	
24"	600	815	749.5	692	1.6	48	20X35	267	1642	830	680	
26"	650	870	806.5	749.5	1.6	68.5	24X35	292	1711	859	680	
28"	700	927	863.5	800	1.6	71	28X35	308	1782	910	680	
30"	750	985	914.5	857	1.6	75	28X35	318	1856	942	680	
32"	800	1060	978	914.5	1.6	81	28X41	330	1920	975	680	
300Lb												
NPS	DN	D	D1	突面 D2 Tunisia face	凸台 f1 Boss	b	n-d0	短结构 Short pattern	H	H1	E	
3"	80	210	168.5	127	1.6	29	8x22	180	378	253	263	
4"	100	255	200	157.5	1.6	32	8x22	190	420	274	263	
6"	150	320	270	216	1.6	34	12x22	210	543	350	263	
8"	200	380	330	270	1.6	41.5	12x26	230	628	392	275	
10"	250	445	387.5	324	1.6	48	16x29.5	250	755	430	378	
12"	300	520	451	381	1.6	51	16x32.5	270	812	515	530	
14"	350	585	514.5	413	1.6	54	20x32.5	290	885	555	530	
16"	400	650	571.5	470	1.6	57.5	20x35.5	310	951	590	530	
18"	450	710	628.5	533.5	1.6	60.5	24x35.5	330	1020	615	680	
20"	500	775	686	584	1.6	63.5	24x35.5	350	1182	653	680	
24"	600	915	813	692	1.6	70	24x42	390	1245	756	-	
26"	650	972	876.5	749.5	1.6	79.5	28x44	390	1277	764	-	
28"	700	1035	940	800	1.6	90	28x44	430	1385	817	-	
30"	750	1092	997	857	1.6	95	28x48	430	1442	846	-	
32"	800	1150	1054	914.5	1.6	100	28x51	470	1555	930	-	

DN943HS Class 150/300

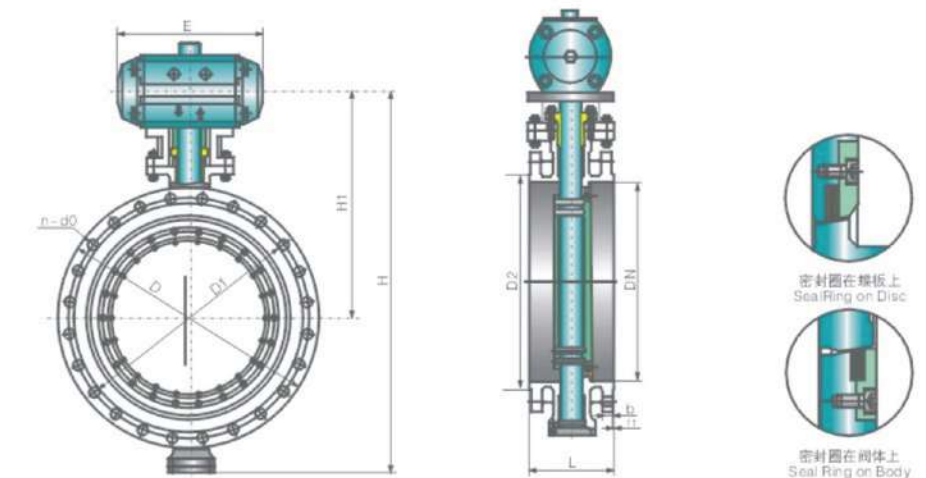


主要外形尺寸及重量/Main Size of Outside & Weight

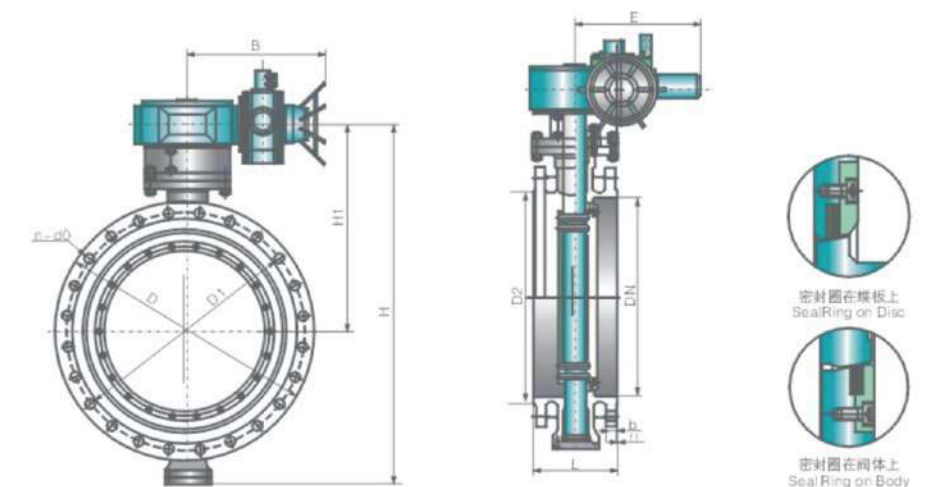
150Lb												
NPS	DN	D	D1	突面 D2 Tunisia face	凸台 f1 Boss	b	n-d0	短路构 Short pattern	H	H1	E	B
3"	80	190	152.5	127	1.6	24	4X18	114	513	263	180	178
4"	100	230	190.5	175.5	1.6	24	8X18	127	535	282	180	178
6"	150	280	241.5	216	1.6	25.5	8X22	140	602	322	180	178
8"	200	345	298.5	270	1.6	29	8X22	152	745	296	370	235
10"	250	405	362	324	1.6	30.5	12X26	165	805	325	370	235
12"	300	485	432	381	1.6	32	12X26	178	883	365	370	235
14"	350	535	476	413	1.6	35	12X29.5	190	965	408	370	235
16"	400	600	540	470	1.6	37	16X29.5	216	1033	443	370	235
18"	450	635	578	533.5	1.6	40	16X32.5	222	1120	485	370	235
20"	500	700	635	584	1.6	43	20X32.5	229	1186	518	370	235
24"	600	815	749.5	692	1.6	48	20X35	267	1380	625	370	235
26"	650	870	806.5	749.5	1.6	68.5	24X35	292	1711	677	430	245
28"	700	927	863.5	800	1.6	71	28X35	292	1587	745	515	245
30"	750	985	914.5	857	1.6	75	28X35	308	1650	777	515	245
32"	800	1060	978	914.5	1.6	81	28X41	318	1717	810	515	245
300Lb												
3"	80	210	168.5	127	1.6	29	8x22	180	530	253	180	178
4"	100	255	200	157.5	1.6	32	8x22	190	552	274	180	178
6"	150	320	270	216	1.6	34	12x22	210	610	351	180	178
8"	200	380	330	270	1.6	41.5	12x26	230	755	392	370	235
10"	250	445	387.5	324	1.6	48	16x29.5	250	816	480	370	235
12"	300	520	451	381	1.6	51	16x32.5	270	912	515	370	235
14"	350	585	514.5	413	1.6	54	20x32.5	290	980	555	370	235
16"	400	650	571.5	470	1.6	57.5	20x35.5	310	1057	590	370	235
18"	450	710	628.5	533.5	1.6	60.5	24x35.5	330	1140	636	370	235
20"	500	775	686	584	1.6	63.5	24x35.5	350	1243	685	515	245
24"	600	915	813	692	1.6	70	24x42	390	1420	934	817	351
26"	650	927	876.5	749.5	1.6	84	28x44	390	1812	1039	817	351
28"	700	1035	940	800	1.6	90	28x44	430	1906	1060	817	351
30"	750	1092	997	857	1.6	95	28x48	430	2021	1120	817	351
32"	800	1150	1054	914.5	1.6	100	28x51	470	2327	1190	973	440



Dd343H蜗轮蜗杆传动蝶阀/Worm Gear Driven Butterfly Valve



Dd643H气动蝶阀/Pneumatic Butterfly Valve



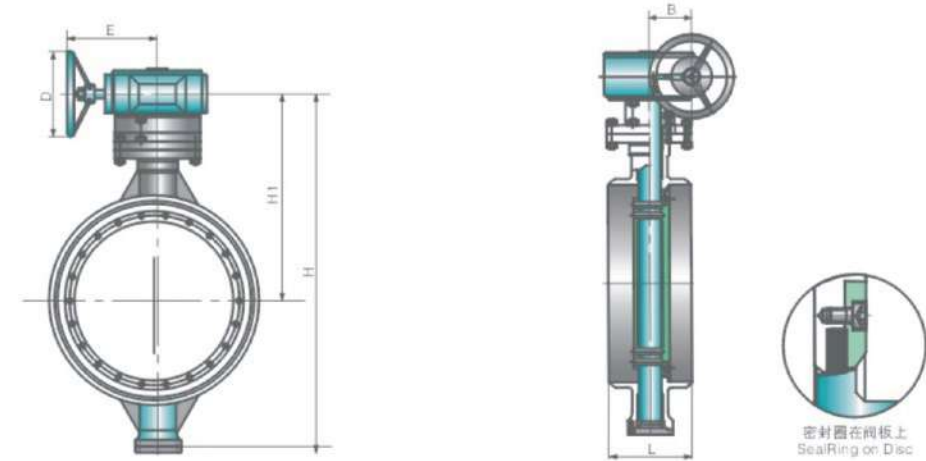
Dd943H电动蝶阀/Electric Butterfly Valve

主要外形尺寸及重量/Main Size of Outside & Weight

D343H _F -150Lb (B系列) 法兰蝶阀 (B Series) Flange butterfly													
NPS	DN	D	D1	突面 D2 Tunisia face	凸台 f1 Boss	b	n-d0	短结构 Short pattern	H	H1	B	E	D0
26"	650	786	744.5	711	1.6	41.5	36x22.5	267	1100	670	155	360	300
28"	700	837	795.5	762	1.6	44.5	40 x22.5	292	1157	703	155	360	300
30"	750	888	846	813	1.6	44.5	44x22.5	308	1210	730	155	360	300
32"	800	942	900	863.5	1.6	46	48x22.5	318	1275	756	190	435	300
34"	850	1005	957.5	921	1.6	49.5	40x25.5	318	1330	783	190	435	300
36"	900	1057	1009.5	971.5	1.6	52.5	44x25.5	330	1390	833	210	580	350
38"	950	1124	1070	1022.5	1.6	54	40x28.5	330	1415	865	230	580	350
40"	1000	1175	1120.5	1079.5	1.6	56	44x28.5	410	1510	891	230	580	350
42"	1050	1226	1171.5	1130.5	1.6	59	48x28.5	410	1560	920	230	580	350
44"	1100	1277	1222	1181	1.6	60.5	52x28.5	410	1610	943	263	620	350
46"	1150	1342	1284	1235	1.6	62	40x32	470	1677	975	263	620	400
48"	1200	1392	1335	1289	1.6	65	44x32	470	1747	1050	263	620	400
50"	1250	1443	1386	1340	1.6	68.5	48x32	470	1795	1075	263	620	400
52"	1300	1494	1436.5	1390.5	1.6	70	52x32	470	1850	1100	263	620	400
54"	1350	1550	1492.5	1441.5	1.6	71.5	56x32	470	1910	1125	310	690	400
56"	1400	1600	1543	1492.5	1.6	73.5	60x32	530	1960	1150	310	690	400
58"	1450	1675	1611.5	1543	1.6	75	48x35	530	2035	1187	310	690	450
60"	1500	1726	1662	1600	1.6	76.5	52x35	530	2087	1213	310	690	450

D343H _F -300Lb (B系列) 法兰蝶阀 (B Series) Flange butterfly													
NPS	DN	D	D1	突面 D2 Tunisia face	凸台 f1 Boss	b	n-d0	短结构 Short pattern	H	H1	B	E	D0
26"	650	867	803	736.5	1.6	89	32x35	390	1197	734	210	435	400
28"	700	921	857	787.5	1.6	89	36x35	430	1251	761	210	435	400
30"	750	991	920.5	844.5	1.6	94	36x38	430	1321	796	210	435	400
32"	800	1054	978	901.5	1.6	103.5	32x41	470	1395	840	250	580	425
34"	850	1108	1031.5	952.5	1.6	103.5	36x41	470	1450	865	250	580	425
36"	900	1172	1089	1009.5	1.6	103.5	32x44.5	510	1525	916	250	580	425
38"	950	1222	1140	1060.5	1.6	111.5	36x44.5	510	1580	951	300	620	450
40"	1000	1273	1191	1114.5	1.6	116	40x44.5	550	1633	977	300	620	450
42"	1050	1334	1244.5	1168.5	1.6	119.5	36x48	550	1694	1010	300	620	450
44"	1100	1385	1295.5	1219	1.6	127	40x48	550	1750	1033	350	620	450
46"	1150	1461	1365.5	1270	1.6	128.5	36x51	630	1825	1071	350	690	500
48"	1200	1511	1416	1327	1.6	128.5	40x51	630	1893	1106	350	690	500
50"	1250	1562	1467	1378	1.6	138.5	44x51	630	1942	1131	350	690	500
52"	1300	1615	1517.5	1429	1.6	143	48x51	630	1995	1157	420	820	520
54"	1350	1674	1578	1479.5	1.6	137	48x51	710	2055	1187	420	820	520
56"	1400	1766	1651	1536.5	1.6	154	36x60.5	710	2166	1253	420	820	520
58"	1450	1828	1713	1594	1.6	154	40x60.5	710	2228	1284	455	1020	600
60"	1500	1878	1764	1651	1.6	151	40x60.5	710	2278	1310	455	1020	600

DN363H Class 150/300



设计标准

1. 设计和制造: API 609
2. 法兰端尺寸: ISO 5052 Series 13
3. 温压等级: ASME B16.34
4. 对焊端尺寸: ASME B16.25
5. 试验和检验: API 598

Design Construction

1. Design and manufacture standard: API 609
2. End to End Dimension standard: ISO 5052 Series 13
3. Material pressure-temp standard: ASME B16.34
4. Butt-Weld ends dimension standard: ASME B16.25
5. Inspection and test standard: API 598

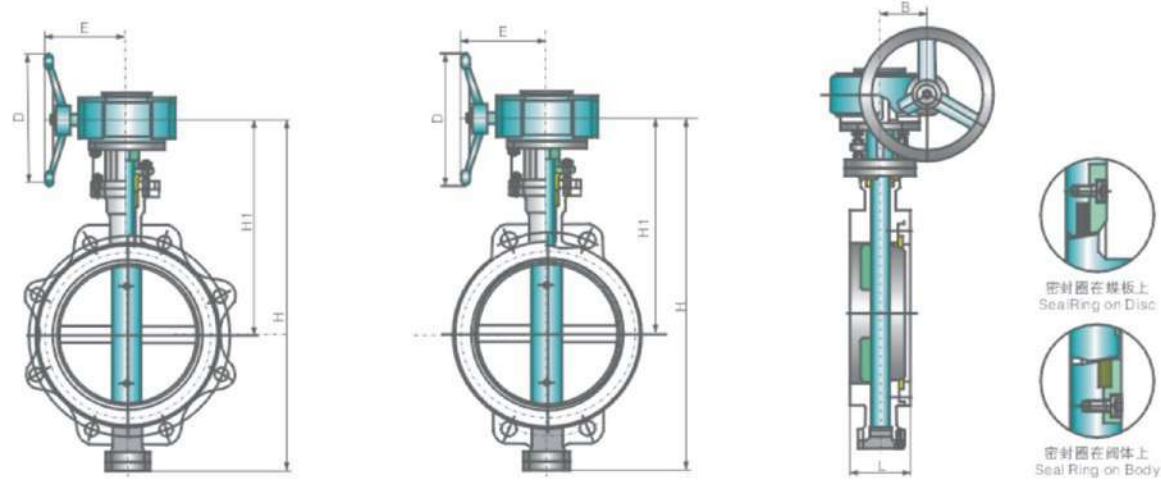
产品性能规范/Products Performance Specification

压力等级 Pressure	常温试验压力(MPa) Testing pressure at constant temperature (Mpa)				适用温度 Applicable temperature	适用介质 Applicable medium
	壳体试验 The shell testing	高压密封 High-Pressure seal	低压密封 Low-Pressure seal			
磅级(Lb) Pound grade (Class)	150	2.93	2.07	0.6	-46°C~550°C(不同的 工况温度选用不同的材质) Different raw material for different work temperature	水、油、气及各类腐蚀性 介质(不同的介质选用不同的 材质) Water, oil, gas and other causticity me dium(Different raw material for different medium)
	300	7.58	5.52	0.6		
	600	15.0	11.03	0.6		

主要外形尺寸及重量/Main Size of Outside & Weight

150Lb															
NPS	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	30"	32"	36"
L	140	160	180	220	220	240	260	280	300	320	340	460	480	480	500
H1	295	305	366	396	429	483	498	579	630	655	744	790	815	874	899
H	430	460	536	594	660	752	795	912	996	1049	1196	1301	1351	1451	1501
E	198	198	211	267	254	254	404	404	404	465	465	465	559	559	559
B	84	84	84	145	114	114	145	145	191	191	191	191	269	269	269
D	200	200	250	250	315	315	315	315	315	400	400	400	400	400	400
重量 Weight(kg)	32	35	43	60	90	107	153	207	267	327	473	653	760	1033	1200
300Lb															
NPS	3'	4'	6'	8'	10'	12'	14'	16'	18'	20'	24'	28'	30'	32'	36'
L	140	160	180	220	220	240	260	280	300	320	340	460	480	480	500
H1	295	358	389	417	465	546	579	642	673	701	775	904	963	1054	1161
H	427	508	577	638	717	836	897	1010	1069	1123	1270	1463	1557	1671	1837
E	198	198	254	254	404	404	465	465	465	559	559	648	648	648	805
B	84	84	114	114	145	145	191	191	191	269	269	351	351	351	429
D	200	200	315	315	315	315	400	400	400	400	400	400	400	400	630
重量 Weight(kg)	34	44	73	132	151	257	286	416	497	571	881	1320	1478	1699	2379

DN373H Class 150/300



设计标准

1. 设计和制造: API 609
2. 温压等级: ASME B16.34
3. 结构长度: API 609 Series B
4. 法兰连接尺寸: 口径 $\leq 24''$ 根据 ANSI B16.5
口径 $> 24''$ 根据 ANSI B16.47 Series B

Design Construction

1. Design and manufacture standard: API 609
2. Material pressure-temp standard: ASME B16.34
3. Face to face dimension standard: API 609 Series B
4. Flange ends dimension standard: Size $\leq 24''$ to ANSI B16.5
Size $> 24''$ to ANSI B16.47 Series B

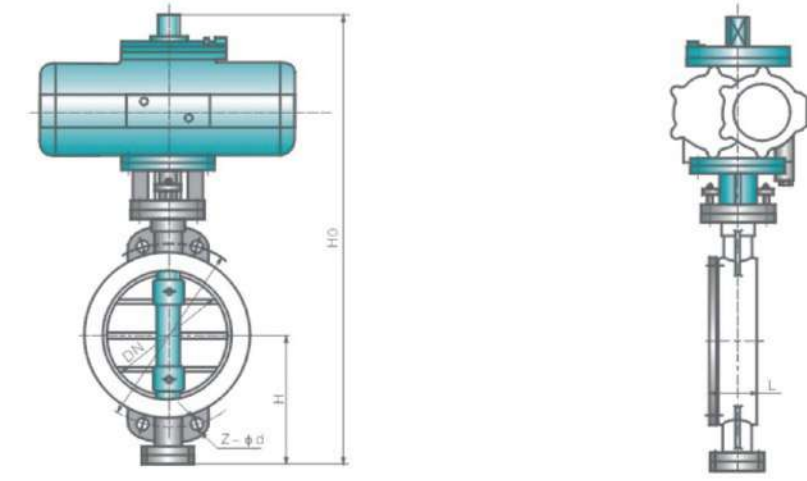
产品性能规范/Products Performance Specification

压力等级 Pressure		常温试验压力(MPa) Testing pressure at constant temperature (Mpa)			适用温度 Applicable temperature	适用介质 Applicable medium
		壳体试验 The shell testing	高压密封 High-Pressure seal	低压密封 Low-Pressure seal		
磅级(Lb) Pound grade (Class)	150	2.93	2.07	0.6	-46℃~550℃(不同的 工况温度选用不同的材质) Different raw material for different work temperature	水、油、气及各类腐蚀 性介质(不同的介质选用有同的材质) Water, oil, gas and other causticity me dium(Different rawmaterial fordifferent medium)
	300	7.58	5.52	0.6		
	600	15.0	11.03	0.6		

主要外形尺寸及重量/Main Size of Outside & Weight

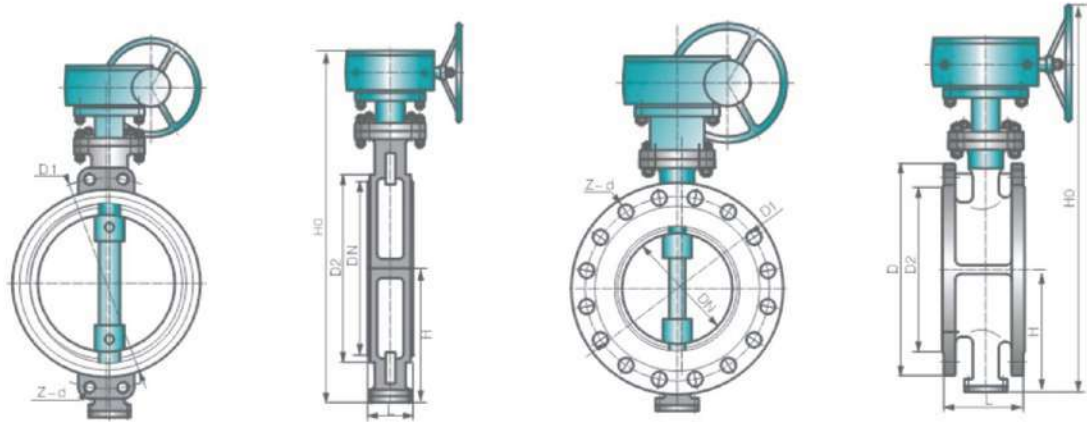
150Lb													
NPS	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"
L	48	57	58	64	71	81	92	102	114	127	154	167	184
H	320	342	415	510	567	665	739	825	910	990	1210	1453	1775
H1	185	195	243	263	295	342	385	430	469	500	618	875	939
E	140	140	140	150	150	200	200	240	240	300	320	512	512
B	63	63	63	84	84	108	108	152	152	168	192	279	279
D	160	160	300	400	400	600	600	600	800	800	800	400	400
重量 Weight(kg)	WF	9	11	17	25	40	61	82	123	150	204	454	762
	WL	9	14	20	31	49	79	107	150	182	253	398	771
300Lb													
L	48	54	59	73	83	92	117	133	149	159	181	254	305
H	320	342	415	510	567	665	739	825	910	990	1210	1937	2198
H1	185	195	243	263	295	342	385	430	469	500	618	1180	1298
E	140	140	140	150	150	200	200	240	240	300	320	512	570
B	63	63	63	84	84	108	108	152	152	168	192	279	368
D	160	160	300	400	400	600	600	600	800	800	800	600	600
重量 Weight(kg)	WF	13.5	18	28	49	68	109	186	264	297	363	816	1429
	WL	15.5	21	34	60	88	117	207	308	408	468	1338	2154

DN373H Class 150/300



主要外形尺寸及重量/Main Size of Outside & Weight

公称口径 DN(mm) Nominal Diameter		L	D1	D2	H _o	H	Z-φ d
in	mm						
150Lb							
2"	50	43	120.5	92	409	82	4-φ 19
2 1/2"	65	46	139.5	115	457	95	4-φ 19
3"	80	46	152.5	127	482	108	4-φ 19
4"	100	52	190.5	157	521	125	8-φ 19
5"	125	56	216	186	623	138	8-φ 22
6"	150	56	241.5	216	714	198	8-φ 22
8"	200	60	298.5	270	774	236	8-φ 22
10"	250	68	362	324	826	276	12-φ 25
12"	300	78	432	381	912	308	12-φ 25
14"	350	78	476	413	968	340	12-φ 29
16"	400	102	540	470	1038	374	16-φ 29
18"	450	114	598	533	1108	384	16-φ 32
20"	500	127	578	584	1192	448	20-φ 32
24"	600	154	635	692	1345	490	20-φ 35
26"	650	165	749.5	743	1395	515	28-φ 35
28"	700	165	806	794	1590	560	28-φ 35
30"	750	165	914.5	857	1705	570	28-φ 35
32"	800	190	978	908	2022	665	32-φ 41
36"	900	203	1086	1022	2130	697	32-φ 41
40"	1000	216	1200.1	1156	2206	748	36-φ 41
42"	1050	216	1257.3	1206	2381	773	36-φ 41
48"	1200	254	1422.5	1371	2506	865	44-φ 41
300Lb							
2"	50	43	127	92	458	95	8-φ 19
2 1/2"	65	46	149	115	468	101	8-φ 19
3"	80	46	168.5	127	482	108	8-φ 22
4"	100	52	200	157	521	125	8-φ 22
5"	125	56	235	186	623	138	8-φ 22
6"	150	56	270	216	714	198	12-φ 22
8"	200	60	330	270	774	236	12-φ 25
10"	250	68	387.5	324	826	276	16-φ 29
12"	300	78	451	381	912	308	16-φ 32
14"	350	78	514.5	413	968	340	20-φ 32
16"	400	102	571.5	470	1038	374	20-φ 35
18"	450	114	628.5	533	1108	384	24-φ 35
20"	500	127	686	584	1192	448	24-φ 35
24"	600	154	813	692	1345	490	24-φ 41



用途及特点

D373H-10K、20K和D343H-10、20K系列蝶阀的主要结构特征为对夹式和法兰式三偏心密封形式，阀座密封圈采用弹性密封和软硬兼容的多层次密封两种结构，其密封性能可靠，确保开启时蝶板不接触密封座，消除了密封座不均匀负载，延长了使用寿命，确保可靠的密封性能，具有耐高温、耐磨损、耐腐蚀等优点。广泛应用与石油、化工及工业环保水处理、高层建筑、给排水等管道上。

设计标准

1. 设计与制造: API 609-2004
2. 结构长度: JIS B2002-1987
3. 法兰尺寸: JIS B2212、JIS B2213、HUS B2214
4. 试验-检验: JIS B2003-1987

压力试验/Pressure Test

公称口径 DN(mm) Nominal Diameter	830W	830L	
	2"-36"	2"-36"	
公称压力PN Nominal Pressure	10K	20K	
试验压力(MPa) Test pressure	强度试验 Shell test	1.5	3.0
	密封试验 Seal test	1.1	2.2
适用介质 Appropriate medium	水、蒸汽、油品、海水等 Water, steam, oil, seawater.		
适用温度 Appropriate temperature	-29~425℃		

Usage & Features

Main configuration characteristic of D373H-10K, 20K and D373H-10K, 20K series of butterfly valve is composed of wafer and flange three eccentric seal, seat gasket use two configurations of elastic seal and soft hard compatible multiple layers seal, reliable hermetic capability, so as to ensure disc can't touch sealing seat when it operation, solve the problem of sealing seat burden unequally, prolong service life, with advantage of high temperature resistant, wear-resistant, antiseptic etc. It has been widely utilized in petroleum, chemical industry and industrial environmental protection water treatment, high building construction, water supplying and draining pipe etc.

Design Construction

1. Design and manufacture: API 609-2004
2. Face to face: JIS B2002-1987
3. Flange dimension: JIS B2212、JIS B2213、HUS B2214
4. Inspection and test: JIS B2003-1987

主要外形尺寸及重量/Main Size of Outside & Weight

零件名称 Parts name	材料 Material
阀体 Body	WCB、304、316、316SS、CF8M
蝶板 Disc	WCB、304、316、316SS、CF8M
阀杆 Stem	316、2Cr13、1Cr18Ni9Ti
密封圈 Seal ring	316、氟塑料 Fluorine plastic
填料 packing	柔性石墨、氟塑料 Flexible graphite, fluorine plastic

日标D373H-10K、20K系列/JIS D373H-10K、20K Series

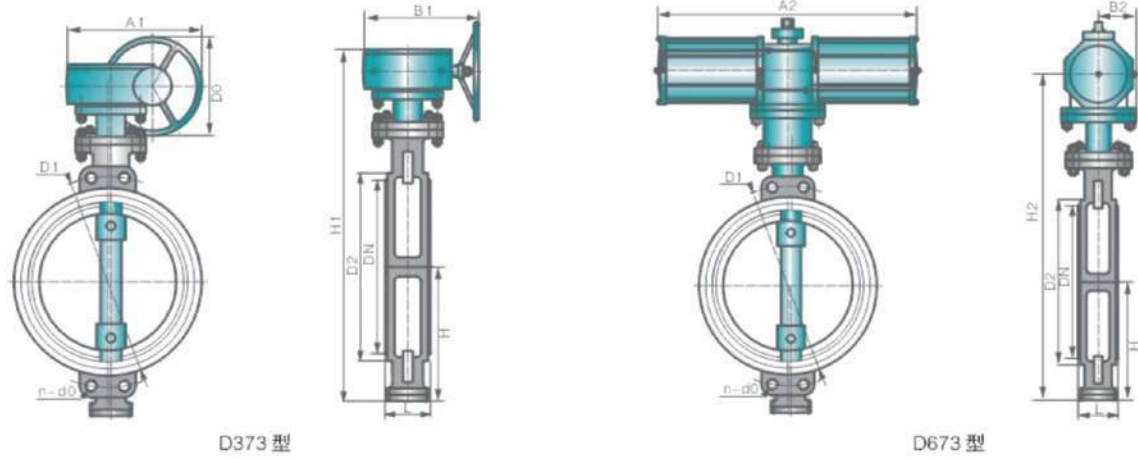
公称通径 DN Nominal diameter		结构长度(标准值) Structurlength (standard)	外形尺寸(参考值) External dimension(consult)										连接尺寸(参考值) Connection dimension(standard)			
			H	D373H			D673H			D973H			10K		20K	
in	mm	L			H1	A1	B1	H2	A2	B2	H3	A3	B3	D1	Z-d	D1
2	50	43	112	350	180	200	625	245	72	530	250	255	120	4-19	120	8-19
2 1/2	65	46	115	370	180	200	625	245	72	530	250	255	140	4-19	140	8-19
3	80	49	120	380	180	200	645	245	72	565	250	255	150	8-19	160	8-23
4	100	56	138	420	180	200	675	355	92	600	250	255	175	8-19	185	8-23
5	125	64	164	460	180	200	715	355	92	640	250	255	210	8-23	225	8-25
6	150	70	175	555	270	280	800	355	92	705	300	315	240	8-23	260	12-25
8	200	70	208	605	270	280	850	250	170	775	300	315	290	12-23	305	12-25
10	250	76	243	680	270	280	925	250	170	945	300	315	355	12-25	380	12-27
12	300	83	283	800	380	420	1035	450	220	1070	300	315	400	16-25	430	16-27
14	350	92	310	835	380	420	1070	450	220	1140	300	315	445	16-25	480	16-33
16	400	102	340	915	450	470	1190	450	220	1210	300	315	510	16-27	540	16-33
18	450	114	380	960	480	490	1250	650	280	1335	575	714	565	20-27	605	20-33
20	500	127	410	1020	480	490	1290	650	280	1415	575	714	620	20-27	660	20-33
24	600	154	470	1225	480	490	1455	850	380	1605	656	810	730	24-33	770	24-39
28	700	165	550	1355	640	660	1585	850	380	1844	656	810	840	24-33	900	24-48
32	800	190	640	1470	640	660	1700	1250	380	2040	656	810	950	28-33	1030	24-56
36	900	203	710	1545	750	860	1965	1250	380	2255	785	863	1050	28-33	1140	28-56
40	1000	216	770	1795	850	900	2015	1250	380	2380	785	863	1160	28-39	-	-
48	1200	254	890	1965	850	900	2250	1250	380	2640	785	863	1380	32-39	-	-

日标D343H-10K、20K系列/JIS D343H-10K、20K Series

公称口径 DN Nominal diameter		结构长度(标准值) Structure length (standard)		外形尺寸(参考值) External dimension(consult)										连接尺寸(参考值) Connection dimension(standard)					
				H	D373H			D673H			D973H			10K			20K		
		in	mm		短Brief	长Long	H1	A1	B1	H2	A2	B2	H3	A3	B3	D	D1	Z-d	D
2	50	108	150	112	350	180	200	605	245	72	530	250	255	155	120	4-19	155	120	8-19
2 1/2	65	112	170	115	370	180	200	625	245	72	530	250	255	175	140	4-19	175	140	8-19
3	80	114	180	120	380	180	200	645	245	72	565	250	255	185	150	8-19	200	160	8-23
4	100	127	190	138	420	180	200	675	355	92	600	250	255	210	175	8-19	225	185	8-23
5	125	140	200	164	460	180	200	715	355	92	640	250	255	250	210	8-23	270	225	8-25
6	150	140	210	175	555	270	280	800	355	92	705	300	315	280	240	8-23	305	260	12-25
8	200	152	230	208	605	270	280	850	250	170	775	300	315	330	290	12-23	350	305	12-25
10	250	165	250	243	680	270	280	925	250	170	945	300	315	400	355	12-25	430	380	12-27
12	300	178	270	283	800	380	420	1035	450	220	1070	300	315	445	400	16-25	480	430	16-27
14	350	190	290	310	835	380	420	1070	450	220	1140	300	315	490	445	16-25	540	480	16-33
16	400	216	310	340	915	450	470	1190	450	220	1210	300	315	560	510	16-27	605	540	16-33
18	450	222	330	380	960	480	490	1250	650	280	1335	575	714	620	565	20-27	675	605	20-33
20	500	229	350	410	1020	480	490	1290	650	280	1415	575	714	675	620	20-27	730	660	20-33
24	600	267	390	470	1225	480	490	1455	850	380	1605	656	810	795	730	24-33	845	770	24-39
28	700	292	430	550	1355	640	660	1585	850	380	1844	656	810	905	840	24-33	995	900	24-48
32	800	318	470	640	1470	640	660	1700	1250	380	2040	656	810	1020	950	28-33	1140	1030	24-56
36	900	330	510	710	1545	850	900	1865	1250	380	2255	785	863	1120	1050	28-33	1250	1140	28-56
40	1000	410	550	770	1795	850	900	2015	1500	580	2380	785	863	1235	1160	28-39	-	-	-
48	1200	470	630	890	1965	850	900	2226	1500	580	2640	785	863	1465	1380	32-39	-	-	-

注：以上对夹式、对夹凸耳式、法兰式三种，传动方式有手动、蜗轮、气动和电动。用户订货时说明。
Attention: Above three sorts such as wafer, wafer protruding ears, flange, driving mode such as manual, worm wheel, pneumatic, and electric, user should specify when ordered.

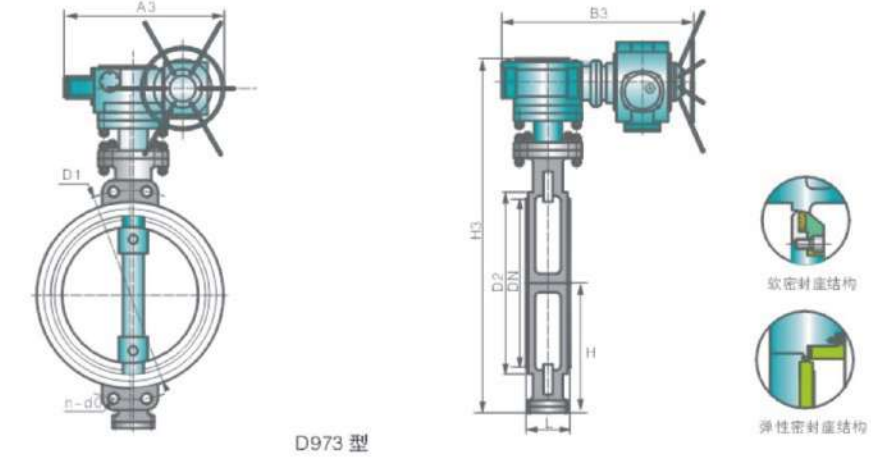
D373HPN 0.6/1.0



主要外形尺寸及重量/Main Size of Outside & Weight

公称通径DN Nominal diameter		结构长度(标准值) Structure length (standard)	外形尺寸(参考值) External dimension(consult)										连接尺寸(标准值) Connection dimension(standard)			
			H	D373H			D673H			D973H			PN0.6MPa		PN1.0MPa	
mm	inch	L		H1	A1	B1	H2	A2	B2	H3	A3	B3	D1	n-d0	D1	Z-d
50	2	43	112	350	180	200	625	245	72	530	250	255	110	4-14	125	4-18
65	2 1/2	46	115	370	180	200	625	245	72	530	250	255	130	4-14	145	4-18
80	3	49	120	380	180	200	645	245	72	565	250	255	150	4-18	160	8-18
100	4	56	138	420	180	200	675	355	92	600	250	255	170	4-18	180	8-18
125	5	64	164	460	180	200	715	355	92	640	250	255	200	8-18	210	8-18
150	6	70	175	555	270	280	800	355	92	705	300	315	225	8-18	240	8-22
200	8	71	215	780	400	425	850	250	170	775	300	315	280	8-18	295	8-22
250	10	76	243	840	400	425	925	250	170	945	300	315	335	12-18	350	12-22
300	12	83	285	995	450	560	1035	450	220	1070	300	315	395	12-22	400	12-22
350	14	92	320	1050	450	560	1070	450	220	1140	300	315	445	12-22	460	16-22
400	16	102	350	1220	535	580	1190	450	220	1210	300	315	495	16-22	515	16-26
450	18	114	350	1280	535	580	1250	650	280	1335	575	714	550	16-22	565	20-26
500	20	127	380	1365	535	580	1290	650	280	1415	575	714	600	20-22	620	20-26
600	24	154	435	1460	570	660	1455	850	380	1605	656	810	705	20-26	725	20-30
700	28	165	480	1520	750	550	1585	850	380	1844	656	810	810	24-26	840	24-30
800	32	190	530	1710	750	550	1700	1250	380	2040	656	810	920	24-30	950	24-33
900	36	203	595	1810	750	550	1965	1250	380	2255	785	863	1020	24-30	1050	28-33
1000	40	216	650	1900	900	750	2015	1250	380	2380	785	863	1120	28-30	1160	28-36
1200	48	254	775	2280	1000	925	2250	1250	380	2640	785	863	1340	32-33	1380	32-39
1400	56	279	870	2450	1000	925	-	-	-	2886	-	-	1560	36-36	1590	36-42
1600	64	318	1000	2730	1000	925	-	-	-	3156	-	-	1760	40-36	1820	40-48
1800	72	356	1110	3020	1100	980	-	-	-	3421	-	-	1970	44-39	2020	44-48
2000	80	406	1250	3270	1100	980	-	-	-	3685	-	-	2180	48-42	2230	48-48

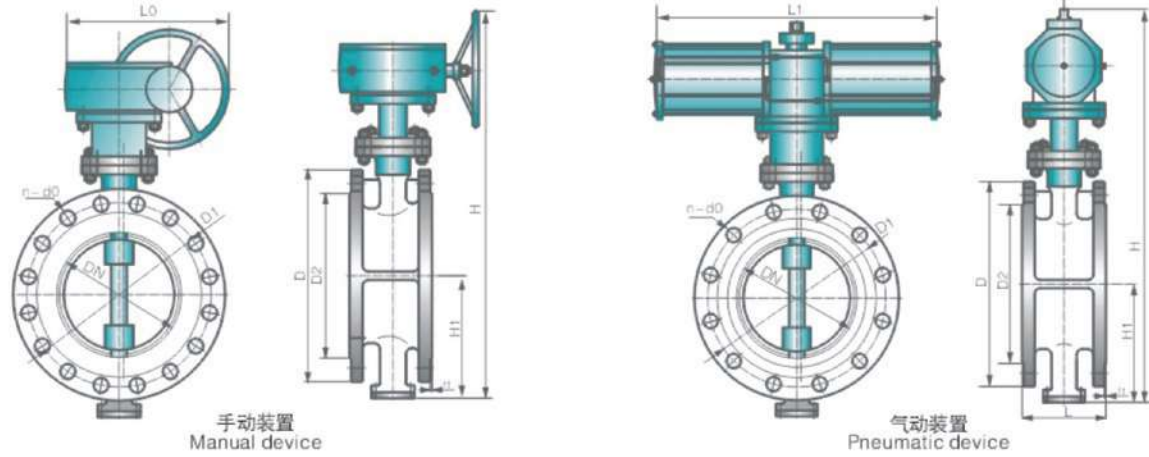
D973H PN 1.6/2.5



主要外形尺寸及重量/Main Size of Outside & Weight

公称通径DN Nominal diameter		结构长度(标准值) Structure length (standard)	外形尺寸(参考值) External dimension(consult)										连接尺寸(标准值) Connection dimension(standard)			
			H	D373H			D673H			D973H			PN1.6MPa		PN2.5MPa	
mm	inch	L		H1	A1	B1	H2	A2	B2	H3	A3	B3	D1	n-d0	D1	Z-d
50	2	43	112	350	180	200	625	245	72	530	250	255	125	4-18	125	4-18
65	2 1/2	46	115	370	180	200	625	245	72	530	250	255	145	4-18	145	8-18
80	3	49	120	380	180	200	645	245	72	565	250	255	160	8-18	160	8-18
100	4	56	138	420	180	200	675	355	92	600	250	255	180	8-18	190	8-22
125	5	64	164	460	180	200	715	355	92	640	250	255	210	8-18	220	8-26
150	6	70	175	555	270	280	800	355	92	705	300	315	240	8-22	250	8-26
200	8	71	215	780	400	425	850	250	170	775	300	315	295	12-22	310	12-26
250	10	76	243	840	400	425	925	250	170	945	300	315	355	12-26	370	12-30
300	12	83	285	995	450	560	1035	450	220	1070	300	315	410	12-26	430	16-30
350	14	92	320	1050	450	560	1070	450	220	1140	300	315	470	16-26	490	16-33
400	16	102	350	1220	535	580	1190	450	220	1210	300	315	525	16-30	550	16-36
450	18	114	350	1280	535	580	1250	650	280	1335	575	714	585	20-30	600	20-36
500	20	127	380	1365	535	580	1290	650	280	1415	575	714	650	20-33	660	20-36
600	24	154	435	1460	570	660	1455	850	380	1605	656	810	770	20-36	770	20-39
700	28	165	480	1520	750	550	1585	850	380	1844	656	810	840	24-36	875	24-42
800	32	190	530	1710	750	550	1700	1250	380	2040	656	810	950	24-39	990	24-48
900	36	203	595	1810	750	550	1865	1250	380	2255	785	863	1050	28-39	1090	28-48
1000	40	216	650	1900	900	750	2015	1250	380	2380	785	863	1170	28-42	1210	28-56
1200	48	254	775	2280	1000	925	2250	1250	380	2640	785	863	1390	32-48	1420	32-56
1400	56	279	870	2450	1000	925	-	-	-	2886	-	-	1590	36-48	1640	36-62
1600	64	318	1000	2730	1000	925	-	-	-	3156	-	-	1820	40-56	1860	40-62
1800	72	356	1110	3020	1100	980	-	-	-	3421	-	-	2020	44-56	2070	44-70
2000	80	406	1250	3270	1100	980	-	-	-	3685	-	-	2230	48-62	2300	48-70

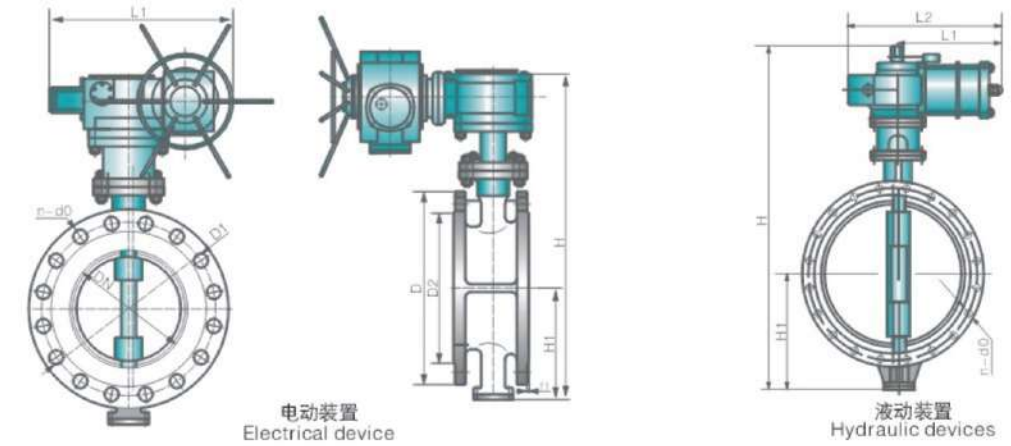
D343HPN 2.5C



主要外形尺寸及重量/Main Size of Outside & Weight

DN	D	D1	突面 D2 Tunisia face	凸台 f1 Boss	b	n-d0	L	H	H1	手动装置 Manual device		电动装置 Electrical device		气动装置 Pneumatic device		液动装置 Hydraulic devices				
										L0	型号 Mode	L1	型号 Mode	L1	型号 Mode	L1	L2	型号 Mode		
80	190	150	125	3	18	4-18	114	390	118	150	SQ250	190	QB30-1	280	TAG 13	190	480	YGA 2000		
100	210	170	145	3	18	4-18	127	405	125	150	SQ500	240	QB60-1	560	TAG 13					
125	240	200	175	3	20	8-18	140	450	140	195	SQ1000	350	QB 120-1	750	TAW17					
150	265	225	200	3	20	8-18	140	500	145	310	SQ 2000	390	QB 250-1							
200	320	280	255	3	22	8-18	152	580	175	440	SQ 4000	540	DZW10		AW20	552	520	YGA 4000		
250	375	335	310	3	24	12-18	165	630	205											
300	440	395	362	4	24	12-22	178	680	230											
350	490	445	412	4	24	12-22	190	750	255											
400	540	495	462	4	24	16-22	216	815	280	550	SQ 8000	720	DZW15 DZW20 DZW30 DZW45	1350	AW28	105	1580	YGA 8000		
450	595	550	518	4	24	16-22	222	875	308											
500	645	600	568	4	26	20-22	229	930	330											
600	755	705	670	5	26	20-26	267	1025	380											
700	860	810	775	5	26	24-26	292	1160	340	630	SQ 16000	790	DZW60 DZW90	1580	AW 16000	400	1063	YGA 16000		
800	975	920	880	5	26	24-30	318	1320	495											
900	1075	1020	980	5	26	24-30	330	1450	550											
1000	1175	1120	1080	5	26	28-30	410	1592	625											
1200	1375	1320	1280	5	26	32-30	470	1895	730	750	SQ 32000	890	DZW90 DZW120 DZW180	-	AW 350	-	-	-		
1400	1575	1520	1480	5	26	36-30	530	2060	850											
1600	1790	1730	1690	5	26	40-30	600	2300	960											
1700	1890	1830	1790	5	26	44-30	640	2420	1010											
1800	1990	1930	1890	5	26	44-30	670	2580	1080	870	SDQ 4000	1020	SMC-2 /H6BC		AW 500					
2000	2190	2130	2090	5	26	48-30	760	2800	1200											
2200	2405	2340	2295	6	28	52-33	760	3150	1330											
2400	2605	2540	2495	6	28	56-33	760	3400	1450											
2600	2805	2740	2695	6	28	60-33	760	3800	1650	870	SDQ 6300	1130	SMC-3 /H6BC	AW 800						
2800	3030	2960	2910	6	30	64-36	760	4200	1850											
3000	3230	3160	3110	6	30	68-36	760	4650	2080											

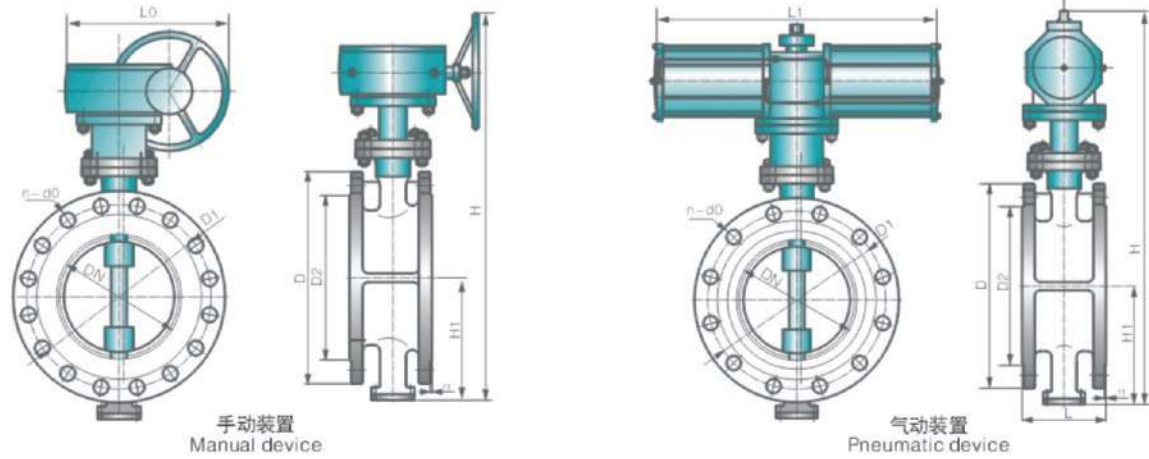
D343HPN 6C



主要外形尺寸及重量/Main Size of Outside & Weight

DN	D	D1	突面 D2 Tunisia face	凸台 f1 Boss	b	n-d0	L	H	H1	手动装置 Manual device		电动装置 Electrical device		气动装置 Pneumatic device		液动装置 Hydraulic devices				
										L0	型号 Mode	L1	型号 Mode	L1	型号 Mode	L1	L2	型号 Mode		
80	190	150	125	3	18	4-18	114	390	118	150	SQ250	190	QB30-1	280	TAG13	190	480	YGA 2000		
100	210	170	145	3	18	4-18	127	405	125	150	SQ500	240	QB60-1	560	TAG13					
125	240	200	175	3	20	8-18	140	450	140	195	SQ1000	350	QB 120-1	750	TAW17					
150	265	225	200	3	20	8-18	140	500	145	310	SQ 2000	390	QB 250-1							
200	320	280	255	3	22	8-18	152	580	175											
250	375	335	310	3	24	12-18	165	630	205											
300	440	395	362	4	24	12-22	178	680	230	440	SQ 4000	540	DZW10	1180	AW20	220	520	YGA 4000		
350	490	445	412	4	24	12-22	190	750	255				DZW15							
400	540	495	462	4	24	16-22	216	815	280											
450	595	550	518	4	24	16-22	222	875	308											
500	645	600	568	4	26	20-22	229	930	330	550	SQ 8000	720	DZW20	1350	AW28	360	915	YGA 8000		
600	755	705	670	5	26	20-26	267	1025	380				DZW30							
700	860	810	775	5	26	24-26	292	1160	340				DZW45							
800	975	920	880	5	26	24-30	318	1320	495				DZW60							
900	1075	1020	980	5	26	24-30	330	1450	550	630	SQ 16000	790	DZW90	1580	AW 16000	400	1063	YGA 16000		
1000	1175	1120	1080	5	26	28-30	410	1592	625											
1100	1305	1240	1195	5	28	28-33	440	1700	690											AW 350
1200	1405	1340	1295	5	28	32-33	470	1895	730											
1400	1630	1560	1510	5	32	36-36	530	2060	850	750	SQ 32000	890	DZW120	-	AW 500	-	-	-		
1600	1830	1760	1710	5	34	40-36	600	2300	960				DZW180							
1700	1930	1860	1820	5	34	44-39	640	2400	1060				DZW350							
1800	2045	1970	1920	5	36	44-39	670	2580	1080											
2000	2265	2180	2125	5	38	48-42	760	2800	1200	870	SDQ 4000	1020	SMC-2 /H6BC	-	-	-	-			
2200	2475	2390	2335	6	42	52-42	760	3300	1350									-	SDQ 6300	
2400	2685	2600	2545	6	44	56-42	760	3450	1480	1100	SDQ 8000							1120	SMC-3 /H6BC	AW 800
2600	2905	2810	2740	6	46	60-48	760	3900	1690											

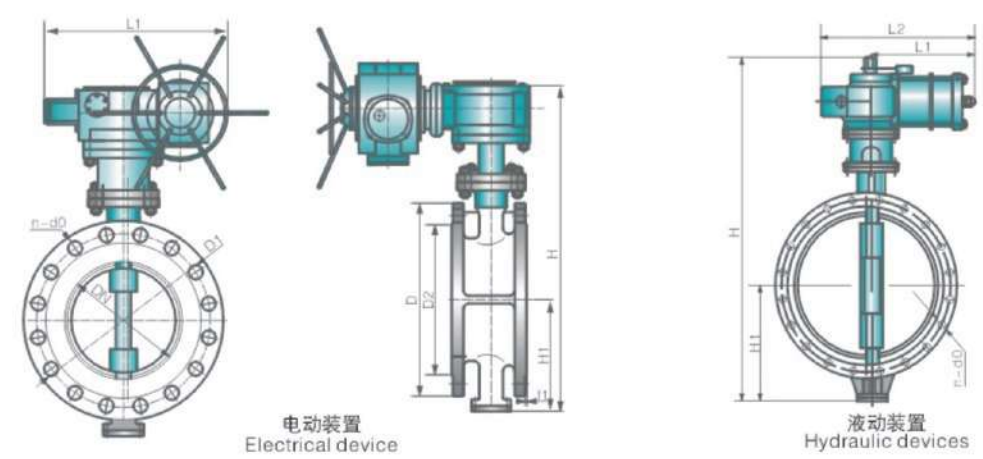
D343HPN 10C



主要外形尺寸及重量/Main Size of Outside & Weight

DN	D	D1	突面 D2 Tunisia face	凸台 f1 Boss	b	n-d0	L	H	H1	手动装置 Manual device		电动装置 Electrical device		气动装置 Pneumatic device		液动装置 Hydraulic devices															
										L0	型号 Mode	L1	型号 Mode	L1	型号 Mode	L1	L2	型号 Mode													
80	200	160	135	3	20	8-18	114	390	118	150	SQ2	190	QB30-1	280	AG13	190	480	YGA 2000													
100	220	180	155	3	22	8-18	127	405	125	150	SQ3	240	QB60-1	560	AG13																
125	250	210	185	3	22	8-18	140	450	140	195	SQ4	350	QB120-1	750	AW17																
150	285	240	210	3	24	8-22	140	500	145	310	SQ5	390	QB250-1																		
200	340	295	265	3	24	8-22	152	580	175	440	SQ6	540	DZW10	1180	AW20				220	520	YGA 4000										
250	395	350	320	3	26	12-22	165	630	205				DZW15																		
300	445	400	368	4	26	12-22	178	680	230				DZW20																		
350	505	460	428	4	26	16-22	190	750	255				510			SQ8	720	DZW30				1350	AW28	360	915	YGA 8000					
400	565	515	482	4	26	16-26	216	815	280									DZW45													
450	615	565	532	4	28	20-26	222	875	308	DZW60																					
500	670	620	585	4	28	20-26	229	930	330	630	SQ9	790		DZW90	1580			AW 350	400	1063	YGA 16000										
600	780	725	685	5	30	20-30	267	1025	380					DZW120																	
700	895	840	800	5	30	24-30	292	1160	340				680	SQ10		890	DZW180					-	AW 500	-	-	-					
800	1015	950	905	5	32	24-33	318	1320	495								DZW250														
900	1115	1050	1005	5	34	28-33	330	1450	550								850										SQ11	1090	DZW350	-	AW 800
1000	1230	1160	1110	5	34	28-36	410	1592	625	1030	SQ12	1670			DZW500																
1200	1455	1380	1330	5	38	32-39	470	1895	730						1150			SQ13	1670	DZW800											
1300	1575	1490	1430	5	46	32-41	475	1980	790				-	-		-				-	-	-	-	-							
1400	1675	1590	1530	5	48	36-48	530	2060	850																						
1500	1785	1700	1640	5	50	36-48	530	2150	910																						
1600	1915	1820	1750	5	52	40-48	600	2510	1020																						
1800	2115	2020	1950	5	56	44-54	670	2640	1114																						
2000	2325	2230	2150	5	60	44-48	760	2870	1240	-	-	-	-	-	-	-	-	-													
2200	2550	2440	2370	6	80	52-56	760	3010	1355																						
2400	2760	2650	2570	6	90	56-56	760	3220	1460																						

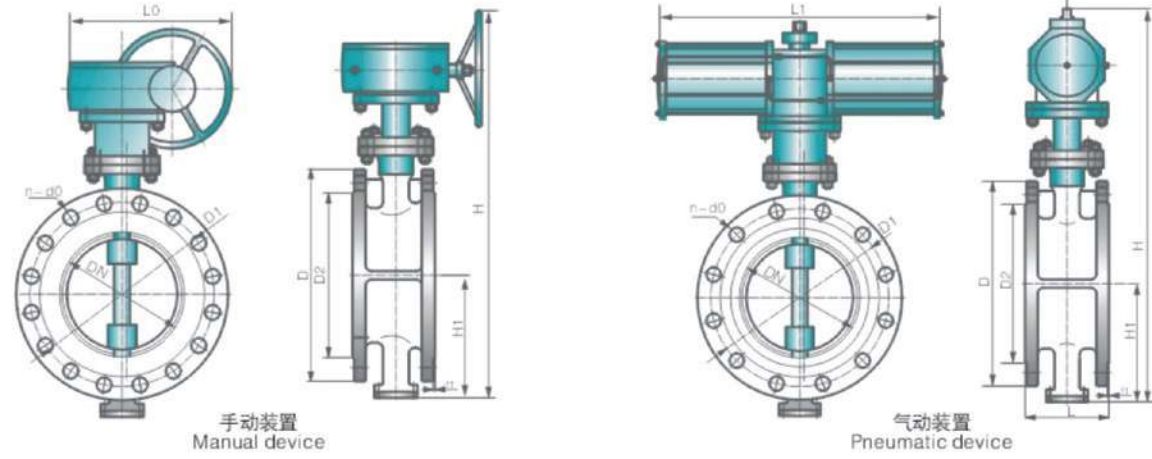
D343HPN 16C



主要外形尺寸及重量/Main Size of Outside & Weight

DN	D	D1	突面 D2 Tunisia face	凸台 f1 Boss	b	n-d0	L	H	H1	手动装置 Manual device		电动装置 Electrical device		气动装置 Pneumatic device		液动装置 Hydraulic devices							
										L0	型号 Mode	L1	型号 Mode	L1	型号 Mode	L1	L2	型号 Mode					
80	200	160	135	3	20	8-18	114	390	118	150	SQ2	190	QB30-1	-	-	-	-	-					
100	220	180	155	3	22	8-18	127	475	148	195	SQ3	240	QB60-1	750	AW13	190	480	YGA 2000					
125	250	210	185	3	22	8-18	140	520	155														
150	285	240	210	3	24	8-22	140	570	170	340	SQ4	350	QB 120-1						AW17				
200	340	295	265	3	24	12-22	152	650	175		SQ5	390	QB 250-1										
250	405	355	320	3	26	12-26	165	700	235	385	SQ6	540		1180	AW20	210	520	YGA 4000					
300	460	410	375	4	28	12-26	178	750	260														
350	520	470	436	4	10	16-26	190	820	285	415	SQ7		DZW20										
400	580	525	485	4	32	16-30	216	875	310														
450	640	585	545	4	34	20-30	222	945	338	510	SQ8	720	DZW30	1350	AW28	360	915	YGA 8000					
500	715	650	608	4	16	20-33	229	1030	360														
600	840	770	718	5	38	20-36	267	1135	430	600	SQ9	790	DZW60						1800	AW350	-	-	-
700	910	840	788	5	38	24-36	292	1300	495														
800	1025	950	898	5	38	24-39	318	1420	545	680	SQ10		DZW90	DZW 120									
900	1125	1050	998	5	40	28-39	330	1610	610														
1000	1255	1170	1110	5	42	28-42	410	1700	675	750	SQ11	890	DZW 180	-	AW 500	-	-	-					
1200	1485	1390	1325	5	48	32-45	470	1850	792														
1300	1585	1490	1425	5	48	32-45	475	1970	850	890	SQ12		DZW 350										
1400	1685	1590	1525	5	48	36-48	530	2070	901														
1500	1820	1710	1640	5	48	36-52	530	2230	970	1080	SQ13	1190	DZW 500										
1600	1930	1820	1750	5	55	40-52	600	2340	1030														
1800	2130	2020	1950	5	55	44-52	670	2560	1130				DZW 800										
2000	2345	2230	2150	5	60	48-56	760	2790	1240														

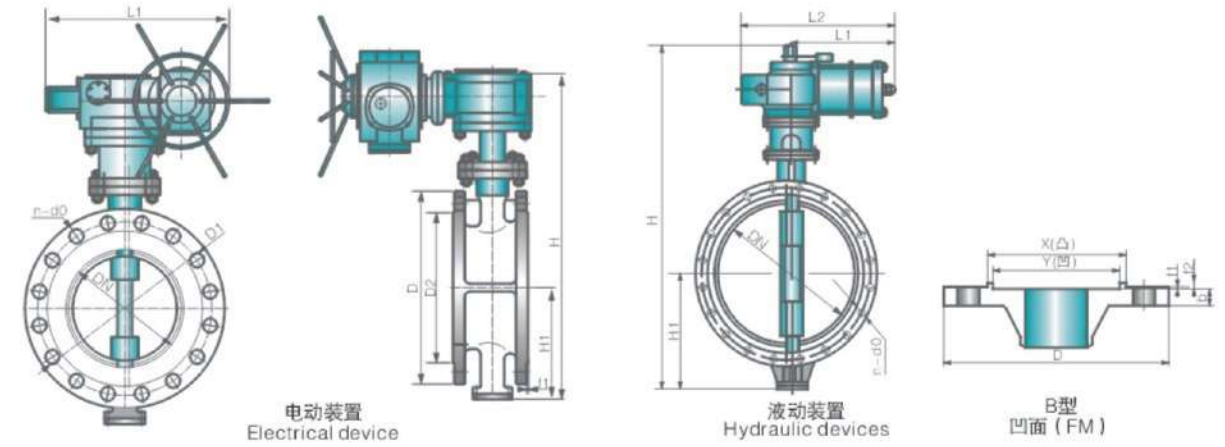
D343HPN 25C



主要外形尺寸及重量/Main Size of Outside & Weight

DN	D	D1	突面 D2 Tunisia face	凸台 f1 Boss	b	n-d0	L	H	H1	手动装置 Manual device		电动装置 Electrical device		气动装置 Pneumatic device		液动装置 Hydraulic devices							
										L0	型号 Mode	L1	型号 Mode	L1	型号 Mode	L1	L2	型号 Mode					
80	200	160	135	3	20	8-18	114	370	123	192	SQ2	190	QB30-1										
100	235	190	160	3	24	8-22	127	495	158	195	SQ3	240	QB60-1	750 1180 1350	TAW17	190	480	YGA 2000					
125	270	220	188	3	26	8-26	140	540	165														
150	300	250	218	3	28	8-26	140	590	180				DZW10										
200	360	310	278	3	30	12-26	152	670	185			240	SQ4										
250	425	370	332	3	32	12-30	165	720	245	320	SQ5	540	DZW15	-	AW20	220	520	YGA 4000					
300	485	430	390	4	34	16-30	178	770	270										DZW20				
350	555	490	448	4	38	16-33	192	840	295										SQ6				
400	620	550	505	4	40	16-36	216	895	320										DZW30				
450	670	600	555	4	42	20-36	222	965	348	510	SQ7	720	DZW45	-	AW28	360	915	YGA 8000					
500	730	660	610	4	44	20-36	229	1050	370										DZW90				
600	845	770	718	5	46	20-39	267	1155	440														
700	960	875	815	5	46	24-42	272	1320	500										DZW120	1800	QQA 16000	400	1063
800	1085	990	930	5	50	24-48	318	1440	555	600	SQ9		DZW 180	-	-	-	-	-					
900	1185	1090	1025	5	58	28-48	330	1550	650	640	SQ10	790	DZW 250										
1000	1320	1210	1140	5	62	28-55	410	1700	720	750	SQ11	890	DZW 350	-	-	-	-	-					
1200	1530	1420	1350	5	70	32-55	470	1930	830										DZW 500				
1300	1645	1530	1450	5	74	32-62	475	2035	885	890			DZW 800										
1400	1755	1640	1560	5	76	36-60	530	2180	950	890		SQ12	1090										
1500	1865	1750	1670	5	80	36-62	530	2303	1002														
1600	1975	1860	1780	5	84	40-60	660	2420	1060														

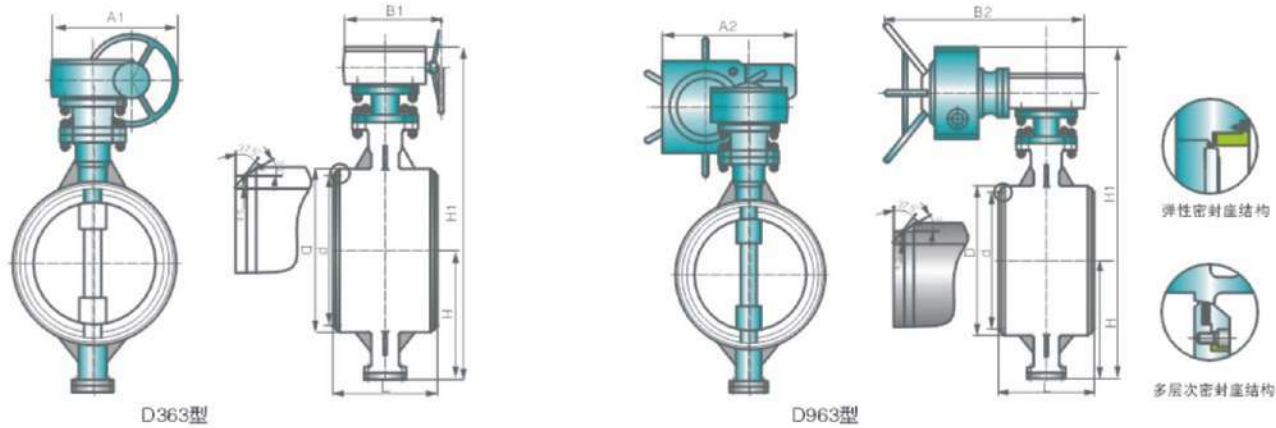
D343HPN 40C



主要外形尺寸及重量/Main Size of Outside & Weight

DN	尺寸/mm(4.0MPa)											
	L	D	D1	f1	f2	X(凸)	Y(凹)	b	Do	H	H1	n-d0
50	150	160	125	3	4	100	88	20	157	405	80	4-18
65	170	180	145	3	4	120	110	22	157	420	90	8-18
80	180	195	160	3	4	135	121	22	157	445	97	8-18
100	190	230	190	3	4.5	160	150	24	157	485	115	8-23
125	200	270	220	3	4.5	188	176	28	205	560	135	8-25
150	210	300	250	3	4.5	218	204	30	205	632	198	8-25
200	230	375	320	3	4.5	282	260	38	235	774	246	12-30
250	250	445	385	3	4.5	345	313	42	235	812	290	12-34
300	270	510	450	4	4.5	408	364	46	296	954	312	16-34
350	290	570	510	4	5	465	422	52	296	1014	352	16-34
400	310	655	585	4	5	535	474	58	400	1098	392	16-41
450	330	680	610	4	5	560	524	60	400	1236	412	20-41
500	350	755	670	4	5	612	576	62	440	1322	461	20-48
600	390	890	795	5	6	730	678	62	440	1519	516	20-54
700	430	995	900	5	6	835	768	68	440	1607	562	24-54
800	470	1135	1030	5	6	960	876	72	500	1757	642	24-58
900	510	1250	1140	5	6	1070	988	76	500	1803	710	28-56
1000	550	1380	1250	5	6	1180	1094	80	500	1930	770	28-56
1200	630	1575	1460	6	8	1350	1315	96	620	2100	841	32-60
1400	710	1795	1680	6	8	1560	1523	115	620	2270	1000	36-68

D363HPN 1.0~4.0



用途及特点/Purpose And Characteristic

本蝶阀适用于高温、高压、防火、保温等管道上作启闭或调节介质之用。其主要特点如下：
1. 结构紧凑、体积小、重量轻、操作灵活、使用方便；
2. 采用三维偏心弹性或多层次硬密封结构，其密封性能可靠；
3. 此阀无法兰，对管道和保温包扎及防腐等带来很大方便和美观；
4. 具有耐高温、高压、耐腐蚀、耐磨损等特点。

This kind of butterfly valve is suitable for pipe of high temperature, high pressure, fire-proof, jacket etc as start and stop or adjust medium, the main characteristic asbelow:

1. Compact configuration, tiny bulk, light and operate skillfully and Conveniently.
2. It adopt three-dimensional eccentric elasticity or multiple-layers hard sealing configuration, the hermetical capability can reach to zero leakage.
3. This kind of valve with no flange, which makes pipe elegantly and Binding upconveniently.
4. It has characteristic of high temperature resistant, high pressure resistant, antiseptis, wearable etc.

采用标准/Adoption Standard

焊接尺寸 Jointing dimension:
GB12224; ANSI B16.25; DIN2559
结构长度 Structure length:
GB/T12221-1989; API609
压力试验 Pressure test:
GB/T13927-1992; API598

传动型式/Drive Type

蜗轮传动、气动传动、电动传动。
Worm wheel drive, pneumatic drive, electric drive.

主要技术参数/Main Technology Parameter

公称通径 Nominal diameter	DN(mm)	50 ~ 1400				
公称压力 Nominal pressure	PN(MPa)	0.6	1.0	1.6	2.5	4.0
试验压力 Ps(MPa) Test pressure	强度试验 Shell test	0.9	1.5	2.4	3.75	6.0
	密封试验 Seal test	0.66	1.1	1.76	2.75	4.4
	气密封试验 Air Seal test	0.6	0.6	0.6	0.6	0.6
适用介质 Appropriate medium	水、蒸气、油品、酸类腐蚀性等。Water, steam, oil, acid corrosive and so on.					
适用温度 Appropriate temperatuer	碳钢 Carbon steel: -29℃ ~ 350℃ 不锈钢 Stainless steel: -40℃ ~ 600℃					

主要零件的材质/Material For Main Parts

零件名称 Parts name	材料 Material
阀体 Body	铸钢、不锈钢、铬钼钢及特殊材料 Cast steel, stainless steel, Cr. Mo. Steel and ad hoc material
蝶板 Disc	铸钢、合金钢（镀硬铬）、不锈钢及特殊材料 Cast steel, Alloy steel, stainless steel, Steel and ad hoc material
密封圈 Seal ring	不锈钢、抗磨材料 Stainless steel, resist grind material
阀杆 Stem	2Cr13、1Cr13不锈钢、铬钼钢 Stainless steel, Cr. Mo. Steel
填料 Packing	柔性石墨 Flexible graphite

主要外形尺寸及重量/Main Size of Outside & Weight

公称压力 Nominal pressure		PN0.6MPa								公称压力 Nominal pressure		PN1.0MPa							
通径 Diameter		外形尺寸(参考值) External dimension (consult)								通径 Diameter		外形尺寸(参考值) External dimension (consult)							
mm	inch	L	D	d	H	H1	A	B		mm	inch	L	D	d	H	H1	A	B	
600	24	340	636	602	499	1280	570	660		340	24	340	636	602	499	1280	570	660	
700	28	460	726	692	566	1480	750	550		460	28	460	726	692	566	1480	750	550	
800	32	480	826	792	632	1608	750	550		480	32	480	826	792	632	1608	750	550	
900	36	500	926	892	693	1857	750	550		500	36	500	926	892	693	1857	750	550	
1000	40	510	1028	992	757	2038	900	750		510	40	510	1028	992	757	2038	900	750	
1200	48	530	1228	1192	851	2237	1000	925		530	48	530	1228	1192	851	2237	1000	925	
1400	56	550	1428	1392	876	2411	1000	925		550	56	550	1428	1392	876	2411	1000	925	
1600	64	570	1628	1592	1095	2756	1000	925		570	64	570	1628	1592	1095	2756	1000	925	
1800	72	590	1828	1792	1214	3093	1100	980		590	72	590	1828	1792	1214	3093	1100	980	
2000	80	610	2028	1992	1332	3355	1100	980		610	80	610	2028	1992	1332	3355	1100	980	

公称压力 Nominal pressure		PN1.6MPa								公称压力 Nominal pressure		PN1.6MPa							
通径 Diameter		外形尺寸(参考值) External dimension (consult)								通径 Diameter		外形尺寸(参考值) External dimension (consult)							
mm	inch	L	D	d	H	H1	A	B		mm	inch	L	D	d	H	H1	A	B	
80	3	140	90	78	90	356	180	200		80	3	140	90	78	90	356	180	200	
100	4	160	110	96	100	375	180	200		100	4	160	110	96	100	375	180	200	
125	5	180	135	121	113	401	180	200		125	5	180	135	121	113	401	180	200	
150	6	180	161	146	130	450	270	280		150	6	180	161	146	130	450	270	280	
200	8	220	222	202	205	545	400	425		200	8	220	222	202	205	545	400	425	
250	10	220	278	254	235	630	400	425		250	10	220	278	254	235	630	400	425	
300	12	240	330	303	275	715	450	560		300	12	240	330	303	275	715	450	560	
350	14	260	382	351	309	817	450	560		350	14	260	382	351	309	817	450	560	
400	16	280	432	398	346	923	535	580		400	16	280	432	398	346	923	535	580	
450	18	300	484	450	392	1059	535	580		450	18	300	484	450	392	1059	535	580	
500	20	320	535	501	427	1126	535	580		500	20	320	535	501	427	1126	535	580	

公称压力 Nominal pressure		PN2.5MPa								公称压力 Nominal pressure		PN4.0MPa							
通径 Diameter		外形尺寸(参考值) External dimension (consult)								通径 Diameter		外形尺寸(参考值) External dimension (consult)							
mm	inch	L	D	d	H	H1	A	B		mm	inch	L	D	d	H	H1	A	B	
80	3	140	90	78	90	356	180	200		80	3	140	90	78	90	356	180	200	
100	4	160	110	96	106	387	180	200		100	4	160	110	96	108	392	180	200	
125	5	180	135	121	122	413	180	200		125	5	180	135	120	120	414	180	200	
150	6	180	161	146	136	459	270	280		150	6	180	161	145	135	494	270	280	
200	8	220	222	202	215	585	400	425		200	8	220	222	200	202	578	400	425	
250	10	220	278	254	247	649	400	425		250	10	220	278	252	235	673	400	425	
300	12	240	330	303	288	771	450	560		300	12	240	330	301	280	793	450	560	
350	14	260	382	351	333	929	450	560		350	14	260	382	351	315	921	450	560	
400	16	280	432	398	359	993	535	580		400	16	280	432	398	355	1021	535	580	
450	18	300	484	450	405	1053	535	580		450	18	300	484	448	370	1143	535	580	
500	20	320	535	501	444	1245	535	580		500	20	320	535	495	420	1192	535	580	
600	24	340	636	602	521	1750	570	660		600	24	340	636	595	490	1327	570	660	
700	28	460	726	692	586	1519	750	550		700	28	460	726	692	586	1519	750	550	
800	32	480	826	792	659	1659	750	550		800	32	480	826	792	659	1659	750	550	
900	36	500	926	892	720	1829	750	550		900	36	500	926	892	720	1829	750	550	
1000	40	510	1028	992	780	1949	900	750		1000	40	510	1028	992	780	1949	900	750	
1200	48	530	1228	1192	889	2243	1000	925		1200	48	530	1228	1192	889	2243	1000	925	
1400	56	550	1428	1392	1000	2462	1000	925		1400	56	550	1428	1392	1000	2462	1000	925	

产品概述

本厂研制的软密封中线对夹式蝶阀，双偏心法兰式蝶阀结构紧凑，90℃回转开关轻松，密封可靠，使用寿命长，被广泛用于水厂、电厂、钢厂、造纸、化工、饮食等系统供排水中，作为调节和截止使用。

产品型号编制方法/Model of product

D 3 4 3 X — 16 C

阀体材料：HT200铸铁、C碳钢、Q球铁
Body material: HT200 cast iron, C carbon steel, Q-iron

公称压力：PN0.6~1.6MPa
Nominal pressure: PN0.6 ~ 1.6MPa

密封材料：X丁腈橡胶、XE三元乙丙橡胶XSi硅橡胶、XF氟橡胶、XT特种橡胶、F聚四氟乙烯
Sealing materials: X NBR, XE EPDM XSi silicone rubber, XF fluorine rubber, XT special rubber, F PTFE

结构形式代号：0中线、1垂直板式、2双偏心
Structure of the code: 0 the center line, a vertical plate, two pairs of eccentric

连接形式代号：4法兰、7对夹
Link form code: 4 flange, seven pairs of folders

驱动代号：无手柄驱动、2丝杆连杆传动、3蜗轮传动、6气动、9电动
Driver code: Handle-driven, two screw-link transmission, 3 worm transmission, 6 pneumatic, 9 electric

阀类代号：D蝶阀
Valves code: D Butterfly valve

产品及特点

1. 本阀采用双偏心结构，具有越关越紧的密封功能，密封性能可靠。
2. 密封面材料选用不锈钢和丁腈耐油橡胶配对，使用寿命长。
3. 橡胶密封圈即可位于阀体上，也可以位于蝶板上，可适用不同特点的介质，供用户选择。
4. 蝶板采用框架结构，强度高，过流面积大，流阻小。
5. 整体烤漆、能有效地防止锈蚀且只要更换密封阀座密封材料，就可使用于不同介质。
6. 本阀具有双向密封功能，安装时不受介质流向的控制，也不受空间位置的影响，可在任何方向安装。
7. 本阀结构独特，操作灵活，省力，方便。

主要技术参数/Main Technology Parameter

公称口径 Nominal diameter	50~2000		50~1600
公称压力 Nominal pressure	0.6	1.0	1.6
密封试验 Seal Test (MPa)	0.66	1.1	1.76
强度试验 Strength Test (MPa)	0.9	1.5	2.4
适用温度 Appropriate temperatuer	丁腈橡胶：-40℃~90℃ 氟橡胶：-20℃~200℃ NBR: -40℃ ~ 90℃ Fluororubber: -20℃ ~ 200℃		
适用介质 Appropriate medium	水、空气、天然气、油品及腐蚀性流体 Water, air, gas, oil and weak corrosive fluid		
泄漏率	符合GB/T3927-92标准 GB/T3927-92 meet standards		
驱动方式	蜗轮传动、气动、电动、液动 Worm transmission, pneumatic, electrical, hydraulic		

Product Overview

The factory developed by the center line of soft sealed-off valve on the folder, double-butterfly valve flange eccentric compact, 90℃ rotary switch easily, sealing reliable, long life, is widely used in water works, power plants, steel mills and by creating Paper, chemicals, food, and other systems for drainage, as the deadline for the use and regulation.

Products And Features

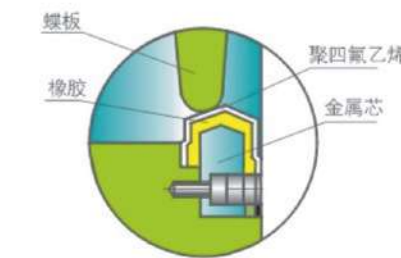
1. The double-valve eccentric structure, with the Commissioner of the tight seal function, sealed and reliable performance.
2. Deputy sealed material selection and nail stainless steel oil nitrile rubber match, long service life.
3. Rubber seals to the valve body, can also board in the butterfly, the applicable characteristics of different media for users to choose.
4. A butterfly-frame structure, high strength, the flow of large, small flow resistance.
5. Paint a whole, can effectively prevent corrosion and replace the seal as long as the closure valve seat materials can be used in different media.
6. With two-way closed the valve function, from media at the time of installation of the flow of control, even without the impact of space location can be installed in any direction.
7. This valve unique structure, operational flexibility, saving and convenient.

主要零件的材质/Material for Main Parts

零件名称 Parts name	材料 Material
阀体 Body	WCB、QT450-10、HT200、HT250
蝶板 Disc	WCB、QT450-10、HT200、HT250
阀轴 Shaft	2Cr13
密封圈 Ring	丁腈耐油橡胶 Acrylonitrile-butadiene rubber oil
填料 Packing	柔性石墨 Flexible Graphite

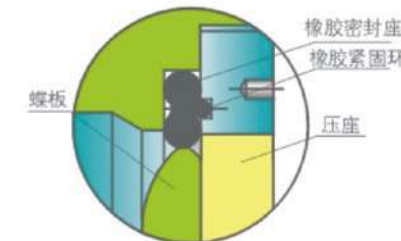
采用标准/Adoption Standard

制造标准 Design standard	GB/T 12238-89
法兰标准 Flange standards	GB9113-2000、GB17241.6-1998
结构长度标准 Structure length standards	GB12221-89
检验标准 Test standards	GB/T 13927-92



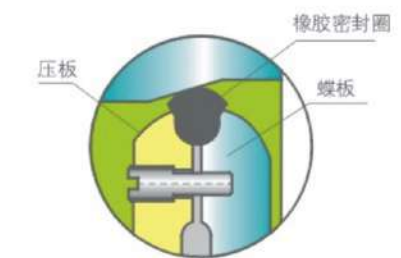
J形橡胶密封圈是将密封圈做在阀座上的一种密封形式。密封圈由金属材料外包覆取四氟乙烯及特种硫化橡胶层组成。金属芯使蝶板有足够的刚性，聚四氟乙烯的软硬过渡，以及橡胶层的弹性补偿确保阀门的可靠密封。

J-ring rubber seal will be done on the valve seat in a sealed form. Ring from the base metal, coated metal from ethylene and tetrafluoroethylene special vulcanized rubber layer. Tip of metal-core board so that there is sufficient rigidity, the soft and hard transition PTFE, rubber suction to the flexibility of compensation to ensure that a reliable valve seal.



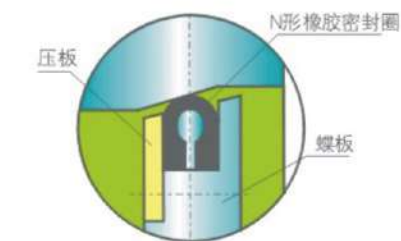
哑铃形橡胶密封圈是将密封圈做在阀座上的一种密封形式。哑铃形密封圈用O形橡胶圈限制，阻止密封圈滑出沟槽。该结构密封性能特别好，使用寿命长，但只限于低压，常温的管路系统。密封圈更换容易，方便维修。

Dumbbell-shaped rubber ring is to do in the ring on the valve seat form a seal. Dumbbell-shaped seal with O-ring rubber-restricted, to prevent ring slid off the trench. The structure of sealing performance particularly good, long life, but only for low-voltage, the normal temperature of the pipeline system. Seal replacement easy, easy maintenance.



扇形弹性橡胶密封圈是将密封圈做在蝶板上的一种密封形式。密封面的配合可用螺栓调节，当阀座经过一段时间的使用后，密封面有一定的磨损，此时拧紧螺栓挤压扇形弹性橡胶密封圈，补偿磨损余量，延长阀门寿命。

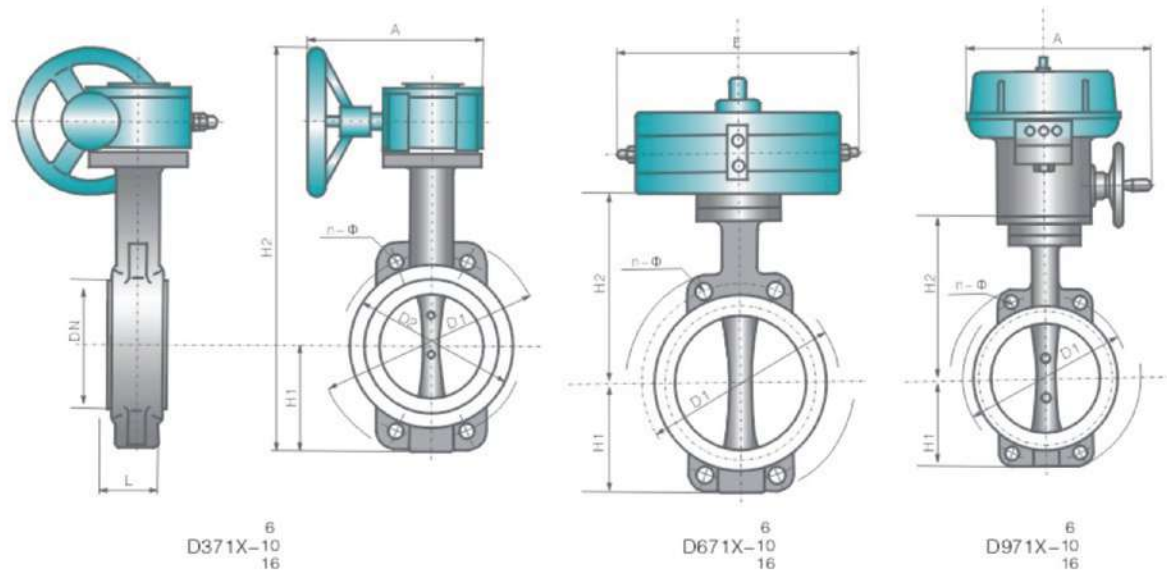
Fan-shaped flexible rubber ring is to do in the ring butterfly board form a seal. Seal can be used with bolts of the regulation, when the valve seat after a period of use, the sealing surface is a certain amount of wear and tear, then tighten bolts squeeze fan flexible rubber ring, compensation wear cushion to extend valve life.



N形高弹性密封圈是将密封圈做在蝶板上的一种形式。n形高弹性密封用压板压住，并用螺栓固定，内部镶嵌金属钢丝索加强环，既有柔性又能防止密封圈径向膨胀。适合于中、高压管路系统。

N-Seal is a flexible ring will be done in the form of a butterfly board. n-shaped seal with a flexible clips and fixed with bolts, steel metal embedded within the Central Sisuo strengthen both flexible ring can prevent the radial expansion and contraction. Suitable for, high-pressure pipeline system.

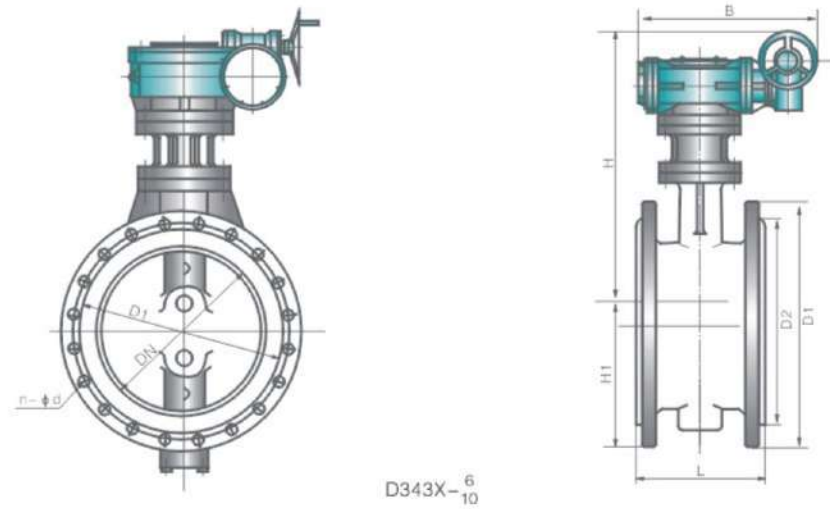
PN0.6~1.6



主要外形尺寸及重量/Main Size of Outside & Weight

公称通径 Nominal diameter DN(mm)	主要尺寸 Main size					法兰尺寸和螺栓规格 Flange bolt size and specifications					
						0.6MPa		1.0MPa		1.6MPa	
	L	H1	H1	E	F	D1	n-φ	D1	n-φ	D1	n-φ
50	43	80	160	137	109	110	4-φ14	120	4-φ19	125	4-φ19
65	46	88	175	204	109	130	4-φ14	136	4-φ19	145	4-φ19
80	46	96	180	204	109	150	4-φ19	160	4-φ19	160	4-φ19
100	52	115	200	230	135	170	4-φ19	185	4-φ19	180	4-φ19
125	56	128	213	271	135	200	4-φ19	215	4-φ19	210	4-φ19
150	56	140	225	305	153	225	4-φ19	238	4-φ23	240	4-φ23
200	60	175	260	380	218	280	4-φ19	295	4-φ23	295	4-φ23
250	68	202	290	462	218	335	4-φ19	357	4-φ23	355	4-φ28
300	78	242	330	555	218	395	4-φ23	407	4-φ23	410	4-φ28
350	78	266	360	-	-	445	4-φ23	467	4-φ23	470	4-φ28
400	102	298	390	-	-	495	4-φ23	515	4-φ28	525	4-φ31
450	114	315	410	-	-	550	4-φ23	565	4-φ28	585	4-φ31
500	127	348	430	-	-	600	4-φ23	620	4-M24	650	4-M30
600	154	400	490	-	-	705	4-φ26	725	4-M27	770	4-M33
700	165	220	550	-	-	810	4-φ26	840	4-M27	840	4-M33
800	190	591	610	-	-	920	4-φ31	950	4-M30	950	4-M36
900	203	660	680	-	-	1020	4-M27	1050	4-M30	1050	4-M36
1000	216	670	730	-	-	1120	4-M27	1160	4-M33	1170	4-M39
1200	254	780	835	-	-	1340	4-M30	1380	4-M36	1390	4-M45
1400	279	890	935	-	-	1560	4-M33	1590	4-M39	1590	4-M45
1600	318	1000	1035	-	-	1760	4-M33	1820	4-M45	1820	4-M52

PN0.6~1.0



主要外形尺寸及重量/Main Size of Outside & Weight

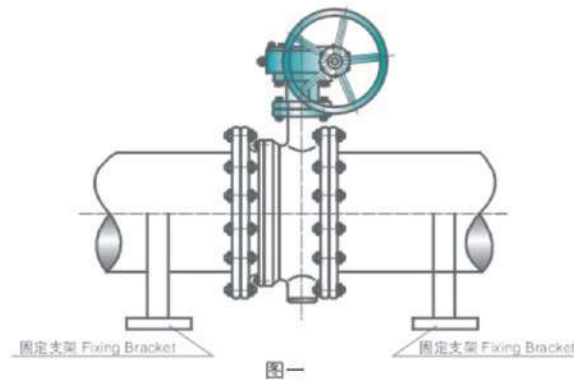
公称通径 Nominal diameter DN(mm)	L		H1	H2	0.6MPa				1.0MPa			
	短系列 Short Series	长系列 Long series			D	D1	D2	n-d	D	D1	D2	n-d
100	127	127	120	240	210	170	144	4-19	220	180	144	8-19
125	140	140	130	270	240	200	174	8-19	250	210	174	8-19
150	140	140	150	300	265	225	199	8-19	285	240	199	8-23
200	152	152	180	330	320	280	254	8-19	340	295	254	8-23
250	165	250	220	400	375	335	309	12-19	395	350	309	12-23
300	178	270	220	410	440	395	363	12-23	445	400	363	12-23
350	190	290	270	460	490	445	413	12-23	505	460	413	16-23
400	216	310	290	510	540	495	463	16-23	565	515	463	16-28
450	222	330	320	560	595	550	518	16-23	615	565	518	20-28
500	229	350	360	590	645	600	568	20-23	670	620	568	20-28
600	267	390	390	660	755	705	667	20-26	780	725	667	20-31
700	292	430	460	780	860	810	772	24-26	895	840	772	24-31
800	318	470	530	850	975	920	878	24-31	1015	950	878	24-34
900	330	510	570	920	1075	1020	978	24-31	1115	1050	978	28-34
1000	410	550	630	990	1175	1120	1078	28-31	1230	1160	1078	28-37
1200	470	630	750	1115	1405	1340	1295	32-34	1455	1380	1295	32-40
1400	530	710	850	1228	1630	1560	1510	36-37	1675	1590	1510	36-43
1600	600	790	990	1340	1830	1760	1710	40-37	1914	1820	1710	40-49
1800	670	870	1100	1570	2045	1970	1918	44-40	2115	2020	1920	44-49
2000	760	950	1210	1680	2265	2180	2125	48-43	2325	2230	2130	48-49
2200	590	-	1340	1850	2475	2390	2335	52-43	2550	2440	2330	52-56
2400	650	-	14650	1970	2685	2600	2545	56-43	2760	2650	2530	56-56
2600	700	-	1560	2120	2905	2810	2750	60-49	2960	2850	2740	60-56
2800	760	-	1680	2240	3115	3020	2960	64-49	3180	3070	2940	64-56
3000	810	-	1800	2360	3315	3220	3160	68-49	3405	3290	3150	68-62
3200	880	-	1920	2500	3525	3430	3370	72-49	3630	3510	3360	72-62
3400	950	-	2040	2620	3735	3640	3580	76-49	3850	3730	3570	76-62

概述

伸缩蝶阀为法兰式蝶阀和管道伸缩器两种功能为一体，即能起到节流作用，又能解决温差所产生的内力的消除，即起到伸缩作用。该阀可在电力、冶金、石油、化工、煤气、城市供热、水电造纸、轻纺、医药、食品、供排水、能源、一切非腐蚀性气体、液体、半流体以及固体粉末管线和容器上作为调节和截流使用。可任意换位安装，不受介质、流向的影响，另作阀门安装两法兰间距的调节。

伸缩蝶阀的特点

1. 设计新颖，结构独特。
2. 体积小，重量轻。
3. 操作轻便省力，启闭迅速。
4. 密封部位能调节和更换，密封性能可靠，流阻小，节能。



图一

伸缩蝶阀安装说明

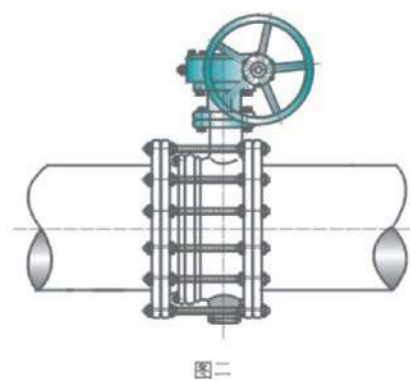
1. 伸缩蝶阀在安装前必须平放，切勿随意磕碰。
2. 伸缩蝶阀出厂时结构长度为最小度，安装时，拉至安装长度(即设计长度)。
3. 当管道间长度超过伸缩阀长度时，请调整管道间隔，切勿强行位伸缩阀，以免损坏伸缩阀。
4. 伸缩蝶阀可在任意位置安装，做温度补偿用，在管道安装完成后，需沿管道轴统方向两端加支架，防止伸缩阀伸缩管拉出(见图1)，支架的支撑力按右列计算，运行时严禁将支架卸掉。
5. 伸缩蝶阀不做温度补偿时，只做安装更换，维修阀门方便时，可用通螺栓限位，对称夹紧伸缩阀以防止伸缩管拉出(见图2)，损坏伸缩蝶阀及管道装置或建筑物。螺栓直径可按法兰螺栓直径，其螺栓强度和承受试验压力及管道拉力，按上公式进行计算，运行时限位螺栓严禁卸掉(螺栓另配)。
6. 管道施工现场严禁随意拆卸解体伸缩蝶阀。
7. 本伸缩蝶阀，加工精细，配合严密，请勿在现场随意反复拉长压短伸缩阀。管道安装时，要求伸缩蝶阀两端管道必须同心，管道上的两法兰面要求平行。
8. 法兰固定螺栓应对称紧固，请勿单边强行紧固法兰固定螺栓。
9. 伸缩管安装在阀门后。
10. 伸缩阀伸缩部分不得安装在管道拐角处或管道末端。

Outline

Expansion butterfly valve integrates the functions of both flanged butterfly valve and pipe expansion unit, performed not only to throttle, but also to eliminate the internal force produced by temperature difference, namely the effect of expansion. It is used to adjust and cut off the flow of all non corrosive gas, liquid and semiliquid, as well as solid particle pipes and containers in the industries of electric power, metallurgy, petroleum, chemical, coal gas, heat supply, papermaking, textile, medicine, foodstuff, water supply and drainage, energy sources and etc, mounted randomly at any positions regardless of the types of medium and the direction of flow, it can also be used to adjust the space between the two flanges upon the installation of valve.

Features Of Expansion Butterfly Valve

1. Original design and distinctive structure.
2. Small sizes and light weight.
3. Labor-saving operation and quick open-close.
4. Adjustable and replaceable seal, dependable sealing, low fluid resistance, and energy conservation.

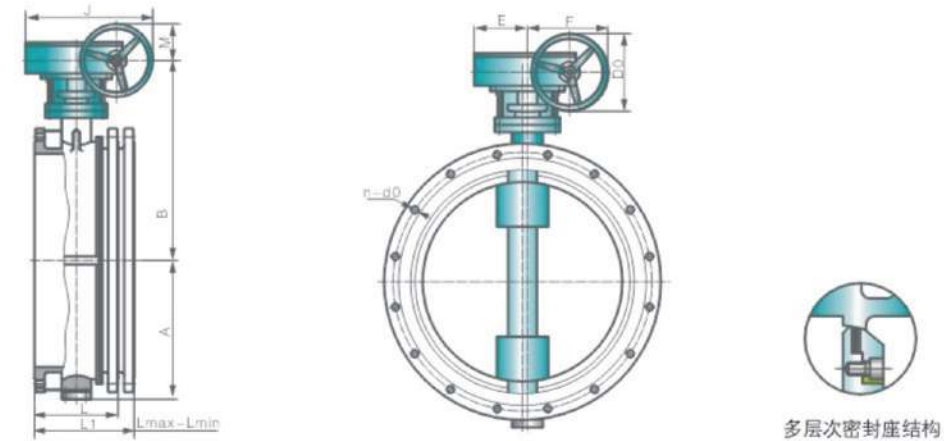


图二

Installation Instructions Of Expansion Butterfly Valve

1. Before installation, expansion butterfly valve shall be horizontally flat, and away from impact.
2. The structural length of expansion butterfly valve is kept at the minimum upon going out of factory, to install, pull it to mounting length(namely designed length).
3. In case of the space between pipes exceeds the length of expansion valve, adjust the space between pipes and never pull the expansion valve by force, as it may damage the valve.
4. Expansion butterfly valve may be mounted at position for the purpose of temperature compensation. After pipe has been mounted, put brackets at the two ends along with the pipe axial line, thus to prevent the expansion pipe of the valve from being pulled out (Fig.1). The bearing force of brackets is calculated as the formula below. Never take the brackets off in service.
5. When expansion butterfly valve is not used for temperature compensation, but used only for convenience of replacement and repair, it can be limited by bolts that are symmetrically fastened to closely clamp the expansion butterfly valve, thus to prevent expansion pipe from being pulled out(Fig.2), as it may damage the expansion butterfly valve, pipeline of constructions. The diameter of bolts may damage the expansion butterfly valve. Pipeline or test pressure and pipeline tension may be calculated according to the formula above. Never take the limit bolts off in service. (Bolts are supplied otherwise).
6. Don't dismantle the expansion butterfly valve on the pipe construction site.
7. This butterfly valve is precisely machined and closely mated, and shouldn't be repeatedly pulled or pressed at random. Upon installation, the pipes at the two ends of expansion valve shall be kept concentric, and the two flange faces on pipeline shall be parallel.
8. Flange fixing bolts shall be symmetrically fastened, never fasten on single side by force.
9. Expansion pipe is mounted behind valve.
10. The expansion part of valve cannot be mounted at the corner of end of pipeline.

SD_{4.1}^{1H}_{3X} PN 0.6~1.6



多层次密封座结构

主要外形尺寸及重量/Main Size of Outside & Weight

公称通径 DN Nominal diameter		外形尺寸(参考值) External dimension(consult)					连接尺寸 Conjunction Size															
		H	H1	设计最大长度 Lmax Most design extent	设计最小长度 Lmin Least design extent	设计长度 L Design extent	A	B	0.6MPa				1.0MPa				1.6MPa					
									D	D1	D2	n-d0	D	D1	D2	n-d0	D	D1	D2	n-d0		
mm	inch	50	2	80	309	164	138	151	180	200	140	110	88	4-14	165	125	99	4-18	165	125	99	4-18
65	2 1/2	95	337	190	154	172	180	200	160	130	108	4-14	185	145	118	4-18	185	145	118	4-18		
80	3	98	347	195	163	177	180	200	190	150	124	4-18	200	160	132	8-18	200	160	132	8-18		
100	4	114	373	227	184	206	180	200	210	170	144	4-18	220	180	156	8-18	220	180	156	8-18		
125	5	128	405	254	201	215	180	200	240	200	174	8-18	250	210	184	8-18	250	210	184	8-18		
150	6	139	440	240	195	225	270	280	265	225	199	8-18	285	240	211	8-22	285	240	211	8-22		
200	8	174	612	265	215	245	400	425	320	280	254	8-18	340	295	266	8-22	340	295	266	12-22		
250	10	215	693	295	235	265	400	425	375	335	309	12-18	395	350	319	12-22	405	355	319	12-26		
300	12	245	747	308	254	282	450	560	440	395	363	12-22	445	400	370	12-22	460	410	370	12-26		
350	14	270	802	325	271	300	450	560	490	445	413	12-22	505	460	429	16-22	520	470	429	16-26		
400	16	305	991	345	283	314	535	580	540	495	463	16-22	565	515	480	16-26	580	525	480	16-30		
450	18	325	1037	370	314	340	535	580	595	550	518	16-22	615	565	530	20-26	640	585	548	20-30		
500	20	360	1127	377	316	346	535	580	645	600	568	20-22	670	620	582	20-26	715	650	609	20-33		
600	24	445	1377	446	388	417	570	660	755	705	667	20-26	780	725	682	20-30	840	770	720	20-36		
700	28	505	1496	445	395	425	750	550	860	810	772	24-26	895	840	794	24-30	910	840	794	24-36		
800	32	560	1584	479	425	455	750	550	975	920	878	24-30	1015	950	901	24-33	1025	950	901	24-39		
900	36	630	1676	515	455	485	750	550	1075	1020	978	24-30	1115	1050	1001	28-33	1125	1050	1001	28-39		
1000	40	680	1760	525	465	495	900	750	1175	1120	1078	28-30	1230	1160	1112	28-36	1255	1170	1112	28-42		
1200	48	795	2018	574	512	542	1000	925	1405	1340	1295	32-33	1455	1380	1328	32-39	1485	1390	1328	32-48		



Other Valve Series 其它系列

高品阀门集团有限公司
THERMAL VALVE GROUP CO.LTD.

美标平衡旋塞阀 API Balance Plug Valve

SENGUI
THERMAL VALVE

用途

美标平衡旋塞阀适用于公称压力CLASS150~1500Lb，工作温度-29~180℃的石油、化工、制药、化肥、电力行业等各种工况的管路上，切断或接通管路介质。

结构特点

1. 产品结构合理、密封可靠、性能优良、造型美观；
2. 倒装压力平衡的结构，开关动作轻；
3. 阀体和密封面间设有油槽，可随时通过油嘴向阀座注入密封油脂，增加密封性能；
4. 零件材质及法兰尺寸可根据实际工况或用户要求合理选配，满足各种工程需要。

标准规范

结构形式：BC
驱动方式：手动 电动
设计标准：API599、API6D
结构长度：ASME B16.10
对焊端：ASME B16.25
连接法兰：ASME B16.5
试验和检验：API598、API 6D

Purpose

API balance plug valve is applicable to the cutting and connection of pipelines medium that are used in various industries such as petroleum, chemical industry, pharmacy, chemical fertilizer, electric power industry etc under nominal pressure of CLASS150~900Lb and working temperature of -29~180℃.

Structural Features

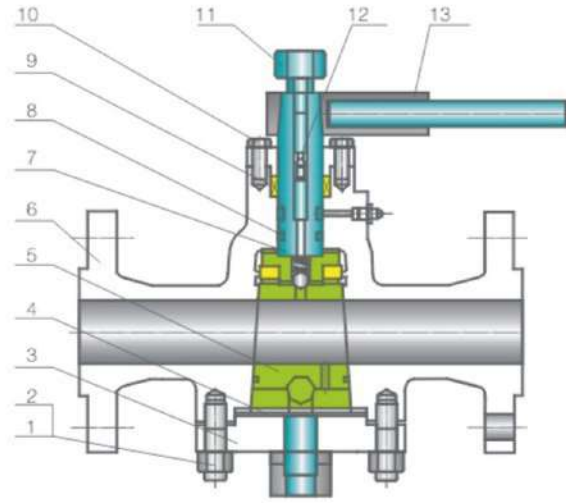
1. It has logical structure, reliable seal, excellent performance and nice design.
2. It has the structure of flip-chip balanceable pressure and light on/off operation.
3. An oil groove is set between valve body and seal surface, which may infuse the seal grease to increase the seal capability.
4. The part material and flange dimension may be selected according to current operating condition and users requirement, so that meet the requirements of various engineering.

Standard Specification

Structural formation: BC
Driving maner: Hand-operated Electric-actuated
Design standard: API599、API6D
Face to face/end to end: ASME B16.10
Butt welded ends: ASME B16.25
Flange ends: ASME B16.5
Test & inspection: API598、API 6D

产品性能规范/Products Performance Specification

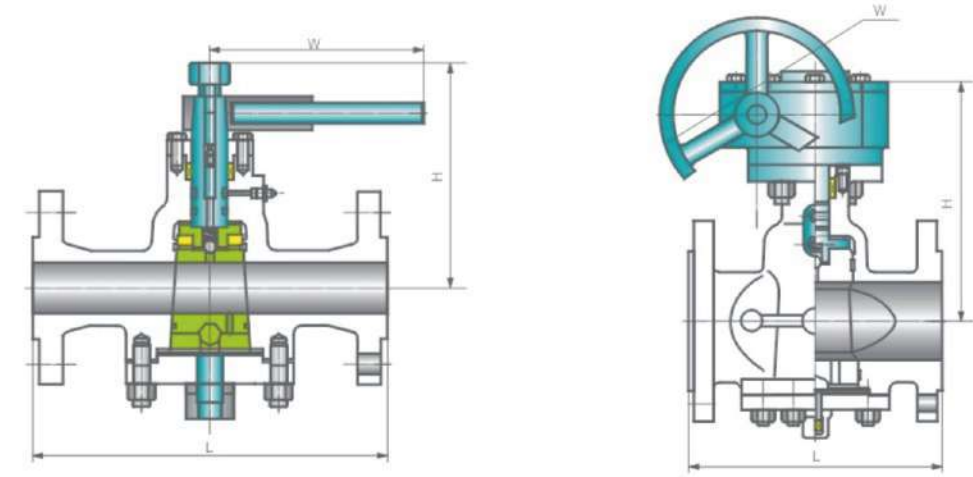
公称压力(LB) Nominal pressure	壳体试验压力(Shell test)		密封试验压力(Sealing test)		适用温度(℃) Suitable temp	使用介质 Suitable medium
	MPa	Psi	MPa	Psi		
150	3.1	450	2.3	315	-29~180℃	水、油品等 Water & oil
300	7.8	1120	5.6	815		
600	15.3	2275	11.2	1630		
900	23.1	3350	16.8	2440		



主要零件材料/Major Parts Material Form

序号NO.	名称 Part name	材 质 Material				
		A216 WCB	A351 CF8	A351 CF3	A351 CF8M	A351 CF3M
1	双头螺栓 Bolt	A193-B7	A193 B8	A193 B8M		
2	六角螺母 Nut	A194-2H	A194 8	A194 8M		
3	阀盖 Cover	A216 WCB	A315 CF8	A351 CF3	A315 CF8M	A351 CF3M
4	垫片 Gasket	柔性石墨 + 不锈钢/PTFE/RTFE				
5	塞子 Plug	A351/CF8	A351 CF8	A351 CF3	A351 CF8M	A351 CF3M
6	阀体 Body	A216 WCB	A351 CF8	A351 CF3	A351 CF8M	A351 CF3M
7	阀杆 Stem	A182 F6a/304	A182/F304	A182 F316	A182 F316	A182 F316L
8	'O'型圈 'O'ring	NBR/FPM				
9	填料 Packing	柔性石墨 + 不锈钢/PTFE/RTFE				
10	填料压盖 Gland	A105	A182 F304		A182 F316	A182 F316
11	加油嘴 Oil nozzle	B62				
12	止回阀 Check valve	F6a	F304	F304L	F316	F316L
13	手柄 Wrench	ASTM A536/WCB				

美标平衡旋塞阀/Class 150 & Class 300



主要外形尺寸及重量/Main Size of Outside & Weight

150Lb

型号 Model		47 F AX347 X 947 X														
口径 Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14
L		108	117	127	140	165	178	190	203	229	254	267	292	330	356	381
H		180	180	185	200	210	215	250	270	300	340	365	400	450	510	590
W		400	400	500	500	600	600	820	820	300	300	320	320	350	380	380
重量(Kg)/Weight		10	12	14	17	19	21	29	33	48	75	98	125	171	230	370

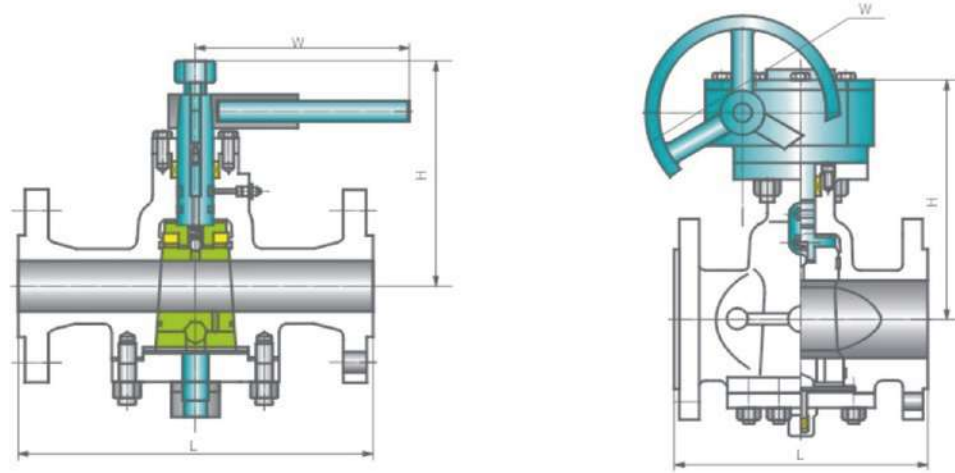
主要外形尺寸及重量/Main Size of Outside & Weight

300Lb

型号 Model		47 F AX347 X 947 X														
口径 Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14
L		140	152	165	178	190	216	241	283	305	381	403	419	457	502	762
H		180	180	185	200	210	215	250	270	300	340	365	400	450	510	590
W		400	400	500	600	600	820	1000	1000	300	300	320	320	350	380	380
重量(Kg)/Weight		12	14	16	19	21	24	31	36	61	86	130	190	255	380	560

注: 4" 及以上为蜗轮操作 4" or above with worm gear

美标平衡旋塞阀/Class 600 & Class 900



主要外形尺寸及重量/Main Size of Outside & Weight

600Lb

型号 Model		AX ⁴⁷ ₃₄₇ ^F ₉₄₇ X														
口径 Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
	in	1/2	3/4	1	1¼	1½	2	2½	3	4	5	6	8	10	12	14
L		165	190	216	229	241	292	330	356	432	508	559	660	787	838	889
H		180	180	185	200	210	215	250	270	300	340	365	400	450	510	590
W		400	400	500	500	600	600	820	820	300	300	320	320	350	380	380
重量(Kg)Weight		14	16	18	20	24	29	35	47	91	129	210	320	660	920	1250

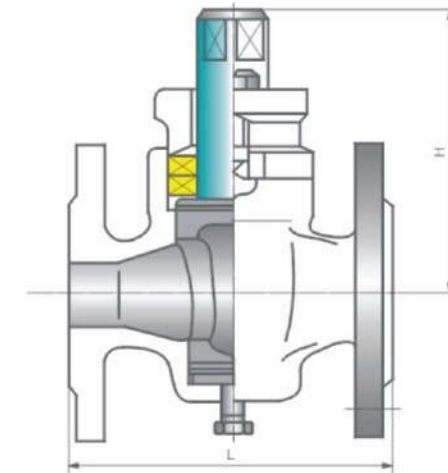
主要外形尺寸及重量/Main Size of Outside & Weight

900Lb

型号 Model		AX ⁴⁷ ₃₄₇ ^F ₉₄₇ X														
口径 Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
	in	1/2	3/4	1	1 ¹ / ₄	1 ¹ / ₂	2	2 ¹ / ₂	3	4	5	6	8	10	12	14
L		229	229	254	279	305	368	419	381	457	559	610	737	838	965	1029
H		180	180	185	200	210	215	250	270	300	340	365	400	450	510	590
W		400	400	500	600	600	820	1000	1000	300	300	320	320	350	380	380
重量(Kg) Weight		17	29	21	24	30	37	44	65	110	160	255	380	810	1050	1460

注: 4" 及以上为蜗轮操作 4" or above with worm gear

国标旋塞阀/PN0.6 & PN1.6



主要外形尺寸及重量/Main Size of Outside & Weight

PN 0.6

型号 Model	ZDGX43-06														
DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
L	80	90	110	130	150	170	220	250	300	350	400	480	600	730	
H	115	120	125	140	150	165	180	190	229	290	350	450	500	740	
重量(Kg) Weight	4	5	7	10	14	22	32	46	96	134	180	260	350	520	

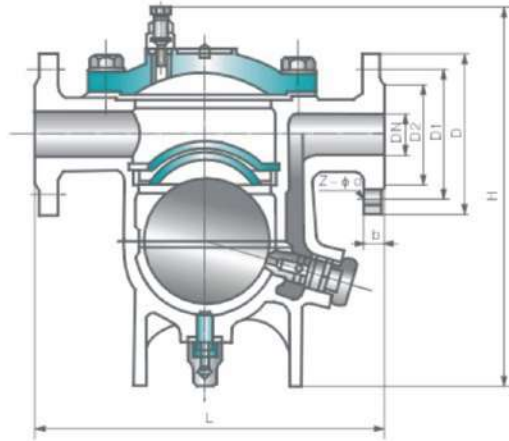
主要外形尺寸及重量/Main Size of Outside & Weight

PN 1.6

型号 Model	ZDGX43-10														
DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
L	80	90	110	130	150	170	220	250	300	350	400	480	600	730	
H	115	120	125	140	150	165	180	190	229	290	350	450	500	740	
重量(Kg) Weight	4	5	7	10	14	22	32	46	96	134	180	260	350	520	

注: 4" 及以上为蜗轮操作 4" or above with worm gear

CS11/41H-16~40C/E/D/F

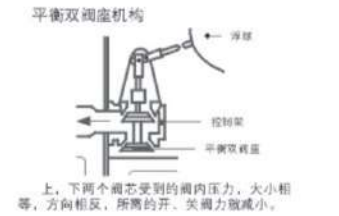
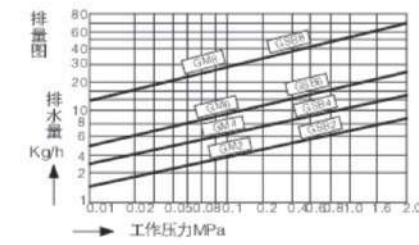
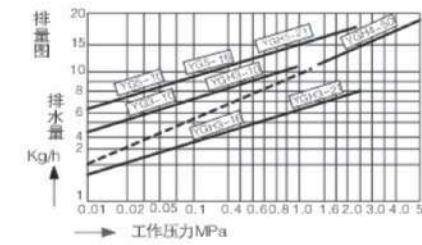


主要外形尺寸及重量/Main Size of Outside & Weight

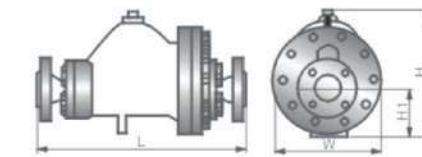
公称口径 DN Nominal diameter	主要外形尺寸和连接尺寸(mm) Main external and connecting dimensions					重量 WT (Kg)
	L	G	H	H1		
	CS11H-16C-C	CS11H-25-C	CS11H-40-C	CS11H-16C-D	CS11H-25-D	CS11H-40-D
15	170	1/2"	176	120		2.6
20	170	3/4"	176	120		2.8
25	170	1"	176	120		3.0
25	230	1"	215	158		5.2
32	230	1 1/4"	217	162		5.4
40	230	1 1/2"	221	166		5.6

主要外形尺寸及重量/Main Size of Outside & Weight

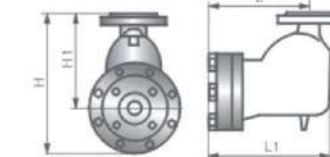
公称口径 DN Nominal diameter	主要外形尺寸和连接尺寸(mm) Main external and connecting dimensions							重量 WT(Kg)
	L	D	D1	D2	b	Z-φd	H	
	CS41H-16C-C	CS41H-25-C	CS41H-40-C	CS41H-16C-D	CS41H-25-D	CS41H-40-D		
	CS41H-16C-E	CS41H-25-E	CS41H-40-E	CS41H-16C-F	CS41H-25-F	CS41H-40-F		
15	195	95	65	45	14	4-φ14	195	10.5
20	195	105	75	55	14	4-φ14	200	11.2
25	215	115	85	65	14	4-φ14	225	11.5
25	270	115	85	65	14	4-φ14	245	10.5
32	270	135	100	78	16	4-φ18	250	11.2
40	280	145	110	85	16	4-φ18	290	11.5
40	280	145	110	85	16	4-φ18	290	10.5
50	410	160	125	100	16	4-φ18	380	11.2
65	410	180	145	120	18	4-φ18	380	11.5
50	430	165	125	102	20	4-φ18	467	72
65	430	185	145	122	20	4-φ18	475	74
80	460	200	160	132	22	8-φ18	492	77



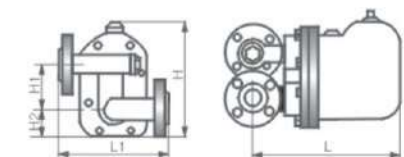
上、下两个阀芯受到的前内压力，大小相等，方向相反，所受的开、关阀力减小。



G3、G5



YGH4



GM、GSB

用途与特点

广泛用于石油、化工、冶金、造纸、食品等工业蒸汽设备，干燥机及
各种大型热交换器等，特别适用于凝结水特大排量工作场合。

1. 采用平衡双阀座系统，加倍增加大流通面积，获得特大排水量。
2. 内置有自动排空气装置，能迅速及时排除空气，使设备启动快。
3. 阀内件不锈钢结构，保证具有良好的耐腐蚀和抗磨损。

Uses And Characteristic

It is extensive to used for the petroleum, chemical engineering, metallurgy, deckle, food...etc. industry steam equipments, dry machine and every kind of large Heat exchanger etc., be applicable to the coagulation water specially to measures with the big row work situation.

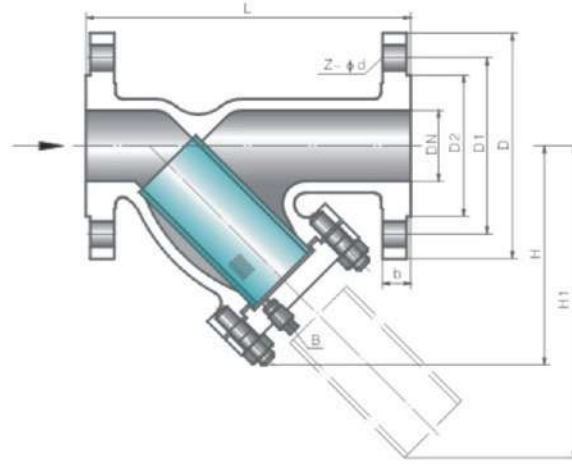
1. Adoption equilibrium a valves a system, double the increment is big to circulate the area, acquiring with big displacement.
2. The inside places the auto row air equipments, can expel the air quickly and immediately, making equipments started quickly.
3. Valve inside a stainless steel construction, guarantee to have to bear the corrosion goodly to wear away with the anti-.

主要零件材料/Major Parts Material Form

零部件名称 Parts name	阀体、阀盖 Body/cover	浮球 Ball	双阀座 Seat	控制架 Control
材料 Material	WCB、WC6	不锈钢 Stainless steel	不锈钢 Stainless steel	不锈钢 Stainless steel

主要技术参数/Main Technology Parameter

产品型号 Type	公称口径 (DN)	连接方式 Conjunction method	使用压力 (MPa)	最高允许温度 (°C)	外形尺寸 Contour dimension (mm)						参考重量 WT(Kg)
					L	L1	H	H1	H2	W	
YG3-10-16R	20~50	法兰 Flange	0.01~1.6	300	435		260	85		215	28
YG5-16R	50~100	法兰 Flange	0.01~1.6	300	570		260	85		215	35
YGH3-10R 16R 21R	25~32 40 50	法兰 Flange	0.01~2.1	425	425		260	85		215	28
					435		260	88		215	30
					455		260	88		215	32
YGH4-50	40~80	法兰 Flange	0.01~5.0	425	345	428	430	340		270	75
YGH5-16R 21R	50~100	法兰 Flange	0.01~2.1	425	360 570		317	117		270	35
GM2 GSB2-10、20	25~50	法兰 Flange	0.01~1.0 0.01~2.0	425	200	310	235	95	80		21
GM4 GSB4-10、20	32~50	法兰 Flange	0.01~1.0 0.01~2.0	425	200	380	320	105	85		40
GM6 GSB6-10、20	40~80	法兰 Flange	0.01~1.0 0.01~2.0	425	270	440	345	125	90		52
GM8 GSB8-10、20	80~100	法兰 Flange	0.01~1.0 0.01~2.0	425	350	550	460	170	118		125



产品执行标准/Production enforce standard

产品规范 Product Specification	设计规范 Design Spec.	结构长度 Face to Face	连接法兰 Flange End	试验与检验 Test & Check	产品标识 Marking	供货规范 Supply
	HG/T 21637	GB/T12221	JB/T 79	JB/T 9092	GB/T 12220	JB/T 7928

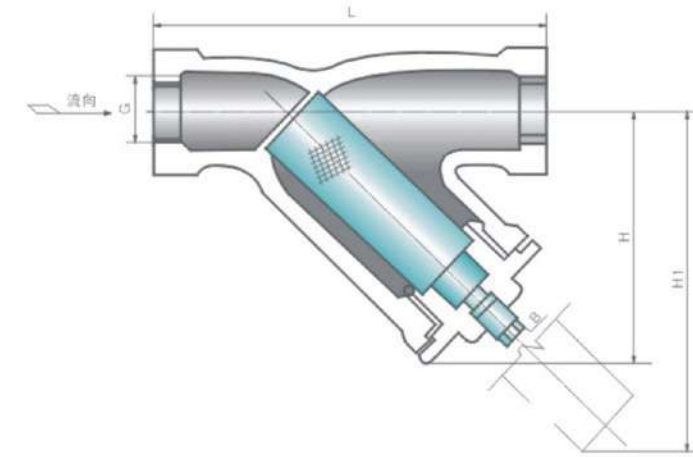
产品性能规范/Chief property and specification

型号 Type	连接方式 Conjunction method	公称压力 PN(MPa)	耐压试验压力 (MPa)	工作压力 (MPa)	壳体材料 Material	过滤网材料 Strainer material	网眼总面积
SY4P-10	法兰 Flange	1.0	1.1	1.0	灰铸铁 Cast ferrossteel	不锈钢 Stainless steel	3~4DN
SY4P-16	法兰 Flange	1.6	1.76	1.6	球墨铸铁 Ductile cast iron		
SY4P-25	法兰 Flange	2.5	2.75	2.5	碳钢 Carbon steel		

主要零件材料/Material For Main Parts

零件名称 Part Name	零部件材料 Part Material					
阀体/阀盖 Body/Bonnet	25	WCB	CF8	CF8M	CF3	CF3M
网架 Disc/Stem	25	35	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti	00Cr18Ni10	00Cr17Ni14Mo2
滤网 Strainer	1Cr18Ni9Ti		1Cr18Ni9Ti		00Cr18Ni10	
垫片 Gasket	18-8/柔性石墨 18-8/Flexible Graphite					
螺栓 Bolt	35		1Cr17Ni2		1Cr18Ni9Ti	
适用温度 Suitable temp.	-29~+425℃		-40~+200℃		-40~+200℃	
适用介质 Suitable medium	水、油品、蒸汽 Water, Oil, Steam		硝酸类 Nitric Acid		醋酸类 Acetic Acid	

SY11C-H10~H25(A150)



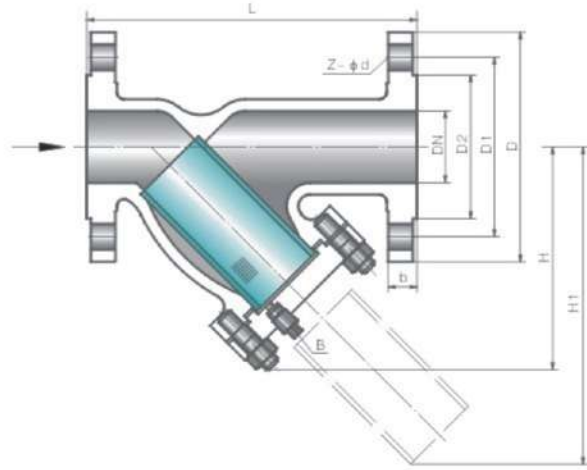
主要外形尺寸及重量/Main Size of Outside & Weight

公称通径 DN	L	G	H	H1	B	有效过滤面积 Strainer Area (m2)	WT (Kg)
SY11C-H10 SY11C-H16 SY11C-H25							
15	100	1/2"	74	99	ZG3/8"	0.00185	0.78
20	110	3/4"	88	127	ZG1/2"	0.00281	1.10
25	130	1"	103	150	ZG1/2"	0.00343	1.43
32	160	1 1/4"	110	163	ZG1/2"	0.00486	2.11
40	180	1 1/2"	132	203	ZG1/2"	0.00767	3.07
50	200	2"	163	243	ZG1/2"	0.01160	3.91

主要外形尺寸及重量/Main Size of Outside & Weight

NPS	DN	NPT	L	H	H1	B	有效过滤面积 Strainer Area (m2)	WT (Kg)
in	mm							
SY11C-A150								
3/4	15	1/2"	100	74	99	NPT3/8"	0.00185	0.78
1/2	20	3/4"	110	88	127	NPT1/2"	0.00281	1.23
1	25	1"	130	103	150	NPT1/2"	0.00343	1.43
1 1/4	32	1 1/4"	160	110	163	NPT1/2"	0.00486	2.11
1 1/2	40	1 1/2"	180	132	203	NPT1/2"	0.00767	3.07
2	50	2"	200	163	243	NPT1/2"	0.01160	3.91

SY41C/SY14S-H10~H300(A150)



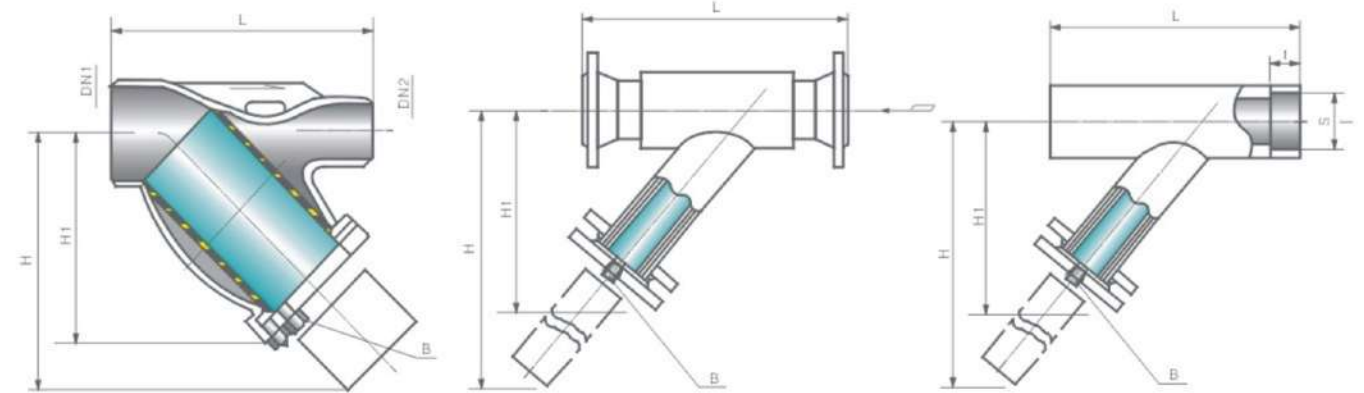
主要外形尺寸及重量/Main Size of Outside & Weight

公称通径 DN	L	H	H1	B	有效过滤面积 Strainer Area (m²)	WT (Kg)					
						SY14C			SY14S		
						PN1.0	PN2.5	PN4.0	PN1.0	PN2.5	PN4.0
SY14C-H10		SY14C-H16	SY14C-H25	SY14C-H40	SY14S-H10	SY14S-H16	SY14S-H25	SY14S-H40			
15	110	87	120	ZG3/8"	0.00185	2.62	2.74	2.81	2.80	2.85	2.85
20	130	105	148	ZG1/2"	0.00281	3.00	3.06	3.06	3.05	3.11	3.11
25	150	114	176	ZG1/2"	0.00343	3.70	3.78	3.98	3.80	3.84	3.84
32	160	124	193	ZG1/2"	0.00486	5.35	5.46	5.46	5.43	5.54	5.54
40	200	156	237	ZG1/2"	0.00767	6.54	6.60	7.01	6.62	6.72	6.72
50	220	181	270	ZG1/2"	0.01160	9.21	9.46	9.97	10.9	11.1	11.1
65	290	250	369	ZG3/4"	0.02111	20.2	21.6	22.7	22.4	23.9	24.1
80	310	280	429	ZG3/4"	0.03029	23.4	25.1	27.4	26.6	27.7	28.5
100	350	320	488	ZG3/4"	0.04033	31.2	34.2	38.3	34.6	37.1	38.8
125	400	374	547	ZG3/4"	0.05589	44.1	49.1	56.9	50.5	54.6	57.8
150	480	430	622	ZG3/4"	0.07709	54.5	61.3	72.0	63.9	70.7	74.2
200	550	515	741	ZG3/4"	0.11967	81.0	93.3	127.7	85.3	97.0	120.5

主要外形尺寸及重量/Main Size of Outside & Weight

NPS	DN	L	H	H1	B	有效过滤面积 Strainer Area (m ²)	WT (Kg)			
							SY14C		SY14S	
	in						mm	150Lb	300Lb	150Lb
		SY14C-A150	SY14S-A150	SY14C-H300	SY14S-H300					
1/2	15	110	87	120	NTP1/8'	0.00185	1.96	2.47	2.10	2.51
3/4	20	130	105	148	NTP1/2'	0.00281	2.25	3.35	2.29	3.40
1	25	150	114	176	NTP1/2'	0.00343	3.05	4.19	3.10	4.25
1 1/4	32	160	124	193	NTP1/2'	0.00486	4.14	5.85	4.21	5.64
1 1/2	40	200	156	237	NTP1/2'	0.00767	6.09	8.49	6.20	8.63
2	50	220	181	270	NTP1/2'	0.01160	8.57	11.0	9.68	11.2
2 1/2	65	290	259	369	NTP3/4'	0.02111	22.7	27.7	23.6	29.0
3	80	310	293	429	NTP3/4'	0.03029	25.2	37.6	27.8	38.2
4	100	350	324	488	NTP3/4'	0.04033	33.7	58.0	36.7	57.2
5	125	400	390	547	NTP3/4'	0.05589	48.1	76.4	52.1	76.6
6	150	480	448	622	NTP3/4'	0.07709	59.7	112.1	66.8	104.4
8	200	550	535	741	NTP3/4'	0.11967	87.3	183.2	91.2	175.6

SY14C/14S/11C/11S-J10~J40



主要外形尺寸及重量/Main Size of Outside & Weight

公称通径DN	L	H	H1	WT(Kg)			
SY14C-J10	SY14C-J16	SY14C-J25	SY14C-J40	SY14S-J10	SY14S-J16	SY14S-J25	SY14S-J40
15	130	87	120	2.7			
20	150	105	150	3.1			
25	160	115	176	3.8			
32	180	125	193	5.5			
40	200	156	237	6.6			
50	230	131	270	9.4			
65	290	250	370	21.6			
80	310	280	430	25.1			
100	350	320	488	34.2			
125	400	375	547	49.1			
150	480	430	622	61.3			
200	600	515	741	93.3			
250	730	550	880	126			

主要外形尺寸及重量/Main Size of Outside & Weight

公称通径 DN	L	H	H1	WT(Kg)
SY11C-J10	SY11C-J16	SY11S-J10	SY11S-J16	
15	90	75	100	0.8
20	100	90	130	1.2
25	120	105	150	1.4
32	140	110	165	2.1
40	170	135	205	3.1
50	200	165	245	4.0