



江苏理想阀门有限公司

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铸钢阀门系列



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Cast steel valve series

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企业简介 COMPANY PROFILE

江苏理想阀门有限公司是专门从事各种阀门及管道配件的研发、生产、销售于一体的高科技民营企业，是中国发电行业协会、中国阀门协会会员，中石油、中石化一级网络供应商。公司位于江苏省阜宁县阜城镇城北工业园。

公司成立于2001年12月，注册资本11888万元人民币，拥有固定资产6583.19万元，占地面积90亩。现有员工146人，其中工程技术人员28人，中高层管理人员26人，生产工人90余人。设有一办六部四大车间，企业发展是我公司不懈的追求，公司坚持依靠科技创新、不断吸取国内外先进经验，引进先进的生产工艺和完善的检测设备，建立了一支高素质现代化队伍。

本公司主要产品有铸(锻)电站阀、截止阀、止回阀、球阀、蝶阀及各种仪表针型阀、阀组、压力容器系列；压力级：Class150~Class4500，PN16~PN420；口径：NPS1/2"~NPS1/2"~60"，DN15~DN1600；驱动方式：手动、齿轮传动、气(电)动、气液联动等；连接方式：法兰、对焊、承插焊、对夹、螺纹及卡套连接；主要材料：A105、LF类、F304、F316、F316L、F51、F11、F22、WCB、WC9、LCB、CF8、CF8M、CF3M等；公司产品广泛用于电站、冶金、化工、石油、造气、科研等领域，并致力开拓国际市场。

本公司有精良的制造、检测设备，现有国内外先进数控机床、激光切割以及各类机械生产通用设备160多台，数控加工中心多台，检测设备有理化、探伤及无损探伤检测中心等各类检测设备76台。公司在2012年新增加了2吨、4吨、8吨DY系列电液锤各一台套，配套T31YH系列操作机及ZHLJ系列取料机各四台，锻造产品日加工能力超过30吨。公司采用标准化操作工艺及完备的性能测试手段，可保证正确的量值传递和所用各种金属材料化学成分准确性。

本公司十分重视企业管理和产品质量，公司现已通过ISO9001:2015质量体系认证、国家特种设备许可证的“TS认证”、CCS船级社认证、美国石油协会“API 6A/6D认证”、“API 607”防火证书及意大利“CE”认证等；详见江苏理想阀门有限公司《资料汇编》，公司阀门还拥有十二项阀门专利技术。

公司始终以市场为导向，以质量信誉求生存，以科技创新求发展的经营理念，确保用户利益为前提实现双赢为目标；科学的管理，完善的服务为客户提供满意的产品。

竭诚欢迎中外客户选用公司产品！



Jiangsu Ideal Valve Co., Ltd. is a high-tech private enterprise specializing in R&D, production and sales of various valves and pipe fittings. It is a member of China Power Generation Association and China Valve Association, and is a first-tier network supplier of PetroChina and Sinopec. The company is located in the North Industrial Park of Fucheng Town, Funing County, Jiangsu Province.

The company was established in December 2001 with a registered capital of 118.88 million yuan, a fixed asset of 65,831,900 yuan and an area of 90 mu. It now has 146 employees, including 28 engineers and technicians, 26 middle and senior managers, and over 90 workers. Equipped with one office, six departments and four workshops, our company has been unremittingly pursuing development. The company insists on relying on scientific and technological innovation, constantly drawing on advanced domestic and foreign experience, introducing high-end production techniques and perfect testing equipment, and has thus built a high-quality modern team.

The company's main products are casting (forging) power station valves, globe valves, check valves, ball valves, butterfly valves and various meter needle valves, valve manifolds, pressure vessel series; pressure level: diameter: drive mode: manual, gear drive, gas (electric) drive, pneumatic-hydraulic gang control, etc.; connection method: flange, butt weld, socket weld, wafer, thread and ferrule connection; main materials: A105, LF, F304, etc. The products of our company are widely applied in power stations, metallurgy, chemical industry, petroleum, gas, scientific research and other fields, and we are committed to open up the international market. The company boasts superior manufacturing and testing equipment, with more than 160 domestic

and foreign advanced CNC machine tools, laser cutting and general machinery production equipment, many sets of CNC machining centers, 76 sets of testing equipment in physical and chemical, flaw detection and non-destructive testing centers. In 2012, the company newly added one set of 2-ton, 4-ton and 8-ton DY series electrohydraulic hammers, with the supporting four T31YH series operation machines and four ZHLJ series reclaimers. The daily processing capacity of the forged products exceeds 30 tons. The company adopts standardized operating techniques and complete performance testing methods to ensure the correct value transfer and the accuracy of the chemical composition of various metal materials used.

The company attaches great importance to enterprise management and product quality, and has now passed the ISO9001:2015 quality system certification, the "TS certification" of the national special equipment license, the CCS classification society certification, the American Petroleum Institute "API 6A/6D Certification", "API 607" "Fire Certificate" and Italy "CE" certification; details as per "Data Compilation" of Jiangsu Ideal Valve Co., Ltd. The company also has twelve patented valve technologies.

The company has always been market-oriented, pursues quality reputation for survival, striving for development through scientific and technological innovation to ensure a win-win situation under the premise of customers' interests; providing customers with satisfactory products by scientific management and perfect service.

We sincerely welcome Chinese and foreign customers to choose our products!



车间展示

WORKSHOP DISPLAY

品质体现我们的尊严，出类拔萃的品质拒绝平庸。一丝不苟、千锤百炼、标准化的管理体系和系统化的品质保证体系，让理想阀门产品品质在世界的每个角落都畅通无阻，理想阀门通过与合作者们卓有成效的努力，正促使“理想阀门”成为世界上最无可挑剔的品质。

Quality embodies our dignity, a kind of elite quality refused to mediocrity. Meticulous, dental laboratories, standardized management system and systematized quality guarantee system, let LIXIANG valve product quality, in every corner of the world in the clear LIXIANG valve with collaborators fruitful efforts, are prompting "ideal valve" has become the world's most impeccable quality.



工程业绩

ENGINEERING PERFORMANCE

产品广泛应用于石化、冶炼、天然气、造纸、制药、城建等行业与长输管线等工程。产品畅销全国，并一直受到国内客户的好评。

Products are widely used in petrochemical, refining, gas, paper making, pharmacy, urban construction and other industries with long distance pipeline and other projects. Products are sold well all over the country, and has been praised by domestic customers.



铸钢闸阀系列 01 CAST STEEL GATE VALVE SERIES

闸阀产品结构	02-03	Gate Valve Product Structure
国标楔式闸阀	04-08	GB Wedged Gate Valve
电动楔式闸阀	09-12	Electric Wedge Gate Valve
高温高压电动焊接闸阀	13-14	High Temperature And High Pressure Electric Welding Gate Valve
磅级电站闸阀	15-17	ANSI Pressure Class Power Station Valve
美标铸钢闸阀	18-21	API Cast Steel Gate Valve
燃气平板闸阀	22-23	Gas Flat Gate Valve
保温夹套闸阀	24-25	Preservation Jacket Gate Valve
低温闸阀	26-28	Low Temperature Gate Valve

铸钢截止阀系列 29 CAST STEEL GLOBE VALVE SERIES

截止阀产品结构	30-31	Globe Valve Products Structure
国标截止阀	32-35	GB Globe Valve
高温高压电动截止阀	36-38	High Temperature High Pressure Electric Globe Valve
磅级Y型截止阀(大口径)	39-40	ANSI Pressure Class Y Type Globe Valve (Large Diameter)
直流、对焊、自密封式截止阀(BW型)	41	Straight Flow, Butt Welded, Pressure Sealed Globe Valve (BW)
承插焊、直流、自密封式截止阀(SW型)	42	Socket Welded, Straight Flow, Pressure Sealed Globe Valve (SW)
抗冲蚀截止阀	43	Resistance To Erosion Globe Valve
美标铸钢截止阀	44-46	API Cast Steel Globe Valve
低温截止阀	47-48	Low Temperature Globe Valve
保温截止阀	49-50	Insulation Globe Valve
氧气专用截止阀	51-52	Oxygen Special Globe Valve
波纹管截止阀	53	Corrugated Pipe Stop Valve
角式截止阀	54	Angle Globe Valve

铸钢止回阀系列 55 CAST STEEL CHECK VALVE SERIES

止回阀产品结构	56-57	Check Valve Products Structure
国标旋启式止回阀	58-60	GB Swing Check Valve
国标升降式止回阀	61-63	GB Lift Check Valve
电站升降式、旋启式止回阀	64-65	Power Station Lift, Swing Check Valve
磅级电站旋启式止回阀	66	ANSI Pressure Class Swing Check Valve for Power Station

抽气止回阀 67 Extraction Check Valve

直流式止回阀 68 Straight-flow Check Valve

美标旋启式止回阀 69-70 API Swing Check Valve

对夹连接升降式止回阀 71-72 Wafer Type Piston-lift Check Valve

对夹连接双瓣旋启式止回阀 73-74 Wafer Type Double Disc Swing Check Valve

立式止回阀 75 Vertical Check Valve

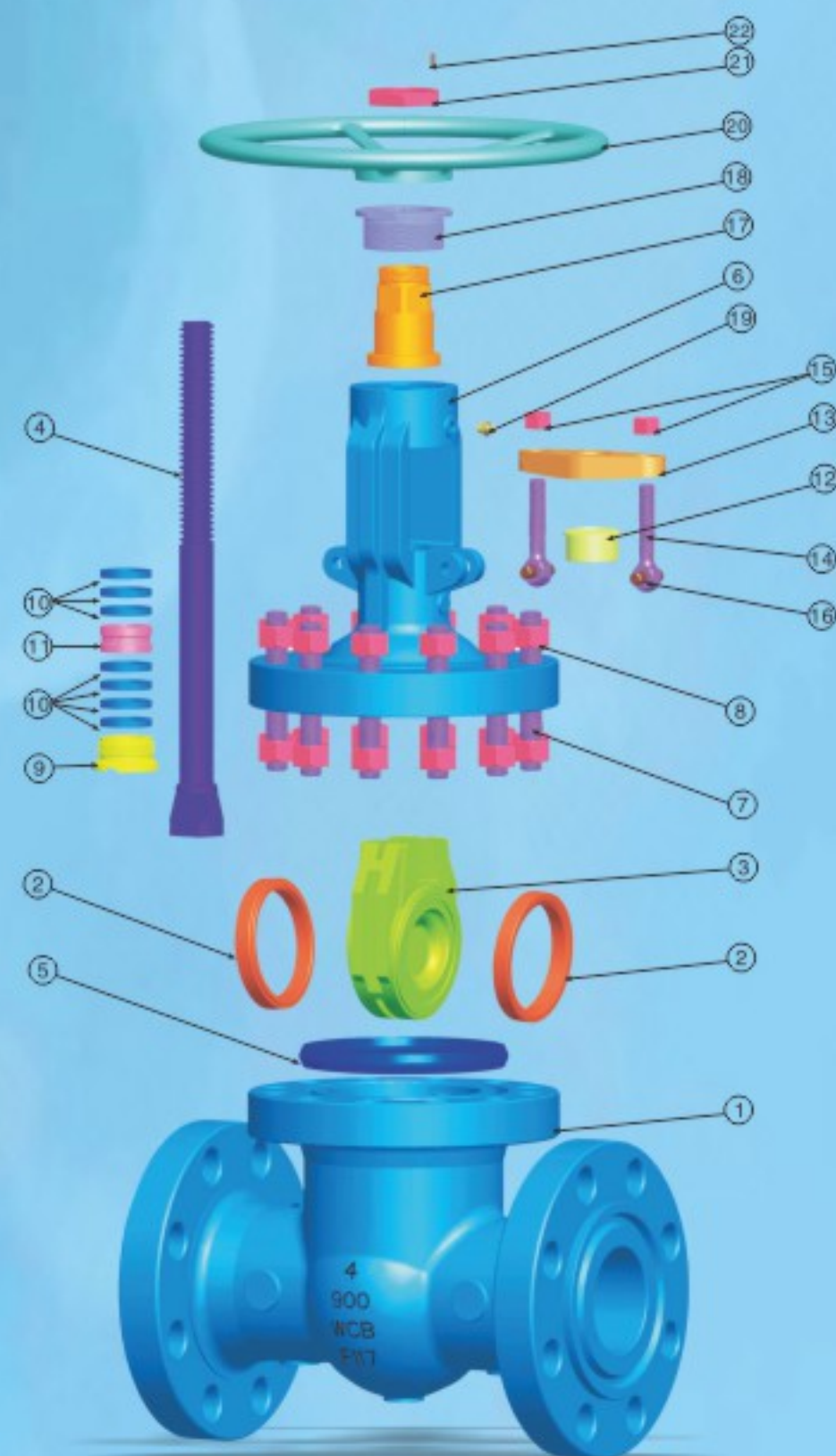
铸钢球阀系列 76 CAST STEEL BALL VALVE SERIES

球阀产品结构	77-78	Ball Valve Product Structure
球阀概述	79-81	Ball Valve Description
浮动球阀	82-83	Floating Ball Valve
金属密封浮动球阀	84-85	Metal Sealed Floating Ball Valve
金属密封固定球阀	86-87	Metal Sealed Trunnion Ball Valve
美标铸钢浮动式球阀	88	API Cast Steel Floating Ball Valve
美标铸钢固定式球阀	89-91	API Cast Steel Trunnion Ball Valve
国标软硬密封浮动球阀	92-93	GB Hard and Soft Sealing Floating Ball Valve
国标浮动式铸钢球阀	94-96	GB Cast Steel Floating Ball Valve
国标固定式铸钢球阀	97-100	GB Cast Steel Trunnion Ball Valve
硬密封固定球阀	101-102	Hard Seal Trunnion Ball Valve
国标铸钢固定球阀	103	GB Cast Steel Fixed Ball Valve
上装式固定球阀	104-106	Up-loaded Fixed Ball Valve
料浆半球阀	107-108	Slurry Half Ball Valve
轨道球阀	109-114	Track Ball Valve
低温球阀	115-116	Cryogenic Ball Valve

铸钢蝶阀系列 117 CAST STEEL BUTTERFLY VALVE SERIES

蝶阀产品结构	118-119	Butterfly Valve Product Structure
三偏心多层次金属硬密封蝶阀	120	Triple Eccentric Multi-layer Metal Hard Seal Butterfly Valve
对夹式多层次金属硬密封蝶阀	121-123	Wafer Multi-layer Metal Hard Seal Butterfly Valve
法兰式多层次金属硬密封蝶阀	124-126	Flange Multi-layer Metal Hard Seal Butterfly Valve
美标蝶阀	127-130	API Butterfly Valve

铸钢闸阀系列 CAST STEEL GATE VALVE SERIES



◆ 产品结构特征 Products Structure Features

系列铸钢闸阀适用于公称压力PN1.6~42.0MPa(CL150~CL2500), 工作温度-46~600℃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、阀门设有倒密封结构, 密封可靠。
- 5、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。

Series of cast steel gate valve are used to cut or connect the pipe media under nominal pressure between PN1.6~42.0MPa(CL150~CL2500), working temperatures between -46~600℃, in oil industry, chemical industry, fossil-fired power plants.

The main structure features include:

1. Sensible products structure, reliable sealing, excellent performance and good looking.
2. Co hard alloy welded sealing surface, which is wearing resistant, erosion proof, abrasion proof and long-lived.
3. The valve stem is treated by quenching and tempering, surface nitriding, its anti-friction and corrosion resistance is good.
4. There is backseat structure in the valve, so the valve seal is reliable.
5. Material of spare parts, size of the flange and butt weld end can be chosen and matched according to actual working condition and user's requirements, so that meet various projects requirements.

◆ 主要零部件 Main Part

序号No.	名称	Part Name	序号No.	名称	Part Name
01	阀体	Body	12	填料压套	Gland
02	阀座	Seat	13	填料压板	Gland Flange
03	闸板	Gate	14	活节螺栓	Eyebolt
04	阀杆	Stem	15	螺母	Eyebolt Nut
05	中法兰垫片	Bonnet Gasket	16	圆柱销	Pin
06	阀盖	Bonnet	17	阀杆螺母	Stem Nut
07	螺栓	Bolts	18	轴承压盖	Bearing Gland
08	螺母	Nuts	19	油杯	Nipple
09	上密封座	Backseat	20	手轮	Hand Wheel
10	填料	Packing	21	锁紧螺母	Hand Wheel Nut
11	填料隔环	Packing Lantern Ring	22	圆柱销	Pin



◆ 用途 Use

楔式闸阀广泛适用于石油、化工、电厂、油品、水蒸气等管路上, 作为接通或截断管路中介质的启闭装置。

Wedge gate valve is widely used in petroleum, chemical industry, power plants, oil, steam, etc, on the pipeline as connected or truncated the medium inside the pipe opening and closing device.

◆ 特点 Characteristics

- 1、结构紧凑、设计合理、阀门刚性好、通道流畅、流阻系数小;
 - 2、密封面采用不锈钢硬质合金, 使用寿命长;
 - 3、采用柔性石墨填料、密封可靠、操作轻便灵活;
 - 4、驱动方式为手动、气动、电动、齿轮传动、液动;
 - 5、结构形式为弹性楔式单闸板、刚性楔式单闸板双闸板型式。
1. Compact structure, reasonable design, good rigidity, valve channel flow, flow resistance coefficient is small;
 2. The sealing surface of stainless steel and carbide, long service life;
 3. Using the flexible graphite packing, sealing is reliable, operation is smooth and easy;
 4. Drive mode for manual, pneumatic, electric, gear transmission, hydraulic;
 5. The structure form is elastic wedge type single gate, rigid wedge type single gate or double gate.

◆ 执行标准 Standards Adopted

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
	GB/T12234	GB/T12221	JB/T 79 GB/T9113 HG/T20592	GB/T 13927 JB/T9092	GB/T 12224

◆ 性能规范 Performance Specification

1、试验压力 Test pressure

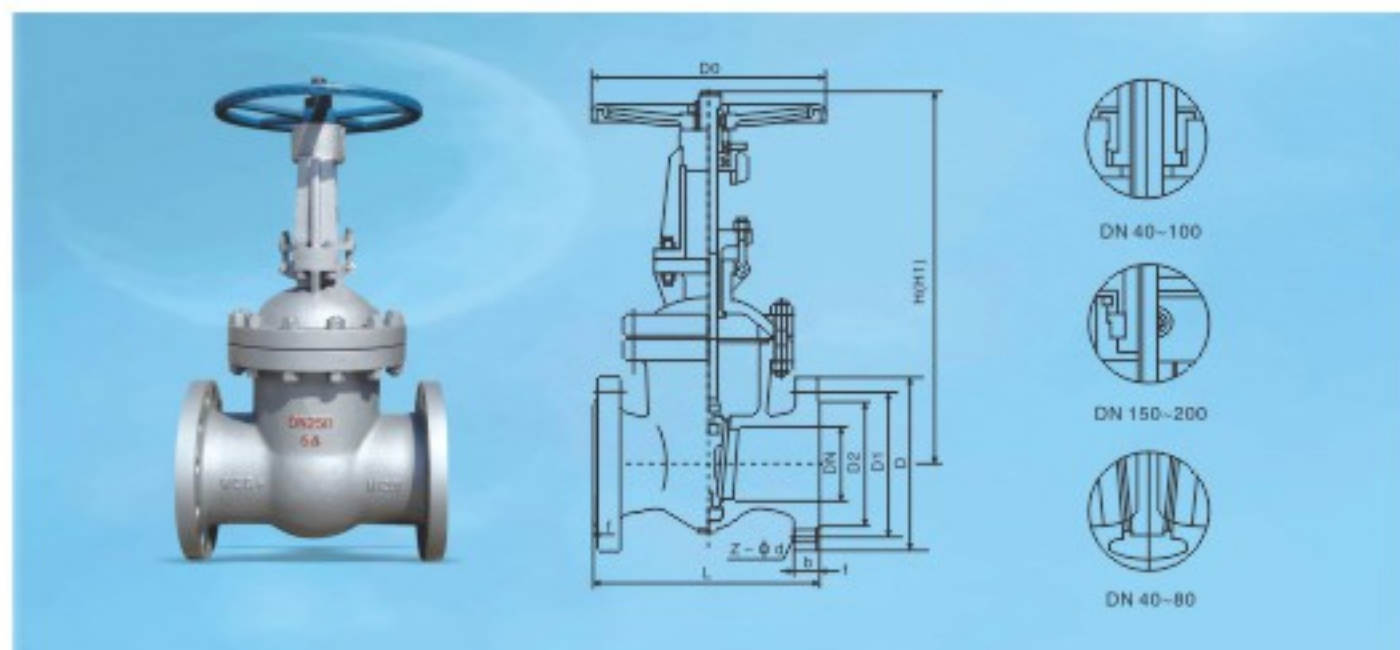
公称压力PN(MPa) Nominal Pressure	壳体 Shell	密封(液/Liquid) Seal	密封(气/Gas) Seal	上密封 Back seat
1.6	2.4	1.8	0.6	1.8
2.5	3.8	2.8	0.6	2.8
4.0	6.0	4.4	0.6	4.4
6.4	9.6	7.1	0.6	7.1
10.0	15.0	11.0	0.6	11.0
16.0	24.0	18.0	0.6	18.0

2、适用介质及适用温度 Applicable Media & Applicable Temperature

壳体材料 Shell material	适用介质 Applicable media	适用温度℃ Applicable temperature
碳素钢(C型) Carbon steel (C type)	水、蒸汽、油品 Water, steam, oil	≤425
铬镍钢(P型) Cr.Ni steel (P type)	硝酸类 Nitric acid	≤200
铬镍钼钢(R型) Cr.Ni.Mo steel (R type)	醋酸类 Acetic acid	≤200
铬钼钢(I型) Cr.Mo steel (I type)	水、蒸汽、油品 Water, steam, oil	≤550

◆ 主要零件材料 Main Part Materials

阀体/阀盖 Body, bonnet	闸板/阀座 Disc, seat	阀杆 Stem	阀杆螺母 Stem nut	填料 Packing	手轮 Handwheel
碳素钢 Carbon steel	优质碳钢+硬质合金或不锈钢 High-grade carbon steel+ carbide alloy or stainless steel	铬不锈钢 Cr.stainless steel	铜合金 Copper alloy	柔性石墨 Flexible graphite	可锻铸铁 Malleable Iron
铬镍钢 Cr.Ni steel	不锈钢、不锈钢+硬质合金 Stainless steel or+carbide alloy	铬镍不锈钢 Cr.Ni.stainless steel	铜合金 Copper alloy	聚四氟乙烯 PTFE	可锻铸铁 Malleable Iron
铬镍钼钢 Cr.Ni.Mo steel	不锈钢、不锈钢+硬质合金 Stainless steel or+carbide alloy	铬镍不锈钢 Cr.Ni.stainless steel	铜合金 Copper alloy	聚四氟乙烯 PTFE	可锻铸铁 Malleable Iron
铬钼钢 Cr.Mo steel	合金钢+硬质合金 Alloy steel+carbide alloy	铬钼钢 Cr.Mo steel	铜合金 Copper alloy	柔性石墨 Flexible graphite	可锻铸铁 Malleable Iron



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	L	D	D1	D2	b-t	Z-φd	H
Z40H Z41Y -10C	Z40 Z41 Y-10P/R/PL/RL	Z40 Z41 W-10P/R/PL/RL	Z40 Z41 Y-10I (KZ41Y)				
15	130	95	65	45	12-2	4-φ14	185
20	150	105	75	55	14-2	4-φ14	200
25	160	115	85	65	14-2	4-φ14	225
32	180	135	100	78	16-2	4-φ18	275
40	200	145	110	85	16-3	4-φ18	290
50	180	160	125	100	16-3	4-φ18	345
65	195	180	145	120	18-3	4-φ18	360
80	210	196	160	135	18-3	4-φ18	380
100	230	215	180	155	20-3	8-φ18	430
125	255	245	210	185	22-3	8-φ18	520
150	280	280	240	210	22-3	8-φ23	600
200	330	335	295	265	22-3	8-φ23	765
250	380	390	350	320	24-3	12-φ23	930
300	420	440	400	368	26-3	12-φ23	1080
350	450	500	460	428	26-4	16-φ23	1200
400	480	565	515	482	26-4	16-φ35	1400
450	510	615	656	532	26-4	20-φ25	1500
500	540	670	620	585	28-4	20-φ25	1630
600	600	780	725	685	28-5	20-φ30	1830
700	660	896	840	800	30-5	24-φ30	1930

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	L	D	D1	D2	b-t	Z-φd	H
Z40H Z41Y -16C	Z40 Z41 Y-16P/R/PL/RL	Z40 Z41 W-16P/R/PL/RL	Z40 Z41 Y-16I (KZ41Y)				
15	130	95	65	45	14-2	4-φ14	185
20	150	105	75	55	14-2	4-φ14	200
25	160	115	85	65	14-2	4-φ14	225
32	180	135	100	78	16-2	4-φ18	275
40	200	145	110	85	16-3	4-φ18	295
50	250	160	125	100	16-3	4-φ18	350
65	265	180	145	120	18-3	4-φ18	370
80	280	195	160	135	20-3	8-φ18	390
100	300	215	180	155	20-3	8-φ18	435
125	325	245	210	185	22-3	8-φ18	520
150	350	280	240	210	24-3	8-φ23	610
200	400	335	295	265	26-3	12-φ23	785
250	450	405	355	320	20-3	12-φ25	960
300	500	460	410	375	30-4	12-φ25	1080
350	550	520	470	435	34-4	16-φ25	1200
400	600	580	525	485	36-4	16-φ30	1400
450	650	640	585	545	40-4	20-φ30	1500
500	700	705	650	608	44-4	20-φ34	1630
600	800	840	770	718	48-5	20-φ41	1830
700	900	910	840	788	50-5	24-φ41	1930
800	1000	1020	950	898	52-5	24-φ41	2030
900	1100	1120	1050	998	54-5	28-φ41	2130
1000	1200	1255	1170	1110	56-5	28-φ48	2230

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	L	D	D ₁	D ₂	b-f	z-φd	H
Z40H Z41Y -25C	Z40 Z41 Y-25P/R/PL/RL	Z40 Z41 W-25P/R/PL/RL	Z40 Z41 Y-25I (KZ41Y)				
15	130	95	65	45	16-2	4-φ14	185
20	150	105	75	55	16-2	4-φ14	200
25	160	115	85	65	16-2	4-φ14	225
32	180	135	100	78	18-2	4-φ18	275
40	200	145	110	85	18-3	4-φ18	295
50	250	160	125	100	20-3	4-φ18	350
65	265	180	145	120	22-3	8-φ18	370
80	280	195	160	135	22-3	8-φ18	390
100	300	230	190	160	24-3	8-φ23	435
125	325	270	220	188	28-3	8-φ25	520
150	350	300	250	218	30-3	8-φ25	610
200	400	360	310	278	34-3	12-φ25	785
250	450	425	370	332	36-3	12-φ30	930
300	500	485	430	390	40-4	16-φ30	1080
350	550	550	490	448	44-4	16-φ34	1250
400	600	610	550	505	48-4	16-φ34	1430
450	650	660	600	555	50-4	20-φ34	1520
500	700	730	660	610	52-4	20-φ41	1650
600	800	840	770	718	56-5	20-φ41	1850
700	900	955	875	815	60-5	24-φ48	1950
800	1000	1070	990	930	64-5	24-φ48	2050
900	1100	1180	1090	1025	66-5	28-φ54	2150
1000	1200	1305	1210	1140	68-5	28-φ58	2250

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	L	D	D ₁	D ₂	b-f	z-φd	H
Z40H Z41Y -40C	Z40 Z41 Y-40P/R/PL/RL	Z40 Z41 W-40P/R/PL/RL	Z40 Z41 Y-40I (KZ41Y)				
15	130	95	65	45	16-2	4-φ14	185
20	150	105	75	55	16-2	4-φ14	200
25	160	115	85	65	16-2	4-φ14	225
32	180	135	100	78	18-2	4-φ18	275
40	200	145	110	85	18-3	4-φ18	295
50	250	160	125	100	20-3	4-φ18	350
65	280	180	145	120	22-3	8-φ18	370
80	310	195	160	135	22-3	8-φ18	390
100	350	230	190	160	24-3	8-φ23	435
125	400	270	220	188	28-3	8-φ25	520
150	450	300	250	218	30-3	8-φ25	610
200	550	375	320	282	38-3	12-φ30	970
250	650	445	385	345	42-3	12-φ34	930
300	750	510	450	408	46-4	16-φ34	1080
350	850	570	510	465	52-4	16-φ34	1250
400	950	655	585	535	58-4	16-φ41	1460
450	1050	680	610	560	60-4	20-φ41	1520
500	1150	755	670	612	62-4	20-φ48	1650
600	1350	890	795	730	62-5	20-φ54	1850

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	L	D	D ₁	D ₂	b-f	z-φd	H
Z40H Z41Y -64C	Z40 Z41 Y-64P/R/PL/RL	Z40 Z41 W-64P/R/PL/RL	Z40 Z41 Y-64I (KZ41Y)				
15	170	105	75	55	18-2	4-φ14	185
20	190	125	90	68	20-2	4-φ18	200
25	210	135	100	78	22-2	4-φ18	225
32	230	150	110	82	24-2	4-φ23	380
40	240	165	125	96	24-3	4-φ23	300
50	250	175	135	105	26-3	4-φ23	360
65	280	200	160	130	28-3	8-φ23	385
80	310	210	170	140	30-3	8-φ23	400
100	350	250	200	168	32-3	8-φ25	450
125	400	296	240	202	36-3	8-φ30	540
150	450	340	280	240	38-3	8-φ34	630
200	550	405	345	300	44-3	12-φ34	820
250	650	470	400	352	48-3	12-φ41	960
300	750	530	460	412	54-4	16-φ41	1130
350	850	595	525	475	60-4	16-φ41	1300
400	950	670	585	525	66-4	16-φ48	1450
450	1050	715	630	570	70-4	20-φ48	1550
500	1150	800	705	640	70-4	20-φ54	1680
600	1350	930	820	750	76-5	20-φ58	1900

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	L	D	D ₁	D ₂	b-f	z-φd	H
Z40H Z41Y -100C	Z40 Z41 Y-100P/R/PL/RL	Z40 Z41 W-100P/R/PL/RL	Z40 Z41 Y-100I (KZ41Y)				
15	170	105	75	55	20-2	4-φ14	185
20	190	125	90	68	22-2	4-φ18	200
25	210	135	100	78	24-2	4-φ18	225
32	230	150	110	82	24-2	4-φ23	280
40	240	165	125	95	26-3	4-φ23	300
50	250	196	145	112	28-3	4-φ25	360
65	280	220	170	138	32-3	8-φ25	385
80	310	230	180	148	34-3	8-φ25	400
100	350	265	210	172	38-3	8-φ30	450
125	400	310	250	210	42-3	8-φ34	450
150	450	350	290	250	46-3	12-φ34	630
200	550	430	360	312	54-3	12-φ41	820
250	650	500	430	382	60-3	12-φ41	960
300	750	585	500	442	70-4	16-φ48	1130
350	850	655	560	498	46-4	16-φ54	1300
400	950	715	620	558	80-4	16-φ54	1450
450	1050	770	675	615	84-4	16-φ58	1550
500	1150	870	760	690	90-5	20-φ58	1880

◆ 用途 Use

电动楔式闸阀是一种做直线运动的阀门，它与Z型多回转执行机构相配，有开关型和智能型。此阀门操作简单是一种最常见的启闭阀，它利用闸板的上下工作来接通和关闭管道中的流体介质。广泛用于电力、冶金、石油、化工、造纸、污水处理等行业。

Electric wedge gate valve is a kind of linear motion of the valve, it has to do with Z type rotary actuators are more suitable, had an "on/off" switch and intelligent. This valve is simple is one of the most common opening and closing valve that uses disc and work to get through and shut off fluid medium in the pipeline. Widely used in electric power, metallurgy, petroleum, chemical industry, paper making, sewage treatment and other industries.

◆ 特点 Characteristics

- 1、流体阻力小，密封面受介质的冲刷和侵蚀小；
 - 2、开启轻便，密封性能好，介质流向不受限制，不扰流，不降压力；
 - 3、形体简单，制造工艺性好，适用范围广。
- 1.Low fluid resistance, little scouring and erosion on sealing surface;
 2.Good sealing performance, the medium flow direction is not restricted, not disturbed, and the pressure drop is small;
 3. The shape is simple, the manufacturing technology is good, and the scope of application is wide.

◆ 执行标准 Standards Adopted

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
	GB/T12234	GB/T12221	JB/T 79 GB/T9113 HG/T20592	GB/T 13927 JB/T9092	GB/T 12224

◆ 性能规范 Performance Specification

1、试验压力 Test pressure

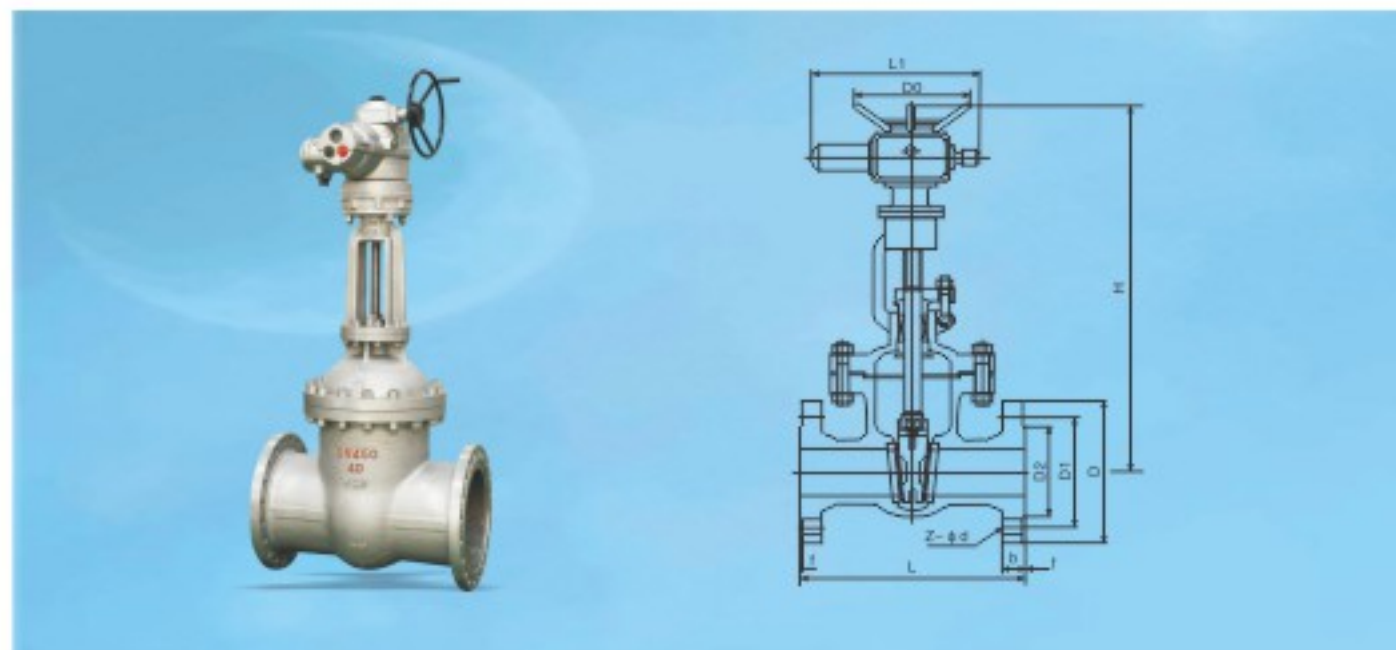
公称压力PN(MPa) Nominal Pressure	壳体 Shell	试验压力(MPa) Test pressure		上密封 Back seat
		密封(液)Liquid Seal	密封(气)Gas Seal	
1.6	2.4	1.8	0.6	1.8
2.5	3.8	2.8	0.6	2.8
4.0	6.0	4.4	0.6	4.4
6.4	9.6	7.1	0.6	7.1
10.0	15.0	11.0	0.6	11.0
16.0	24.0	18.0	0.6	18.0

2、适用介质及适用温度 Applicable media & Applicable temperature

壳体材料 Shell material	适用介质 Applicable media	适用温度℃ Applicable temperature
碳素钢(C型) Carbonizing steel (C type)	水、蒸汽、油品 Water, steam, oil	≤425
铬镍钢(P型) Cr.Ni, steel (P type)	硝酸类 Nitric acid	≤200
铬镍钼钢(R型) Cr.Ni.Mo, steel (R type)	醋酸类 Acetic acid	≤200
铬钼钢(I型) Cr.Mo steel (I type)	水、蒸汽、油品 Water, steam, oil	≤550

◆ 主要零件材料 Main Part Materials

阀体/阀盖 Body, bonnet	闸板/闸座 Disc, seat	阀杆 Stem	阀杆螺母 Stem nut	填料 Packing	手轮 Handwheel
碳素钢 Carbon steel	优质碳钢+硬质合金或不锈钢 High-grade carbon steel+ carbide alloy or stainless steel	铬不锈钢 Cr.stainless steel	铜合金 Copper alloy	柔性石墨 Flexible graphite	可锻铸铁 Malleable iron
铬镍钢 Cr.Ni, steel	不锈钢、不锈钢+硬质合金 Stainless steel or+carbide alloy	铬镍不锈钢 Cr.Ni. stainless steel	铜合金 Copper alloy	聚四氟乙烯 PTFE	可锻铸铁 Malleable iron
铬镍钼钢 Cr.Ni.Mo, steel	不锈钢、不锈钢+硬质合金 Stainless steel or+carbide alloy	铬镍钼不锈钢 Cr.Ni. stainless steel	铜合金 Copper alloy	聚四氟乙烯 PTFE	可锻铸铁 Malleable iron
铬钼钢 Cr.Mo steel	合金钢+硬质合金 Alloy steel+carbide alloy	铬钼钢 Cr.Mo steel	铜合金 Copper alloy	柔性石墨 Flexible graphite	可锻铸铁 Malleable iron



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	L	D	D1	D2	b	t	Z-φd	H	电动装置 Electric device	WT (Kg)
Z940H Z941Y -16C		Z940 Z941 Y-16P/R/PL/RL		Z940 Z941 W-16P/R/PL/RL		Z940 Z941 Y-16I				
40	200	145	110	85	16	3	4-18	595	DZW15	53
50	250	160	125	100	16	3	4-18	653	DZW20	59
65	265	180	145	120	18	3	4-18	665	DZW20	62
80	280	195	160	135	18	3	8-18	725	DZW20	74
100	300	215	180	155	20	3	8-18	787	DZW20	92
150	350	280	240	210	24	3	8-23	955	DZW30	161
200	400	335	295	265	26	3	12-23	1105	DZW30	219
250	450	405	355	320	30	3	12-25	1343	DZW45	376
300	500	460	410	375	30	3	12-25	1516	DZW60	484
350	550	520	470	435	34	4	16-25	1678	DZW60	695
400	600	580	525	485	36	4	16-30	1849	DZW90	977
450	650	640	585	545	40	4	20-30	1937	DZW90	1033
500	700	705	650	608	44	4	20-34	2234	DZW120	1087
600	800	840	770	718	48	5	20-41	2432	DZW180	1357
700	900	910	840	788	50	5	24-41	2489	DZW250	1481
800	1000	1020	950	898	52	5	24-41	2643	DZW350	1845

注：DN700、DN800的型号为Z942型。 Note: DN700, DN800 type is Z942.

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	L	D	D ₁	D ₂	b	f	Z-φd	H	电动装置 Electric device	WT(Kg)
Z940H Z941Y-25C		Z940 Z941 Y-25P/R/PL/RL			Z940 Z941 W-25P/R/PL/RL			Z940 Z941 Y-25I		
40	200	145	110	85	18	3	4-18	595	DZW15	60
50	250	160	125	100	20	3	4-18	653	DZW20	64
65	265	180	145	120	22	3	4-18	665	DZW20	65
80	280	195	160	135	22	3	8-18	725	DZW20	79
100	300	230	190	160	24	3	8-23	787	DZW20	98
125	325	270	220	188	28	3	8-25	902	DZW30	154
150	350	300	250	218	30	3	8-25	955	DZW30	168
200	400	360	310	278	34	3	12-25	1105	DZW45	219
250	450	425	370	332	36	3	12-30	1343	DZW45	390
300	500	485	430	390	40	4	16-30	1516	DZW60	505
350	550	550	490	448	44	4	16-34	1678	DZW60	736
400	600	610	550	505	48	4	16-34	1849	DZW90	1027
450	650	660	600	555	50	4	16-34	1937	DZW90	1139
500	700	730	660	610	52	4	20-34	2234	DZW120	1228
600	800	840	770	718	56	5	20-41	2432	DZW180	1502
700	900	955	875	815	60	5	20-41	2489	DZW250	1617
800	1000	1070	990	930	64	5	24-48	2643	DZW350	1923

注: DN700、DN800的型号为Z942型。 Notice: DN700, DN800 type is Z942.

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	L	D	D ₁	D ₂	D ₆	b	Z-φd	f	f ₂	H	电动装置 Electric device	WT (Kg)
Z940H Z941Y-40C		Z940 Z941 Y-40P/R/PL/RL			Z940 Z941 W-40P/R/PL/RL			Z940 Z941 Y-40I				
40	200	145	110	85	76	18	4-18	3	4	617	DZW15	62
50	250	160	125	100	88	20	4-18	3	4	665	DZW20	66
65	280	180	145	120	110	22	8-18	3	4	680	DZW20	68
80	310	195	160	135	121	22	8-18	3	4	752	DZW20	80
100	350	230	190	160	150	24	8-23	3	4.5	846	DZW30	108
150	450	300	250	218	204	30	8-25	3	4.5	1087	DZW45	258
200	550	375	320	282	260	38	12-30	3	4.5	1243	DZW45	366
250	650	445	385	345	313	42	12-34	3	4.5	1429	DZW60	472
300	750	510	450	408	364	46	16-34	4	4.5	1608	DZW90	673
350	850	570	510	465	422	52	16-34	4	5	1738	DZW90	804
400	950	655	585	535	474	58	16-41	4	5	1897	DZW120	1081
450	1050	680	610	560	524	60	20-41	4	5	2104	DZW120	1259
500	1150	755	670	612	576	62	20-48	4	5	2401	DZW180	1348

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	L	D	D ₁	D ₂	D ₆	b	Z-φd	f	f ₂	H	电动装置 Electric device	WT (Kg)
Z940H Z941Y-64C		Z940H Z941Y-64P/R/PL/RL			Z940 Z941 W-64P/R/PL/RL			Z940 Z941 Y-64I				
50	250	175	135	105	88	26	4-23	3	4	667	DZW20	68
65	280	200	160	130	110	28	8-23	3	4	685	DZW20	72
80	310	210	170	140	121	30	8-23	3	4	748	DZW30	88
100	350	250	200	168	150	32	8-25	3	4.5	845	DZW30	117
150	450	340	280	240	204	38	8-34	3	4.5	1009	DZW45	314
200	550	405	345	300	260	44	12-34	3	4.5	1253	DZW60	432
250	650	470	400	345	313	48	12-41	3	4.5	1449	DZW60	595
300	750	530	460	412	361	54	16-41	4	4.5	1867	DZW90	721
350	850	595	525	475	422	60	16-41	4	5	1931	DZW120	863
400	950	670	585	525	474	66	16-48	4	5	2017	DZW180	1129
500	1150	800	705	640	576	70	20-54	4	5	2459	DZW250	1493
Z940H Z941Y-100C		Z940 Z941 Y-100P/R/PL/RL			Z940 Z941 W-100P/R/PL/RL			Z940 Z941 Y-100I				
50	250	195	145	112	88	28	4-25	3	4	781	DZW20	78
65	280	220	170	138	110	32	8-25	3	4	830	DZW20	96
80	310	230	180	148	121	34	8-25	3	4	865	DZW30	126
100	350	265	210	172	150	38	8-30	3	4.5	1179	DZW30	134
150	450	350	290	250	204	46	12-34	3	4.5	1201	DZW60	352
200	550	430	360	312	260	54	12-41	3	4.5	1611	DZW90	484
250	650	500	430	382	313	60	12-41	3	4.5	1903	DZW90	608
300	750	585	500	442	364	70	16-48	4	4.5	2054	DZW120	757
350	850	655	560	498	422	76	16-54	4	5	2132	DZW180	994
400	950	715	620	558	474	80	16-54	4	5	2321	DZW250	1269
Z940H Z941Y-160C		Z940 Z941 Y-160P/R/PL/RL			Z940 Z941 W-160P/R/PL/RL			Z940 Z941 Y-160I				
50	300	215	165	132	88	36	8-25	3	4	905	DZW20	101
65	340	245	190	152	110	44	8-30	3	4	968	DZW20	137
80	390	260	205	168	121	46	8-30	3	4	978	DZW30	167
100	450	300	240	200	150	48	8-34	3	4.5	1043	DZW30	211
125	525	355	285	238	176	60	8-41	3	4.5	1248	DZW60	424
150	600	390	318	270	204	66	12-41	3	4.5	1394	DZW90	588
200	750	480	400	345	260	78	12-48	3	4.5	1621	DZW120	839

◆ 用途 Use

电动对焊闸阀广泛应用于石油、化工、冶金、火力发电厂等行业中，主要使用在高温导热油或高温蒸汽中。电源电压：380V、660V、415V、220V、110V。电动执行器有：普通型、整体型、智能型、防爆型。

Electric welded gate valve is widely used in petroleum, chemical industry, metallurgy, power plant, etc, mainly used in the high temperature heat conduction oil or high temperature steam. Power supply voltage: 380V, 660V, 415V, 220V, 110V, electric actuators are: Ordinary type, integrated type, intelligent type, explosion-proof type.

◆ 特点 Characteristics

- 1、高温高压电站闸阀采用先进直通等径直通结构，极大降低了流阻系数与能量的损耗，显著提高了阀门使用寿命和性能；
 - 2、阀门中腔采用压力自紧式密封结构，密封性能好。支管两端为焊接结构；
 - 3、启闭件的结构可根据用户要求设计成单板、双板、平行双板等不同形式；
 - 4、电动闸阀的开启和关闭由电动装置来控制，电动装置分别配有专用电机、减速器、转矩控制机构，现场操作机构，手动、电动切换机构，除就地操作外，还可进行远距离操作。
1. High temperature and high pressure power station valve adopts advanced port straight through such as structure, greatly reduce the flow resistance coefficient and energy loss, improve the service life of the valve, and performance;
2. Using pressure self-tightening seal structure, good sealing performance. For welding structures on both ends;
3. Obturator's part structure according to user requirements designed to single, double plate, the different forms such as parallel double plate;
4. Electric gate valve opening and closing control by electric actuator, electric actuator, respectively, with special motor, reducer, torque control, site operation, manual, electric switch Institutions, in addition to on-site operation, it can also be remotely controlled.

◆ 执行标准 Standards Adopted

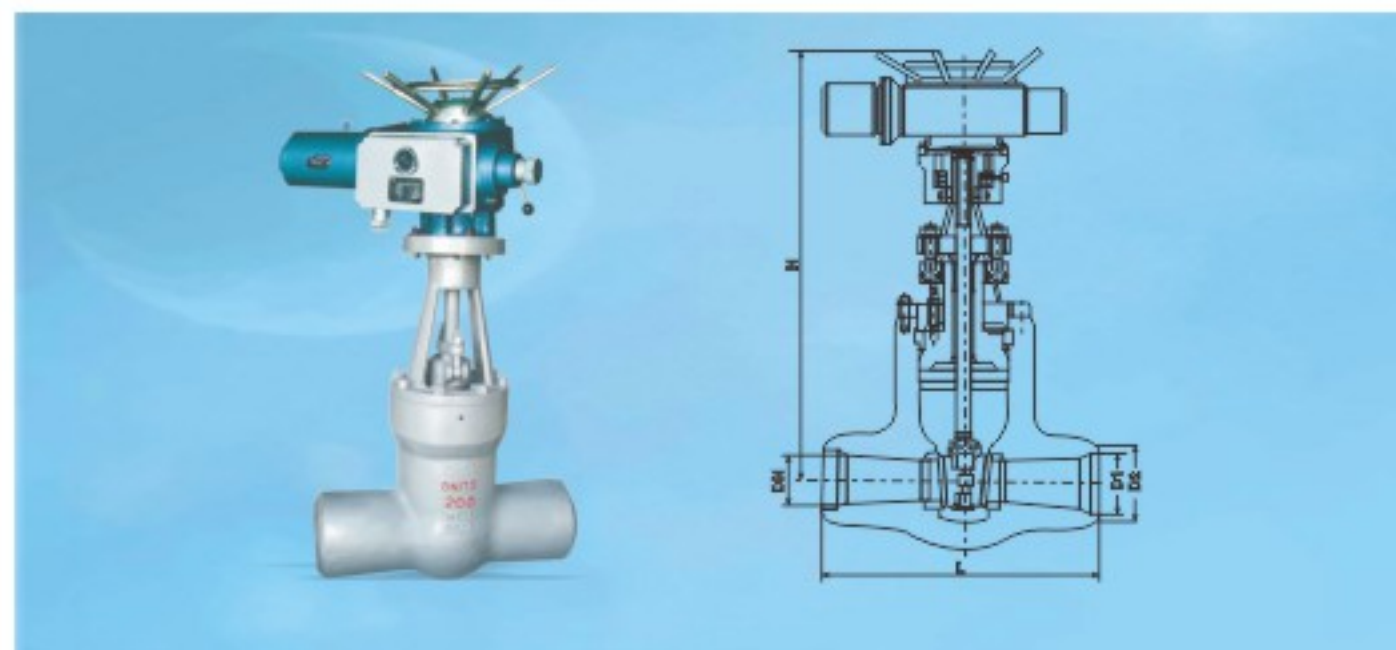
产品规范 Product specification	设计规范 Design spec	结构长度 Face to face	焊接接口 Welding groove	试验与检验 Test & check	压力-温度 Pressure-temp
	NB/T 47044	GB/T12221 GB/T 15188.1	NB/T 47044	NB/T 47044	NB/T 47044

◆ 性能规范 Performance Specification

产品型号 Product model	公称压力PN(MPa) Nominal pressure	试验压力(MPa)Test pressure		工作压力(MPa) Working pressure	工作温度(°C) Working temperature	适用介质 Applicable medium
		强度试验 Shell test	密封试验/上密封 试验 Seal test			
Z96 $\frac{1}{2}$ Y-250	25	37.5	27.5	-	≤425	水、蒸汽 Water, steam
Z96 $\frac{1}{2}$ Y-320	32	48.0	36.0	-	≤425	
Z96 $\frac{1}{2}$ Y-Ps4100	-	30.0	12.5	Ps410	≤540	蒸汽 Steam
Z96 $\frac{1}{2}$ Y-Ps4170	-	48.0	21.3	Ps417	≤540	

◆ 主要零件材料 Main Part Materials

零件名称 Part name	材料牌号 Material designation		
阀体 Body	WCB	WC6	WC9
阀板 Disc	WCB	WC6	WC9
阀盖 Bonnet	A105	12Cr1MoVA	
阀杆 Stem	1Cr17Ni2	25Cr2MoVA	
阀座 Seat	A105	12Cr1MoVA	
密封环 Sealing ring	S软钢(增强柔性石墨) S soft steel(flexible graphite)	S软钢 S Soft steel	F软钢 F Soft steel
填料 Packing	增强柔性石墨 Flexible graphite		
支架 Bracket	WCB或 WC6		
阀杆螺母 Stem nut	45(ZCuZn25a16Fe3Mn3)、ZQA19-4		
四开环 Four piece ring	1Cr13		



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

型号 Model	DN(mm)	L	D ₁	D ₂	WT (kg)
Z962H-200 Z960Y-200 Z962Y-Ps4100V Z960Y-Ps4100V	50	280	50	78	42
	65	350	68	93	53
	80	480	83	110	130
	100	525	108	145	180
	125	600	129	172	190
	150	650	164	200	420
	175	750	186	223	526
	200	800	200	262	550
	225	850	233	282	595
	250	950	275	325	1210
Z962H-250 Z960Y-250 Z962Y-Ps4140V Z960Y-Ps4140V	300	1200	312	380	2100
	150	700	150	200	420
	175	750	176	223	530
	200	800	200	262	560
	225	850	220	282	600
Z960Y-320 Z960Y-Ps7170V	250	950	265	325	1220
	300	1194	305	380	2120
	150	700	150	200	615
	175	750	170	225	680
	200	800	200	262	695
Z960Y-320 Z960Y-Ps7170V	225	850	207	283	700
	250	950	250	325	1460
	300	1245	265	377	2650

◆ 用途 Use

磅级电站闸阀适用于Class1500~4500Lb、工作温度-29~570℃的石油、化工、火力电站等各种工况的管路上切断或接通介质。
 ANSI Pressure class power station valve suitable for class1500~4500 Lb, working temperature -29~570 °C under various working conditions such as petroleum, chemical industry, power plant piping cut off or connect medium.

◆ 特点 Characteristics

- 1、高温高压磅级电站闸阀采用先进流道等径直通结构，极大降低了流阻系数与能量的损耗，显著提高了阀门使用寿命和性能；
 - 2、阀门中腔采用压力自紧式密封结构，密封性能好。支管两端为焊接结构；
 - 3、闸板与闸座密封面采用司太立钴基硬质合金堆焊而成，耐磨、耐高温、耐腐蚀、抗冲刷性能好；
 - 4、磅级高温高压电站闸阀的阀杆经调质和表面氮化处理，具有良好的抗腐蚀性和抗冲刷性；
 - 5、启闭件的结构可根据用户要求设计成单板、双板、平行双板等不同形式；
 - 6、电动闸阀的开启和关闭由电动装置来控制，电动装置分别配有专用电机、减速机、转矩控制机构，现场操作机构，手动、电动切换机构。除就地操作外，还可进行远距离操作。
1. The high temperature and high pressure power station valve adopts advanced port straight through such as structure, greatly reduce the flow resistance coefficient and energy loss, improve the service life of the valve, and performance;
 2. Valve lumen uses pressure self-tightening seal structure, good sealing performance. For welding structures on both ends of the tube;
 3. The disc and seat sealing surface using department too vertical cobalt-based hard alloy surfacing and become, wear-resisting, high temperature resistance, good corrosion resistance, abrasion resistance;
 4. The high temperature and high pressure power station valve stem by conditioning and surface nitriding treatment, has good corrosion resistance and abrasion resistance;
 5. The structure of the open-close part can design according to user requirements into a single, double plate, the different forms such as parallel double plate;
 6. Electric gate valve opening and closing control by electric actuator, electric actuator, respectively, with special motor, reducer, torque control, site operation, manual, electric switch machine Structure. In addition to on-site operation, remote operation can be performed.

◆ 执行标准 Standards Adopted

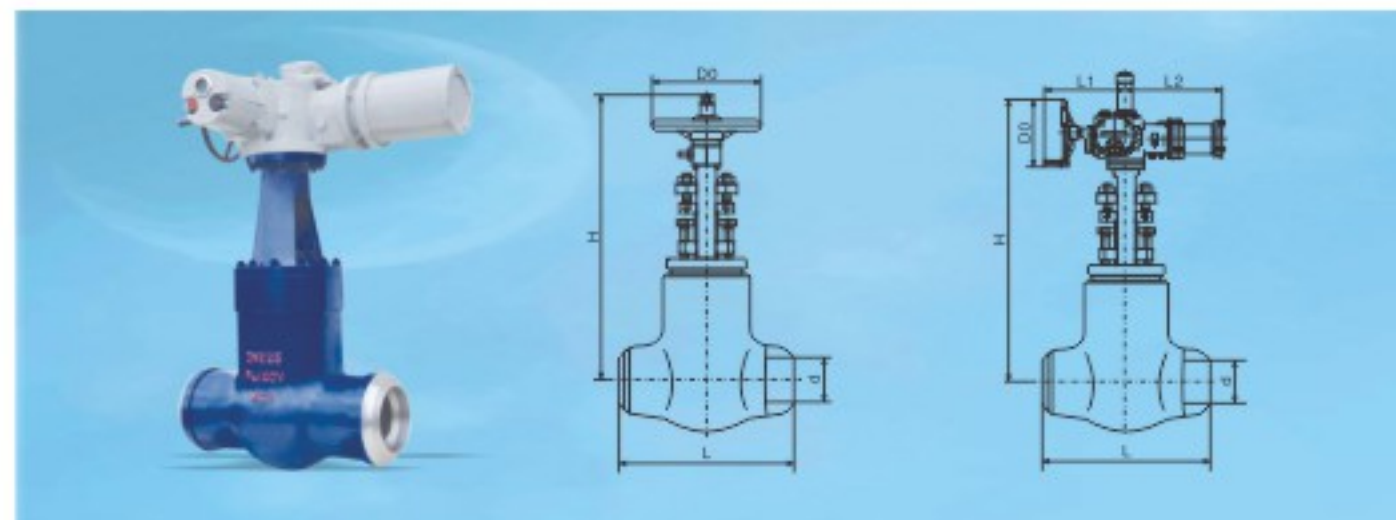
产品规范 Product specification	设计规范 Design spec	结构长度 Face to face	焊接坡口 Welding groove	试验与检验 Test & check	压力-温度 Pressure-temp
	NB/T 47044	JB/T 2768 GB/T 15188.1 E101	NB/T 47044 GB/T 12224	NB/T 47044 E101	NB/T 47044

◆ 性能规范 Performance Specification

壳体材料 Shell material	适用温度℃ Applicable temperature	适用介质 Applicable medium
ASTM A216 WCB	≤425	蒸汽、水 Steam, water
ASTM A217 WC1	≤450	蒸汽、水 Steam, water
ASTM A217 WC6	≤550	蒸汽、水 Steam, water
ASTM A217 WC9	≤590	蒸汽、水 Steam, water

◆ 主要零件材料 Main Part Materials

零件名称 Part name	材料牌号 Material designation			
阀体 Body	WCB	WC1	WC6	WC9
闸板 Disc	WCB	WC1	WC6	WC9
闸盖 Bonnet	A105 WCB	15Cr1Mo1VA WC1	12Cr1Mo1VA WC6	12Cr1Mo1VA WC9
闸座 Seat	A105	15Cr1Mo1VA	12Cr1Mo1VA	20Cr1Mo1VA
阀杆 Stem	1Cr17Ni2	1Cr17Ni2	SUH600 20Cr1Mo1V1A	SUH600 20Cr1Mo1V1A
填料 Packing	增强柔性石墨 Flexible graphite			
支架 Bracket	WCB	WCB WC1	WCB WC6	WCB WC9
密封环 Sealing ring	S软钢(增强柔性石墨) S soft steel(Flexible graphite)		S软钢 S soft steel	F软钢 F soft steel
阀杆螺母 Stem nut	45(ZCuZn25A16Fe3Mn3)			



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

NPS (in)	d	L	H	D0	L1	L2	电动装置 Electric device	WT (Kg)
Z960Y-1500Lb								
2 1/2	54	254	520	200	140	243	SMC-04	93
3	64	305	523	508	140	243	SMC-04	110
4	84	406	599	508	198	281	SMC-03	168
			599	305	400	555	SMC-00	208
5	103	483	678	508	198	565	SMC-03	189
			678	305	400	654	SMC-00	232
6	126	559	793	305	410	565	SMC-0	358
			793	305	420	654	SMC-1	444
8	160	711	813	305	410	668	SMC-0	517
			813	305	420	654	SMC-1	561
10	199	864	998	457	440	654	SMC-2	852
			998	305	420	688	SMC-1	823
12	247	991	1141	305	420		SMC-1	1122
			1156	457	440		SMC-2	1150
14	280	1087	1249	610	690		SMC-3	1760
16	318	1194	1351	610	690		SMC-3	2429
18	360	1346	1535	610	690		SMC-3	2454
			1540	610	715		SMC-4	2524
20	406	1473	1726	610	690		SMC-3	3334
			1731	610	715		SMC-4	3380
22	450	1600	1921	610	690		SMC-3	4409
			1926	610	715		SMC-4	4648
Z960Y-2000Lb								
2 1/2	50	330	540	200	140	243	SMC-04	202
3	60	368	558	508	198	332	SMC-03	149
4	80	457	654	305	400	555	SMC-00	245
5	96	533	780	305	400	555	SMC-0	323
			780	305	410	565	SMC-0	280
6	118	610	830	305	410	565	SMC-0	419
8	148	762	960	305	410	565	SMC-0	626
			960	305	420	654	SMC-1	715
10	180	914	1020	305	420	654	SMC-1	1020
			1024	457	440	688	SMC-2	1050
12	222	1041	1150	457	440	688	SMC-2	1320
			1166	610	690		SMC-3	1358
14	254	1118	1230	457	440	688	SMC-2	1810
			1240	610	690		SMC-3	1840
16	294	1245	1330	610	690		SMC-3	2270
			1350	610	715		SMC-4	2300

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

NPS(in)	d	L	H	Do	L1	L2	电动装置 Electric device	WT(Kg)
Z960Y-2500Lb								
2 1/2	46	330	533 533	508 200	198 140	332 243	SMC-03 SMC-04	143 116
3	54	368	549 549	508 200	198 140	332 243	SMC-03 SMC-04	160 134
4	70	457	653 644	508 305	198 140	332 565	SMC-03 SMC-0	251 294
5	86	533	760 774	305 305	400 400	555 565	SMC-00 SMC-0	324 341
6	104	610	850 861	305 305	400 410	555 565	SMC-00 SMC-0	479 564
8	130	762	847 860	305 305	410 420	565 654	SMC-0 SMC-1	725 750
10	162	814	1031 1050	305 610	420 690	654	SMC-1 SMC-3	1152 1220
12	210	1041	1125 1149	457 610	440 690	688	SMC-2 SMC-3	1520 1558
14	234	1118	1221	610	690	-	SMC-3	1869
16	264	1245	1390 1395	610 610	690 715	-	SMC-3 SMC-4	2826 3084
Z960Y-3500Lb								
3	44	440	620 620	508 305	198 400	332 555	SMC-03 SMC-00	269 305
4	56	540	721 730	305 305	400 410	555 565	SMC-00 SMC-0	398 437
5	74	616	796 796	305 305	410 420	565 654	SMC-0 SMC-1	507 592
6	88	692	857 857	305 305	410 420	565 654	SMC-0 SMC-1	605 691
8	116	846	1041 1051	305 457	420 440	654 688	SMC-1 SMC-2	1088 1179
10	142	1000	1197 1207	457 610	440 690	688	SMC-2 SMC-2	1700 2031
12	174	1124	1338	610	690	-	SMC-3	2708
14	196	1229	1455 1440	610 610	715 690	-	SMC-4 SMC-3	3180 3131
18	252	1499	1915	610	715	-	SMC-4	4560

◆ 用途 Use

美标铸钢闸阀广泛适用于石油、化工、电厂、油品、水蒸气等管路上，作为接通或截断管路中介质的启闭装置。
 American Standard cast steel gate is widely used in petroleum, chemical industry, power plants, oil, steam, etc., on the pipeline as connected or truncated the medium inside the pipe opening and closing device.

◆ 特点 Characteristics

- 1、产品设计制造符合国外先进标准要求，密封可靠，性能优良；
 - 2、结构设计紧凑合理，造型美观；
 - 3、采用楔式弹性闸板结构，中大口径设置滚动轴承，启闭轻松；
 - 4、阀体材料品种齐全，填料、垫片根据实际工况或用户要求合理选配，可适用于各种压力、温度及介质工况。
1. The product design and manufacture conform to the requirements of the advanced foreign standards, reliable sealing, good performance;
 2. Compact and reasonable structure design, beautiful shape;
 3. Adopting the wedge gate structure, large diameter set the rolling bearing, easy opening and closing;
 4. The valve body materials, variety complete, packing and gasket reasonable selection according to actual working condition or the user requirements, can be applied to all kinds of pressure, temperature and medium conditions.

◆ 执行标准 Standards Adopted

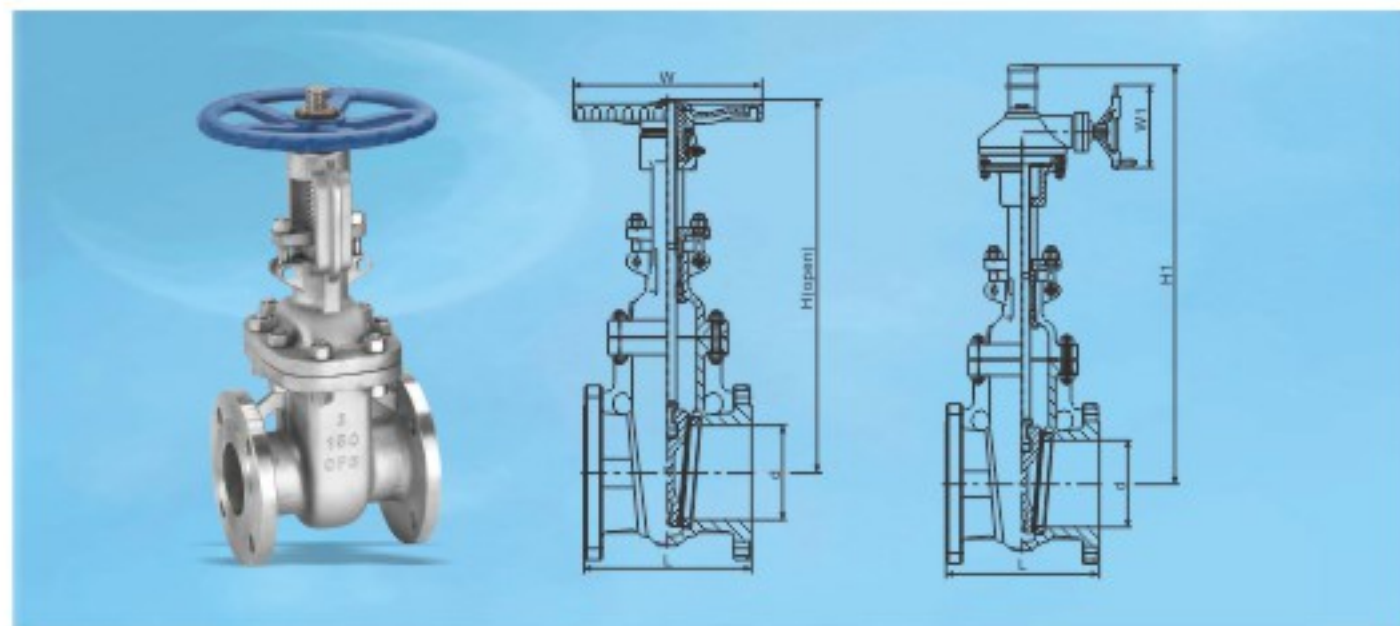
设计与制造 Design and manufacture	结构长度 Face to face	法兰尺寸 Flange dimension	对焊连接尺寸 Butt welding dimension	压力-温度 Pressure temperature rating	试验-检验 Inspection and test
API 6D, 600	ANSI B16.10	ANSI B16.5	ANSI B16.25	ANSI B16.34	API 598, API 6D

◆ 性能规范 Performance Specification

公称压力(Lb) ANSI Pressure Class	强度试验 Shell Test		水密封试验 Water seal test		气密封试验 Air seal test	
	MPa	Lbf/in ²	MPa	Lbf/in ²	MPa	Lbf/in ²
150	3.1	450	2.2	315	0.5~0.7	60~100
300	7.8	1125	5.6	815		
600	15.3	2225	11.2	1630		
900	23.1	3350	16.8	2440		
1500	38.4	5575	28.1	4080		
2500	64.0	9367	46.8	6873		

◆ 主要零件材料 Main Part Materials

阀体/阀盖/阀瓣 Body,bonnet,disc	阀杆 Stem	密封面 Sealing face	垫片(环) Sealing shim	填料 Packing	工作温度(℃) Working temperature	适用介质 Application medium
WCB	2Cr13	13Cr STL 本体材料 Body material	增强柔性石墨 Reinforced flexible graphite 13Cr 柔性石墨 Flexible graphite SFB-2 08 软钢 Soft steel	柔性石墨 增强柔性石墨 Flexible graphite enhanced flexible graphite SFB/260 SFP/260 PTFE	≤425	水、蒸汽、油品 Water, steam, oil
WC1	38CrMoAl 25Cr2MnV				≤450	
WC6					≤540	
WC9					≤570	
C5 C12					≤540	
CF8	F304	PTFE	F304	graphite	≤600	硝酸、醋酸、尿素 Nitric acid, acetic acid, urea
CF3	F304L	尼龙 Nylon	F316	SFB/260		
CF8M	F316		F304L	SFP/260		
CF3M	F316L		F316L	PTFE		



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

(Class 150)

磅级 Class	NPS (in)	DN (mm)	L			d	H	H ₁	W	W ₁	WT (kg)	
			RF	RTJ	BW						手轮 Handwheel	传动装置 Gear box
Class 150	1/2	15	108	119	108	13	195	-	120	-	4	-
	3/4	20	117	130	117	19	210	-	120	-	5	-
	1	25	127	140	127	25	240	-	140	-	7	-
	1 1/4	32	140	153	140	32	300	-	180	-	10	-
	1 1/2	40	165	178	165	38	395	-	200	-	14	-
	2	50	178	191	216	51	400	-	200	-	19	-
	2 1/2	65	190	203	241	64	435	-	200	-	25	-
	3	80	203	216	282	76	515	-	250	-	33	-
	4	100	229	242	305	102	595	-	280	-	49	-
	5	125	254	267	381	127	725	-	280	-	62	-
	6	150	267	280	403	152	780	820	300	310	77	104
	8	200	292	305	419	203	975	1020	350	310	123	150
	10	250	330	343	457	254	1150	1200	400	310	188	215
	12	300	356	369	502	305	1380	1430	450	310	288	315
	14	350	381	394	572	337	1545	1580	500	310	385	435
	16	400	406	419	610	387	1733	1780	500	460	500	552
	18	450	432	445	660	438	1915	1990	500	460	601	653
	20	500	457	470	711	489	2122	2220	600	460	764	816
	24	600	508	521	813	591	2520	2600	600	460	1007	1185
Class 300	26	650	559	-	864	633	-	2800	-	600	-	1550
	28	700	610	-	914	684	-	3050	-	600	-	1880
	30	750	610	-	914	735	-	3130	-	600	-	2300
	32	800	711	-	965	779	-	3280	-	600	-	2550
	34	850	762	-	1016	830	-	3500	-	600	-	2950
	36	900	711	-	1016	874	-	3720	-	600	-	3390

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

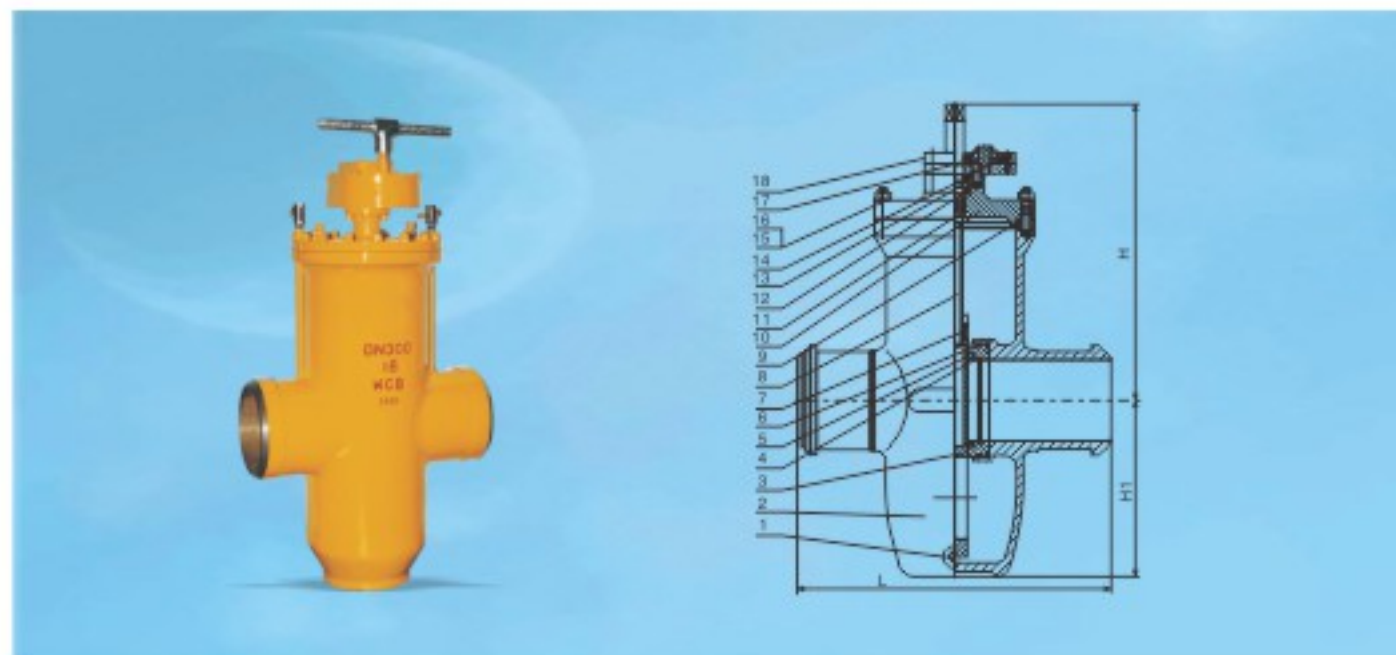
(Class 300 & Class 600)

磅级 Class	NPS (in)	DN (mm)	L			d	H	H ₁	W	W ₁	WT (kg)	
			RF	RTJ	BW						手轮 Handwheel	传动装置 Gear box
Class 300	1/2	15	140	151	140	13	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	-
	2	50	216	232	216	51	420	-	200	-	25	-
	2 1/2	65	241	257	241	64	446	-	200	-	30	-
	3	80	282	298	282	76	537	-	250	-	48	-
	4	100	305	321	305	102	619	650	280	310	73	100
	5	125	381	397	381	127	722	750	300	310	99	126
	6	150	403	419	403	152	806	835	350	310	130	186
	8	200	419	435	419	203	1000	1030	400	310	208	235
	10	250	457	473	457	254	1240	1280	450	310	334	386
	12	300	502	518	502	305	1425	1460	500	310	450	502
	14	350	762	778	762	337	1585	1620	600	460	704	756
	16	400	838	854	838	387	1790	1830	500	460	923	965
	18	450	914	930	914	438	1960	2000	650	460	1131	1224
	20	500	991	1010	991	479	2158	2220	750	460	1345	1400
	24	600	1143	1165	1143	589	2576	2620	900	600	2122	2385
	26	650	1245	1270	1245	635	-	2850	-	600	-	3000
	28	700	1346	1371	1346	686	-	3080	-	600	-	3300
	30	750	1397	1422	1397	737	-	3180	-	600	-	3550
	32	800	1524	1552	1524	779	-	3300	-	600	-	4400
	34	850	1626	1654	1626	830	-	3550	-	600	-	5200
	36	900	1727	1755	1727	874	-	3760	-	600	-	6050
Class 600	2	50	292	295	292	51	444	-	200	-	32	-
	2 1/2	65	330	333	330	64	500	-	250	-	52	-
	3	80	356	359	356	76	558	585	280	310	60	87
	4	100	432	435	432	102	665	695	300	310	107	134
	5	125	508	511	508	127	760	790	350	310	175	227
	6	150	559	562	559	152	868	900	450	310	216	268
	8	200	660	663	660	200	1073	1110	500	310	399	451
	10	250	787	790	787	248	1263	1300	650	460	605	657
	12	300	838	841	838	298	1600	1650	700	460	851	893
	14	350	889	892	889	327	1705	1750	900	460	1177	1232
	16	400	991	994	991	375	1835	1900	900	460	1513	1568
	18	450	1092	1095	1092	419	-	2020	-	600	-	1980
	20	500	1194	1200	1194	464	-	2172	-	600	-	2460
	24	600	1397	1407	1397	559	-	2650	-	600	-	3650

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

(Class 900 & Class1500 & Class2500)

磅级 Class	NPS (in)	DN (mm)	L			d	H	H ₁	W	W ₁	WT (kg)	
			RF	RTJ	BW						手轮 Handwheel	传动装置 Gear box
Class900	2	50	368	371	368	47	500	-	280	-	70	-
	2 1/2	65	419	422	419	57	550	-	280	-	110	-
	3	80	381	384	381	73	610	660	300	310	140	167
	4	100	457	460	457	98	702	750	350	310	200	227
	5	125	559	562	559	121	850	900	400	310	258	285
	6	150	610	613	610	146	980	1060	500	460	358	410
	8	200	737	740	737	190	1100	1140	650	460	550	600
	10	250	838	841	838	234	1320	1370	700	460	1000	1100
	12	300	965	968	965	282	1500	1560	900	460	1215	1310
	14	350	1029	1039	1029	311	1900	1950	900	600	1600	1700
Class 1500	2	50	368	371	368	47	510	-	280	-	70	-
	2 1/2	65	419	422	419	57	560	-	300	-	110	-
	3	80	470	473	470	70	620	670	350	310	175	202
	4	100	546	549	546	92	728	770	400	310	270	300
	5	125	673	676	673	111	870	920	450	310	378	405
	6	150	705	711	705	136	1000	1070	500	460	520	575
	8	200	832	842	832	174	1130	1180	750	460	820	915
	10	250	991	1001	991	222	1360	1410	900	600	1560	1750
	12	300	1130	1146	1130	263	-	1620	-	600	-	2120
	14	350	1257	1276	1257	289	-	2020	-	600	-	2600
Class 2500	2	50	451	454	451	35	530	580	280	310	100	130
	2 1/2	65	508	514	508	47	580	630	300	310	150	180
	3	80	578	584	578	57	650	700	350	310	245	275
	4	100	673	683	673	73	750	800	400	310	390	420
	5	125	794	807	794	92	900	960	500	460	550	580
	6	150	914	927	914	111	1040	1100	600	460	780	835
	8	200	1022	1038	1022	146	1150	1200	750	460	1260	1355
	10	250	1270	1292	1270	184	1400	1460	900	600	2380	2565
	12	300	1422	1444	1422	219	-	1660	-	600	-	3250



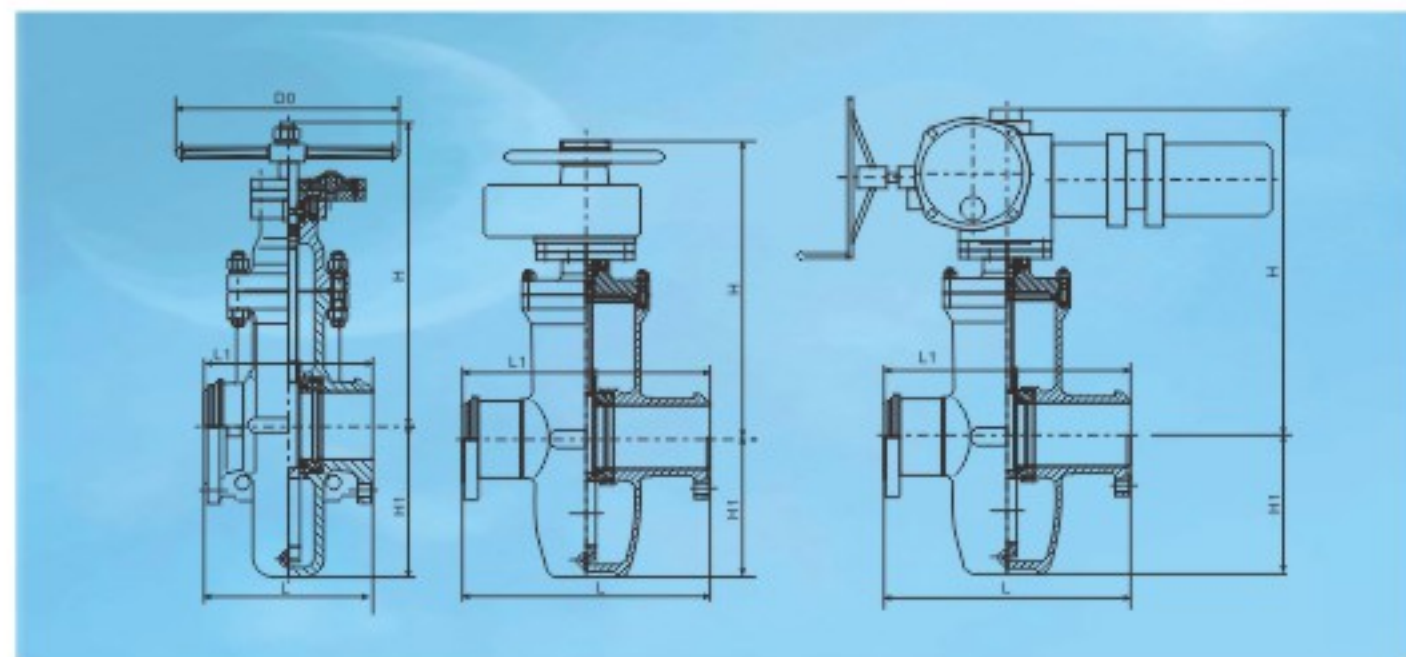
◆ 执行标准 Perform Standard

设计依据 Design basis	设计标准 Design criteria	结构长度 Face to face		连接法兰 Connecting flange	对焊端 Butt welding end	试验和检验 Test and inspection
		法兰 Flange	焊接 Welding			
GB	JB/T5298	GB/T 12221 JB/T5298	GB/T 15188.1	GB/T9113 JB/T 79	GB/T 12224	JB/T 9092
API	API 6D ASME B16.34	API 6D ASME B16.10		ASME B16.5 MSS SP44	ASME B16.25	API6D API598

注：阀门连接法兰尺寸可根据用户要求设计制造。
Note: The valve connecting flange size can be designed and manufactured according to user requirements

◆ 主要零件材料 Main Part Material

序号 No.	零件名称 Part name	材料 Material	序号 No.	零件名称 Part name	材料 Material
		GB			GB
1	排污堵头 Drainplug	25	10	阀盖 Bonnet	WCB
2	阀体 Body	WCB	11	O形圈 O-ring	NBR
3	闸板 Disc	16Mn+ENP	12	轴承 Bearing	组件 Component
4	密封圈 Sealing ring	PTFE	13	对开环 Split ring	45
5	阀座 Seat	16Mn	14	内六角螺钉Socket head cap screw	45
6	O形圈 O-ring	NBR	15	双头螺栓 Double-headed stud	35CrMo
7	阀杆螺母 Stem nut	ZQAL9-4	16	螺母 Nut	NBR-18
8	阀杆 Stem	1Cr13	17	键 Key	45
9	O形圈 O-ring	NBR	18	开关指示器 Switch indicator	组件 Component



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

(PN0.4/0.6/1.0/1.6/2.0/2.5 MPa; Class150)

DN (mm)	NPS (in)	法兰 Flange	对焊 Butt welding	手动 Manual			齿动 Tooth movement			齿动装置 Tooth movement device	电动 Electric			电动装置 Electric actuator
		L	L ₁	H	H ₁	D ₀	H	H ₁	D ₀		H	H ₁	D ₀	
(K)Z4(5、9B)4(6)7F														
25	1	165	—	85	228	180	—	—	—	—	—	—	—	—
32	1 1/4	165	—	103	231	180	—	—	—	—	—	—	—	—
40	1 1/2	178	—	115	240	250	—	—	—	—	—	—	—	—
50	2	178	216	130	255	250	—	—	—	—	—	—	—	—
65	2 1/2	190	241	160	355	300	—	—	—	—	—	—	—	—
80	3	203	283	180	360	300	—	—	—	—	—	—	—	—
100	4	229	305	214	400	300	—	—	—	—	—	—	—	—
125	5	254	381	257	460	350	—	—	—	—	—	—	—	—
150	6	267	403	300	500	350	—	—	—	—	—	—	—	—
200	8	292	419	388	570	350	—	—	—	—	—	—	—	—
250	10	330	457	475	680	400	475	700	350	0型 (Type)	475	710	500	SMC-03
300	12	356	502	547	750	450	547	870	350	0型 (Type)	547	880	305	SMC-00
350	14	381	572	625	875	450	625	995	450	1型 (Type)	625	1045	305	SMC-00
400	16	406	610	712	1000	500	712	1120	45	1型 (Type)	712	1130	305	SMC-00
450	18	432	660	785	1130	500	785	1280	450	1型 (Type)	785	1360	305	SMC-0
500	20	457	711	880	1200	600	880	1350	450	1型 (Type)	880	1430	305	SMC-0
600	24	508	813	1045	1420	800	1045	1570	500	2型 (Type)	1045	1650	305	SMC-1
700	28	610	914	1190	1650	800	1190	1800	500	2型 (Type)	1190	1910	305	SMC-1
800	32	660	914	1360	1880	1000	1360	2040	500	2型 (Type)	1360	2140	305	SMC-1
900	36	771	1016	1510	2100	1000	1510	2280	600	3型 (Type)	1510	2390	458	SMC-2
1000	40	811	—	1715	2300	1200	1715	2480	600	3型 (Type)	1715	2590	458	SMC-2

◆ 用途 Use

保温夹套闸阀主要用于石油、化工、冶金、制药等各类系统中，以输送常温下会凝固的高粘度介质。该系列闸阀的夹套焊装于阀门的两法兰之间，阀门的侧面、底部设置有夹套的连接口。由于增加了夹套，此种闸阀的连接法兰尺寸要比同一规格普通闸阀的连接法兰大一至两个规格，但结构长度与同规格的闸阀相同，夹套中可自由地流过蒸汽或其它热的保温介质，确保粘稠介质可顺畅地流过阀门。

Preservation jacket gate valve is mainly used in oil, chemical, metallurgical, pharmaceutical and other kinds of systems, in order to transport under normal temperature solidification of high viscosity medium. This series of jacketed welding of valve in the valve between the two flanges, the side of the valve, connection Settings are at the bottom of the jacket. Due to the increased the jacket, this kind of valve connecting flange size than the same specifications ordinary valve connecting flange freshman year to two specifications, but the length of the structure with the same specifications of the valve, can freely through the jacket steam or other heat insulation medium, to ensure that the viscous medium can be smoothly through the valve.

◆ 特点 Characteristics

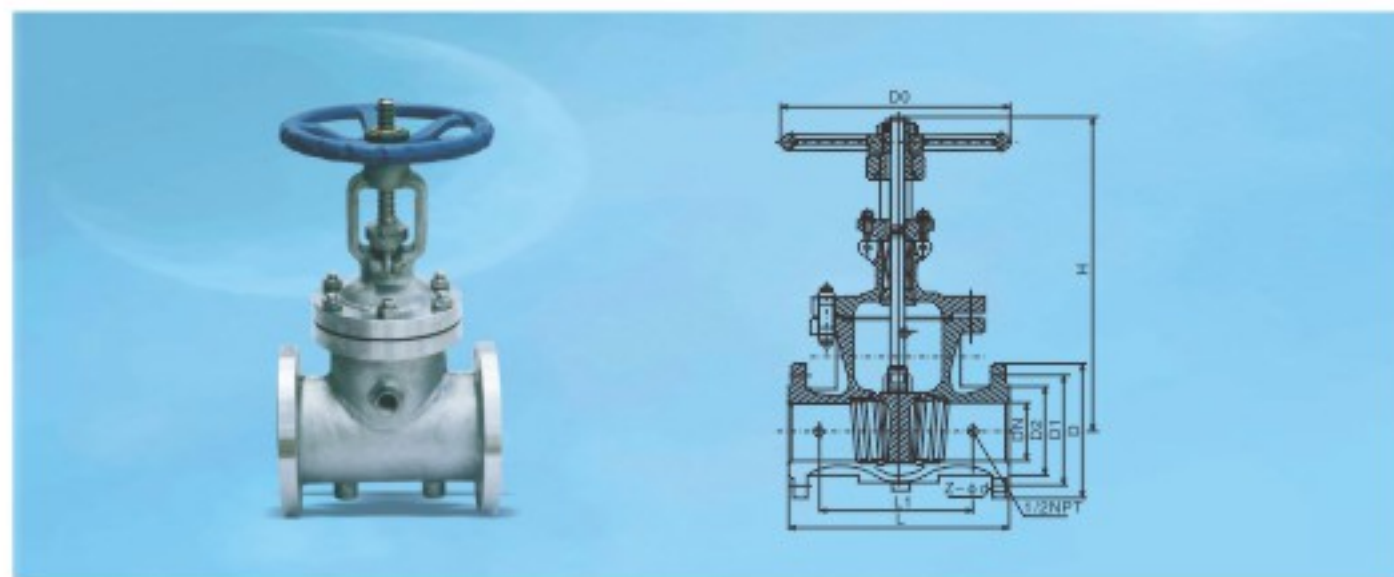
1. 启闭时较省力，是与截止阀相比而言，因为无论是开或闭，闸板运动方向均与介质流动方向相垂直；
 2. 启闭时间长，闸板的启闭行程较大，降是通过螺杆进行的；
 3. 介质可向两侧任意方向流动，易于安装，闸阀通道两侧是对称的；
 4. 结构长度(系壳体两连接端面之间的距离)较小；
 5. 结构紧凑，流动阻力小，通道流畅，密封面采用不锈钢和硬质合金，使用寿命长，采用PTFE填料，密封可靠，操作轻便灵活。
1. More energy when opening and closing, is compared with the cut-off valve, because whether on or off, disc direction are vertical to the phase with medium flow;
 2. The opening and closing time is long, disc opening and closing of the trip is bigger, is through the screw;
 3. The medium flows on both sides to any direction, easy to install, gate on both sides of channel is symmetric;
 4. The structure of the length (the distance between the two connection end face shell) is smaller;
 5. Compact structure, small flow resistance, smooth channel, the sealing surface of stainless steel and carbide, long service life, using PTFE packing, reliable seal, flexible operation of the light.

◆ 执行标准 Enforce Standards

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
	GB/T12234	GB/T12221	GB/T9113 JB/T79 GB/T20592	JB/T9092 GB/T13927	GB/T12224

◆ 主要零件材料 Main Part Materials

零件名称 Part name	ZG1Cr18Ni9Ti 系列 (Series)	ZG00Cr18Ni10 系列 (Series)	ZG1Cr18Ni12Mo2Ti 系列 (Series)	ZG00Cr17Ni14Mo2 系列 (Series)	WCB 系列 (Series)
阀体/阀盖 Body, bonnet	ZG1Cr18Ni9Ti	ZG00Cr18Ni10	ZG1Cr18Ni12Mo2Ti	ZG00Cr17Ni14Mo2	WCB
闸板 Disc	ZG1Cr18Ni9Ti	ZG00Cr18Ni10	ZG1Cr18Ni12Mo2Ti	ZG00Cr17Ni14Mo2	1Cr13
阀杆 Stem	1Cr18Ni9Ti	00Cr18Ni10	1Cr18Ni12Mo2Ti	00Cr17Ni14Mo2	1Cr13
填料 Packing	PTFE编织 (Weaving)	PTFE编织 (Weaving)	PTFE编织 (Weaving)	PTFE编织 (Weaving)	石墨 Graphite
垫片 Gasket	304L+PTFE	304L+PTFE	316L+PTFE	316L+PTFE	石墨(Graphite)+304
压盖 Gland	ZG1Cr18Ni10	ZG00Cr18Ni10	ZG1Cr18Ni12Mo2Ti	ZG00Cr17Ni14Mo2	WCB
填料压环 Packing gland ring	1Cr18Ni9Ti	00Cr18Ni10	1Cr18Ni12Mo2Ti	00Cr17Ni14Mo2	1Cr13
螺栓 Bolt	1Cr17Ni2	1Cr17Ni2	1Cr17Ni2	1Cr17Ni2	35CrMoA
螺母 Nut	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni9Ti	45



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

(PN1.6/2.5MPa)

DN(mm)	L	L ₁	D	D ₁	D ₂	b	Z-φd	H	D ₀	WT(kg)
BZ41H-16C BZ41W-16P/R/PL/RL										
40	200	70	160	125	100	18	4-φ18	310	200	49
50	250	80	180	145	120	18	4-φ18	358	240	54
65	270	90	195	160	135	20	8-φ18	373	240	81
80	280	100	215	180	155	20	8-φ18	435	280	100
100	300	100	245	210	185	22	8-φ18	500	300	120
125	325	110	280	240	210	24	8-φ23	614	320	210
150	350	120	335	295	265	26	12-φ23	674	360	260
200	400	130	405	355	320	30	12-φ25	818	400	300
250	450	140	460	410	375	30	12-φ25	969	450	400
300	500	160	520	470	435	34	16-φ25	1145	560	490
BZ41H-25 BZ41W-25P/R/PL/RL										
40	200	70	160	125	100	20	4-φ18	358	240	52
50	250	80	180	145	120	22	8-φ18	373	240	56
65	270	90	195	160	135	22	8-φ18	435	280	86
80	280	100	230	190	160	24	8-φ18	500	300	105
100	300	100	270	220	188	28	8-φ15	614	320	170
125	325	110	300	250	218	30	8-φ25	674	360	245
150	350	120	360	310	278	34	12-φ25	818	400	270
200	400	130	425	370	332	36	12-φ30	969	450	380
250	450	140	485	430	390	40	12-φ30	1145	560	535
300	500	160	550	490	448	44	16-φ34	1145	640	546

◆ 用途 Use

低温闸阀适用于甲烷、液态天然气、乙烯、二氧化碳、液氨、液氧、液氮、液氢等低温介质。
Low temperature gate valve is suitable for methane, liquefied natural gas at low temperature, ethylene, carbon dioxide, ammonia, liquid oxygen, liquid nitrogen, liquid hydrogen and other medium at low temperature.

◆ 特点 Characteristics

- 1、为防止中腔异常升压，在闸板的进口侧设置了泄压孔；
 - 2、根据阀门的工作温度确定阀盖的顶部长度，确保阀杆填料的可靠密封；
 - 3、根据工作温度合理选用填料，垫片等零件的材料；
 - 4、严格控制材料的化学成分及低温冲击韧性等力学性能指标；
 - 5、采用多种配管法兰标准及密封面型式，适用于各种工程需要。
1. To prevent abnormal midplane booster, set up a pressure relief hole on the inlet side of the gate;
2. According to the working temperature of the valve cover at the top of the length, ensure stem packing reliable seal;
3. According to the working temperature reasonable choice packing, gaskets and other parts of the materials;
4. Strictly control the material chemical composition and mechanical properties such as low temperature impact toughness index;
5. Use a variety of piping flange standards and sealing surface type, suitable for all kinds of engineering needs.

◆ 执行标准 Enforce Standards

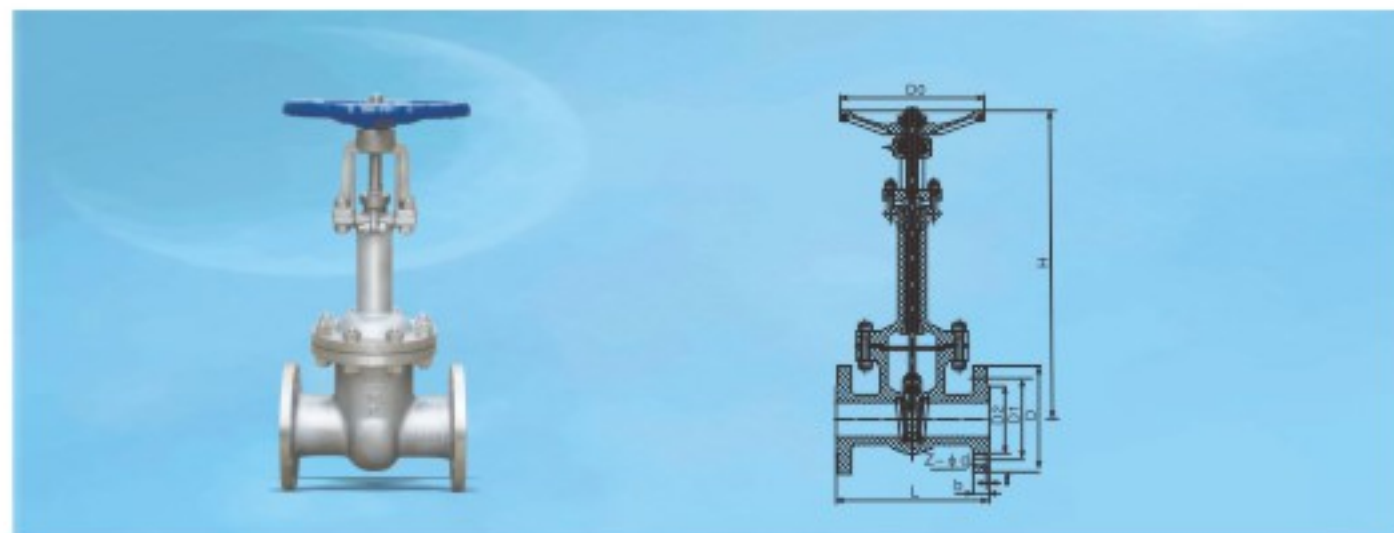
产品规范 Product specification	设计规范 Design spec	结构长度 Face to face	连接法兰 Flange end	试验与检验 Test & check	压力-温度 Pressure-temp
	JB/T7749	GB/T12221	JB/T79.1 HG/T20592 GB/T9113	JB/T9092 GB/T13927	GB/T12224

◆ 性能规范 Performance Specification

公称压力PN(MPa) Nominal pressure	强度试验(MPa) Strength test	水密封试验(MPa) Water seal test	上密封试验(MPa) Back sealing test	气密封试验(MPa) Gas seal test
1.6	2.4	1.8	1.8	0.4-0.7
2.5	3.8	2.8	2.8	
4.0	6.0	4.4	4.4	
6.4	9.6	7.0	7.0	
10.0	15.0	11.0	11.0	

◆ 主要零件材料 Main Part Materials

零件名称 Part name	材质 Material
阀体/闸板/阀盖/支架 Body, disc, bonnet, stents	LC3, LCB, LCC, 1Cr18Ni9Ti
填料 Packing	浸四氟乙烯石棉绳 Leaching tetrafluoroethylene asbestos rope
手轮 Handwheel	QT450-10
阀杆螺母 Stem nut	ZCuAl10Fe3
阀杆 Stem	1Cr18Ni9Ti
垫片 Gasket	低温石棉 Low temperature asbestos



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

(PN1.6/2.5MPa)

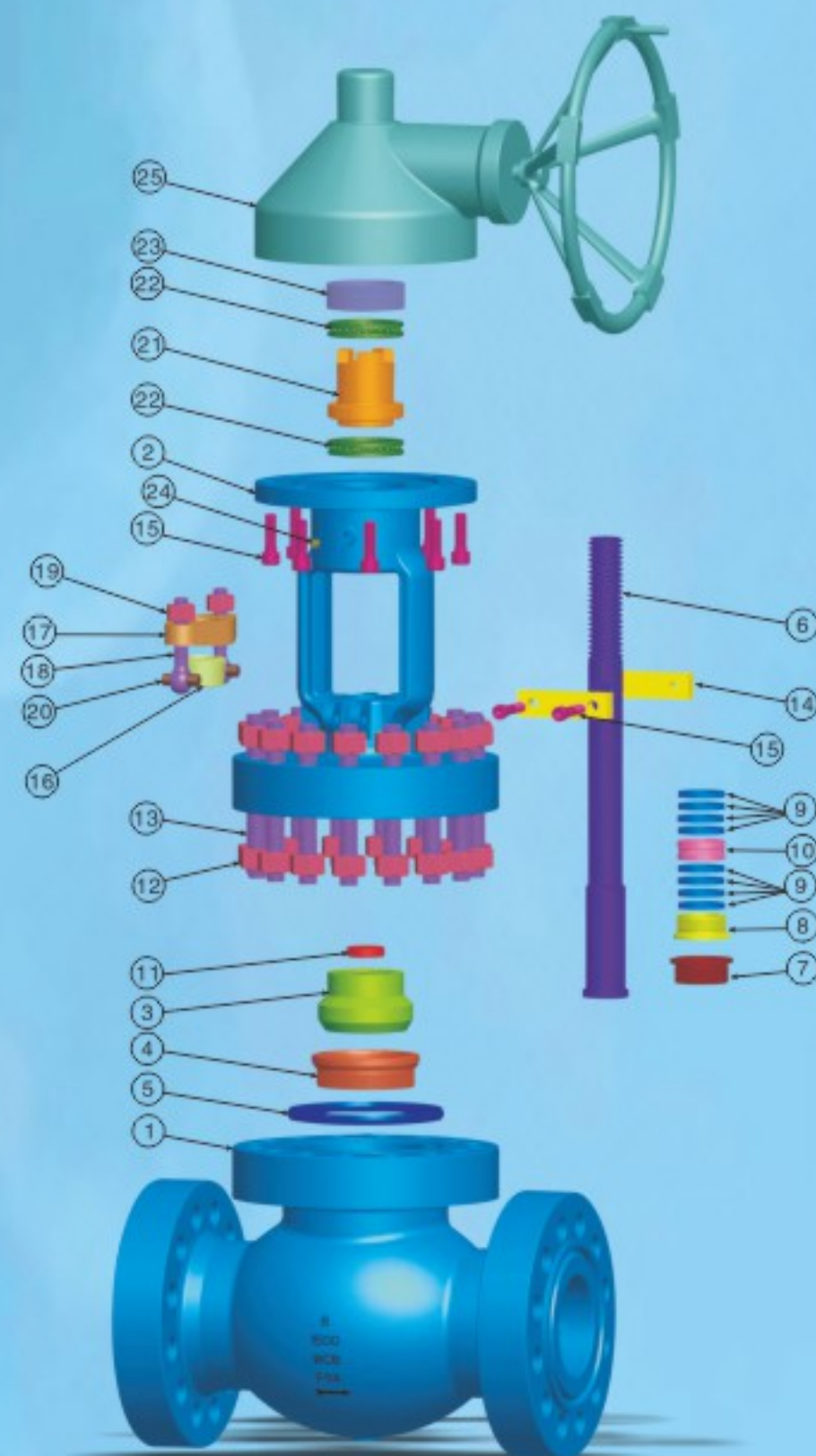
DN(mm)	L	D	D ₁	D ₂	b	Z-φd	H	D ₀	WT(kg)
DZ40Y-16P/R/PL/RL									
20	150	105	75	55	14	4-φ14	320	140	6
25	160	115	85	65	14	4-φ14	350	160	7
32	180	135	100	78	16	4-φ18	385	180	9
40	200	145	110	85	16	4-φ18	420	200	15
50	250	160	125	100	16	4-φ18	540	240	30
65	265	180	145	120	18	4-φ18	610	240	34
80	280	195	160	135	20	8-φ18	690	280	45
100	300	215	180	155	20	8-φ18	780	300	64
125	325	245	210	185	22	8-φ18	930	320	110
150	350	280	240	210	24	8-φ23	980	360	135
200	400	335	295	265	26	12-φ23	1180	400	195
250	450	405	355	320	30	12-φ25	1390	450	275
300	500	460	410	375	30	12-φ25	1620	560	380
350	550	520	470	435	34	16-φ25	1810	640	594
400	600	580	525	485	36	16-φ30	1970	640	725
DZ40Y-25P/R/PL/RL									
20	150	105	75	55	16	4-φ14	320	140	6
25	160	115	85	65	16	4-φ14	350	160	8
32	180	135	100	78	18	4-φ18	385	180	10
40	200	145	110	85	18	4-φ18	420	200	16
50	250	160	125	100	20	4-φ18	540	240	30
65	265	180	145	120	22	4-φ18	610	240	35
80	280	195	160	135	22	8-φ18	690	280	47
100	300	230	190	160	24	8-φ23	780	300	65
125	325	270	220	188	28	8-φ25	930	320	110
150	350	300	250	218	30	8-φ25	980	360	135
200	400	360	310	278	34	12-φ25	1180	400	215
250	450	425	370	332	36	12-φ30	1390	450	295
300	500	485	430	390	40	16-φ30	1620	560	400
350	550	550	490	448	44	16-φ34	1810	640	630
400	600	610	550	505	48	16-φ34	1990	640	910

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

(PN4.0/6.4/10.0MPa)

DN(mm)	L	D	D ₁	D ₂	D ₆	b	Z-φd	H	D ₀	WT(kg)
DZ40Y-40P/R/PL/RL										
20	150	105	75	55	51	16	4-φ14	330	140	7
25	160	115	85	65	58	16	4-φ14	360	160	9
32	180	135	100	78	66	18	4-φ18	440	180	11
40	200	145	110	85	76	18	4-φ18	455	200	19
50	250	160	125	100	88	20	4-φ18	575	280	28
65	280	180	145	120	110	22	8-φ18	635	280	35
80	310	195	160	135	121	22	8-φ18	715	320	50
100	350	230	190	160	150	24	8-φ23	815	360	74
125	400	270	220	188	176	28	8-φ25	965	400	115
150	450	300	250	218	204	30	8-φ25	1025	400	135
200	550	375	320	282	260	38	12-φ30	1225	450	215
250	650	445	385	345	313	42	12-φ34	1440	560	184
300	750	510	450	408	364	46	16-φ34	1665	640	405
350	850	570	510	465	422	52	16-φ34	1880	640	600
400	950	655	585	535	474	58	16-φ41	2050	720	750
DZ40Y-64P/R/PL/RL										
20	190	125	90	68	51	20	4-φ18	330	100	8
25	210	135	100	78	58	22	4-φ18	360	180	13
32	230	150	110	82	66	24	4-φ23	410	180	24
40	240	165	125	95	76	24	4-φ23	480	200	32
50	250	175	135	105	88	26	4-φ23	585	200	39
65	280	200	160	160	110	28	8-φ23	690	250	45
80	310	210	170	140	121	30	8-φ23	745	300	60
100	350	250	200	168	150	32	8-φ25	885	300	90
125	400	295	240	202	176	36	8-φ30	985	350	140
150	450	340	280	240	204	38	8-φ34	1050	350	205
200	550	405	345	300	260	44	12-φ34	1240	400	330
250	650	470	400	352	313	48	12-φ41	1460	560	468
300	750	530	460	412	364	54	16-φ41	1690	640	600
DZ40Y-100P/R/PL/RL										
25	210	135	100	78	58	24	4-φ18	365	200	18
32	230	150	110	82	66	24	4-φ23	420	240	27
50	250	195	145	112	88	28	4-φ25	630	360	45
65	280	220	170	138	100	32	8-φ25	700	400	60
80	310	230	180	148	121	34	8-φ25	760	400	76
100	350	265	210	172	150	38	8-φ23	900	400	128

铸钢截止阀系列 CAST STEEL GLOBE VALVE SERIES



◆ 产品结构特征 Products Structure Features

系列截止阀适用于公称压力PN1.6~42.0MPa(CL150~CL2500), 工作温度-46~550℃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、阀门设有倒密封结构, 密封可靠。
- 5、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。

Series of globe valves are used to cut or connect the pipe media under pressures between PN1.6~42.0MPa(CL150~CL2500). Working temperatures between -46~550℃, in oil industry, chemical industry, pharmaceuticals, fertilizer, and power industry.

Main structural features:

1. Rational structure, reliable sealing, excellent performance, pretty appearance.
2. Co-radix 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. There is backward sealing structure in the valve, so the sealing is reliable.
5. The material of the fillings and the flange sizes can be chose and matched according to the applications and the requirements of the users. That can satisfies all kinds of working requirements.

◆ 主要零部件 Main Part

序号 No.	名称	Part Name	序号 No.	名称	Part Name
01	阀体	Body	14	限位块	Positioning Block
02	阀盖	Bonnet	15	内六角螺钉	Socket Cap Screw
03	阀瓣	Disc	16	填料压套	Gland
04	阀座	Seat	17	填料压板	Gland Flange
05	中法兰垫片	Bonnet Gasket	18	活节螺栓	Eyelet Bolt
06	阀杆	Stem	19	螺母	Eyelet Nut
07	阀瓣盖	Disc Nut	20	圆柱销	Pin
08	上密封座	Backseat	21	阀杆螺母	Stem Nut
09	填料	Packing	22	推力轴承	Sleeve Bearing
10	隔环	Lantern Ring	23	锁紧螺母	Bearing Nut
11	阀瓣垫	Disc Thrust Plate	24	油杯	Nipple
12	螺母	Bonnet Nut	25	锥齿轮部件	Gear Actuator
13	螺栓	Bonnet Bolt	-	-	-



◆ 用途 Use

国标截止阀适用于公称压力PN1.6~16.0MPa, 工作温度-46~550℃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。

GB Globe valve are used to cut or connect the pipe media under pressures between PN1.6~16.0MPa, working temperatures between -46~550℃, in oil industry, chemical industry, pharmaceuticals, fertilizer, and power industry.

◆ 特点 Characteristics

- 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、阀门设有倒密封结构, 密封可靠；
- 5、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。

1. Rational structure, reliable sealing, excellent performance, pretty appearance;

2. Co-radix 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. There is backward sealing structure in the valve, so the sealing is reliable;

5. The material of the fillings and the flange sizes can be chose and matched according to the applications and the requirements of the users. That can satisfies all kinds of working requirements.

◆ 执行标准 Standards Adopted

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
	GB/T 12235	GB/T 12221	JB/T 79.1, GB/T9113 HG/T20592	JB/T 9092 GB/T13927	GB/T12224

◆ 性能规范 Performance Specification

1、试验压力 Test Pressure

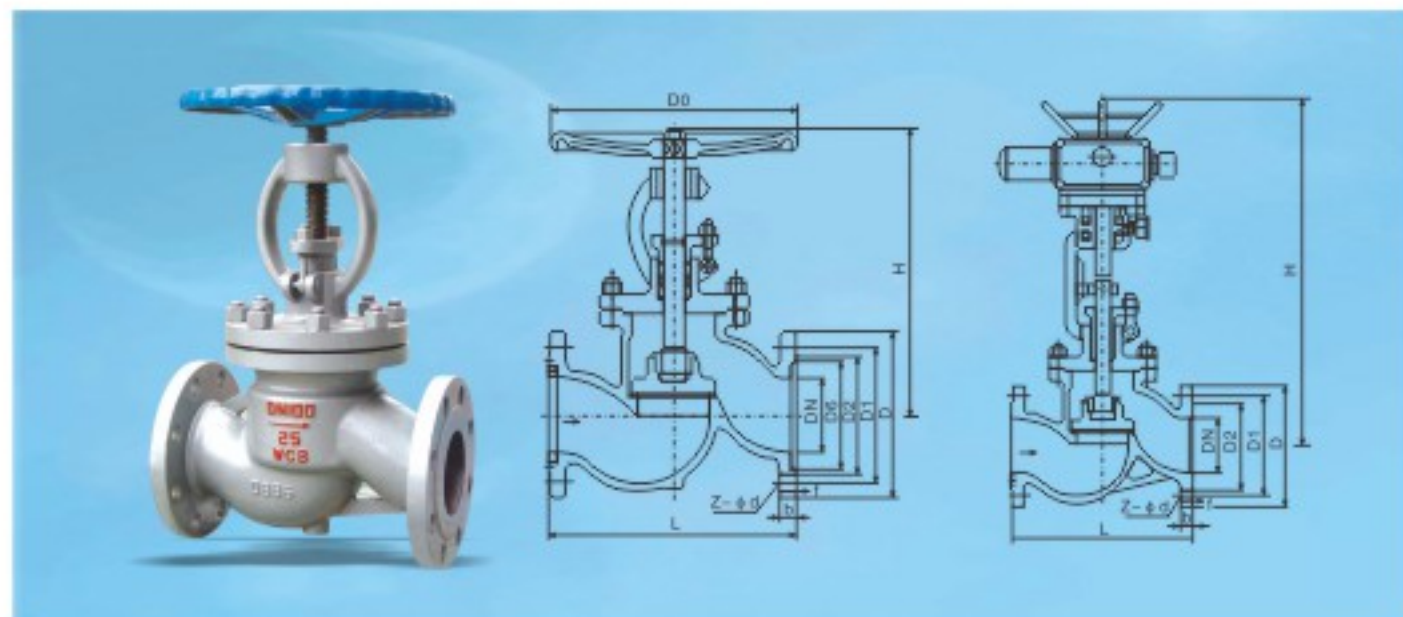
公称压力PN(MPa) Nominal Pressure	1.6	2.5	4.0	6.4	10.0	16.0
壳体强度试验 Shell strength test	2.4	3.8	6.0	9.6	15	24
上密封试验 Back seat test	1.8	2.8	4.4	7.0	11	18
密封试验 Seat test	1.8	2.8	4.4	7.0	11	18

2、适用介质及适用温度 Applicable Medium & applicable Temperature

产品类型 Product type	适用介质 Applicable medium	适用温度℃ Applicable temperature
J41H-C型(Type) J941H-C型(Type)	水、油品、蒸汽 Water, oil, steam	≤425
J41W-P型(Type) J941W-P型(Type)	硝酸类 Nitric acid	≤200
J41W-R型(Type)	醋酸类 Acetic acid	≤200
J41Y-I型(Type) J941Y-I型(Type)	水、油品、蒸汽 Water, oil, steam	≤550

◆ 主要零件材料 Main Part Materials

产品类型 Product type	零件名称 Part name							
	阀体/阀盖 Body/bonnet	阀杆 Stem	阀瓣 Disc	密封面 Sealing face	阀杆螺母 Yoke nut	填料 Packing	紧固件 Fastener	手轮 Hand wheel
J41H-C型(Type) J941H-C型(Type)	25.WCB	铬不锈钢 Cr. Stainless steel	2Cr13 25	H: 不锈钢 Y: 钴基硬质合金 H: Stainless steel Y: Co-based carbide alloy steel	铜合金 Copper alloy	柔性石墨 Flexible graphite	优质碳钢 High-grade carbon steel	可锻铸铁 Malleable iron
J41W-P型(Type) J941W-P型(Type)	铬镍钢 Cr, Ni, steel	铬镍钢 Cr, Ni, steel	铬镍钢 Cr, Ni, Ti steel	铬镍钢 Cr, Ni, steel	铜合金 Copper alloy	柔性石墨 Flexible graphite	不锈钢 Stainless steel	可锻铸铁 Malleable iron
J41W-R型(Type)	铬镍钼钢 Cr, Ni, Mo, steel	铬镍钼钢 Cr, Ni, Mo, steel	铬镍钼钢 Cr, Ni, Mo, steel	铬镍钼钢 Cr, Ni, Mo, steel	铜合金 Copper alloy	柔性石墨 Flexible graphite	不锈钢 Stainless steel	可锻铸铁 Malleable iron
J41Y-I型(Type) J941Y-I型(Type)	铬钼钢 Cr, Mo, steel	铬钼钢 Cr, Mo, steel	合金钢 Alloy steel	钴基硬质合金 Co-based carbide alloy steel	铜合金 Copper alloy	柔性石墨 Flexible graphite	合金钢 Alloy steel	可锻铸铁 Malleable iron



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	L	D	D ₁	D ₂	b	f	Z-φd	H	D ₀	WT (kg)
J41Y-16C			J41W-16P/R/PL/RL			J41Y-16I				
10	130	90	60	40	14	2	4-14	198	120	4.7
15	130	95	65	45	14	2	4-14	218	120	5.2
20	150	105	75	55	14	2	4-14	258	140	7.1
25	160	115	85	65	14	2	4-14	275	160	7.4
32	180	135	100	78	15	2	4-18	280	180	8.5
40	200	145	110	85	16	2	4-18	330	200	12.5
50	230	160	125	100	16	3	4-18	350	240	20
65	290	180	145	120	18	3	4-18	400	280	25
80	310	195	160	135	20	3	8-18	355	280	35
100	350	215	180	155	20	3	8-18	415	320	50
125	400	245	210	185	22	3	8-18	460	360	75
150	480	280	240	210	24	3	8-23	510	400	100
200	600	335	295	205	26	3	12-23	710	400	210
250	650	405	355	320	30	3	12-23	789	450	446
300	750	460	410	375	30	3	12-23	925	500	648

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	L	D	D ₁	D ₂	b	f	Z-φd	H _手 (Hand)	H _电 (Electricity)	D ₀	电动装置 Electric device	WT (kg)	
												手动 Manual	电动 Electric
	J41 ^H _Y -25C J41W-25P/R/PL/RL J41Y-25I J941 ^H _Y -25C J941W-25P/R/PL/RL J941Y-25I												
10	130	90	60	40	16	2	4-14	198	-	120	-	4.9	-
15	130	95	65	45	16	2	4-14	218	-	120	-	5.4	-
20	150	105	75	55	16	2	4-14	258	-	140	-	7	-
25	160	115	85	65	16	2	4-14	275	-	160	-	7.4	-
32	180	135	100	78	18	2	4-18	280	-	180	-	8.5	-
40	200	145	110	85	18	3	4-18	330	-	200	-	12.5	-
50	230	160	125	100	20	3	4-18	350	645	240	DZW101	16	50
65	290	180	145	120	22	3	8-18	400	690	280	DZW101	25	62
80	310	195	160	135	22	3	8-18	355	715	280	DZW151	30	67
100	350	230	190	160	24	3	8-23	415	770	320	DZW20	34.5	73
125	400	270	220	188	28	3	8-25	460	780	360	DZW30	89	127
150	480	300	250	218	30	3	8-25	510	875	400	DZW45	98	215
200	600	360	310	278	34	3	12-25	710	967	400	DZW60	180	322
250	650	425	370	332	36	3	12-30	789	-	450	-	446	-
300	750	485	430	390	40	4	12-30	925	-	500	-	654	-

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	L	D	D ₁	D ₂	b	f	f ₂	Z-φd	H _手 (Hand)	H _电 (Electricity)	D ₀	电动装置 Electric device	WT (kg)	
													手动 Manual	电动 Electric
	J41Y ^H _B -40C		J41W-40P/R/PL/RL			J41Y-40I		J941Y ^H _B -40C		J941W-40P/R/PL/RL			J941Y-40I	
10	130	90	60	40	16	2	4	4-14	198	-	120	-	4.9	-
15	130	95	65	45	16	2	4	4-14	238	-	120	-	5.4	-
20	150	105	75	55	16	2	4	4-14	275	-	140	-	7	-
25	160	115	85	65	16	2	4	4-14	285	-	160	-	8.8	-
32	180	135	100	78	18	2	4	4-18	302	-	180	-	11.8	-
40	200	145	110	85	18	3	4	4-18	355	-	200	-	16.5	-
50	230	160	125	100	20	3	4	4-18	370	645	240	DZW101	24	61
65	290	180	145	120	22	3	4	8-18	408	690	280	DZW101	33	75
80	310	195	160	135	22	3	4	8-18	436	715	320	DZW201	44	84
100	350	230	190	160	24	3	4.5	8-23	480	770	360	DZW301	60	101
125	400	270	220	188	28	3	4.5	8-25	558	782	400	DZW45	89	207
150	480	300	250	218	30	3	4.5	8-25	611	875	400	DZW60	98	226
200	600	375	320	282	38	3	4.5	12-30	720	1160	400	DZW901	190	339

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	L	D	D ₁	D ₂	b	f	f ₂	Z-φd	H _T (mm)	H _E (Electricity)	D ₀	电动装置 Electric device	WT (kg)	
													手动 Manual	电动 Electric
J41 _W ^H -64C		J41W-64P/R/PL/RL			J41Y-64I		J941 _Y ^H -64C		J941W-64P/R/PL/RL			J941Y-64I		
10	170	100	70	50	18	2	4	4-14	198	-	120	-	5.7	-
15	170	105	75	55	18	2	4	4-14	195	-	140	-	10	-
20	190	125	90	68	20	2	4	4-18	228	-	160	-	13	-
25	210	135	100	78	22	2	4	4-18	275	-	180	-	14.5	-
32	230	150	110	82	24	2	4	4-23	325	-	200	-	19	-
40	260	165	125	95	24	3	4	4-23	360	-	240	-	25	-
50	300	175	135	105	26	3	4	8-23	410	710	280	DZW10	35	64
65	340	200	160	130	28	3	4	8-23	450	750	320	DZW15	48	77
80	380	210	170	140	30	3	4	8-18	485	785	360	DZW30	56	88
100	430	250	200	168	32	3	4	8-25	537	837	400	DZW45	125	171
125	500	295	240	202	36	3	4	8-30	631	-	400	-	131	-
150	550	340	280	240	38	3	4	8-34	646	-	450	-	157	-
200	650	405	345	300	44	3	4	12-34	813	-	500	-	283	-
J41 _Y ^H -100C		J41W-100P/R/PL/RL			J41Y-100I		J941 _Y ^H -100C		J941W-100P/R/PL/RL			J941Y-100I		
10	170	100	70	50	20	2	4	4-14	198	-	120	-	6	-
15	170	105	75	55	20	2	4	4-14	202	-	140	-	11	-
20	190	125	90	68	22	2	4	4-18	228	-	160	-	13.2	-
25	210	135	100	78	24	2	4	4-18	250	-	180	-	14	-
32	230	150	110	82	24	2	4	4-23	326	-	220	-	15	-
40	260	165	125	95	26	3	4	4-23	359	-	240	-	29	-
50	300	195	145	112	28	3	4	4-25	414	710	280	DZW10	49	82
65	340	220	170	138	32	3	4	8-25	434	750	320	DZW15	65	104
80	380	230	180	148	34	3	4	8-25	547	785	400	DZW30	95	138
100	430	265	210	172	38	3	4.5	8-30	621	837	450	DZW45	115	243
125	500	310	250	210	42	3	4.5	8-34	732	-	450	-	149	-
150	550	350	290	250	46	3	4.5	12-34	840	-	500	-	310	-
200	650	430	360	312	54	3	4.5	12-41	925	-	550	-	590	-
J41 _Y ^H -160C		J41W-160P/R/PL/RL			J41Y-160I		J941 _Y ^H -160C		J941W-160P/R/PL/RL			J941Y-160I		
15	170	110	75	52	24	2	4	4-18	148	-	140	-	12.2	-
20	190	130	90	65	26	2	4	4-23	156	-	160	-	15	-
25	210	140	100	72	28	2	4	4-23	125	-	180	-	17	-
32	230	165	115	85	30	2	4	4-25	200	-	200	-	21.4	-
40	260	175	125	92	32	3	4	4-27	231	-	240	-	32	-
50	300	215	165	132	36	3	4	8-25	262	-	250	-	52	-
65	340	245	190	152	44	3	4	8-30	303	-	320	-	69	-
80	380	260	205	168	46	3	4	8-30	341	-	400	-	98	-
100	430	300	240	200	48	3	4.5	8-34	485	-	450	-	119	-

◆ 用途 Use

高温高压截止阀适用于火电厂、石油化工、冶金和高温高压的水、蒸汽、油品、过热蒸汽等管道上，作用于切断或接通介质。
High temperature and high pressure globe valve is suitable for thermal power plants, petrochemical industry, metallurgical industry and the high temperature and high pressure water, steam, oil, superheated steam pipe, such as applied to cut off or connect medium.

◆ 特点 Characteristics

1. 阀中腔采用压力自紧式密封结构，密封性能越好；
 2. 阀瓣和阀座的密封面采用司太立钴基硬质合金喷焊而成，耐磨、耐高温、耐腐蚀、抗擦伤性能好；
 3. 阀杆采用整体锻造结构，经调质和表面氮化处理，有良好的抗腐蚀性和抗擦伤性；
 4. 阀盖填料函深度合理，填料加缓蚀剂，密封可靠。
1. Valve lumen self-tightening seal structure is adopted, and the better sealing performance;
 2. The disc and seat sealing surface using department too vertical cobalt-based hard alloy spray welding and become, wear-resisting, high temperature resistant, corrosion resistance, abrasion resistance, can be good;
 3. The stem is made of the overall structure of forging, after quenched and tempered and surface nitriding treatment, good corrosion resistance and abrasion resistance;
 4. The cover depth of the stuffing box is reasonable, packing and corrosion inhibitor, reliable sealing.

◆ 执行标准 Standards Adopted

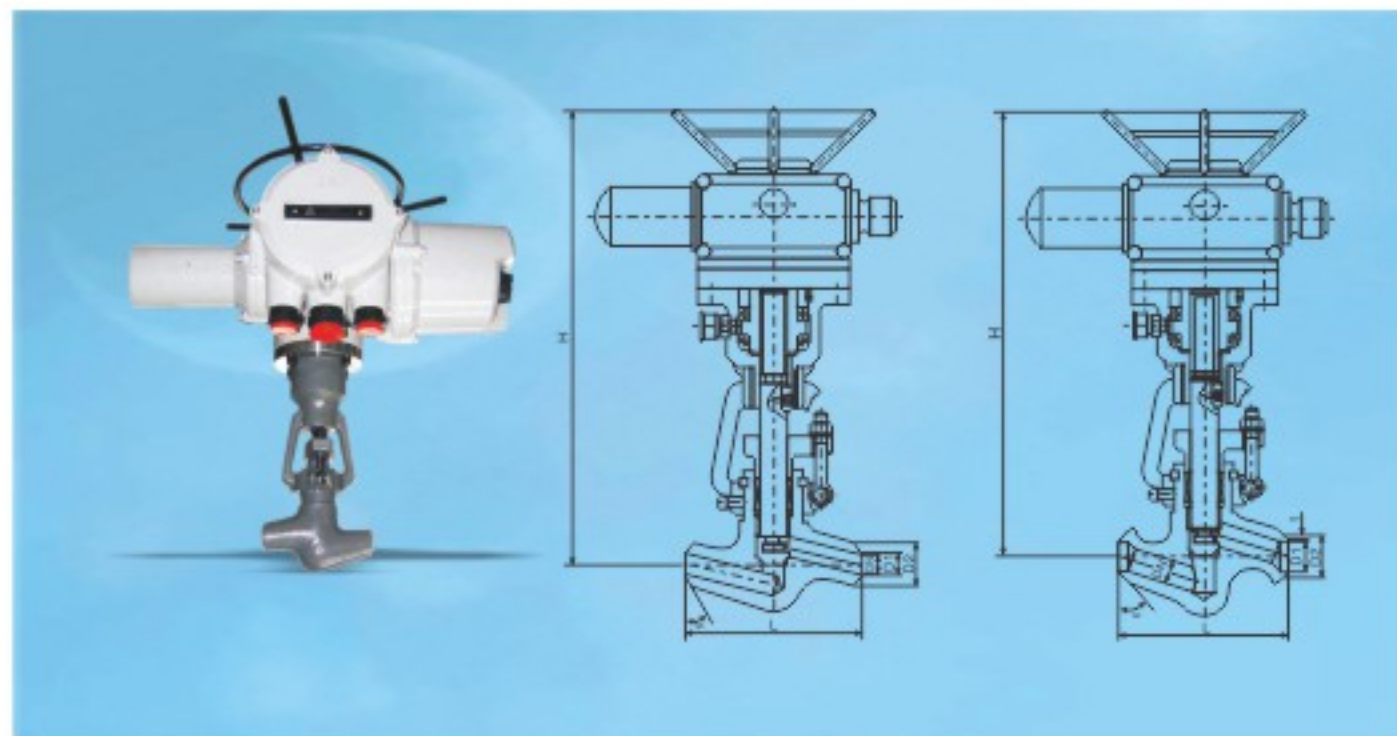
产品规范 Product Specification	设计规范 Design Spec	结构长度 Face to Face	焊接坡口 Welding groove	试验与检验 Test & Check	压力-温度 Pressure-Temp
	NB/T 47044	JB/T2766	GB/T12224 NB/T 47044	NB/T 47044	NB/T 47044

◆ 性能规范 Performance Specification

产品型号 Product type	公称压力PN(MPa) Nominal pressure	试验压力(MPa)Test pressure		工作压力(MPa) Working pressure			工作温度(℃) Working temperature	适用介质 Applicable medium
		壳体 Shell	密封 Seal	P ₁₁	P ₁₂	P ₁₃		
J61 ^H _Y -100	10	15	11	/	/	/	≤450	水、蒸汽、油品 Water, steam, Oil
J61 ^H _Y -200	20	30	22	/	/	/		
J61 ^H _Y -250	25	38	28	/	/	/		
J61 ^H _Y -320	32	48	36	/	/	/		
J61Y-P54/100V	/	30	22	10	/	/	≤540	蒸汽 Steam
J61Y-P54/140V	/	38	28	14	/	/		
J61Y-P54/170V	/	48	36	17	/	/		
J61Y-P55/100V	/	38	28	/	10	/	≤555	
J61Y-P55/140V	/	48	36	/	14	/		
J61Y-P55/170V	/	53	39	/	17	/		
J61Y-P57/100V	/	48	36	/	/	10	≤570	
J61Y-P57/140V	/	55	40	/	/	14		
J61Y-P57/170V	/	60	44	/	/	17		

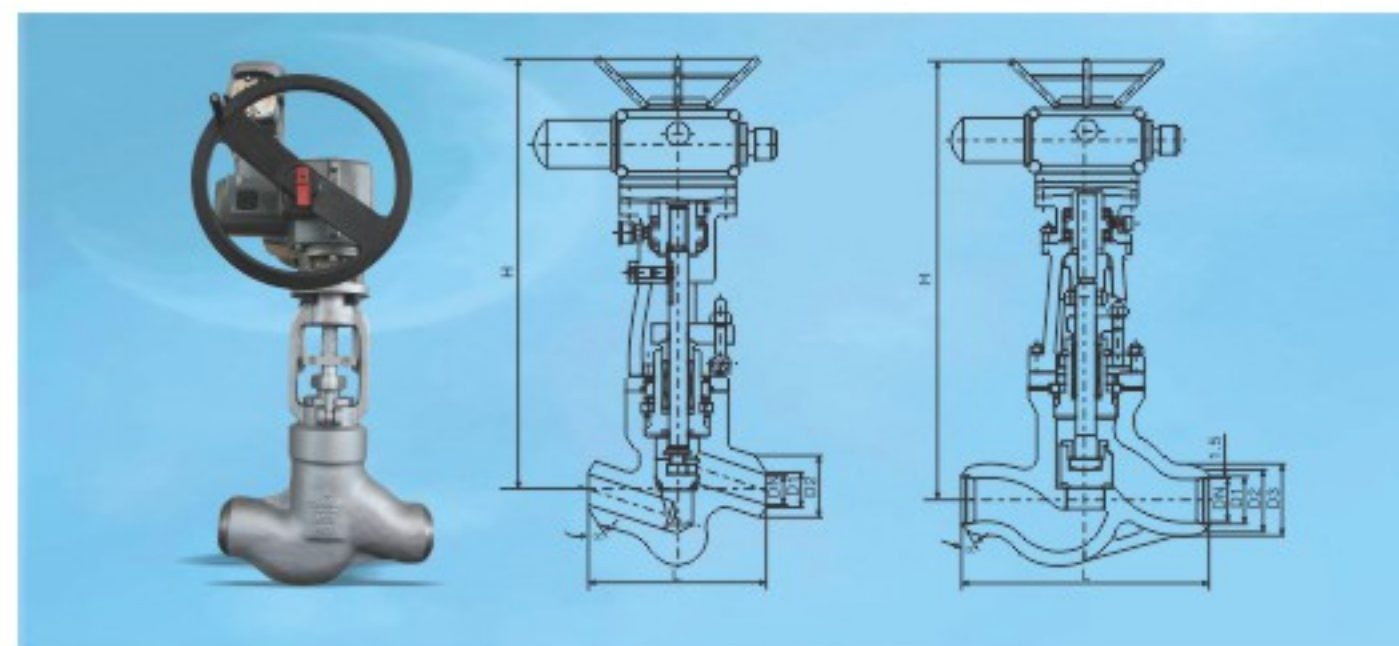
◆ 主要零件材料 Main Part Materials

零件名称 Part name	J61H/J961H型 (Type)	J61Y/J961Y型 (Type)	J61Y-P54/J961Y-P54型 (Type)	J61Y-P55/J961Y-P55型 (Type)	J61Y-P57/J961Y-P57型 (Type)
阀体 Body	A105, WCB	A105, WCB	12Cr1MoV, WC6	12Cr1MoV, WC6	12Cr1MoV, WC9
阀盖 Bonnet	A105, WCB	A105, WCB	12Cr1MoV, WC6	12Cr1MoV, WC6	12Cr1MoV, WC9
阀杆 Stem	25Cr2MoVA, 38Cr1MoAlA, 20Cr1Mo1V1A, SUH600				
阀瓣 Disc	12Cr1MoV, F11, F22				
密封面 Sealing surface	硬质合金 Cemented carbide				
填料 Packing	柔性石墨 Flexible graphite				
阀杆螺母 Stem nut	铝青铜 Al bronze				
手轮 Handwheel	可锻铸铁 Malleable iron				
紧固件 Fastener	铬钼钢 Cr, Mo, steel 优质碳钢 High-grade carbon steel				



◆ 性能规范 Performance Specification

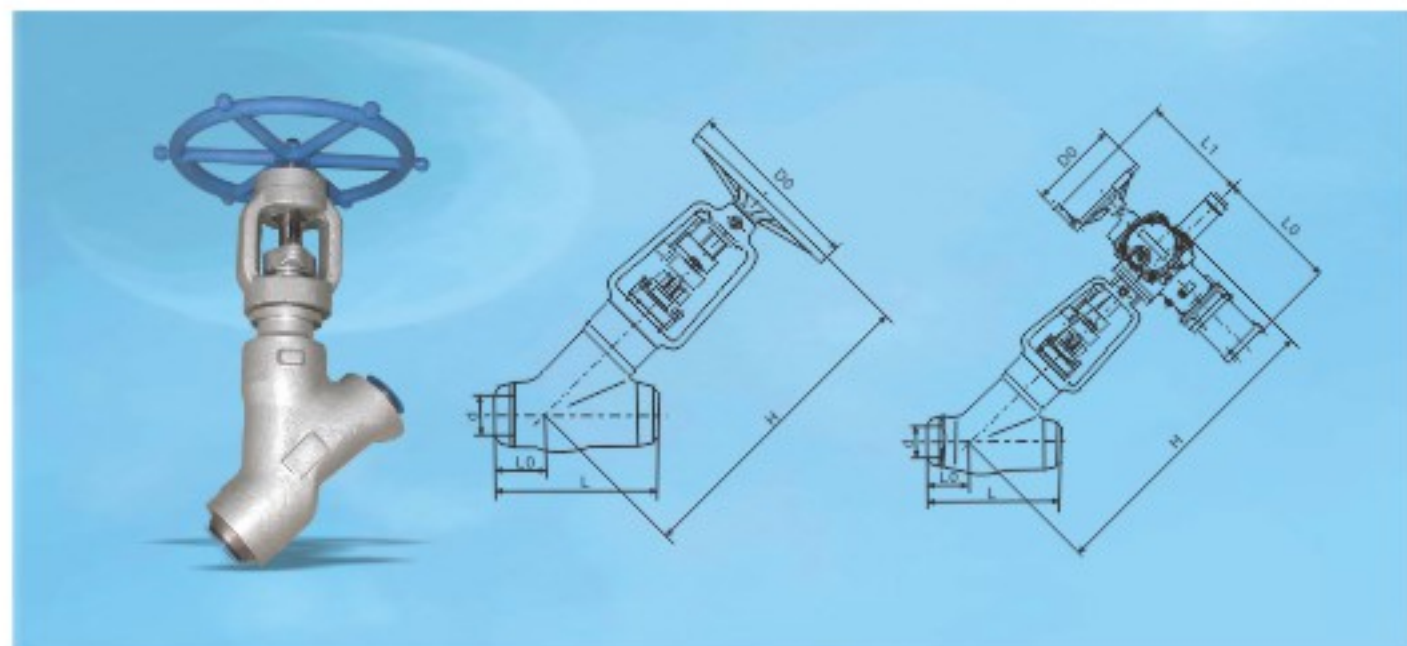
产品型号 Product type	公称压力 PN(MPa) Nominal pressure	试验压力(MPa)Test pressure		工作压力(MPa) Working pressure			工作温度(℃) Working temperature	适用介质 Applicable medium
		壳体强度 Shell strength	密封 Sealing	P54	P55	P57		
J961H/Y-100	10	15	11	/	/	/	≤425	水、蒸汽、 油品 Water、 steam、 Oil
J961H/Y-200	20	30	22	/	/	/		
J961H/Y-250	25	38	28	/	/	/		
J961H/Y-320	32	48	36	/	/	/		
J961Y-P54/100V	/	30	22	10	/	/	≤540	蒸汽 Steam
J961Y-P54/140V	/	38	28	14	/	/		
J961Y-P54/170V	/	48	36	17	/	/		
J961Y-P55/100V	/	38	28	/	10	/	≤550	
J961Y-P55/140V	/	48	36	/	14	/		
J961Y-P55/170V	/	53	39	/	17	/		
J961Y-P57/100V	/	48	36	/	/	10	≤570	
J961Y-P57/140V	/	55	40	/	/	14		
J961Y-P57/170V	/	60	44	/	/	17		



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	L	D1	D2	D3	α°	H
	J961H/Y-100、200、250、320 J961Y-P54/100V、P54/140V、P54/170V					
15	150	17	36	/	37.5°	518
20	135 170	22	42	/	37.5°	518
25	135 170	26	42	/	37.5°	518
32	170 180	31	44	/	37.5°	560
40	230	38	60	/	37.5°	545
50(1)	250	50	82	/	32°	728
50(2)	320 350	50	82	/	32°	748
65	370 260	69	100	110	32°	829
80	400 430 470	84	108	130	32°	898
100	455 560	107	144	165	32°	913
J961Y-P55/100V、P55/140V、P55/170V、 J961Y-P57/100V、P57/140V、P57/170V						
15	150	17	40	/	37.5°	518
20	135 170	22	46	/	37.5°	518
25	135 170	26	46	/	37.5°	518
32	170 180	31	49	/	37.5°	560
40	230	38	60	/	37.5°	545
50(1)	250	50	90	/	32°	728
50(2)	320 350	50	90	/	32°	748
65	370 260	69	104	115	32°	829
80	400 430 470	84	110	140	32°	898
100	455 560	107	148	170	32°	913

注: DN50为两种结构。 Note: There are two kinds of seal structure in DN50 valve.



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

NPS(in)	d	L	L0	H	D0	WT (Kg)
J65Y-1500Lb						
2 1/2	56	330	130	670	360	45
3	64	368	140	750	460	70
4	84	457	170	830	510	110
5	100	533	185	910	560	129
6	126	610	190	1100	610	180

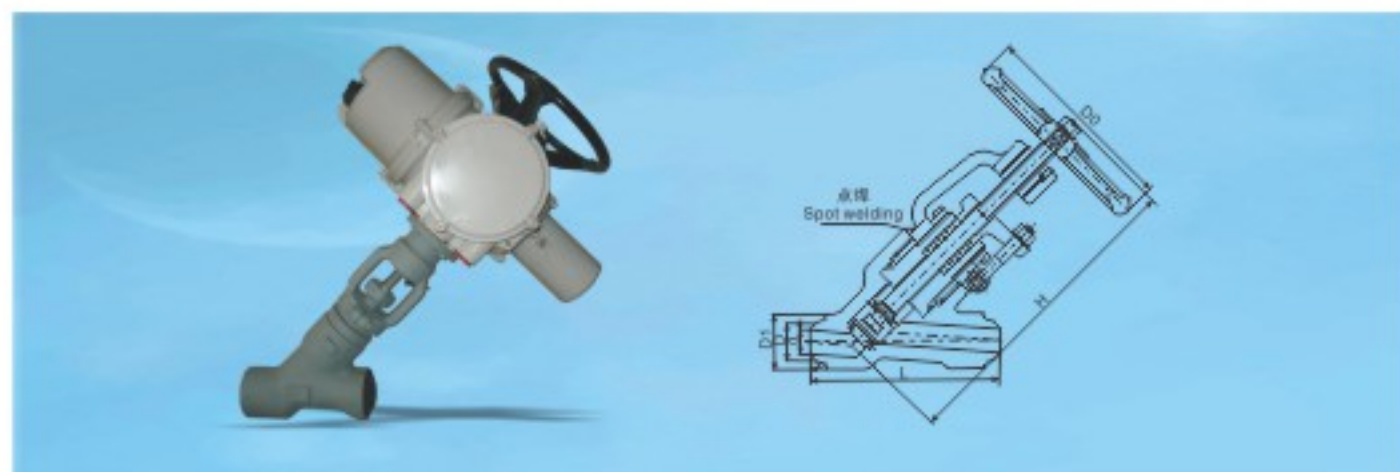
◆ 主要外形连接尺寸 Main Boundary Connection Dimension

NPS(in)	d	L	L0	H	D0	WT (Kg)
J65Y-2500Lb						
2	38	310	120	550	300	42
2 1/2	46	340	130	670	360	72
3	54	390	147	750	460	81
4	70	480	170	830	720	130

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

NPS(in)	d	L	L0	H	D0	L1	L2	电动装置* Electric actuator	WT(Kg)
J965Y-1500Lb									
3	64	368	140	990	305	410	565	SMC-0	200
4	84	457	170	990	305	420	654	SMC-1	310
5	100	533	185	1115	305	420	654	SMC-1	514
6	126	610	190	1763	457	440	688	SMC-2	534
8	158	762	262	2026	457	440	688	SMC-2	950
J965Y-2000Lb									
4	80	457	170	990	305	420	654	SMC-1	327
5	96	533	185	1115	305	420	654	SMC-1	408
6	118	610	190	1423	457	440	688	SMC-2	470
8	148	762	262	1615	457	440	688	SMC-2	1050
10	180	914	300	2240	610	715	-	SMC-4	1582
12	222	1041	360	2490	610	715	-	SMC-4	2340
J965Y-2500Lb									
2	38	310	120	810	305	400	555	SMC-00	130
2 1/2	46	340	130	895	305	400	555	SMC-00	160
3	54	390	140	985	305	410	565	SMC-0	217
4	70	480	170	990	305	420	654	SMC-1	337
5	86	580	185	1115	305	420	654	SMC-1	432
6	104	630	200	1280	457	440	688	SMC-2	652
8	130	770	260	1615	457	440	688	SMC-2	1122
10	162	930	300	1930	610	690	-	SMC-3	1652
12	210	1060	360	2240	610	715	-	SMC-4	3862
14	234	1160	395	2420	610	715	-	SMC-4	3662
J965Y-3500Lb									
3	48	470	150	1005	305	410	565	SMC-0	272
4	60	550	115	1133	305	410	565	SMC-0	387
5	74	660	200	1280	305	420	654	SMC-1	582
6	88	790	230	1320	305	420	654	SMC-1	847

注: *电装亦可供扬州、常州产品。 Note: * The motorized actuators can be Yangzhou, Changzhou products.



◆ 特点 Characteristics

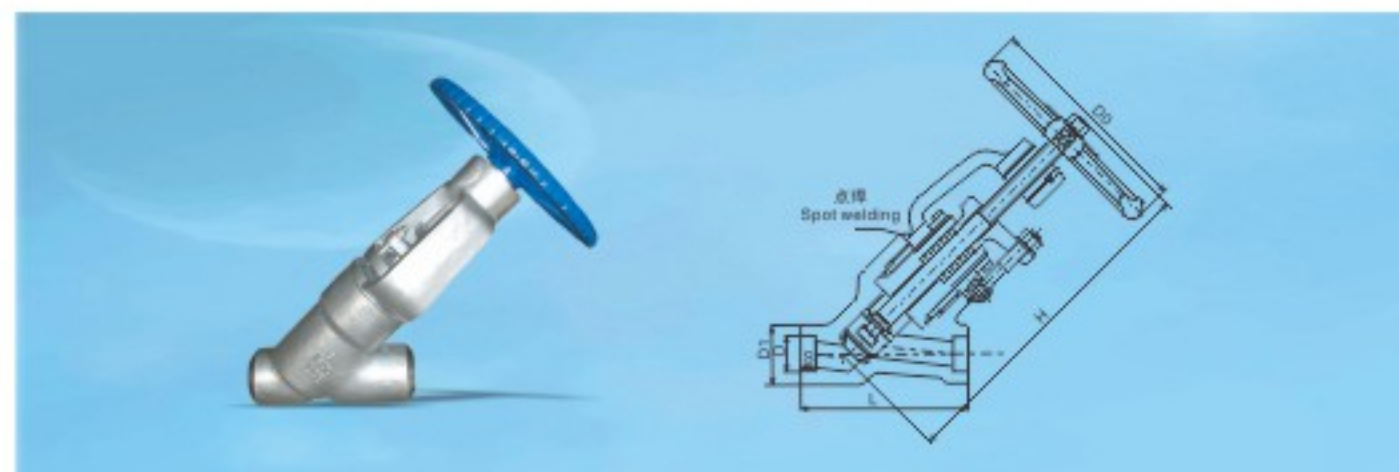
1. 阀体阀盖为整体锻制而成，强度高，造型美观，材质可靠；
 2. 中腔采用自紧密封结构，压力越高，密封性越好。独特的不锈钢自密封圈，拆装方便，密封可靠；
 3. 阀杆表面经超致密耐磨处理，耐磨耐蚀，启闭摩擦小，确保产品无外漏现象。
1. The valve bonnet for whole forging, high intensity, aesthetically pleasing, reliable material;
2. Pressure seal structure, the higher the pressure, the better sealing. The special stainless steel sealing ring, disassembly and assembly is convenient, reliable sealing;
3. The stem surface is super dense and wear-resistant, wear resistant and corrosion resistant, and the friction between start and stop is small, so as to ensure that the product has no leakage.

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	D	D1	d	α°	H	L	D0
J65Y(H)-1500Lb							
15	24	56	15	37.5°	315	190	200
20	32	56	19	37.5°	315	190	200
25	38	56	24	37.5°	315	190	200
32	48	82	30	37.5°	435	220	240
40	52	82	34	37.5°	435	220	280
50	66	90	42	37.5°	480	220	320

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	D	D1	d	α°	H	L	D0
J65Y(H)-2500Lb							
15	24	56	15	37.5°	315	190	200
20	32	56	19	37.5°	315	190	200
25	38	56	20	37.5°	315	190	200
32	48	82	29	37.5°	435	220	240
40	52	82	30	37.5°	435	220	280
50	66	90	39	37.5°	480	220	320



◆ 特点 Characteristics

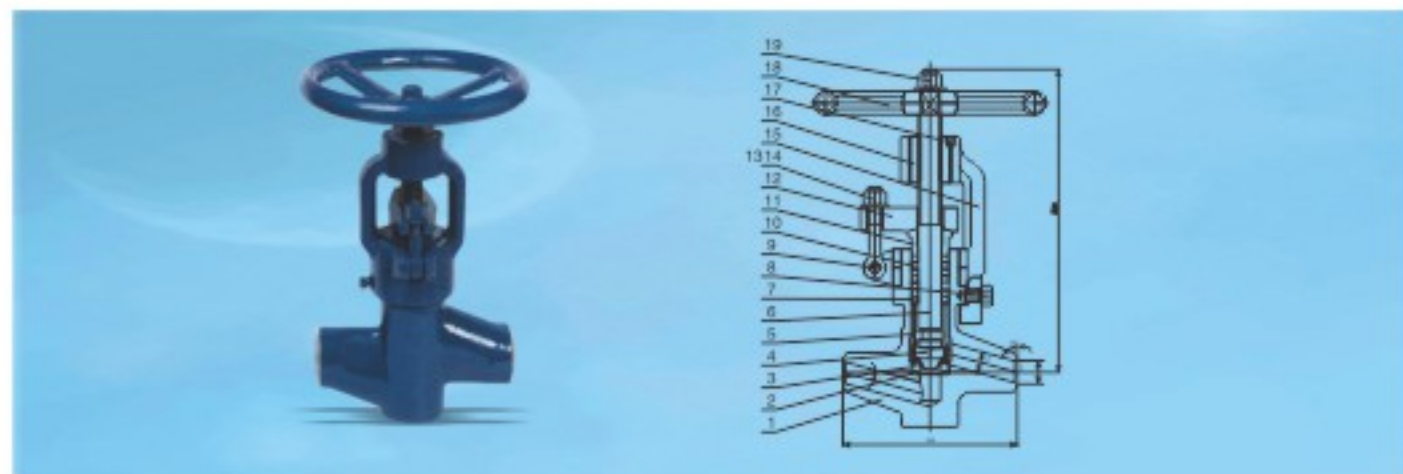
1. 阀体阀盖为整体锻制而成，强度高，造型美观，材质可靠；
 2. 中腔采用自紧密封结构，压力越高，密封性越好。独特的不锈钢自密封圈，拆装方便，密封可靠；
 3. 阀杆表面经超致密耐磨处理，耐磨耐蚀，启闭摩擦小，确保产品无外漏现象。
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◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	D	D1	H	L	S	D0
J65Y(H)-1500Lb						
15	22	56	315	155	13	200
20	27	56	315	155	13	200
25	34	56	315	155	13	200
32	43	82	435	210	13	240
40	49	82	435	210	13	280
50	61	90	480	250	16	320

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	D	D1	H	L	S	D0
J65Y(H)-2500Lb						
15	22	56	315	155	13	200
20	27	56	315	155	13	200
25	34	56	315	155	13	200
32	43	82	435	210	13	240
40	49	82	435	210	13	280
50	61	90	480	250	16	320



◆ 产品概述 Product Overview

本阀实用新型涉及一种高温高压抗冲蚀截止阀，主要由电动装置、阀体、阀盖、阀瓣、阀杆、高压密封垫组成。其中阀瓣密封面为球体，材料为碳化钛灰色结晶，熔点约3200℃，是超硬合金，具有高硬度、耐腐蚀、热稳定性好的特点。阀盖与电动装置通过传动螺母连接，阀门进出口接管与高压给水管焊接。阀瓣上部活动连接阀杆，阀杆顶部通过传动螺母与电动装置连接。本阀实用新型的有益效果是：实现零泄漏，减少阀门泄漏量，避免阀座、阀瓣高压冲蚀，延长阀门寿命。

The valve utility model relates to a kind of high temperature and high pressure resistance to erosion cut-off valve, mainly by the electric actuator, valve body, valve cover, valve disc, valve stem, high pressure seal. The clapper sealing surfaces. Sphere, material for titanium carbide film crystallization, melting point 3200 °C, is a hard alloy, high hardness, corrosion resistance, good thermal stability characteristics. Cover connected to the electric device through the nut, import and export valve pipe with high pressure to the pipe welding. Disc upper active connection, at the top of the stem through the drive nut connected to the electric actuator. This valve of the utility model is beneficial effects: to achieve zero leakage, the valve leakage, reduce avoid seat and disc pressure erosion, extend the life of the valve.

◆ 主要性能参数 Main Performance Parameters

型号 Model	PN	工作压力 Pressure of work (Mpa)	适用温度 Suitable temperature (°C)	适用介质 Applicable medium	材料 Material			
					阀体 Body	阀杆 Stem	密封球 Sealed ball	阀盖 Bonnet
JQ961Y-200	200	20	≤450	水、蒸汽 Water, steam	碳素钢 Carbon steel	合金钢 Alloy steel	纳米材料、 陶瓷、 硬质合金 Nanomaterials, ceramics, carbide	碳素钢 Carbon steel
JQ961Y-250	250	25						
JQ961Y-320	320	32						
JQ961Y-P ₁₀₀ V	100	10	≤540	水、蒸汽 Water, steam	合金钢 Alloy steel	合金钢 Alloy steel		合金钢 Alloy steel
JQ961Y-P ₁₄₀ V	140	14						
JQ961Y-P ₂₀₀ V	200	20						

◆ 主要外形及结构尺寸 Main Shapes And Structure Size

DN	长 Long	宽 Wide	高 High	L	H	D	D1	重量 Weight (Kg)
10	590	365	535	120	187	20	10	29.1
15	590	365	596	170	236	24	15	24.86
20	590	365	596	170	236	32	20	24.66
25	590	365	605	170	236	36	24	25.9
32	590	365	605	170	236	44	31	25.7
40	590	365	776	250	384	58	40	76.7
50	590	365	776	250	384	68	46	76.7

◆ 用途 Use

美标铸钢截止阀适用于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。
API Cast steel globe valve are used to cut or connect the pipe medium in Class150~2500 and working temperatures ≤600℃, in oil & chemical industry, thermal power station.

◆ 特点 Characteristics

- 1、产品设计制造按ASME B16.34及BS 1873标准，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、压力≥Class1500中腔采用自紧式密封结构，密封性随内压升高而升高，保证了密封的可靠；
- 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。

1. The products designs are in accordance with the ASME B16.34 and BS 1873, with rational structure reliable seal, excellent performance, and pretty appearance;
2. Co-radix 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. The central cavity with pressure ≥ Class1500 adopts self-tightening sealing structure, which means that the sealing will the internal pressure, and sealing is highly reliable;
5. There is backward sealing structure in the valve, so the sealing is reliable;
6. The material of the parts and the flange sizes can be chose and matched according to the applications and the requirements of the users. That can satisfies all kinds of working requirements.

◆ 执行标准 Standards Adopted

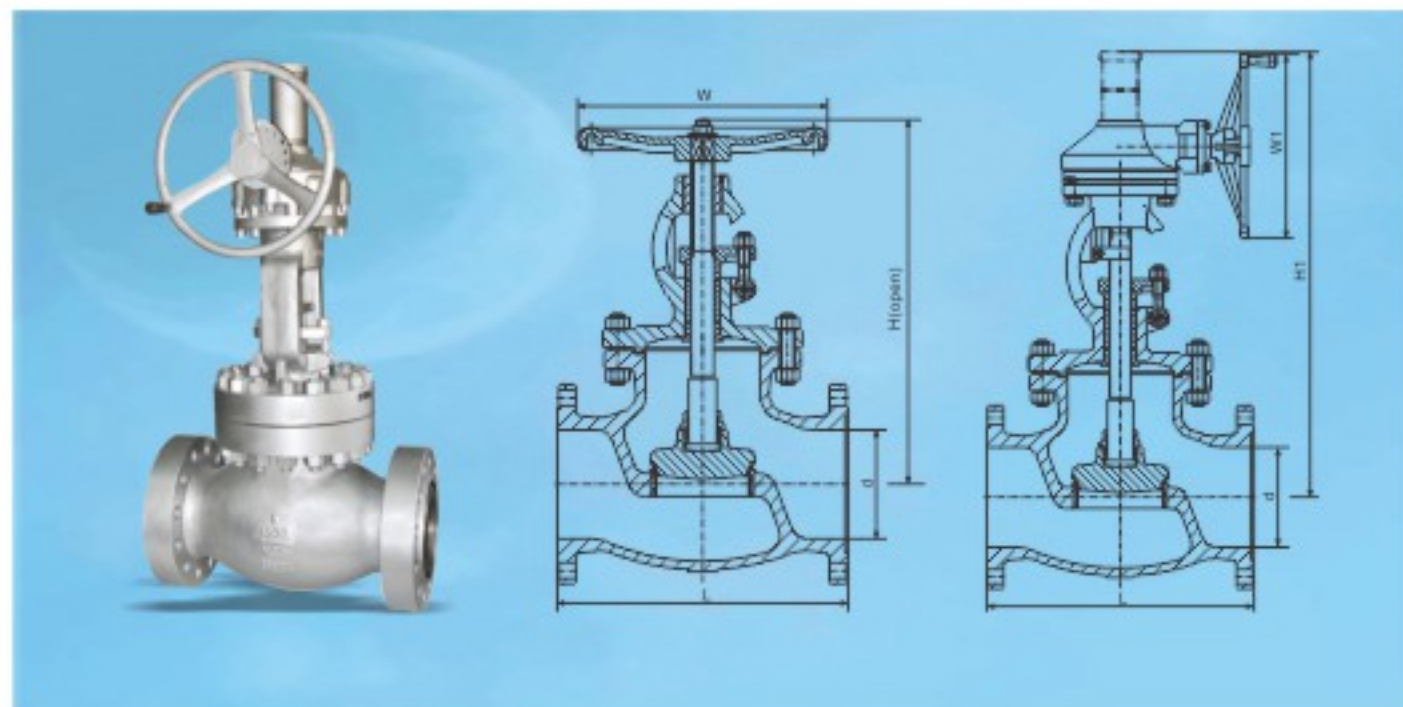
产品规范 Product specification	设计规范 Design spec	结构长度 Face to face	连接法兰 Flange end	试验与检验 Test & check	压力-温度 Pressure-temp
	ASME B 16.34 BS1873	ASME B16.10	ASME B16.5	API 598	ASME B16.34

◆ 性能规范 Performance Specification

公称压力(Lb) Nominal Pressure	强度试验 Shell test		水密封试验 Water seal test		气密封试验 Air seal test	
	MPa	Lbf/in ²	MPa	Lbf/in ²	MPa	Lbf/in ²
150	3.1	450	2.2	315	0.5~0.7	60~100
300	7.8	1125	5.6	815		
600	15.3	2225	11.2	1630		
900	23.1	3350	16.8	2440		
1500	38.4	5575	28.1	4080		
2500	64.6	9367	47.4	6873		

◆ 主要零件材料 Main Part Materials

阀体/阀盖/阀瓣 Body bonnet, disc	阀杆 Stem	密封面 Sealing face	垫片(环) Sealing shim	填料 Packing	工作温度(℃) Working temperature	适用介质 Suitable medium
WCB	2Cr13	13Cr STL 本体材料 With body material PTFE 尼龙 Nylon	增强柔性石墨 13Cr/柔性石墨 Enhanced Flexible 1Cr13/Flexible graphite SFB-2 08软钢 08Soft steel F304 F316 F304L F316L	柔性石墨 增强柔性石墨 Flexible graphite enhanced flexible graphite SFB/260 SFP/260 PTFE	≤425	水、蒸汽、油品 Water, Steam, Oil
WC1	38CrMoAl 25Cr2MoV 20Cr1Mo1V1A SUH800				≤450	
WC6					≤550	
WC9					≤590	
C5 C12					≤600	
CF8	F304				≤600	硝酸、醋酸、尿素 Nitric acid Acetic acid
CF3	F316					
CF8M	F304L					
CF3M	F316L					



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

磅级 Class	NPS (in)	DN (mm)	L			d	H	H1	W	W1	WT (kg)	
			RF	RTJ	BW						手轮 Handwheel	传动装置 Gear box
150	1/2	15	108	119	108	13	182	-	100	-	3	-
	3/4	20	117	130	117	19	193	-	100	-	4	-
	1	25	127	140	127	25	217	-	100	-	5	-
	1 1/4	32	140	152	140	32	235	-	135	-	8	-
	1 1/2	40	165	178	165	38	258	-	135	-	9	-
	2	50	203	216	203	51	330	-	200	-	19	-
	2 1/2	65	216	229	216	64	360	-	250	-	27	-
	3	80	241	254	241	76	390	-	280	-	36	-
	4	100	292	305	292	102	445	-	300	-	53	-
	5	125	356	369	356	127	480	-	350	-	75	-
	6	150	406	419	406	152	520	556	350	310	94	126
	8	200	495	508	495	203	600	658	400	310	148	180
	10	250	622	635	622	254	773	805	450	460	242	291
	12	300	698	711	698	305	880	955	500	460	438	480

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

磅级 Class	NPS (in)	DN (mm)	L			d	H	H1	W	W1	WT (kg)	
			RF	RTJ	BW						手轮 Hand wheel	传动装置 Gear box
300	1/2	15	152	164	152	13	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
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
	10	250	711	715	711	254	1030	1060	700	460	624	725
900	2	50	368	371	368	47	480	-	350	-	55	-
	2 1/2	65	419	422	419	57	520	-	350	-	68	-
	3	80	381	384	381	73	564	630	400	310	95	128
	4	100	457	460	457	98	685	720	450	310	160	210
	5	125	559	562	559	121	780	840	550	460	270	325
	6	150	610	613	610	146	950	1015	650	460	410	480

◆ 用途 Use

低温截止阀适用于低温液体储运设备的管理系统，具有开关灵活、密封可靠的特点，也可用于其他低温和深冷介质的管理系统。
 Low temperature cut-off valve is suitable for low temperature liquid handling equipment management system management system, has the characteristics of flexible switch, reliable seal, also can be used to other management systems of low temperature and cryogenic medium.

◆ 特点 Characteristics

1. 阀门在低温介质及周围环境温度下应具有长时间工作的能力；
2. 阀门不应成为低温系统的一个显著热源。这是因为热量的流入除降低热效率外，如流入过多，还会使内部流体急速蒸发，产生异常升压，造成危险；
3. 低温介质不应对手轮操作及填料密封性能产生有害的影响；
4. 直接与低温介质接触的阀门组合件应具有防爆和防火结构；
5. 在低温下工作的阀门组合件无法润滑，所以需要采取结构措施，以防止摩擦件磨损。

1. The valve in the low temperature medium and the surrounding environment temperature should have the ability to work long hours;
2. The valve should not be a low temperature system of a significant source of heat. This is because the heat flow in addition to the lower thermal efficiency, such as flow too much, still can make internal fluid evaporation rapidly, produce abnormal booster, dangerous;
3. Low temperature medium should not produce harmful to the hand wheel operation and packing seal performance;
4. Direct valve assembly shall be in contact with the medium and low temperature with explosion and fire prevention structure;
5. Work under low temperature of the valve assembly cannot lubrication, so you need to take structure measures, in order to prevent the friction abrasion.

◆ 执行标准 Enforce Standards

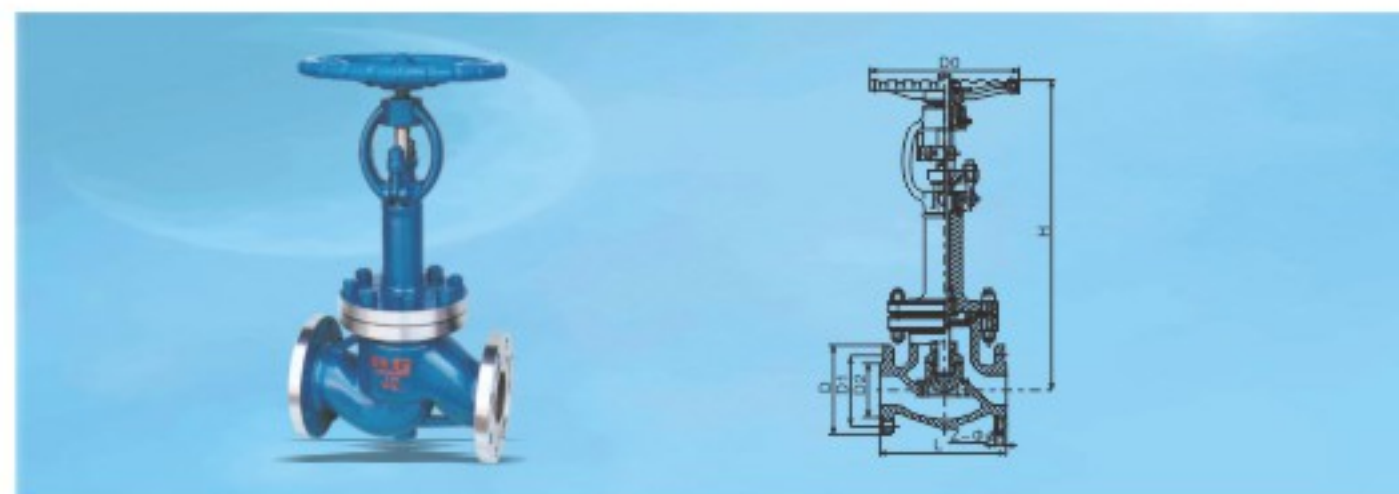
产品规范 Product Specification	设计规范 Design Spec	结构长度 Face to Face	连接法兰 Flange and	试验与检验 Test & Check	压力-温度 Pressure-Temp
	JB/T7749	GB/T12221	JB/T79、GB/T9113 HG/T20592	JB/T9092 GB/T13927	GB/T12224

◆ 性能规范 Performance Specification

公称压力PN(MPa) Nominal pressure	强度试验 Shell test	水密封试验 Water seal test	上密封试验 Back seat test	气密封试验 Air seal test
1.6	2.4	1.8	1.8	0.4-0.7
2.5	3.8	2.8	2.8	
4.0	6.0	4.4	4.4	

◆ 主要零件材料 Main Part Materials

阀体/阀盖/阀板 Body, bonnet, plate	阀杆 Stem	密封面 Sealing surface	垫片 Gasket	填料 Packing	工作温度(℃) Working temperature	适用介质 Applicable medium
LCB	1Cr17Ni12	DTL/DTL	1Cr13 柔性石墨 低温石棉 (Flexible graphite Low temperature asbestos)	PTFE 浸四氟乙 烯石棉绳 柔性石墨 (Dip four fluorine b Ene asbestos rope Flexible graphite)	-46	丙烷、丙烯 甲醇、乙烷 煤气、液氨 Propane, propylene Methanol, ethane Gas, liquid ammonia
LC1					-60	
LC2					-73	
LC3	1Cr18Ni9Ti				-101	
LC4					-115	
LC8					-196	



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

(PN1.6-4.0MPa)

DN(mm)	L	D	D ₁	D ₂	b	Z-φd	D ₀	H			WT (kg)
								-46℃	-101℃	-196℃	
DJ41Y-16C/P/R/PL/RL DJ641Y-16C/P/R/PL/RL DJ9B41Y-16C/P/R/PL/RL											
50	230	160	125	100	16	4-φ18	240	460	480	520	15
65	290	180	145	120	18	4-φ18	280	475	505	525	23
80	310	195	160	135	20	8-φ18	280	520	550	590	28
100	350	215	180	155	20	8-φ18	320	545	575	615	32
125	400	245	210	185	22	8-φ18	360	590	620	660	88
150	480	280	240	210	24	8-φ23	400	650	680	730	98
200	600	335	295	265	26	12-φ23	400	850	880	930	155
250	730	405	355	310	30	12-φ25	450	956	986	1036	425
300	850	460	410	375	30	12-φ25	500	1095	1125	1175	641
DJ41Y-25C/P/R/PL/RL DJ641Y-25C/P/R/PL/RL DJ9B41Y-25C/P/R/PL/RL											
50	230	160	125	100	20	4-φ18	240	460	480	520	16
65	290	180	145	120	22	8-φ18	280	475	505	525	23
80	310	195	160	135	22	8-φ18	280	520	550	590	29
100	350	230	190	160	24	8-φ23	320	545	575	615	32
125	400	270	220	188	28	8-φ25	360	590	620	660	90
150	480	300	250	218	30	8-φ25	400	650	680	730	98
200	600	360	310	278	34	12-φ25	400	850	880	930	159
250	730	425	370	332	36	12-φ30	450	956	986	1036	436
300	850	485	430	390	40	16-φ30	500	1095	1125	1175	657
DJ41Y-40C/P/R/PL/RL DJ641Y-40C/P/R/PL/RL DJ9B41Y-40C/P/R/PL/RL											
50	230	160	125	100	88	20	240	483	504	546	16
65	290	180	145	120	110	22	280	499	530	551	24
80	310	195	160	135	21	22	280	546	578	620	30
100	350	230	190	160	150	24	320	572	604	646	33
125	400	270	220	188	176	28	360	620	651	693	93
150	480	300	250	218	204	30	400	683	741	767	100
200	600	360	320	282	260	38	400	893	924	977	163
250	730	425	385	345	313	42	450	1004	1035	1088	447
300	850	485	450	408	364	46	500	1150	1181	1234	673

◆ 用途 Use

保温截止阀被广泛应用于石油、化工、冶金、制药等各类系统中，以输送常温下会凝固的高粘度介质。

Insulation globe valve is widely used in petroleum, chemical, metallurgical, pharmaceutical and other kinds of systems, in order to transport under normal temperature solidification of high viscosity medium.

◆ 特点 Characteristics

- | | |
|-----------------------|---|
| 1、结构简单，制造和维修比较方便； | 1. Simple structure, manufacture and maintenance more convenient; |
| 2、工作行程小，启闭时间短； | 2. Small work schedule, opening and closing time is short; |
| 3、密封性好，密封面间摩擦力小，寿命较长。 | 3. Good sealing, small friction between the sealing surface, long service life. |

◆ 执行标准 Enforce Standards

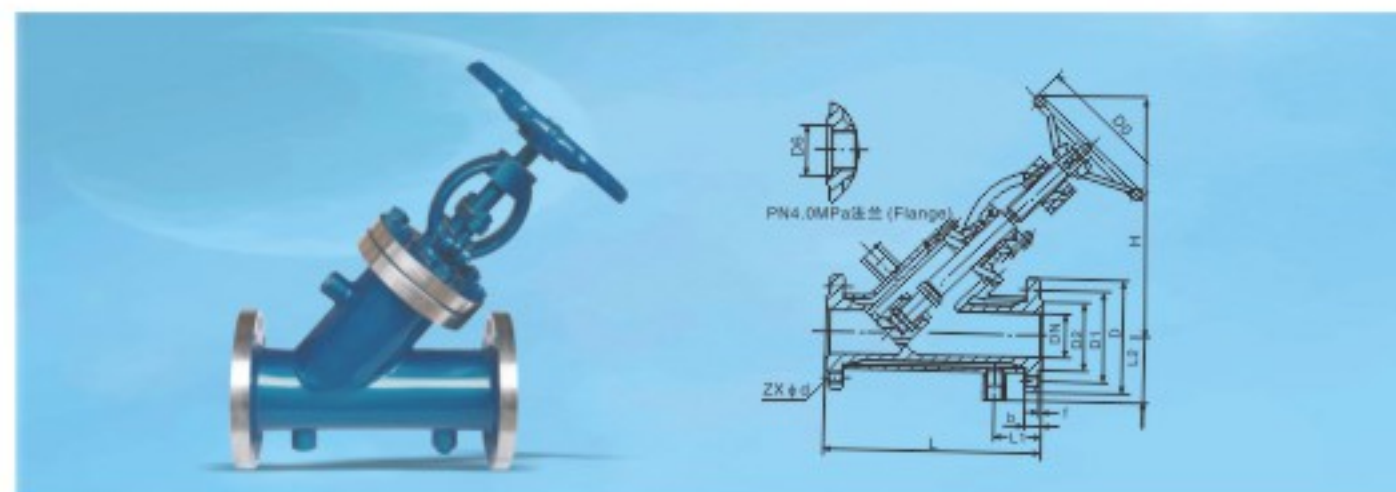
产品规范 Product Specification	设计规范 Design Spec	结构长度 Face to face	连接法兰 Flange end	试验与检验 Test&Check
	GB/T12235	GB/T12221	JB/T79、GB/T9113 HG/T20592	JB/T9092 GB/T13927

◆ 性能规范 Performance Specification

公称压力PN(MPa) Nominal pressure	试验压力(MPa)Test pressure		适用温度℃ Applicable temperature	适用介质 Applicable medium	保温套压力 (MPa) Insulation sets of pressure
	壳体 Shell	密封 Seal			
1.6	2.4	1.8	≤350	酸类 Acid	≤1.0
2.5	3.8	2.8	≤350	酸类 Acid	≤1.0

◆ 主要零件材料 Main Part Materials

零件名称 Part name	ZG1Cr18Ni9Ti 系列 (Series)	ZG00Cr18Ni10 系列 (Series)	ZG1Cr18Ni12Mo2Ti 系列 (Series)	ZG00Cr17Ni14Mo2 系列 (Series)	WCB系列 (Series)
阀体/阀盖 Body, bonnet	ZG1Cr18Ni9Ti	ZG00Cr18Ni10	ZG1Cr18Ni12Mo2Ti	ZG00Cr17Ni14Mo2	WCB
闸板 Disc	ZG1Cr18Ni9Ti	ZG00Cr18Ni10	ZG1Cr18Ni12Mo2Ti	ZG00Cr17Ni14Mo2	1Cr13
阀杆 Stem	1Cr18Ni9Ti	00Cr18Ni10	1Cr18Ni12MoTi	00Cr17Ni14Mo	1Cr13
填料 Packing	PTFE 纺织(Textile)	PTFE 纺织(Textile)	PTFE 纺织(Textile)	PTFE 纺织(Textile)	石墨 Graphite
垫片 Gasket	304L+PTFE	304L+PTFE	316L+PTFE	316L+PTFE	石墨(Graphite)+304
压盖 Gland	ZG1Cr18Ni9Ti	ZG00Cr18Ni10	ZG1Cr18Ni12Mo2Ti	ZG00Cr17Ni14Mo2	WCB
填料压环 Packing gland ring	1Cr18Ni9Ti	00Cr18Ni10	1Cr18Ni12MoTi	00Cr17Ni14Mo	1Cr13
螺栓 Bolt	1Cr17Ni2	1Cr17Ni2	1Cr17Ni2	1Cr17Ni2	35CrMoA
螺母 Nut	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni9Ti	45



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

(PN1.6~4.0MPa)

公称压力 (PN)Nominal pressure	DN(mm)	L	L1	L2	H	D	D1	D2	b	f	z × φd	D0	WT(Kg)
BJ41W-16/25/40													
PN16 PN25	25	210	50	65	250	135	100	78	18	2	4 × φ18	160	25
	32	230	55	70	270	145	110	85	18	3	4 × φ18	160	30
	40	260	60	78	310	160	125	100	20	3	4 × φ18	160	36
	50	300	60	88	330	180	145	120	22	3	8 × φ18	240	40
	65	340	65	95	360	195	160	135	22	3	8 × φ18	240	54
	80	380	70	112	400	230	190	160	24	3	8 × φ23	280	70
	100	430	75	132	480	270	220	188	28	3	8 × φ23	320	100
	125	490	80	146	550	300	250	218	30	3	8 × φ25	360	130
PN40	150	550	90	172	620	330	280	248	32	3	12 × φ25	360	170
	200	690	95	205	750	395	340	302	36	3	12 × φ25	400	250
	25	210	50	65	250	135	100	78	18	2	4 × φ18	160	25
	32	230	55	70	270	145	110	85	18	3	4 × φ18	160	33
	40	260	60	78	310	160	125	100	20	3	4 × φ18	160	41
	50	300	60	88	330	180	145	120	22	3	8 × φ18	240	45
	65	340	65	95	360	195	160	135	22	3	8 × φ18	240	62
	80	380	70	112	400	230	190	160	24	3	8 × φ23	280	80
	100	430	75	132	480	270	220	188	28	3	8 × φ25	320	100
	125	490	80	146	550	300	250	218	30	3	8 × φ25	360	130
	150	550	90	172	620	350	295	258	34	3	12 × φ30	360	185
	200	690	95	205	750	415	355	315	40	3	12 × φ34	400	268

◆ 用途 Use

氧气专用截止阀采用材质优良的硅黄铜或不锈钢铸造而成,具有机械强度高、耐磨损、安全性好等优点。适用在氧气管路上,具有最佳的防爆阻燃性能,消除了氧气管路上的不安全因素。

Oxygen special globe valve material excellent silicon brass or stainless steel casting and become, has high mechanical strength, wear resistance, good security, etc. Used in the way of oxygen tubes, have best explosion-proof flame retardant performance, eliminating oxygen and the unsafe factors on the road.

◆ 特点 Characteristics

该产品除了具有普通阀门的功能外,又有其自身的特点。在制造时采用严格的禁油措施,并且所有零件在安装前均进行严格的脱脂处理。所有通径阀门法兰端均设有导电螺孔,以防静电。阀门外露部位有保护措施,防止尘土和油类污染。该产品的所用材料分两大类:一类是选用了铸造硅黄铜为阀体、阀盖、阀瓣的用材;另一类是选用了优质不锈钢为阀体、阀盖、阀瓣的用材。

This product not only have the normal function of the valve, and has its own characteristics. With strict ban oil measures in manufacture, and all parts were strict degreasing before installation to deal with. All sizes have conductive screw hole flange end, to prevent static electricity. The leakage valve parts has protective measures to prevent dust and oil pollution. Materials used on this product in two kinds: one kind is to choose the casting silicon brass body, cover, disc material; Another kind is to choose the high quality stainless steel for body, cover, the material of the disc.

◆ 执行标准 Enforce Standards

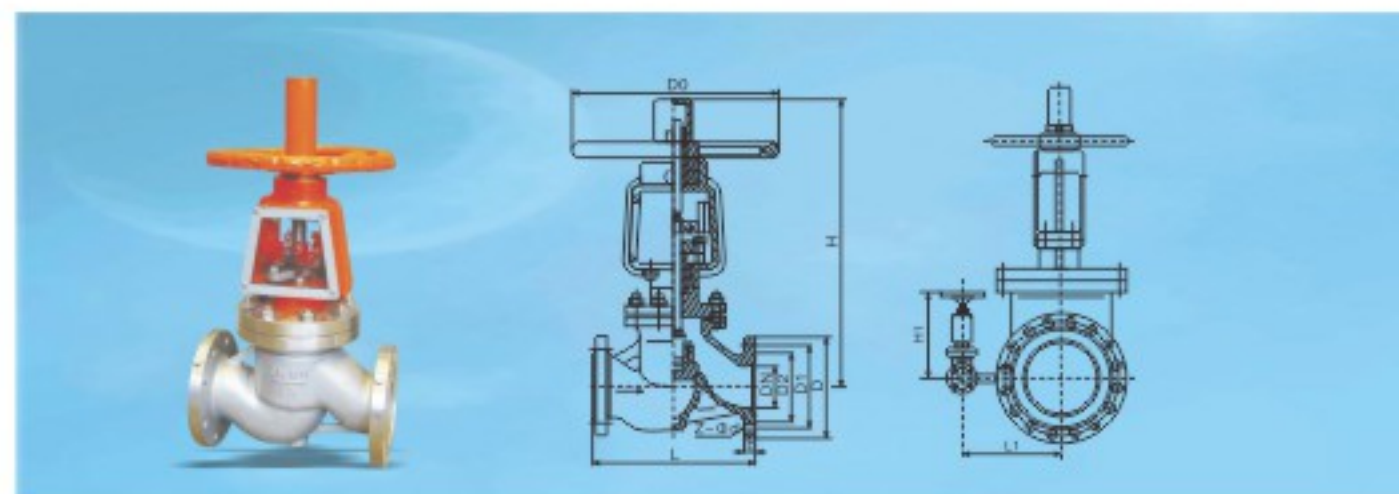
产品规范 Product Specification	设计规范 Design Spec	结构长度 Face to face	连接法兰 Flange end	试验与检验 Test & Check
	GB/T12235	GB/T12221	JB/T79、GB/T9113 HG/T20592	JB/T9092 GB/T13927

◆ 性能规范 Performance Specification

公称通径 (DN) Nominal diameter	15—400			
公称压力 (MPa) Nominal pressure	1.6	2.5	4.0	
试验压力 (MPa) Test pressure	强度 strength test	2.4	3.75	6.0
	密封 Sealing	1.76	2.75	4.4
适用温度 Applicable Temp.	≤200℃			
适用介质 Applicable medium	氧气 Oxygen			

◆ 主要零件材料 Main Part Materials

零件名称 Part name	零部件材料 Part Material
阀体/阀盖 Body, bonnet	不锈钢、黄铜 Stainless steel, brass
阀杆 Stem	不锈钢、黄铜 Stainless steel, brass
阀瓣 Disc	25#密封面尼龙 (Sealing surface nylon)
阀杆螺母 Stem nut	青铜 Bronze
填料 Packing	增强聚四氟乙烯成形 Enhanced ptfe forming
垫片 Gasket	XB450
手轮 Handwheel	球墨铸铁 Nodular cast iron



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

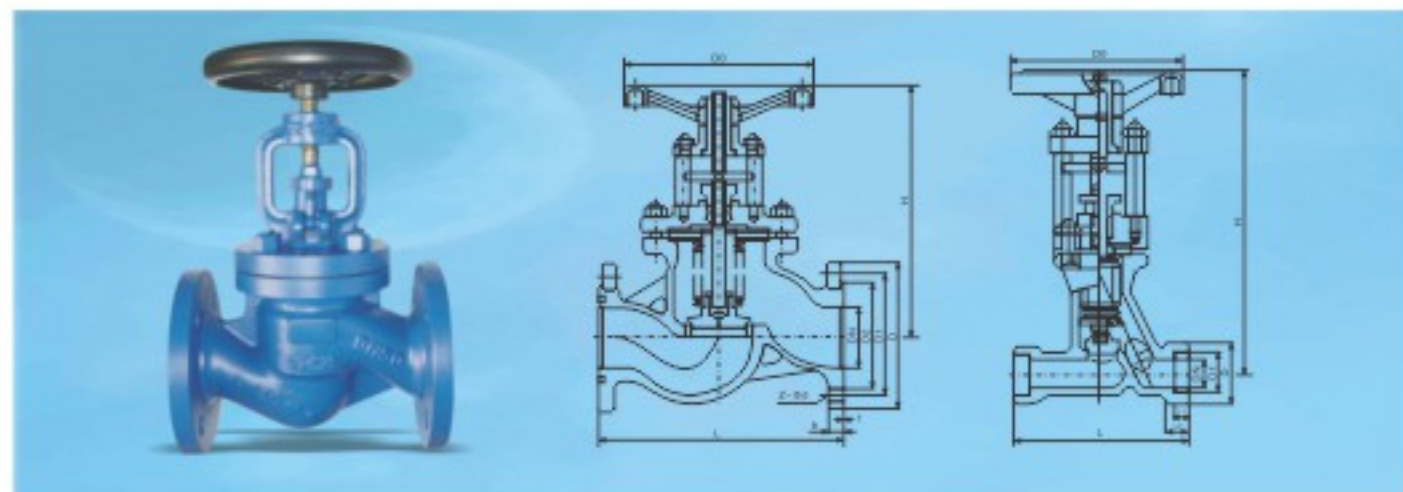
(PN2.5MPa)

DN(mm)	L	D	D ₁	D ₂	b	Z-φd	D ₀	H	H ₁	L ₁
JY41W-25P/PL JY41W-25T										
15	130	95	65	45	16	4-φ14	100	190	-	-
20	150	105	75	55	16	4-φ14	100	213	-	-
25	160	115	85	65	16	4-φ14	125	236	-	-
32	180	135	100	78	18	4-φ18	180	312	-	-
40	200	145	110	85	18	4-φ18	160	328	-	-
50	230	160	125	100	20	4-φ18	320	450	-	-
65	290	180	145	120	22	8-φ18	360	530	-	-
80	310	195	160	135	22	8-φ18	400	560	-	-
100	350	230	190	160	24	8-φ23	450	618	-	-
125	400	270	220	188	28	8-φ25	450	675	-	-
150	480	300	250	218	30	8-φ25	560	743	-	-
200	600	360	310	278	34	12-φ25	640	850	-	-
250	650	425	370	332	36	12-φ30	720	975	340	380
300	750	485	430	390	40	16-φ30	800	1115	340	415
400	950	610	550	505	48	16-φ34	900	1380	340	465

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

(PN4.0MPa)

DN(mm)	L	D	D ₁	D ₂	b	Z-φd	D ₀	H	H ₁	L ₁
JY41W-40P/PL JY41W-40T										
15	130	95	65	45	40	4-φ14	100	202	-	-
20	150	105	75	55	51	4-φ14	100	225	-	-
25	160	115	85	65	58	4-φ14	125	236	-	-
32	180	135	100	78	66	4-φ18	180	312	-	-
40	200	145	110	85	76	4-φ18	160	328	-	-
50	230	160	125	100	88	4-φ18	320	450	-	-
65	290	180	145	120	110	8-φ18	360	530	-	-
80	310	195	160	135	121	8-φ18	400	560	-	-
100	350	230	190	160	150	8-φ23	450	618	-	-
125	400	270	220	188	176	8-φ25	450	675	-	-
150	480	300	250	218	204	8-φ25	560	743	-	-
200	600	375	320	282	160	12-φ30	640	850	-	-
250	650	445	385	345	313	12-φ34	720	975	340	380
300	750	510	450	408	364	16-φ34	800	1115	340	415
400	950	655	585	535	474	16-φ41	900	1425	340	465

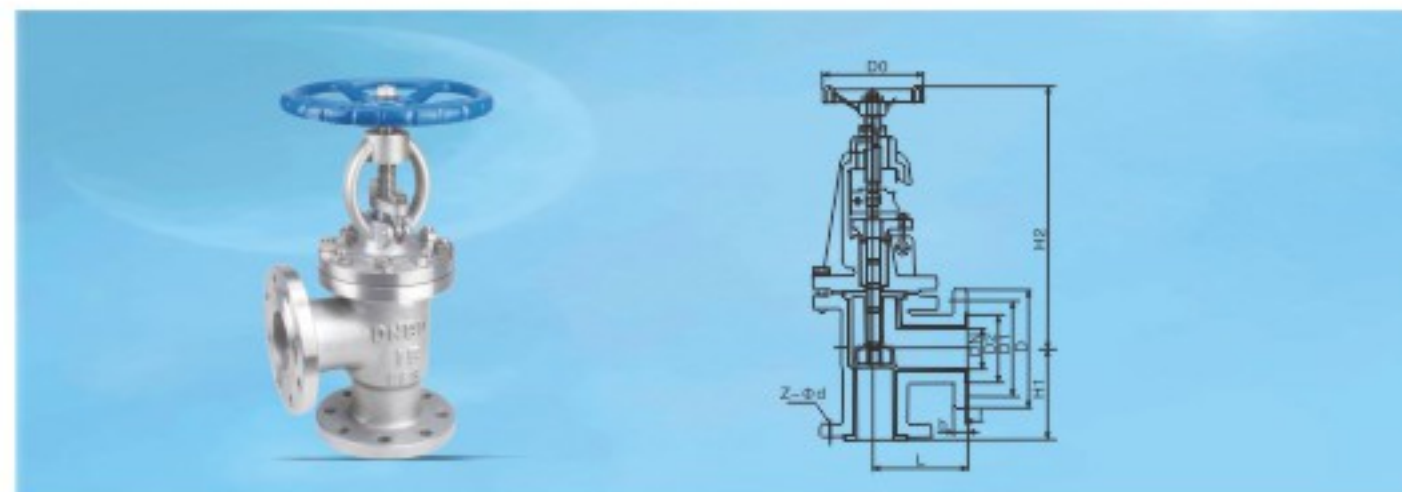


◆ 主要外形连接尺寸 Main Boundary Connection Dimension (PN1.6~4.0MPa)

DN(mm)	L	D	D2	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

◆ 主要外形连接尺寸 Main Boundary Connection Dimension (PN1.6~4.0MPa)

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	330	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



◆ 性能规范 Performance Specification

1. 试验压力 Test Pressure

公称压力 (MPa) Nominal pressure	试验压力(MPa) Test pressure			
	壳体 Shell	密封(液) Seal (liquid)	密封(气) Seal (gas)	上密封 Back seat
1.6	2.4	1.8	0.6	1.8
2.5	3.8	2.8	0.6	2.8
4.0	6.0	4.4	0.6	4.4
6.4	9.6	7.0	0.6	7.0
10.0	15.0	11.0	0.6	11.0
16.0	24.0	18.0	0.6	18.0

2. 适用范围 Suitable Scope

壳体材料 Shell material	适用介质 Applicable medium	适用温度℃ Applicable temperature
碳素钢(C型) Carbon steel(C type)	水、蒸汽、油品 Water, steam, oil goods	≤425
铬镍钛钢(P型) Cr.Ni.Ti steel(P type)	硝酸类 Nitric acid	≤200
铬镍钼钛钢(R型) Cr.Ni.Mo.Ti steel (R type)	醋酸类 Acetic acid	≤200
铬钼钢(I型) Cr.Mo steel(I type)	水、蒸汽、油品 Water, steam, oil goods	≤550

◆ 主要外形连接尺寸 Main Boundary Connection Dimension (PN1.6/2.5MPa)

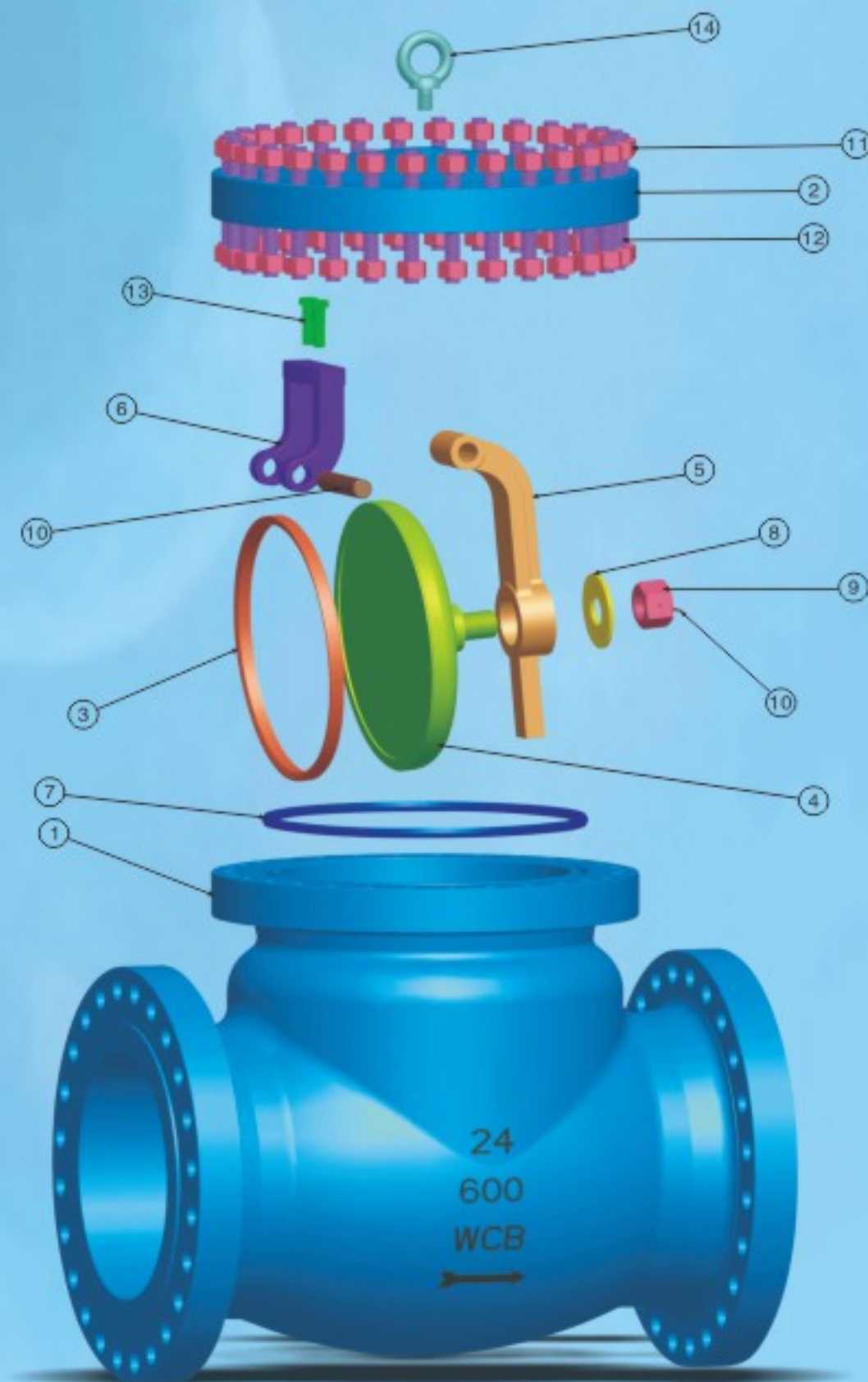
DN(mm)	L	D	D1	D2	b	f	Z-φd	D0	H1	H2
	(J44H/Y/W-16/25C/P/R/L)									
25	160	115	85	65	18	3	4-14	100	220	236
32	180	135	100	78	18	3	4-18	120	251	273
40	200	145	110	85	20	3	4-18	140	283	306
50	230	160	125	100	20	3	4-18	160	316	344
65	290	180	145	120	22	3	4-18	180	353	383
80	310	195	160	135	22	3	8-18	200	437	479
100	350	215	180	155	24	3	8-18	240	479	529
125	400	245	210	180	26	3	8-18	280	542	608
150	480	280	240	210	28	4	8-18	320	605	680
200	600	335	295	265	30	4	12-23	360	650	755

铸钢止回阀系列 CAST STEEL CHECK VALVE SERIES



止回阀产品结构
Check Valve Products Structure

理想阀门 



◆ 止回阀概述 Overview Of Check Valves

止回阀又称止逆阀、单流阀、单向阀或逆止阀，其作用是保证管路中的介质定向流动而不致倒流的功能。水泵吸水管的底阀也属于止回阀类。止回阀属于自动阀门，压力1.6~25MPa/Class150~2500/2.0~42.0MPa，工作温度-29~+550℃，材质通常有：铸钢WCB，铸铁HT200，HT250，QT350，QT450，合金钢WC6，WC9，CN7M不锈钢有CF8(M)，CF3(M)，锻钢有A105，F304(L)，F316L等。被广泛应用于石油、化工、制药、化肥、电力行业等各种工况的管路上，适用介质为水、油品、蒸汽、酸性介质等。是控制管道内介质单向流向的阀门，用来防止管路中的介质倒流。

Check valve, also known as check valve, single flow valve, one-way valve or check valve, its role is to ensure that the pipeline medium directional flow without backflow function. Bottom valve pump water pipe check valve also belongs to class. Check valves are automatic valves, pressure 1.6~25MPa /Class150~2500/2.0~42.0MPa, temperature of -29~+550℃, usually material: steel WCB, iron HT200, HT250, QT350, QT450, WC6, WC9, CN7M alloy steel, stainless steel CF8 (M), CF3 (M), A105 forged steel, F304 (L), F316L. It is widely used in petroleum, chemical, pharmaceutical, fertilizer, power industry and other working conditions of the pipeline, the applicable medium for water, oil, steam, acid medium, etc.. It is the valve that controls the one-way flow of the medium in the pipeline, and prevents the backflow of the medium in the pipeline.

◆ 止回阀特点 Characteristics Of Check Valve

- 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、内装式的销轴结构，减小外泄漏点，使用可靠。
- 4、当压力≥16.0MPa、Class1500时，阀门中腔采用自紧式密封结构，介质压力越高，密封性能越好。
- 5、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。

1. The product structure is reasonable, reliable sealing, good performance, beautiful appearance.
2. Sealing surface surfacing Co base cemented carbide, wear resistance, corrosion resistance, good scratch resistance, long service life.
3. The built-in pin structure, reduce leakage point, the use of reliable.
4. When the pressure is larger than 16.0MPa and Class1500, the valve chamber with self sealing structure, the higher the pressure medium, the better the sealing performance.
5. The material and flange, butt welding end size can be selected according to actual conditions or user requirements, to meet the needs of various projects.

◆ 主要零部件 Main Part

序号No.	名称	Part name	序号No.	名称	Part name
01	阀体	Body	08	垫圈	Disc Washer
02	阀盖	Bonnet	09	螺母	Disc Nut
03	阀座	Seat	10	圆柱销	Pin
04	阀瓣	Disc	11	螺母	Cover Nut
05	摇臂	Hinge	12	螺柱	Cover Stud
06	支架	Bracket	13	六角头螺栓	Hex Head Screw
07	中法兰垫片	Bonnet Gasket	14	吊环螺钉	Eye Bolt



◆ 用途 Use

旋启式止回阀适用于压力PN1.6~42.0MPa，工作温度-46℃~570℃的石油、化工、制药、化肥、电力行业等各种工况的管路上，防止介质的倒流。

Swing check valves are used in pipes under pressures between PN1.6~42.0MPa, working temperatures between -46℃~570℃, they are used in industries include oil, chemistry, pharmaceutical, fertilizer, and power generation to prevent the backward flux of the media.

◆ 特点 Characteristics

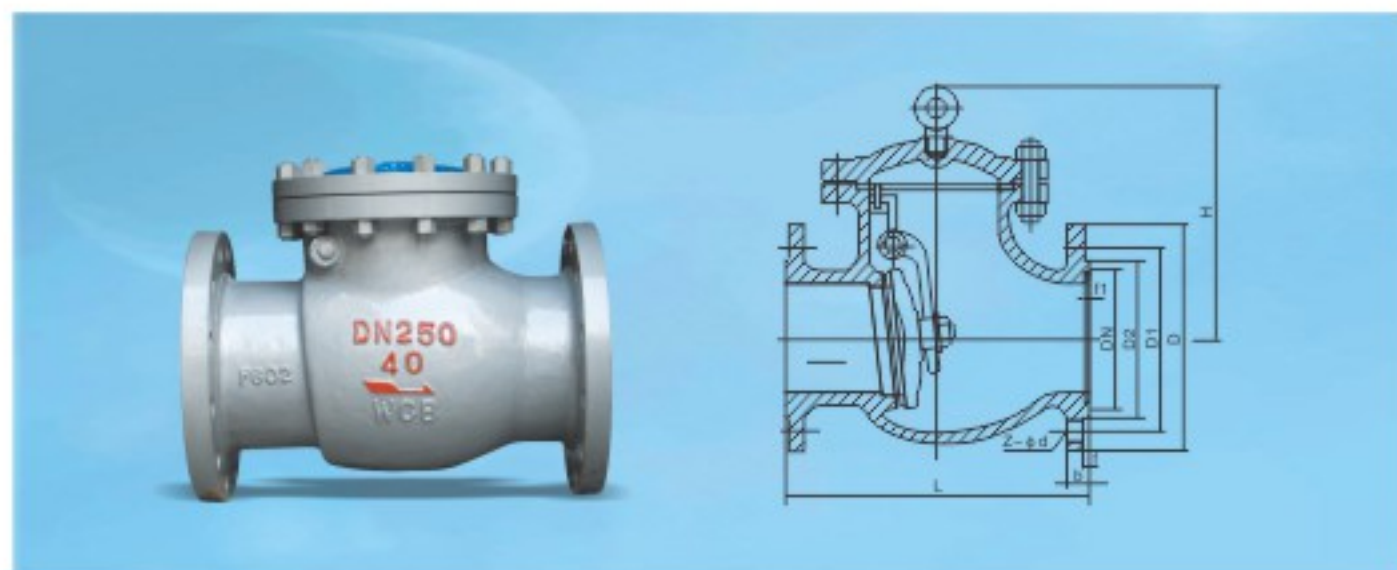
- 1、产品结构合理、密封可靠、性能优良、造型美观；
 - 2、密封面堆焊Co基硬质合金，耐磨、耐蚀、抗擦伤性能好、使用寿命长；
 - 3、内装式的销轴结构，减小外泄漏点，使用可靠；
 - 4、当压力≥16.0MPa时，阀门中腔采用自紧式密封结构，介质压力越高，密封性能越好；
 - 5、零件材质及法兰、对焊端尺寸可根据实际工况或用户要求合理选配，满足各种工程需要。
1. Rational structure, reliable sealing, excellent performance, pretty appearance;
 2. Co-radix alloy welded sealing surface, anti-wearing, erosion-proof abrasion-proof and longer use life;
 3. Inside-set bolt-bearing structure reduces leakage and reliable use;
 4. Under pressures≥16.0MPa the valve belly, self-tightening structure offers a tighter sealing for a higher medium pressure;
 5. Different parts materials and different sizes for flange, butt-welding are available for sensible combination according to different working facts and customers' requirements.

◆ 性能规范 Performance Specification

设计标准 Design standard		GB/T 12236					
压力温度等级 Pressure-temperature rating		GB/T 12224					
结构长度 Face to face		GB/T 12221、GB/T 15188.1					
法兰型式尺寸 Flange ends		GB/T 9113.1、JB/T 79.1					
对焊端连接 Buttwelding ends		GB/T 12224					
检验与试验 Inspection & test		JB/T 9092、GB/T 13927					
试验压力(MPa) Test pressure	公称压力 Nominal pressure	PN1.6	PN2.5	PN4.0	PN6.4	PN10.0	PN16.0
	壳体试验 Shell test	2.4	3.8	6.0	9.6	15.0	24.0
	高压密封 High Pressure seal test	1.8	2.8	4.4	7.1	11.0	17.6
	低压密封 Low Pressure seal test	0.6					

◆ 主要零件材料 Main Part Materials

零件名称 Part name	碳钢 Carbon steel	不锈钢 Stainless steel	合金钢 Alloy steel	低温钢 Low Temperature steel
阀体 Body	WCB	CF8	WC6	LCB
阀座 Seat	25#	0Cr18Ni9(304)	12Cr1MoVA	0Cr18Ni9(304)
阀瓣 Disc	WCB	CF8	WC6	LCB
摇杆 Hinge	WCB	CF8	WC6	LCB
销轴 Pin	1Cr13	0Cr18Ni9(304)	0Cr18Ni9(304)	0Cr18Ni9(304)
连接架 Bearing Bracket	WCB	CF8	WC6	LCB
垫片 Gasket	柔性石墨 Flexible graphite +SS304	柔性石墨 Flexible graphite +SS304	柔性石墨 Flexible graphite +SS304	柔性石墨 Flexible graphite +SS304
阀盖 Bonnet	WCB	CF8	WC6	LCB
双头螺柱 Stud	35CrMoA	0Cr18Ni9(304)/B8	B16/25Cr2MoVA	35CrMoA/B7
螺母 Nut	45#	0Cr18Ni9(304)/8	7/35CrMoA	45/2H



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	L	D	D ₁	D ₂	b	Z-φd	H	WT (kg)
H44H-16C			H44W-16P/R/PL/RL			H44Y-16I		
50	230	160	125	100	20	4-φ18	135	21
65	290	180	145	120	20	4-φ18	142	28
80	310	195	160	135	22	8-φ18	165	38
100	350	215	180	155	24	8-φ18	180	58
125	400	245	210	185	26	8-φ18	210	92
150	480	280	240	210	28	8-φ23	233	130
200	500	335	295	265	30	12-φ23	304	210
250	550	405	355	320	32	12-φ25	348	294
300	650	460	410	375	34	12-φ25	390	367
350	750	520	470	435	38	16-φ25	430	410
400	850	580	525	485	40	16-φ30	468	461
450	950	640	585	545	40	20-φ30	523	570
500	1150	705	650	608	46	20-φ34	525	850
H44H-25C			H44W-25P/R/PL/RL			H44Y-25I		
50	230	160	125	100	22	4-φ18	160	22
65	290	180	145	120	24	8-φ18	175	29
80	310	195	160	135	26	8-φ18	185	38
100	350	230	190	160	30	8-φ23	220	61
125	400	270	220	188	32	8-φ25	248	96
150	480	300	250	218	32	8-φ25	276	132
200	550	360	310	278	36	12-φ25	350	213
250	650	425	370	332	40	12-φ30	410	297
300	750	485	430	390	42	16-φ30	430	372
350	850	550	490	448	44	16-φ34	518	415
400	950	610	550	505	48	16-φ34	560	480
450	1025	660	600	555	50	20-φ34	582	610
500	1150	730	660	610	56	20-φ41	618	920

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	L	D	D ₁	D ₂	D ₆	b	f	F ₁	Z-φd	H	WT (kg)
H44H-40C			H44W-40P/R/PL/RL			H44Y-40I					
50	230	160	125	100	88	20	3	4	4-φ18	169	22
65	290	180	145	120	110	22	3	4	8-φ18	173	29
80	310	195	160	135	121	22	3	4	8-φ18	185	38
100	350	230	190	160	150	24	3	4.5	8-φ23	220	61
125	400	270	220	188	176	28	3	4.5	8-φ25	248	96
150	480	300	250	218	204	30	3	4.5	8-φ25	270	132
200	550	375	320	282	280	38	3	4.5	12-φ30	342	213
250	650	445	385	345	313	42	3	4.5	12-φ34	401	297
300	750	510	450	408	364	46	4	4.5	16-φ34	423	372
350	850	570	510	465	422	52	4	5	16-φ34	455	415
400	950	655	585	535	474	58	4	5	16-φ41	510	480

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	L	D	D ₁	D ₂	D ₆	b	f	F ₁	Z-φd	H	WT (kg)
H44H-64C			H44W-64P/R/PL/RL			H44Y-64I					
50	300	175	135	105	88	26	3	4	4-φ23	177	27
65	340	200	160	130	110	28	3	4	8-φ23	197	37
80	380	210	170	140	121	30	3	4	8-φ23	212	57
100	430	250	200	168	150	32	3	4.5	8-φ25	248	89
125	500	295	240	202	176	36	3	4.5	8-φ30	296	135
150	550	340	280	240	204	38	3	4.5	8-φ34	380	184
200	650	405	345	300	280	44	3	4.5	12-φ34	385	266
250	775	470	400	352	313	48	3	4.5	12-φ41	445	396
300	900	530	460	412	364	54	4	4.5	16-φ41	474	643
350	1025	595	525	475	422	60	4	5	16-φ41	514	815
400	1150	670	585	525	474	66	4	5	16-φ48	616	1234

◆ 用途 Use

国标升降式止回阀适用于公称压力PN1.6~16.0MPa, 工作温度-46~550℃的石油、化工、制药、化肥、电力行业等各种工况的管路上, 防止介质的倒流。

GB Lift Check Valve are used in pipes under nominal pressures between PN1.6~16.0Mpa, working temperatures between -46~550℃. They are used in industries include oil, chemistry, pharmaceutical, fertilizer, and power generation to prevent the backward flux of the media.

◆ 特点 Characteristics

1. 产品结构合理、密封可靠、性能优良、造型美观;
2. 阀瓣、阀座密封面堆焊Co基硬质合金, 耐磨、耐蚀、抗擦伤性能好、使用寿命长;
3. 零件材质及法兰、垫片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。

1. Rational structure, reliable sealing, excellent performance, pretty appearance;
2. Co hard alloy welded sealing surface of the discs and seats, which is wearing resistant, erosion proof, abrasion proof and long-lived;
3. Different parts materials and different sizes for flange, & gasket-welding are available for sensible combination according to different working facts and customer's requirements.

◆ 性能规范 Performance Specification

设计标准 Design standard		GB/T 12235				
压力温度等级 Pressure-temperature rating		GB/T 12224				
结构长度 Face to face		GB/T 12221				
法兰型式尺寸 Flange ends		GB/T 9113.1, JB/T 79.1				
检验与试验 Inspection & test		JB/T 9092, GB/T 13927				
试验压力(MPa) Test pressure	公称压力 Nominal pressure	PN1.6	PN2.5	PN4.0	PN6.4	PN10.0
	壳体试验 Shell test	2.4	3.8	6.0	9.6	15.0
	高压密封 High Pressure seal test	1.8	2.8	4.4	7.1	11.0
	低压密封 Low Pressure seal test	0.6				

◆ 主要零件材料 Main Part Materials

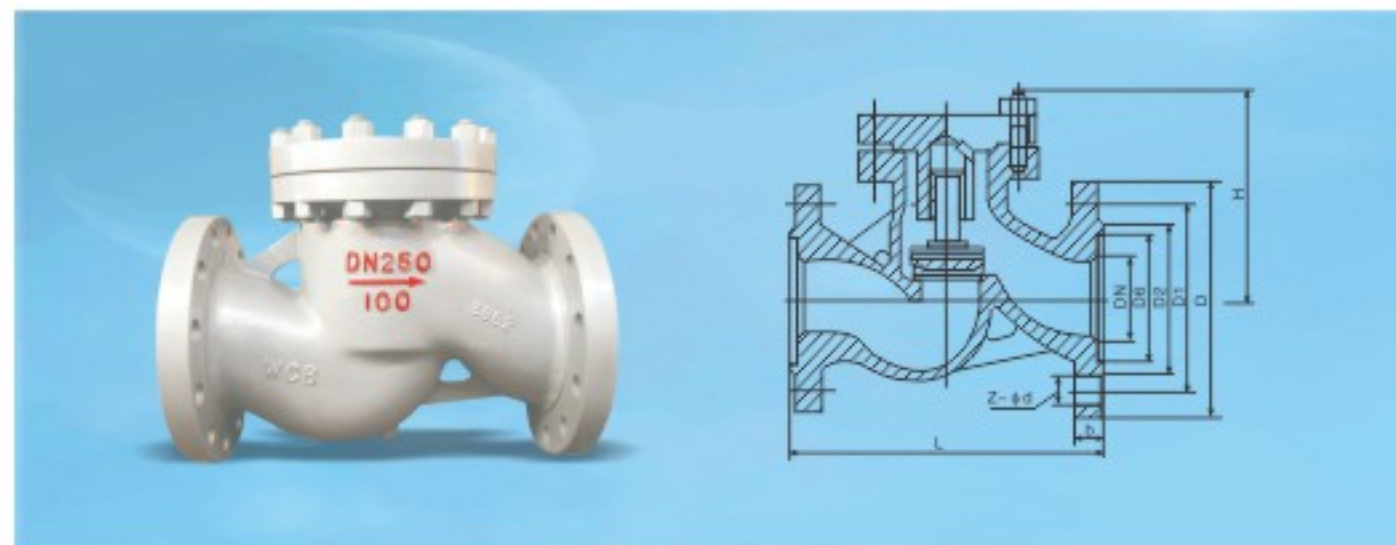
序号 No.	零件名称 Part name	碳钢 Carbon steel	不锈钢 Stainless steel	合金钢 Alloy steel	低温钢 Low Temperature steel
1	阀体 Body	WCB	CF8	WC6	LCB
2	阀瓣 Disc	WCB/25	CF8/F304	WC6/F11	LCB/LF2
3	垫片 Gasket	柔性石墨 Flexible graphite+SS304	柔性石墨 Flexible graphite+SS304	柔性石墨 Flexible graphite+SS304	柔性石墨 Flexible graphite+SS304
4	阀盖 Bonnet	WCB	CF8	WC6	LCB
5	双头螺栓 Stud	35CrMoA	0Cr18Ni9(304)	25Cr2MoVA	35CrMoA
6	螺母 Nut	45#	0Cr18Ni9(304)	35CrMoA	45#
7	弹簧 Spring	60S12Mn	0Cr18Ni9(304)	0Cr18Ni9(304)	0Cr18Ni9(304)

注: 1、不同的工况温度和工况介质选用不同的材料。

2、常用内件材料的组合及使用温度见附录VII。

Note: 1. Select different materials for different working temperature and media.

2. Commonly-used trim materials and service temperature referred to Appendix VII.



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	L	D	D ₁	D ₂	b	Z-φd	H	WT (kg)
H41H-16C H41W-16P/PL H41W-16R/RL H41Y-16I								
15	130	95	65	45	14	4-φ14	77	3
20	150	105	75	55	14	4-φ14	77	4
25	160	115	85	65	14	4-φ14	80	5
32	180	135	100	78	16	4-φ18	85	7
40	200	145	110	85	16	4-φ18	95	9
50	230	160	125	100	16	4-φ18	105	10
65	290	180	145	120	18	4-φ18	120	20
80	310	195	160	135	20	8-φ18	130	30
100	350	215	180	155	20	8-φ18	140	39
125	400	245	210	185	22	8-φ18	155	50
150	480	280	240	210	24	8-φ23	180	70
200	600	335	295	265	26	12-φ23	215	161
250	650	405	355	320	30	12-φ25	260	251
300	750	460	410	375	34	12-φ25	315	385
H41H-25C H41W-25P/PL H41W-25R/RL H41Y-25I								
15	130	95	65	45	16	4-φ14	100	3.4
20	150	105	75	55	16	4-φ14	105	5
25	160	115	85	65	16	4-φ14	120	5.7
32	180	135	100	78	18	4-φ18	130	9.1
40	200	145	110	85	18	4-φ18	135	11.8
50	230	160	125	100	20	4-φ18	149	14.4
65	290	180	145	120	22	4-φ18	160	23
80	310	195	160	135	22	8-φ18	169	30
100	350	230	190	160	24	8-φ23	194	44
125	400	270	220	188	28	8-φ25	222	65
150	480	300	250	218	30	8-φ25	255	99
200	600	360	310	278	34	12-φ25	305	190
250	650	425	370	332	36	12-φ30	355	315
300	750	485	430	390	40	12-φ30	410	450

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	L	D	D ₁	D ₂	D ₆	b	Z-φd	H	WT (kg)
H41H-40C H41W-40P/R/PL/RL H41Y-40I									
15	130	95	65	45	40	16	4-φ14	100	4
20	150	105	75	55	51	16	4-φ14	105	5.5
25	160	115	85	65	58	16	4-φ14	120	6
32	180	135	100	78	66	18	4-φ18	130	12
40	200	145	110	85	76	18	4-φ18	135	14
50	230	160	125	100	88	20	4-φ18	149	18
65	290	180	145	120	110	22	8-φ18	160	27
80	310	195	160	135	121	22	8-φ18	169	36
100	350	230	190	160	150	24	8-φ23	194	50
125	400	270	220	188	176	28	8-φ25	225	75
150	480	300	250	218	204	30	8-φ25	255	119
200	600	375	320	282	260	38	12-φ30	305	217
250	650	445	385	345	313	42	12-φ34	360	310
300	750	510	450	408	364	46	12-φ34	415	365

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	L	D	D ₁	D ₂	D ₆	b	Z-φd	H	WT (kg)
H41H-64C H41W-64P/R/PL/RL H41Y-64I									
15	170	105	75	55	40	20	4-φ14	100	7
20	190	125	90	68	51	22	4-φ18	110	11
25	210	135	100	78	58	24	4-φ18	125	13
32	230	150	110	82	66	24	4-φ23	140	14
40	260	165	125	95	76	24	4-φ23	168	20
50	300	175	135	105	88	26	4-φ23	170	23
65	340	200	160	130	110	28	8-φ23	188	37
80	380	210	170	140	121	30	8-φ23	205	46
100	430	250	200	168	150	32	8-φ25	230	68
125	500	295	240	202	176	36	8-φ30	203	89
150	550	340	280	240	204	38	8-φ34	265	131
200	650	405	345	300	260	44	12-φ34	310	235

◆ 用途 Use

电站止回阀适用于公称压力PN20.0~32.0Mpa, 工作温度≤540℃(其中P(57)170V工作温度为570℃)的石油、化工、水力、火力电站等各种工况的管路上。适用介质为: 水、油品、蒸汽等。

Power station check valve is suitable for the nominal pressure PN20.0~32.0 Mpa, the working temperature of 540℃ or less (P (57) of whom 170V working temperature is 570℃) of petroleum, chemical industry, hydropower and thermal power plant, etc All kinds of working condition of the pipeline. Applicable medium: water, oil, steam, etc.

◆ 特点 Characteristics

- 1、产品设计制造按E101和NB/T47044标准的规定, 结构合理, 性能优良;
 - 2、阀门中腔采用压力自紧式密封结构, 介质压力越高, 密封性能越好;
 - 3、支管两端为对焊连接, 适应不同的接管要求;
 - 4、阀瓣、阀座的密封面采用司太立 (stellite) 钴基硬质合金堆焊而成, 耐磨、耐高温, 抗擦伤性能好、使用寿命长;
 - 5、高温耐压部件采用优质耐热合金钢制造, 安全可靠, 性能稳定, 使用寿命长。
1. Design and manufacture products according to standard E101 and NB/T47044 rules, reasonable structure, excellent performance;
2. Pressure seal structure is adopted, and the medium pressure is higher, the better the performance of sealing;
3. For butt welding on both ends of the branch pipe, different to meet the demand of the takeover;
4. Disc and seat sealing surface using department too vertical (stellite) cobalt-based hard alloy surfacing and become, wear-resisting, high temperature resistance, good abrasion resistance, long service life;
5. High temperature compression part adopts high quality alloy steel manufacturing, safe and reliable, stable performance and long service life.

◆ 执行标准 Standards Adopted

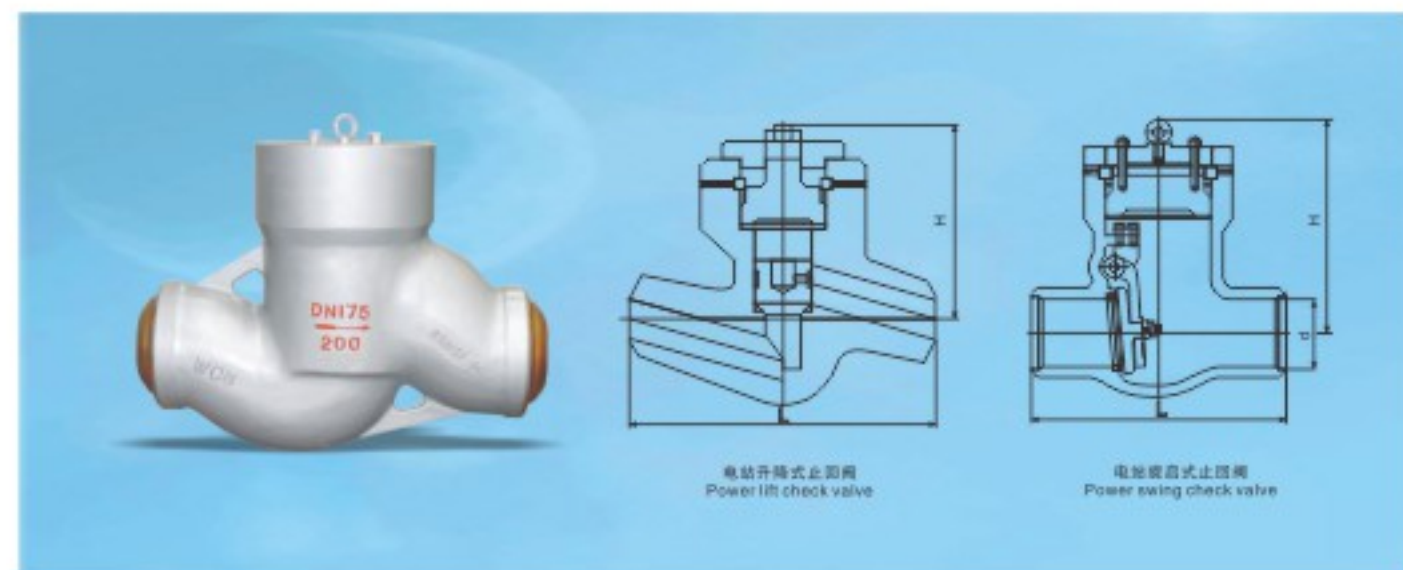
产品规范 Product specification	设计规范 Design spec	结构长度 Face to face	焊接坡口 Welding groove	试验与检验 Test & check	压力-温度 Pressure-temp
	NB/T 47044	GB/T12221	NB/T 47044	NB/T 47044	NB/T 47044

◆ 性能规范 Performance Specification

产品型号 Product model	公称压力PN(MPa) Nominal Pressure	试验压力(MPa)Test pressure		工作温度(℃) Working temperature	适用介质 Applicable medium
		强度试验 Shell test	密封试验 Seal test		
JH61Y-250	25.0	37.5	27.6	≤425	水、油品、蒸汽 Water, oil, steam
H61Y-320	32.0	48	35.2		
H61Y-P54140V	P54140V	43.1	17.5	≤540	
H61Y-P54170V	P54170V	50.7	21.3		
H61Y-P57170V	P57170V	67.6	21.3	≤570	

◆ 主要零件材料 Main Part Materials

零件名称 Part name	材料牌号 Material designation			
阀体 Body	WCB	12Cr1MoV	WC6	WC9
阀盖 Bonnet	A105	12Cr1MoV		
阀瓣/阀座 Disc,seat	25堆STL钴基硬质合金 25 pile of STL cobalt-based hard alloy	12Cr1MoV堆STL钴基硬质合金 12 Cr1MoV pile of STL cobalt-based hard alloy		
密封环 Sealing ring	增强柔性石墨 Flexible graphite			

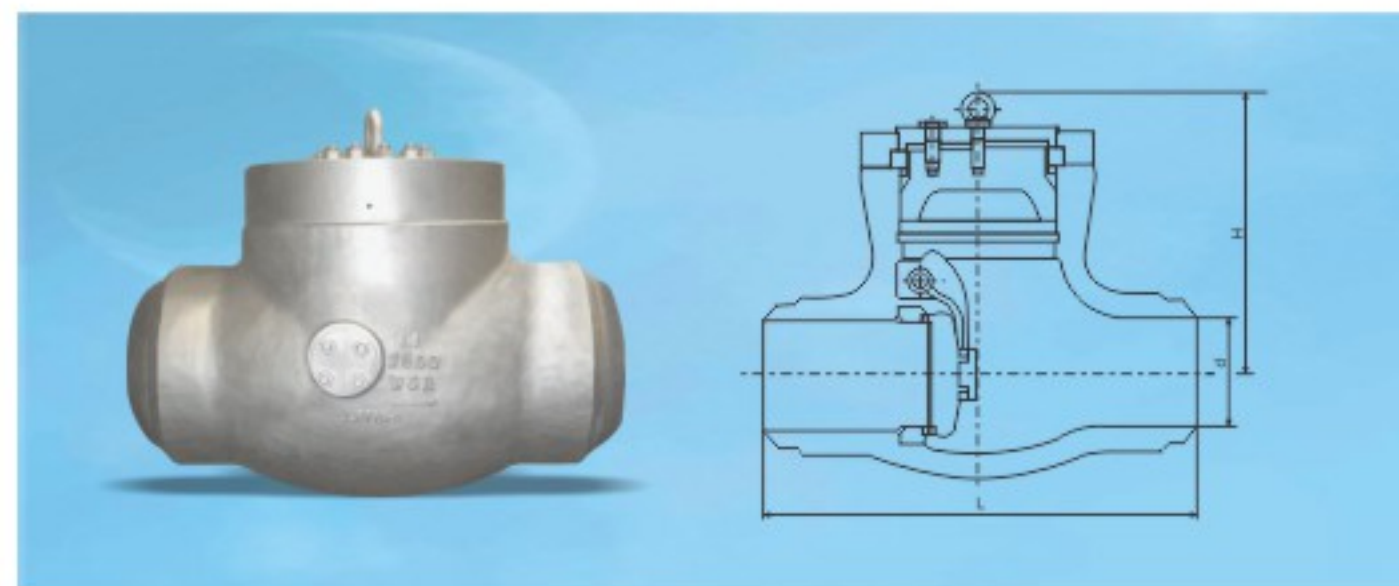


◆ 主要外形连接尺寸 Main Boundary Connection Dimension

产品名称 Product name	型号 Model	DN(mm)	L	H	WT (kg)
电站升降式止回阀 Power station lift	H61Y-250 H61Y-320 H61Y-P54140V H61Y-P54170V H61Y-P57170V	10	120	156	2.5
		15	170	200	8.5
		20	170	210	9
		25	170	210	10
		32	200	245	14
		40	230	270	21
		50	350	300	28
		65	326	412	-
		80	570	370	-
		100	560	418	-

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

产品名称 Product name	型号 Model	DN(mm)	L	H	WT (kg)
电站旋启式止回阀 Swing check valve	H61Y-250	50	350	250	50
		65	430	282	57
		80	470	325	65
		100	600	350	80
		175	900	440	180
	H61Y-320	125	900	409	170
		225	1000	550	415
		300	1370	680	1200
		350	1370	745	1638



◆ 主要零件材料 Main Part Materials

零件名称 Part name	材料牌号 Material mark			
阀体 Body	WCB	WC1	WC6	WC9
阀座 Seat	A105	15CrMoA	12Cr1MoVA	
阀瓣 Disc	WCB	WC1	WC6/F11	WC9/F22
摇杆 Hinge	WCB	WC1	WC6	WC9
阀盖 Bonnet	A105	15CrMoA	F11/F22	
密封环 Sealing ring	S软钢(增强柔性石墨) S mild steel(reinforced flexible graphite)		S软钢 S mild steel	F软钢 F mild steel

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

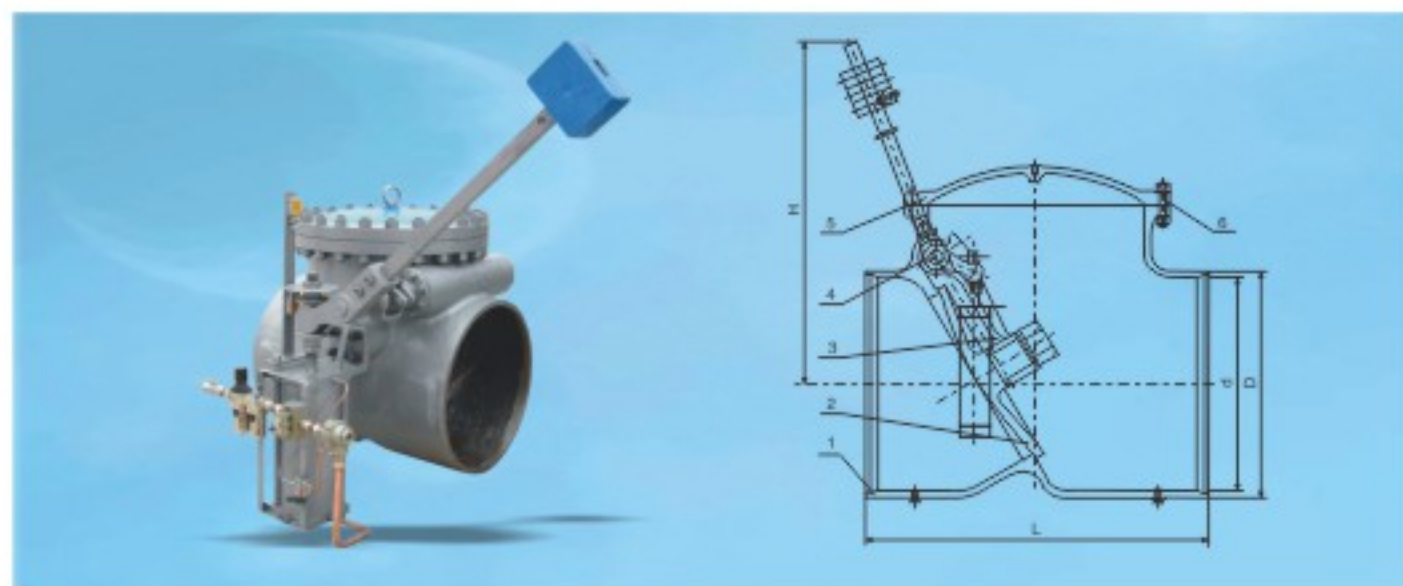
H64Y-1500Lb H64Y-250/Pss140V				
NPS(in)	d	L	H	WT (kg)
2 1/2	56	254	282	57
3	64	325	300	57
4	84	406	350	80
5	100	483	425	115
6	126	559	400	180
8	158	711	490	270
10	200	864	540	430
12	250	991	650	630
14	280	1067	710	1400

H64Y-2000Lb H64Y-320/Pss170V

NPS(in)	d	L	H	WT (kg)
2 1/2	50	330	240	40
3	60	368	305	60
4	80	457	315	95
5	96	533	409	170
6	118	610	465	186
8	147	762	528	415
10	180	914	613	658
12	222	1041	680	1200
14	254	1118	745	1638

H64Y-2500Lb H64Y-420/Pss250V

NPS(in)	d	L	H	WT (kg)
3	54	368	297	44
4	70	457	385	110
5	86	533	410	130
6	104	610	455	192
8	130	762	557	466
10	162	914	615	730
12	210	1041	715	1120
14	234	1118	790	1495
16	264	1245	815	1950
18	304	1397	815	2400



◆ 性能规范 Performance Specification

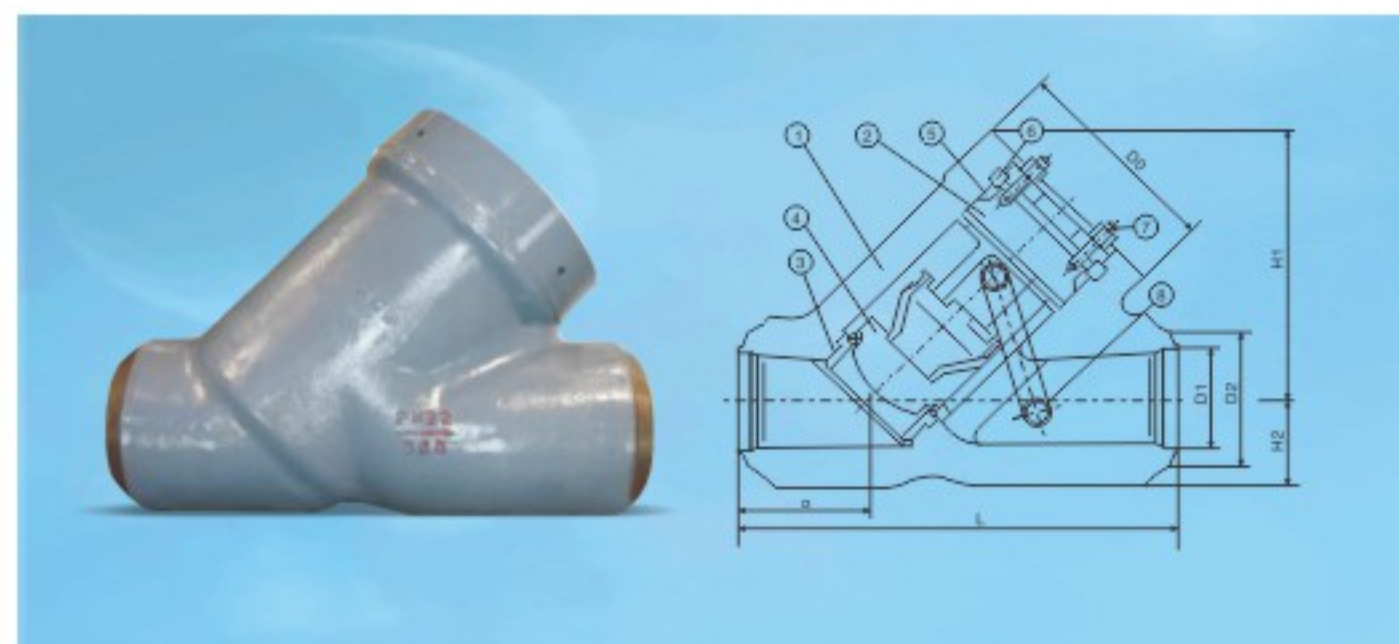
产品型号 Product model	公称压力 Nominal pressure	壳体试验压力 Shell test pressure	密封试验压力 Seal test pressure
H664H-150Lb	150	3.0	2.2
H664H-300Lb	300	7.5	5.5
H664-600Lb H664Y-600LbC6	600	15.0	11.0

◆ 主要零件材料 Main Part Materials

序号NO.	零件名称 Part name	H664H-150Lb 300Lb/600Lb	H664Y-600Lb
1	阀体 Body	WCB	WC6
2	阀瓣 Disc	WCB	WC6
3	摇杆 Hinge	WCB	WC6
4	轴杆 Shaft lever	2Cr13	CrMoV
5	阀盖 Bonnet	WCB	WC6
6	中法兰螺栓 Flange bolts	35CrMoA	CrMoV
7	中法兰螺母 Flange nut	45	CrMoV

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

NPS(in)	L	d	D	H	WT (kg)
H664H150Lb H664Y150Lb					
18	740	428	476	990	620
20	790	468	520	990	759
28	1040	685	747	1240	1258
36	1448	880	934	1510	1990
42	1600	1000	1080	2080	2287
H664H300Lb H664Y300Lb					
8	526	195	239	815	236
12	610	300	354	845	1537
H664H600Lb					
10	680	250	302	904	385
20	1020	480	584	1240	1537
H664H600LbC6 H664Y600LbC6					
8	526	195	239	815	227



◆ 用途 Use

H65Y型直流式止回阀安装在水平管道，作为自动防止介质逆流的安全装置。
H65Y Type Straight-flow check valve installed in a horizontal pipe, as a safety device automatically to prevent medium counter-current.

◆ 特点 Characteristics

- 1、阀瓣作升降运动，连通管使阀瓣的上腔与阀门出口连通，在阀瓣升起与回落时，减少了冲击和振动，并使用阀瓣达到全行程。
 - 2、阀体为“Y”型，阻力小，导向筋上堆焊铁基硬质合金，阀体上腔导向套采用不锈钢材料制成，保证阀瓣动作灵活。
 - 3、压力自紧式密封机构，靠介质本身压力密封，压力越高，密封性越好。
 - 4、阀瓣与阀座密封面采用钴基硬质合金等离子喷焊而成，硬度高、抗冲蚀、抗擦伤、经久耐用。
1. The disc for lifting movement, communicating pipe of the valve cavity with the valve outlet connected, when the disc rose and fell, reduce the shock and vibration, and use the disc to whole trip.
2. The body for "Y", small resistance, on the guide bar soldering iron carbide, the body cavity of the guide sleeve is made of stainless steel materials, ensure the flexible disc movement.
3. Pressure self-tightening sealing structure, rely on medium pressure seal itself, the higher the pressure, the better sealing.
4. Disc and seat sealing surface using cobalt-based hard alloy plasma spray welding and become, high hardness, resistance to erosion, abrasion resistance and durability.

◆ 主要零件材料 Main Part Materials

序号 No.	1	2	3	4	5	6	7	8
零件名称 Part name	阀体 Body	阀盖 Bonnet	阀座 Seat	阀瓣 Disc	密封圈 Sealing ring	四合环 Snap ring	螺栓 Bolt	连接管 Connecting pipe
材料 Material	碳钢 Carbon steel	碳钢 Carbon steel	碳钢 Carbon steel	碳钢 Carbon steel	柔性石墨 Flexible graphite	不锈钢 Stainless steel	合金钢 Alloy steel	碳钢 Carbon steel

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

DN(mm)	L	a	H1	H2	D0	D1	D2	h	配管尺寸 Pipe size	WT (kg)
300	1370	400	238	854	686	306	406	200	Φ406x50	2853
350	1372	405	258	870	670	326	426	220	Φ426x50	3190

◆ 用途 Use

美标旋启式止回阀适用于压力Class150~2500LB, 工作温度-46℃~570℃的石油、化工、制药、化肥、电力行业等各种工况的管路上, 防止介质的倒流。

API swing check valve are used in pipes under pressures between Class150~2500LB, working temperatures between -46℃~570℃, they are used in industries include oil, chemistry, pharmaceutical, fertilizer, and power generation to prevent the backward flux of the media.

◆ 特点 Characteristics

- 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、内装式的销轴结构, 减小外泄漏, 使用可靠;
 - 4、当压力为Class1500LB时, 阀门中腔采用自紧式密封结构, 介质压力越高, 密封性能越好;
 - 5、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。
1. Rational structure, reliable sealing, excellent performance, pretty appearance;
 2. Co-radix alloy welded sealing surface, anti-wearing, erosion-proof abrasion-proof and longer use life;
 3. Inside-set bolt-bearing structure reduces leakage and reliable use;
 4. Under pressures is Class1500LB, the valve belly, self-tightening structure offers a tighter sealing for a higher medium pressure;
 5. Different parts materials and different sizes for flange, butt-welding are available for sensible combination according to different working facts and customers' requirements.

◆ 执行标准 Standards Adopted

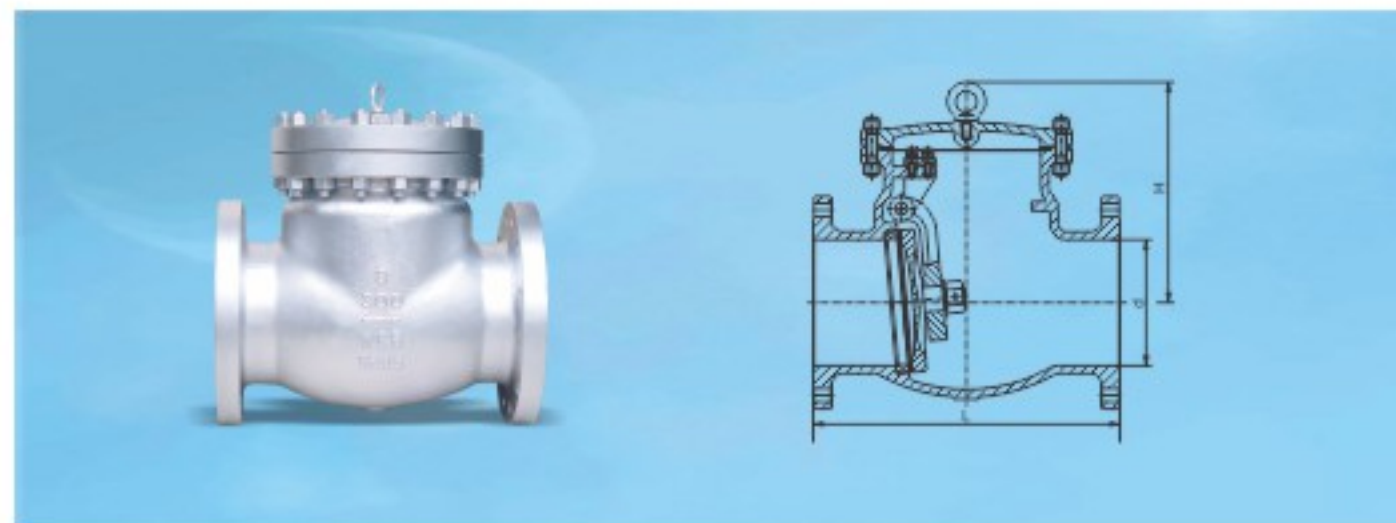
产品规范 Product specification	设计规范 Design spec	结构长度 Face to face	法兰尺寸 Flange dimension	压力-温度 Pressure-temp	试验与检验 Test & check
	API 6D, BS1868	ASME B16.10	ASME B16.5	ASME B16.34	API 598

◆ 性能规范 Performance Specification

公称压力(Lb) Nominal Pressure		150	300	600	900
强度试验 Strength test	MPa	3.1	7.8	15.3	23.1
	Lbf/in ²	150	1125	2225	3350
水密封试验 Water seal test	MPa	2.2	5.6	11.2	16.8
	Lbf/in ²	315	815	1630	2440
气密封试验 Air seal test	MPa	0.5~0.7			
	Lbf/in ²	60~100			

◆ 主要零件材料 Main Part Materials

阀体/阀盖/阀瓣/导向套 Body/bonnet/disc/rocker/guide sleeve	销轴 Hinge pin	垫片 Sealing shim	密封面 Sealing Face	工作温度(℃) Working temperature	适用介质 Applicable medium
WCB	2Cr13	增强柔性石墨 1Cr13/柔性石墨 不锈钢/耐酸石棉 PTFE 齿型垫片 Enhanced Flexible graphite 1Cr13/Flexible Graphite S.S./Acid-proof asbestos Tooth profile gasket	13Cr STL 本体材料 PTFE 尼龙 With body material Nylon	≤425	水、蒸汽、油品、硝酸类、醋酸类、强氧化、介质、尿素 Water, steam, oil, nitric acid, acetic acid, urea, media strong oxidation
WC1				≤450	
WC6				≤550	
WC9				≤590	
C5 C12				≤600	
CF8	304	304L	316	≤600	
CF3	304L				
CF8M	316				
CF3M	316L				



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

NPS(in)	Class 150						Class 300					
	L			d	H	WT (kg)	L			d	H	WT (kg)
	RF	RTJ	BW				RF	RTJ	BW			
2	203	216	203	51	132	15	267	283	267	51	144	20
2 1/2	216	229	216	64	147	20	292	308	292	64	169	35
3	241	254	241	76	176	27	318	333	318	76	210	40
4	292	305	292	102	198	45	356	371	356	102	260	61
5	330	343	330	127	255	58	400	416	400	127	295	80
6	356	368	356	152	320	69	445	460	445	152	326	130
8	495	508	495	203	380	131	533	549	533	203	380	190
10	622	635	622	254	440	219	622	638	622	254	440	296
12	699	711	698	305	480	321	711	727	711	305	520	450
14	787	800	787	337	530	380	838	854	838	337	540	640
16	864	876	864	387	580	560	864	879	864	387	588	850
18	978	991	978	438	618	630	978	994	978	438	670	1030
20	978	991	978	489	657	770	1016	1035	1016	489	720	1330
24	1295	1308	1295	591	760	960	1346	1368	1346	591	850	1950
26	1295	-	1295	633	840	1250	1346	1372	1346	633	920	2300
28	1448	-	1448	684	920	1580	1499	1524	1499	684	1150	2600
30	1524	-	1524	735	980	1950	1594	1619	1594	735	1260	3200

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

NPS(in)	Class 600						Class 900					
	L			d	H	WT (kg)	L			d	H	WT (kg)
	RF	RTJ	BW				RF	RTJ	BW			
2	292	295	292	51	170	28	368	371	368	47	200	48
2 1/2	330	333	330	64	178	40	419	422	419	57	220	75
3	356	359	356	76	246	68	381	384	381	73	280	95
4	432	435	432	102	290	117	457	460	457	98	320	135
5	508	511	508	127	320	155	559	562	559	121	360	200
6	559	562	559	152	360	192	610	613	610	146	400	264
8	660	664	660	200	430	340	737	740	737	190	480	424
10	787	791	787	248	502	515	838	841	838	234	560	730
12	838	841	838	298	554	750	965	968	965	282	632	1070
14	889	892	889	327	595	890	1029	1038	1029	311	680	1180
16	991	994	991	375	680	1303	1130	1140	1130	354	780	1790
18	1092	1095	1092	419	778	1800	1219	1232	1219	400	880	2500
20	1194	1200	1194	464	970	2150	1321	1334	1321	444	1050	3080
24	1397	1407	1397	559	1100	3200	1549	1568	1549	533	1200	4600

◆ 用途 Use

对夹连接升降式止回阀适用于压力PN1.0~16.0MPa、工作温度-196~425℃的各种工况的管路上，防止介质的倒流。
 Wafer type piston-lift check valve are used in all kinds of pipes under the pressure of PN1.0~16.0MPa and working temperature of -196~425℃, of they are mainly used to prevent the reverse flux of the media.

◆ 特点 Characteristics

- 1、产品结构长度短、体积小、重量轻；
 - 2、密封面堆焊硬质材料，防腐、耐蚀、密封性能好，使用寿命长；
 - 3、开启压力很小，阀瓣在很小的压差下就能完全打开；
 - 4、阀瓣关闭快速，水锤压力小；
 - 5、水平或垂直管道均可使用，安装方便；
 - 6、零件材质及阀瓣端面形式、尺寸可根据实际工况或和用户要求合理选配，满足各种工程需要。
1. Short length, small volume and light weight;
 2. Hard material welded sealing surface, which is wearing resistant, erosion proof, abrasion proof and long-lived;
 3. With a small starting pressure, the valve discs can be fully opened under a very small pressure difference;
 4. Fast discs closing and small water hammer pressure;
 5. Convenient installation and applicability on both level and vertical pipes;
 6. Different materials for the parts, sizes and forms of the valves surfaces are available for free combination according to the working facts and the customer's requirements.

◆ 执行标准 Enforce Standards

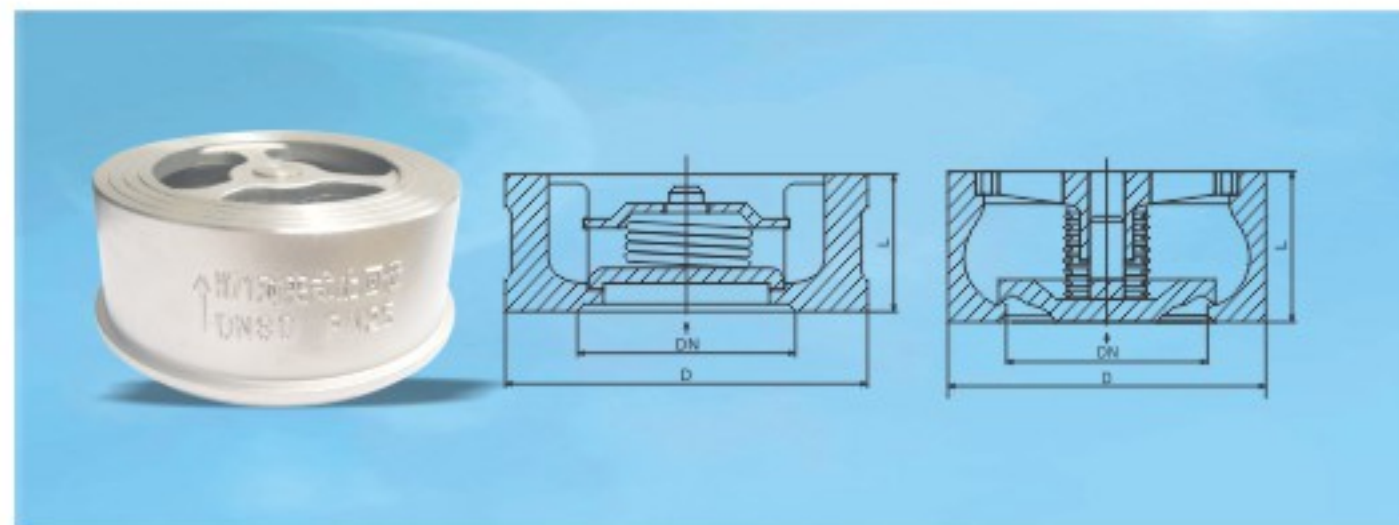
产品规范 Product specification	设计规范 Design spec	结构长度 Face to face	连接法兰 Flange end	试验与检验 Test & check	压力-温度 Pressure-temp
	JB/T8937	JB/T8937	JB/T 79.1、GB/T9113 HG/T20592	JB/T 9092 GB/T13927	GB/T 12224

◆ 主要零件材料 Main Part Materials

型号 Model	阀体 Body	阀瓣 Disc	弹簧 Spring
H71H-16Q/H71H-25Q	QT400-15	25	50CrVA
H71W-25I/H71W-40I	15CrMo	15CrMo	1Cr18Ni9
H71W-25P/H71W-40P	ZG1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni9Ti

◆ 性能规范 Products Performance Specification

型号 Model	公称压力(MPa) Nominal pressure	试验压力(MPa) Test pressure		适用温度 Applicable temperature	适用介质 Applicable medium
		壳体 Shell	密封 Seal		
H71H-16Q	1.6	2.4	1.76	≤235℃	水、蒸气、油品等 Water, steam, oil, etc
H71H-25Q	2.5	3.75	2.75	≤235℃	水、蒸气、油品等 Water, steam, oil, etc
H71W-25I	2.5	3.75	2.75	≤235℃	水、蒸气、油品等 Water, steam, oil, etc
H71W-25P	2.5	3.75	2.75	≤235℃	硝酸等腐蚀性介质 Nitric acid and other corrosive medium
H71W-40I	4.0	6.0	4.4	≤235℃	水、蒸气、油品等 Water, steam, oil, etc
H71W-40P	4.0	6.0	4.4	≤235℃	硝酸等腐蚀性介质 Nitric acid and other corrosive medium



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

(PN1.6~4.0MPa)

DN(mm)	L	D			WT (Kg)
		1.6MPa	2.5MPa	4.0MPa	
		H71H-16C H71W-16P/R/PL/RL	H71H-25C H71W-25P/R/PL/RL	H71H-40C H71W-40P/R/PL/RL	
15	25	48	48	48	0.3
20	31.5	58	58	58	0.5
25	35.5	68	68	68	0.8
32	40	80	80	80	1.3
40	45	90	90	90	1.6
50	56	105	105	105	2.3
65	63	125	125	125	3.3
80	71	140	140	140	4.4
100	80	160	165	165	5.6
125	110	190	195	195	9.2
150	125	215	225	225	12.5
200	160	270	285	290	16.5
250	200	330	340	350	20
300	250	385	400	415	27

◆ 用途 Use

对夹双瓣旋启式止回阀适用于压力PN1.0~16.0MPa, 工作温度-196~425℃的各种工况的管路上, 防止介质的倒流。
 Wafer type double disc swing check valve are used in all kinds of pipes under the pressure of PN1.0~16.0MPa, and working temperature of -196~425℃. They are mainly used to prevent the reverse flux of the media.

◆ 特点 Characteristics

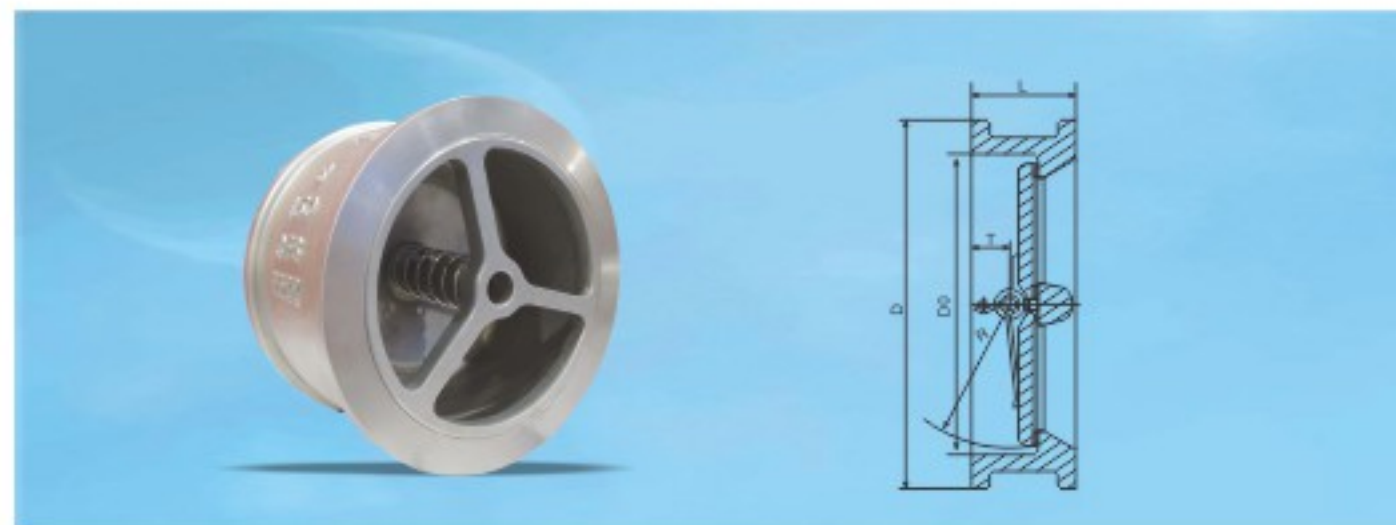
- 1、产品结构长度短、体积小、重量轻;
 - 2、密封面可根据不同的工况条件选用软密封或硬密封材质、密封性能好;
 - 3、开启压力很小、阀瓣在很小的压差下就能完全打开;
 - 4、阀瓣关闭快速, 水锤压力小;
 - 5、水平或垂直管道均可使用, 安装方便;
 - 6、零件材质及阀门端面形式、尺寸可根据实际工况或和用户要求合理选配, 满足各种工程需要。
1. Short length, small volume and light weight;
 2. Either soft sealing or hard sealing can be applied for the sealing surface according to different working conditions, both of which promise a perfect sealing effect;
 3. With a small starting pressure, the valve discs can be fully opened under a very small pressure difference;
 4. Fast discs closing and small water hammer pressure;
 5. Convenient installation and applicability on both level and vertical pipes;
 6. Different materials for the parts, sizes and forms of the valves surfaces are available for free combination according to the working facts and the customer's requirements.

◆ 执行标准 Enforce Standards

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
	JB/T8937	JB/T8937	GB/T9113 JB/T79.1 HG/T20592	JB/T9092 GB/T13927

◆ 主要零件材料 Main Part Materials

阀体 Body	阀瓣 Disc	阀轴 Shaft	弹簧 Spring	适用介质 Applicable medium
WCB(A105)	WCB(A105)	2Cr13	0Cr18Ni9	水、蒸汽、油品等 硝酸等腐蚀性介质、 强氧化性介质、 醋酸等腐蚀性介质、 尿素等腐蚀性介质 Water, steam, oil, nitric acid and other corrosive medium Strong oxidizing medium Acetic acid and other corrosive medium Urea and other corrosive medium
ZG1Cr18Ni9Ti	CF8	1Cr18Ni9Ti	0Cr18Ni9	
CF8(304)	CF8	0Cr18Ni9	0Cr18Ni9	
CF3(304L)	CF3	00Cr19Ni10	00Cr19Ni10	
ZG1Cr18Ni12Mo2Ti	CF8M	1Cr18Ni12Mo2Ti	00Cr17Ni12Mo2	
CF8M(316)	CF8M	0Cr17Ni12Mo2	0Cr17Ni12Mo2	
CF3M(316L)	CF3M	00Cr17Ni14Mo2	00Cr17Ni14Mo2	



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

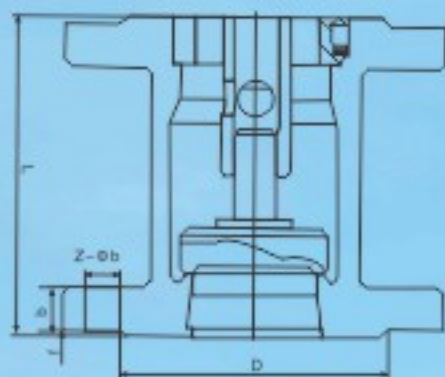
(PN1.0~4.0MPa)

DN(mm)	PN1.0(MPa)		WT(kg)	PN1.6(MPa)		WT(kg)	PN2.5(MPa)		WT(kg)	PN4.0(MPa)		WT(kg)
	L	D		L	D		L	D		L	D	
	H76H-10C			H76H-16C			H76H-25C			H76H-40C		
	H76W-10P/RL/PL/RL			H76W-16P/RL/PL/RL			H76W-25P/RL/PL/RL			H76W-40P/RL/PL/RL		
50	60	109	1.8	60	109	1.8	60	109	2	60	109	2.4
65	67	129	2.6	67	129	2.6	67	129	3.2	67	129	3.8
80	73	144	3.6	73	144	4.2	73	144	4.8	73	144	5.6
100	73	164	4.8	73	164	5.2	73	170	6	73	170	7.5
125	83	194	6.3	83	194	6.7	83	198	9	83	198	11
150	98	220	8.7	98	220	9.4	98	228	12	98	228	15
200	127	275	16.5	127	275	18.7	127	288	22	127	293	27
250	146	330	26.2	146	333	29.4	146	343	38	146	355	48
300	181	380	42.3	181	388	48.5	181	403	54	181	420	78
350	184	440	58	184	448	66	184	460	80	222	480	116
400	198	493	76	198	498	90	198	520	118	232	549	152
450	203	543	98	203	558	130	-	-	-	-	-	-
500	219	598	120	219	630	186	-	-	-	-	-	-
600	222	698	235	222	734	298	-	-	-	-	-	-

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

(PN1.0/1.6MPa)

DN(mm)	L	D	D ₀	R	T	WT(kg)
	H76X-10C		H76X-16C			
50	43	107	69	29	19	1.5
65	46	127	84	20	20	2.4
80	64	142	103	26	26	3.6
100	64	162	121	28	28	5.7
125	70	192	135	30	30	7.3
150	76	218	180	31	31	9
200	89	273	250	33	33	17
250	114	328	260	45	45	26
300	114	378	312	48	48	42
350	127	438	365	50	50	55
400	140	489	415	54	54	75
450	152	539	468	58	58	107
500	152	594	526	60	60	111
600	178	695	626	73	73	165



◆ 用途 Use

产品广泛应用于石油、化工、制药、电力行业等各种工况的管路上。
Products are widely used in petroleum, chemical, pharmaceutical, electric power industry under various working conditions such as the pipeline.

◆ 特点 Characteristics

阀瓣沿中心定位作升降运动，衬套采用耐磨性能好，摩擦系数小的特殊材料制作，动作灵活可靠密封性能优良。
The disc along the center position for lifting movement, bushing adopt wear-resisting performance is good, special materials of small friction coefficient, excellent action is flexible and reliable sealing performance.

◆ 执行标准 Enforce Standards

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
	GB/T12235	GB/T12221	JB/T79	JB/T9092

◆ 性能规范 Performance Specification

试验压力 Test pressure	公称压力 Nominal pressure (MPa)				
	16	25	40	6.0	4.4
壳体试验 Shell test	2.4	3.8	6.0		
密封试验 Sealing test	1.8	2.8	4.4		
阀体材料 Body material	WCB(C)	CF8(P)	CF8M (R)	WC6	WC9
工作温度 Working temperature	≤425℃	≤100℃	≤100℃	≤550℃	≤550℃
适用介质 Applicable medium	水、蒸汽、油品 Water, steam, oil	硝酸类 Nitrate class	醋酸类 Acetic acid	水、蒸汽 Water, steam	水、蒸汽 Water, steam

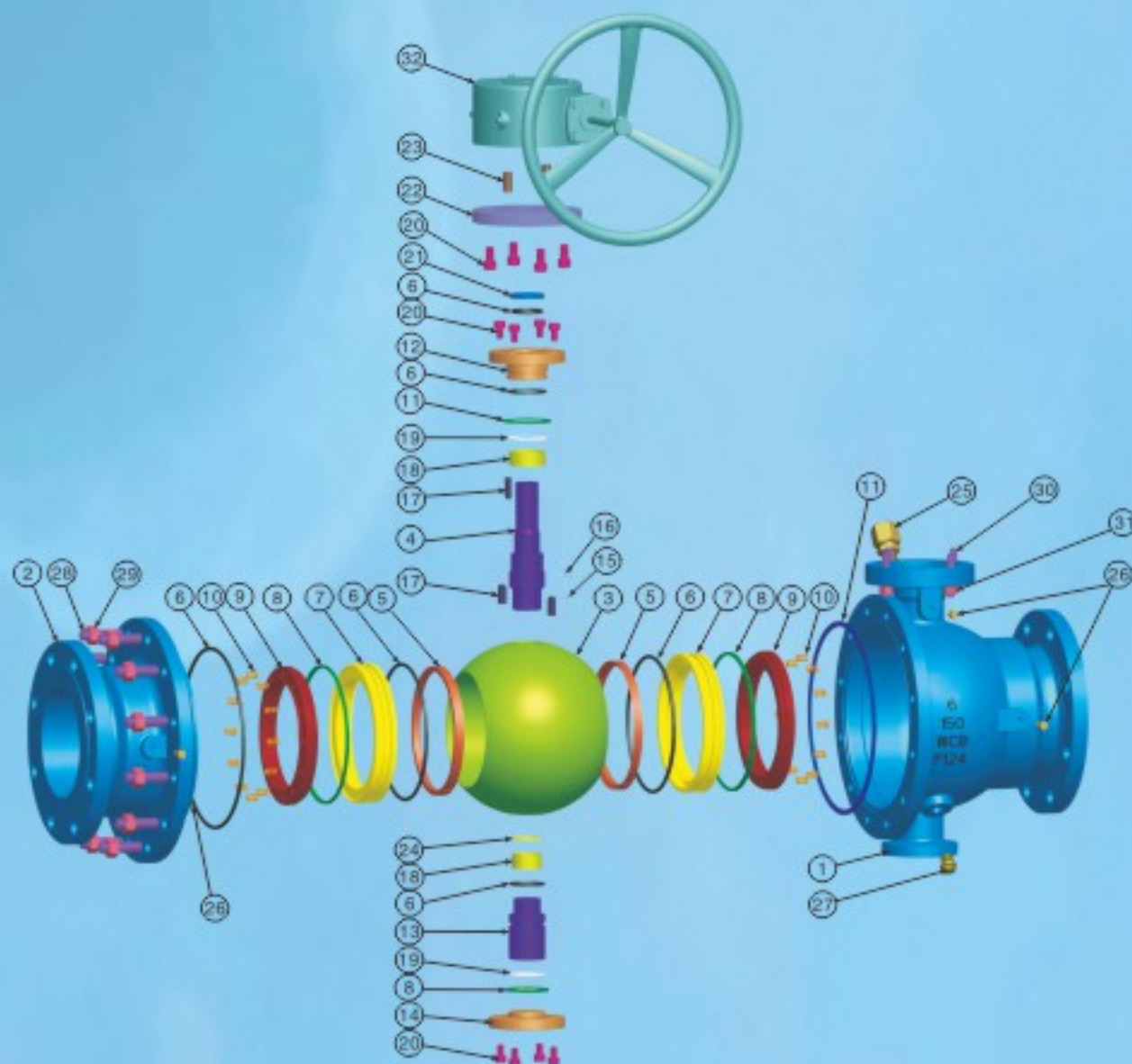
◆ 主要外形连接尺寸 Main Boundary Connection Dimension

(PN1.6~4.0MPa)

H42H-16P/R/PL/RL												
DN(mm)	15	20	25	32	40	50	65	80	100	125	150	200
L	105	105	105	150	160	170	180	200	210	275	300	380
D	95	105	115	135	145	160	180	195	215	245	280	335
WT (kg)	-	-	-	-	-	7.9	11	12	19.5	36	47	65
H42H-25P/R/PL/RL												
DN(mm)	20	25	32	40	50	65	80	100	125	150	200	
L	105	105	150	160	170	180	200	210	275	300	380	
D	105	115	135	145	160	180	195	215	275	300	360	
WT (kg)	-	-	-	-	7.9	11	12	20	38	48	70	
H42H-40P/R/PL/RL												
DN(mm)	50	65	80	100	125	150	200					
L	170	180	200	210	275	300	380					
D	160	180	195	230	270	300	375					
WT (kg)	7.9	11	12	20	38	48	72					

铸钢球阀系列 CAST STEEL BALL VALVE SERIES





◆ 主要零部件 Main Part

序号 No.	名称	Part name	序号 No.	名称	Part name	序号 No.	名称	Part name	序号 No.	名称	Part name
01	阀体	Body	09	压圈	Back Seat	17	平键	Key	25	放空阀	Vent Plug
02	阀盖	End Cap	10	弹簧	Spring	18	复合轴承	Bushing	26	注脂阀	Injection Fitting
03	球体	Ball	11	中法兰垫片	Gasket	19	止推垫	Thrust Washer	27	排污螺塞	Drain Plug
04	阀杆	Stem	12	填料箱	Packing Box	20	内六角螺钉	Socket Cap Screw	28	螺柱	End Cap Bolt
05	阀座	Seat	13	下阀杆	Trunnion	21	填料	Packing	29	螺母	End Cap Nut
06	O型圈	O Ring	14	底盖	Bottom Cap	22	限位盘	Plate	30	螺柱	Stud
07	阀座	Seat	15	小钢珠	Small Ball	23	圆柱销	Pin	31	螺母	Nut
08	阀座防火垫	Safe fire gasket	16	圆柱螺旋弹簧	Small Spring	24	平面轴承	Thrust Bearing	32	蜗轮部件	Gear Actuator

◆ 产品结构特征

浮动式球阀主要适用于天然气、油品、化工、冶金、城建、环保、制药、食品等行业，其中抗硫系列产品适用于含硫化氢介质、杂质多、腐蚀严重的天然气长输管线。系列浮动式球阀结构特点为：

- ★独特的阀座密封结构 浮动式球阀采用双斜面弹性密封圈或V型槽弹性密封圈结构设计，保证密封的可靠性。对于低压、超低压或真空工况用球阀，采用板簧加载的阀座密封结构，能确保球阀长期可靠的密封。中、高温球阀的阀座材料可选用对位聚苯或金属材料。
- ★自动泄压结构 当中腔压力出现异常升高现象时，中腔介质能依靠本身的推力推动阀座而自动泄压，从而确保阀体的安全。
- ★阀杆的可靠密封 阀杆采用有侧密封的下装式结构，侧密封的密封力随介质压力的增高而增大，故能确保阀杆的可靠密封，而且，当阀腔异常升压时，阀杆不会喷出。
- ★防火结构 根据工况及用户的需要，球阀可设计为防火结构。球阀的耐火设计执行API 607、API 6FA及JB/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。
- ★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。
- ★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。
- ★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。全通径球阀的通道内径与管道内径一致，便于管理清扫，而缩径系列球阀的重量相对较轻，但流体阻力仅为相同口径截止阀的1/7左右，故缩径系列球阀的应用前景较为广阔。

◆ Products Design Features

Floating ball valve is mainly suitable for natural gas, oil, chemical industry, metallurgy, urban construction, environmental protection, pharmaceutical and food industries, which has series of products applicable to the medium containing hydrogen sulfide, sulfur impurities, severe corrosion of the natural gas long distance pipeline. Series for floating ball valve structure characteristic:

- ★ Specific Sealing Structure of Valve Base Double cant elastic seal ring or V-shaped groove seal ring structural design is adopted to ensure sealing reliability. As for low-pressure, ultralow pressure or vacuum-operated ball valves, a plate spring-loaded sealing structure of valve base is adopted to ensure their longterm sealing reliability. As for moderate or high temperature ball valves, Para-position polyphenylene or mental can be adopted for valve base material.
- ★ Automatic pressure relief structure When the pressure in cloaca cavity increases singularly, the cavity medium can push valve base by its own thrusting force, which results in automatic pressure relief and valve security assurance. K Reliable Sealing of Valve Rod The valve rod adopts downward installation structure with back sealing. The sealing force will increase together with the heig-htening of medium pressure, which can ensure the sealing reliability. Moreover, even if the pressure in valve cavity increases singularly, the valve rod will not burst out.
- ★ Fire-resistant Structure According to the operating condition and users requirement, ball valve can be designed with a fire resistant structure up to the fire-resistant standards of API607, API 6FA and JB/T6899. Once the soft seal ring is burnt out on fire, the structure can avoid serious leaking of the medium and prevent the fire from scaling up.
- ★ Anti-static Structure While operating the valve, the friction between the sphere and the base will produce static charges accumulating on the sphere. To avoid static spark, the fire-resistant device is designed to derive the accumulated static spark, charges from the sphere. Locking Device A locking structure is designed on the full-open and full-close spots of manual ball valves to avoid abnormal open-and-close produced by misoperation or unpredictable circuit vibration. On production lines of petroleum and chemicals of flammable mediums, and during the course of outdoor piping, the design is especially advantageous and practical.
- ★ Full Bore Structure and Reduced Bore Structure The two structure series are produced to meet different requirements of users. The passage inside diameter of full diameter ball valves is the same as that of valve pipe, which is convenient for pipe cleaning. The weight of retractive diameter ball valves is relatively lighter, but the fluid resistance is just 1/7 that of stop valves with the same caliber. Therefore, the application prospects of retractive diameter series is much better.



◆ 用途 Use

球阀在石油、天然气、煤炭和矿石的开采、提炼加工和管道输送系统中；在化工产品、医药和食品生产系统中；在水电、火电和核电的电力生产系统中；在城市和工业企业的给排水、供热和供气系统中；在农田的排灌系统中；在冶金生产系统中得以广泛地应用。是一种与生产建设、国防建设和人民生活息息相关的重要机械产品。球阀密封在各类管路系统中用于截断或接通介质流，使介质按照预定的程序输送到各个指定点。

Ball valve in the oil, natural gas, coal and ore mining, refining processing and pipeline system; in chemical products, medicine and food production systems; in hydropower, thermal power, and nuclear power production system; in urban and industrial water supply and drainage, heating and gas supply system; in the farmland irrigation and drainage systems; in metallurgical production system should be widely use, it is a kind of related to production and construction, national defense construction and people's life important mechanical products. Ball valve closed in all kinds of pipeline system used to truncate or through flow medium, the medium in accordance with the procedures scheduled delivery to the specified point.

◆ 技术参数 Technical Parameters

试验项目 Test duration	试验压力 Test pressure (MPa)	试验持续时间 A pilot project (S)	试验温度 Test temperature (°C)	试验介质 Test medium
壳体试验 Shell test	150Lb, 1.6MPa	1.5*Pd@38°C	API 598, API 6D, JB/T 9092	水 (可含有防锈剂) 煤油或黏度不大于 水的其他适宜介质 Water (Containing corrosion inhibitor) Kerosene or viscosity is not greater than The other is suitable for medium of water
	300Lb, 2.5, 4.0MPa			
	600Lb, 10.0MPa			
	900Lb, 15.0MPa			
	1500Lb, 25.0MPa			
	2500Lb, 42.0MPa			
低压密封试验 Low pressure seal test	150Lb, 1.6MPa	0.6	API 598, API 6D, JB/T 9092	空气 或惰性气体 Air Or An inert gas
	300Lb, 2.5, 4.0MPa			
	600Lb, 10.0MPa			
	900Lb, 15.0MPa			
	1500Lb, 25.0MPa			
	2500Lb, 42.0MPa			
高压密封试验 High pressure seal test	150Lb, 1.6MPa	1.1*Pd@38°C	API 598, API 6D, JB/T 9092	水 (可含有防锈剂) 煤油或黏度不大于 水的其他适宜介质 Water (Containing corrosion inhibitor) Kerosene or viscosity is not greater than The other is suitable for medium of water
	300Lb, 2.5, 4.0MPa			
	600Lb, 10.0MPa			
	900Lb, 15.0MPa			
	1500Lb, 25.0MPa			
	2500Lb, 42.0MPa			

◆ 主要零件材料 Main Part Material

阀体 Body	阀杆 Stem	球体 Ball	密封面 Sealing surface	垫片(环) Gasket (ring)	填料 Packing	工作温度 Working temperature	适用介质 Applicable medium	
WCB	1Cr13	1Cr13	1Cr13 司太立合金 整体材料 Stellite Body material	柔性石墨 不锈钢+柔性石墨 Flexible graphite Stainless steel + flexible graphite	柔性石墨 编织石墨 O形圈 Flexible graphite Braided graphite O-ring	-29-425℃	水 Water 蒸汽 Steam 油品 Oil	
WC6	15CrMo	15CrMo		08碳钢Mild steel F304 F316 氟橡胶 丁腈橡胶 Fluorine rubber Nitrile rubber		-29-595℃		
WC9	25Cr2MoV	25Cr2MoV				-46-345℃		
LCB	304	304						
CF8	304	304						
CF3	304L	304L						
CF8M	316	316						
CF3M	316L	316L						

◆ 浮动球阀转矩参数 Floating Ball Valve Torque Parameters

公称直径 Nominal diameter	压力等级 pressure level	150LB	300LB	600LB	900LB	1500LB
1/2	阀门转矩 valve torque (N.m)	6	9	16	20	32
3/4		7	12	20	35	45
1		15	20	42	70	115
1 1/2		40	60	90	140	171
2		50	70	130	200	296
2 1/2		80	90	150	320	440
3		90	120	200	431	590
4		130	230	370	-	-
6		560	930	-	-	-
8		980	2197	-	-	-
10		2000	4500	-	-	-
12		3500	-	-	-	-

◆ 固定球阀转矩参数 Trunnion Ball Valve Torque Parameters

公称直径 Nominal diameter	压力等级 pressure level	Class150 1.6MPa	Class300 2.5MPa 4.0MPa	Class600 10.0MPa	Class900 15.0MPa	Class1500 25MPa
2	阀门转矩 Valve torque (N.m)	49	86	146	207	327
3		60	109	190	270	431
4		151	268	459	649	1032
6		304	540	907	1274	2011
8		1018	1604	2557	3511	5424
10		1083	1829	3044	4258	6694
12		1559	2601	4297	5993	9396
14		2423	4243	7203	10163	16103
16		3016	5348	9141	12934	20546
18		4571	7970	13499	19028	30123
20		6011	10570	17986	25401	40282
22		6933	12141	20610	29079	46074
24		9712	17239	29481	41723	66290
26		11950	20341	33987	47634	-
28		14513	25609	42238	59407	-

◆ 固定球阀转矩参数 Trunnion Ball Valve Torque Parameters

公称口径 Nominal diameter	压力等级 pressure level 阀门转矩 Valve torque (N.m)	Class150 1.6MPa	Class300 2.5MPa 4.0MPa	Class600 10.0MPa	Class900 15.0MPa	Class1500 25MPa
30		17986	31628	53814	76000	-
32		21346	37536	63866	90197	-
34		25360	43012	71720	100429	-
36		33174	56336	94005	131674	-
40		42912	72947	121794	-	-
42		50757	86419	144418	-	-
48		66934	113942	190394	-	-

注：1、表中转矩是最大压差下不包含安全系数，Class150~600阀座密封按PTFE、Class900~1500阀座密封按尼龙设计，当客户提供实际工况压差时，可根据实际工况下提供转矩。

2、在选用驱动装置时应考虑不小于1.3~1.5倍的安全系数。

3、由于介质性质、内件及开关频率的不同，可能需要考虑额外转矩要求。

Note: 1. The torque is the maximum pressure difference does not include safety factor, Class150~600 seat seal according to PTFE, Class900~1500 seat seal nylon design, when customers provide actual working pressure difference, can provide torque under actual conditions.

2. Should be considered when choosing drive not less than the safety factor of 1.3 ~ 1.5 times.

3. Additional torque requirements may be required due to medium properties, internal parts and switching frequencies.

◆ 订货须知 Ordering Information

- 1、阀门规格（全通径、缩径）及产品型号；
- 2、阀门的压力等级（公制用公称压力PN表示，英美制用磅级Class表示，日本制用K级表示）；
- 3、介质成份（是否含腐蚀性，有无纤维、颗粒介质）；
- 4、温度范围（℃）；
- 5、安装场地（露天或室内）；
- 6、环境温度（℃）；
- 7、使用目的（开-关、紧急切断、调节）；
- 8、法兰端连接尺寸及其密封面形式执行标准；
- 9、对焊端连接尺寸执行标准；
- 10、阀门结构长度执行标准；
- 11、阀门驱动方式：手柄、蜗轮-蜗杆传动、气动（国产、国外）、电动（国产、国外）、气液联动、电液联动。

1. The valve specifications (full size, reducing) and the product model;

2. Valve pressure rating (metric system with the nominal pressure PN, said the American Class with said, the Japanese system grade K said);

3. Medium composition (corrosive, do you have any fiber, particulate medium);

4. Temperature range (°C);

5. Installation site (outdoor or indoor);

6. The environment temperature (°C);

7. Using purpose (on-off, emergency cut-off, regulate);

8. Flange end connection size and its sealing surface form standards;

9. The butt end connection size standards;

10. The length of the valve structure standards;

11. Valve drive mode: handle, worm gear - worm drive, pneumatic (domestic and foreign), electric (domestic and foreign), gas-liquid linkage, electro-hydraulic linkage.

◆ 特殊缩径结构 Special Shrink Neck Structure

通用球阀有全通径和缩径两种结构形式。用于输送粘连、易结渣介质管道上的球阀应使用全通径的，方便定期的刮蜡吹扫器的通过。用于输送气体或物理性能近似于水的介质的管道上宜使用缩径的球阀，因其重量比全通径的球阀轻30%左右，有利于减轻管道负荷，降低成本。

General ball valve has a full size and reducing two kinds of structure forms. Used for conveying adhesion, easy slagging medium pipeline ball valve should be used on the full size, convenient of paraffin purging through on a regular basis. Used for conveying gases or physical properties similar to water medium should be used on the pipeline of red-ucing ball valve, because of its weight is about 30% lighter than the full size of ball valve, is conducive to reducing load pipeline, reduce The cost.

◆ 阀杆防吹出结构 Stem Blow-out Proof Design

阀杆采用内装式，轴肩及聚四氟乙烯（或增强石墨）推力垫结构防止阀杆因管道内压力而吹出，同时减少阀门的启闭扭矩，确保操作安全。

Stem with built-in type, shoulder and ptfe (Or enhance graphite) thrust pad structure prevent stem blow out because of the pressure in the pipeline, at the same time reduce the valve opening and closing torque, to ensure the operation Security.

◆ 限位锁定结构 Limit Locking Structure

为了保证阀门的全开、全闭，保护密封面的完整，阀门设有九十度的限位装置。对安装在野外可防止非工作人员的错误操作，以及在有些振动较大的场合手柄受到撞击产生误动作，必要时加锁，起到安全保险作用。

In order to ensure that the valve fully open and full closed, protect the sealing surface of complete, the spacing device of valve is equipped with ninety degrees. To install in the wild can prevent the non-working personnel mistake operation, as well as on Some of the larger vibration occasions handle hit to produce misoperation, lock when necessary, have insurance effect.

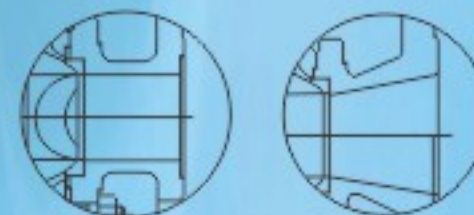
◆ 密封副结构特点 Seal Structure Characteristics

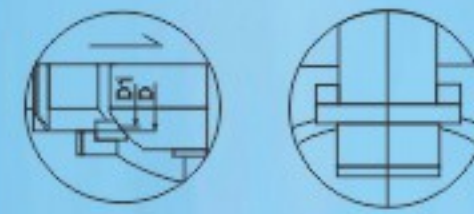
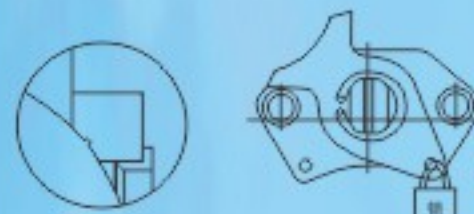
浮动球阀的阀座多选用聚四氟乙烯、对位聚苯等高分子聚合材料，密封性能好，耐高温性能差。由于材料相对较软要达到一定的密封比压，势必增加启闭扭矩，为了尽量改善此种状况，利用管道内压力帮助密封，采用斜面弹性密封环结构，集密封可靠、启闭轻松于一体。还可根据需要增加防冲刷结构，更好地保护阀座不受冲蚀，延长使用寿命。

固定球阀的阀座密封形式有三种：进口密封、出口密封、进出口双向密封。利用介质压力以及D、D1的面积差产生辅助密封力，加之以碟形弹簧的预紧力，实现可靠密封。密封面材料有聚四氟乙烯、增强聚四氟乙烯、对位聚苯、合金钢、硬质合金等，适合不同工况条件。

Floating ball valve seat choose ptfe, registration more polystyrene polymer materials, such as good sealing performance, high temperature resis-tant performance is poor. Because the material is relatively soft to achieve certain secret sealing pressure, it is bound to increase the open-close torque, as far as possible in order to improve this situation, using the pressure in the pipeline to help seal, cant use elastic sealing ring structure, reliable sealing, easily in the opening and closing body. Can also according to the need to increase the scour prevention structure, better protection for the seat is not subject to erosion, prolong service life.

There are three kinds of fixed ball valve seat seal form: import seal and seal export, import and export bidirectional sealing. Using medium pressure and the area difference between the D, D1 generating auxiliary sealing force, plus with disc spring pre-tightening force, to achieve reliable seal. Sealing surface material with ptfe, ptfe, para polystyrene, alloy steel, hard alloy, etc., suitable for different working conditions.


 斜面弹性结构
 Cant elastic structure

 全通径
 Full size

 缩径
 Shrink neck

 防吹出结构
 Blow-out proof design

 防冲刷结构
 Scour prevention structure

 限位锁定结构
 Limit locking structure

◆ 执行标准 Execution Standard

设计与制造 Design and manufacture: API 6D, API 608, BS 5351, GB/T 12237
结构长度 Face to face: ASME B 16.10, GB/T 12221
连接法兰 Connecting flange: JB/T 79.1-79.4, ASME B 16.5, HG/T 20615, HG/T 20592, JIS B2238, GB/T 9113.1-9113.4
试验与检验 Test & check: API 598, GB/T 13927, GB/T 26480, JB/T9092, ISO 5208

◆ 防静电结构 Anti-Static Structure

由于软密封球阀的密封副和填料多采用聚四氟乙烯、对位聚苯、尼龙、橡胶等高分子聚合物，在频繁启闭的过程中容易产生静电，用于部分易燃、易爆介质的场合会打出火花，造成安全隐患。故有些球阀要求设有防静电结构。我厂生产的球阀在球体与阀杆、阀杆与阀体之间设置导电弹簧，将静电及时传入管路导入地下，确保系统安全。

With soft seal ball valve seal and packing with ptfе, registration such as polystyrene, nylon, rubber, high polymer, in the process of frequent opening and closing easy to generate static electricity, used for partial Yi Ran, explosive medium occasion will hit sparks, dangerous hazard. So some ball valves require has anti-static structure. I plant production of ball valve in the sphere and valve stem, valve stem and valve body between the conductive spring, static electricity in time into the import of underground pipeline, ensure the security of the system.

◆ 耐火结构 Refractory Structure

球阀是管线运输中不可缺少的关键部件，为了以防火灾发生时，由于密封面的破坏造成介质的大量流失，球阀可以设计成耐火结构，即在软材料融化后形成金属对金属的硬密封，在火灾期间有效地防止介质外流造成更大的损失。

Ball valve is the indispensable key components in the pipeline transportation, in order to prevent the fire occurs, due to the destruction of the sealing surface medium loss of ball valve can be designed to refractory structure, namely the soft material melt after the formation of a metal to metal hard seal, in the fire Effectively prevent the outflow of medium between causing a greater loss.

◆ 辅助密封结构 Auxiliary Seal Structure

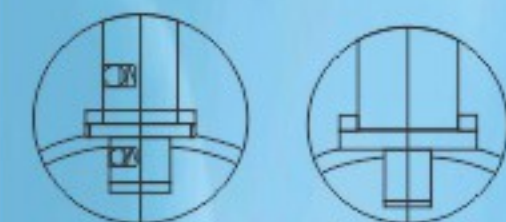
根据用户的需要，球阀的阀座及阀杆的密封部位，可以加装注脂阀，当密封部位因磨损或其他原因产生泄漏时，通过注脂阀注入密封脂，起到暂时的密封作用，以便及时采取应急措施。

According to the needs of users, the ball valve seat and valve stem seal parts, can add fat injection valve, when sealing parts due to wear and tear or its. He cause leakage, by fat injection valve sealing grease injection, temporary seal effect, so as to take timely measures should be saved.

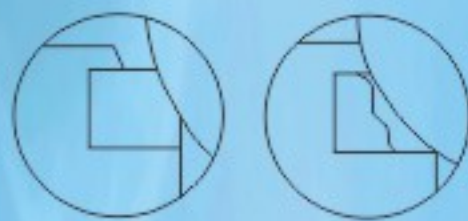
◆ 其他特殊结构 Other Special Structure

根据需求球阀可设计成操作机构加长形式，适用于管线埋地铺设安装的场所。适用于低温工况的球阀，采用长颈结构设计，使得填料远离介质，避免填料失效。此结构与操作机构的加长有本质性区别。

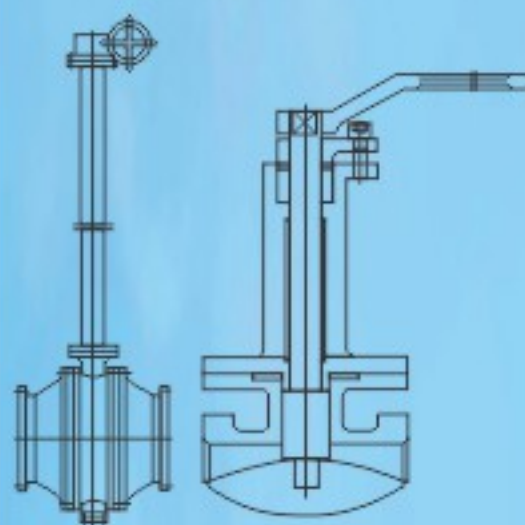
Ball valve can be designed according to need operator extended form, suitable for buried pipelines laid the place of installation. The ball valve is suitable for low temperature condition, using long neck structure design, makes the packing from medium and avoid packing failure. The structure and the operating mechanism of extension has essential difference.



防静电结构
Anti-static structure

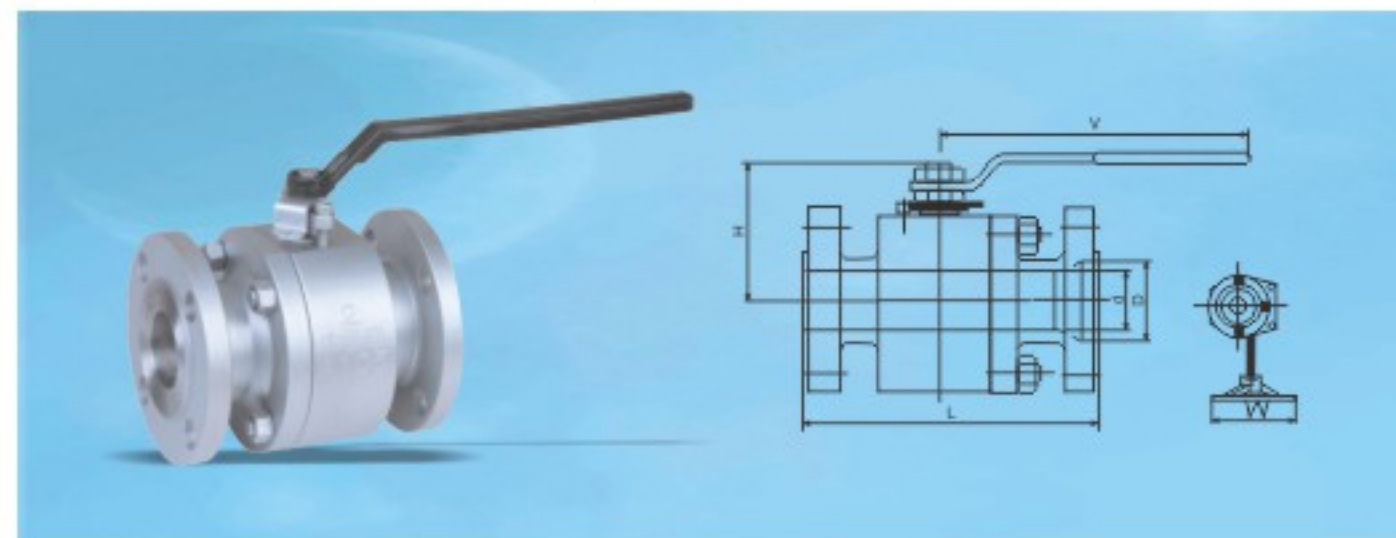


耐火结构
Refractory structure



加长阀杆
Lengthen the valve stem

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



150Lb全通径 Full Size

口径 Caliber DN		D	L		H	V	重量 Weight (kg)
in	mm		RF	BW			
1/2	15	13	108	139.5	56.5	140	2
3/4	20	19	117	152.5	59	140	3
1	25	25	127	165	83.5	215	4
1-1/4	32	32	140	178	105	230	7
1-1/2	40	38	165	191	117.5	265	8
2	50	51	178	216	130.8	430	10
3	80	76	203	283	175.3	1060	16

300Lb全通径 Full Size

口径 Caliber DN		D	L		H	V	重量 Weight (kg)
in	mm		RF	BW			
1/2	15	13	140	140	56.5	140	3
3/4	20	19	152	152	59	140	4
1	25	25	165	165	83.5	215	6
1-1/4	32	32	178	178	105	230	8
1-1/2	40	38	191	191	117.5	265	11
2	50	51	216	216	130.8	430	15

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

400Lb全通径 Full Size

口径 Caliber		D	L		H	V	重量 Weight (kg)
in	mm		RF	BW			
1/2	15	13	165	165	98	150	4
3/4	20	19	191	191	115	180	6
1	25	25	216	216	120.5	265	11
1-1/2	40	38	241	241	159	300	25
2	50	51	292	292	288	450	50

600Lb全通径 Full Size

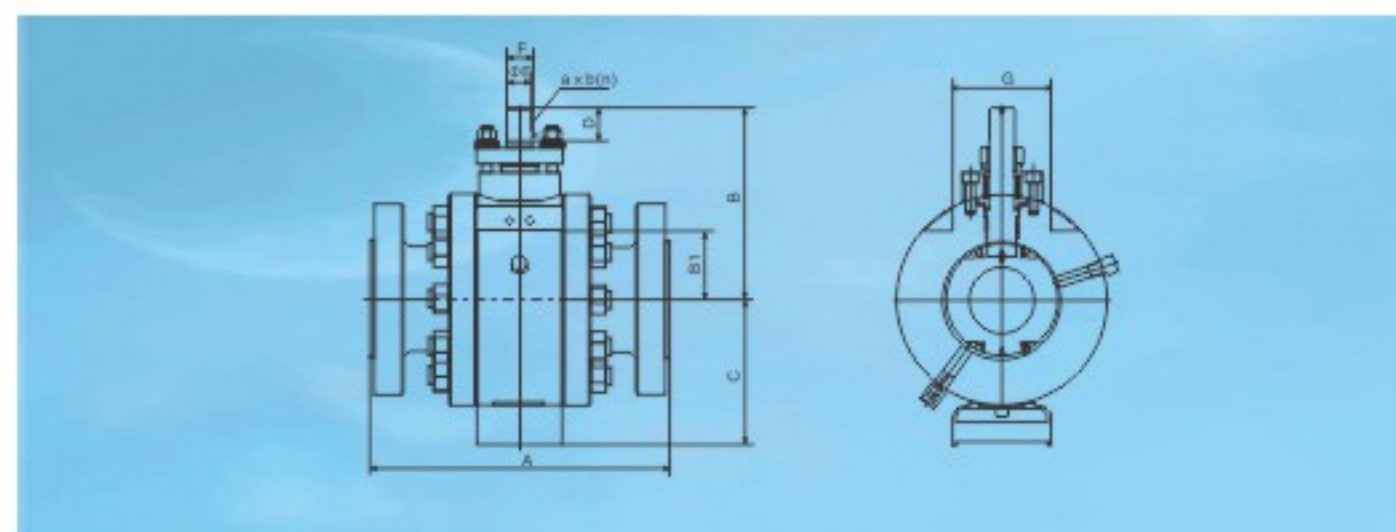
口径 DN Caliber		D	L			H	V	重量 Weight (kg)
in	mm		RF	BW	RTJ			
1/2	15	13	165	165	164	98	150	4
3/4	20	19	191	191	191	115	180	6
1	25	25	216	216	216	120.5	265	11
1-1/4	32	32	229	229	229	130	280	13
1-1/2	40	38	241	241	241	159	300	25

900Lb全通径 Full Size

口径 DN Caliber		D	L			H	V	重量 Weight (kg)
in	mm		RF	BW	RTJ			
1/2	15	13	216	216	216	112	180	10
3/4	20	19	229	229	229	120.5	265	13
1	25	25	254	254	254	158.5	300	15
1-1/4	32	32	279	279	279	165	350	25

1500Lb全通径 Full Size

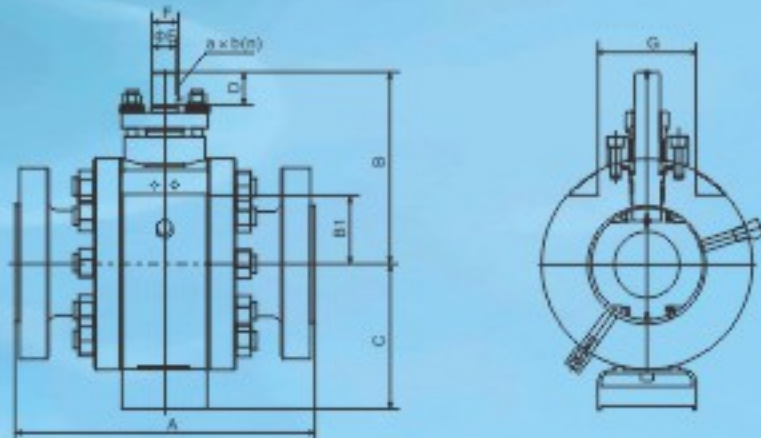
口径 DN Caliber		D	L			H	V	重量 Weight (kg)
in	mm		RF	BW	RTJ			
1/2	15	13	216	216	216	112	180	10
3/4	20	19	229	229	229	120.5	265	13
1	25	25	254	254	254	158.5	300	15
1-1/4	32	32	279	279	279	165	350	25



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

单位 Unit: mm

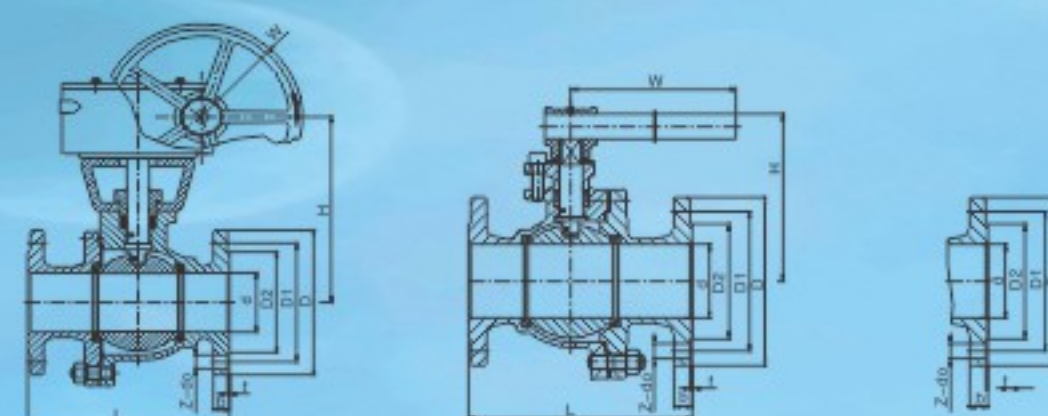
公称尺寸 Nominal size		150Lb								重量 Weight (kg)
in	DN	A-RF	B	C	D	ΦE	F	a × b(n)	ISO5211 法兰 Flange	RF
6"	150	394	390	170	80	40	43	12 × 8(2)	F16	124
8"	200	457	425	215	80	40	43	12 × 8(2)	F16	201
10"	250	533	440	248	90	48	51.5	14 × 9(2)	F25	296
12"	300	610	565	300	95	60	64	18 × 11(2)	F25	485
14"	350	686	585	320	95	60	64	18 × 11(2)	F25	545
16"	400	762	695	365	125	80	85	22 × 14(2)	F30	880
18"	450	864	730	400	125	80	85	22 × 14(2)	F30	1117
20"	500	914	787	455	210	95	100	25 × 14(2)	F35	1482
公称尺寸 Nominal size		300Lb								重量 Weight (kg)
in	DN	A-RF	B	C	D	ΦE	F	a × b	ISO5211 法兰 Flange	RF
6"	150	457	390	170	80	40	43	12 × 8(2)	F16	156
8"	200	502	425	215	80	40	43	12 × 8(2)	F16	252
10"	250	568	440	248	90	48	51.5	14 × 9(2)	F25	361
12"	300	648	565	300	95	60	64	18 × 11(2)	F25	592
14"	350	762	585	320	95	60	64	18 × 11(2)	F25	665
16"	400	838	695	365	125	80	85	22 × 14(2)	F30	950
18"	450	914	730	400	125	80	85	22 × 14(2)	F30	1285
20"	500	991	787	455	210	95	100	25 × 14(2)	F35	1550
公称尺寸 Nominal size		600Lb								重量 Weight (kg)
in	DN	A-RF	B	C	D	ΦE	F	a × b(n)	ISO5211 法兰 Flange	RF
6"	150	559	385	185	80	40	43	12 × 8(2)	F16	219
8"	200	660	470	235	90	52	56	16 × 10(2)	F25	395
10"	250	787	535	275	95	60	64	18 × 11(2)	F25	598
12"	300	838	640	320	125	80	85	22 × 14(2)	F30	882
14"	350	889	660	345	125	80	85	22 × 14(2)	F30	1063
16"	400	991	785	385	210	95	100	25 × 14(2)	F35	1510
18"	450	1092	825	430	210	95	100	25 × 14(2)	F35	1960
20"	500	1194	920	500	260	120	127	32 × 18(2)	F40	2660



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

单位 Unit: mm

公称尺寸 Nominal size		900Lb								重量 Weight (kg)
in	DN	A-RJ	B	C	D	ΦE	F	G	a × b(n)	RJ
2"	50	371	175	150	40	32	35	115	10 × 8(1)	76.7
3"	80	384	205	180	40	36	39	130	10 × 8(1)	93.5
4"	100	460	292	195	50	40	43	150	10 × 8(1)	179
6"	150	613	400	210	90	45	48.5	180	14 × 9(2)	463
8"	200	740	495	255	90	55	59	220	16 × 10(2)	655
10"	250	841	530	290	120	65	69.5	255	18 × 11(2)	1258
12"	300	968	630	340	120	85	90	290	25 × 14(2)	1607
14"	350	1038	650	365	150	85	90	315	25 × 14(2)	2301
16"	400	1140	805	400	150	90	95	335	25 × 14(2)	2580
公称尺寸 Nominal size		1500Lb								重量 Weight (kg)
in	DN	A-RJ	B	C	D	ΦE	F	G	a × b(n)	RJ
2"	50	371	200	160	90	36	39	130	10 × 8(1)	85
3"	80	473	235	185	90	40	43	150	10 × 8(1)	138
4"	100	549	285	210	100	55	59	220	16 × 10(2)	249
6"	150	711	405	235	100	65	69.5	255	18 × 11(2)	655
8"	200	841	544	405	110	70	75	350	28 × 16(2)	1170
10"	250	1000	605	455	130	85	90	390	25 × 14(2)	1385
12"	300	1146	655	490	130	85	90	420	25 × 14(2)	2650

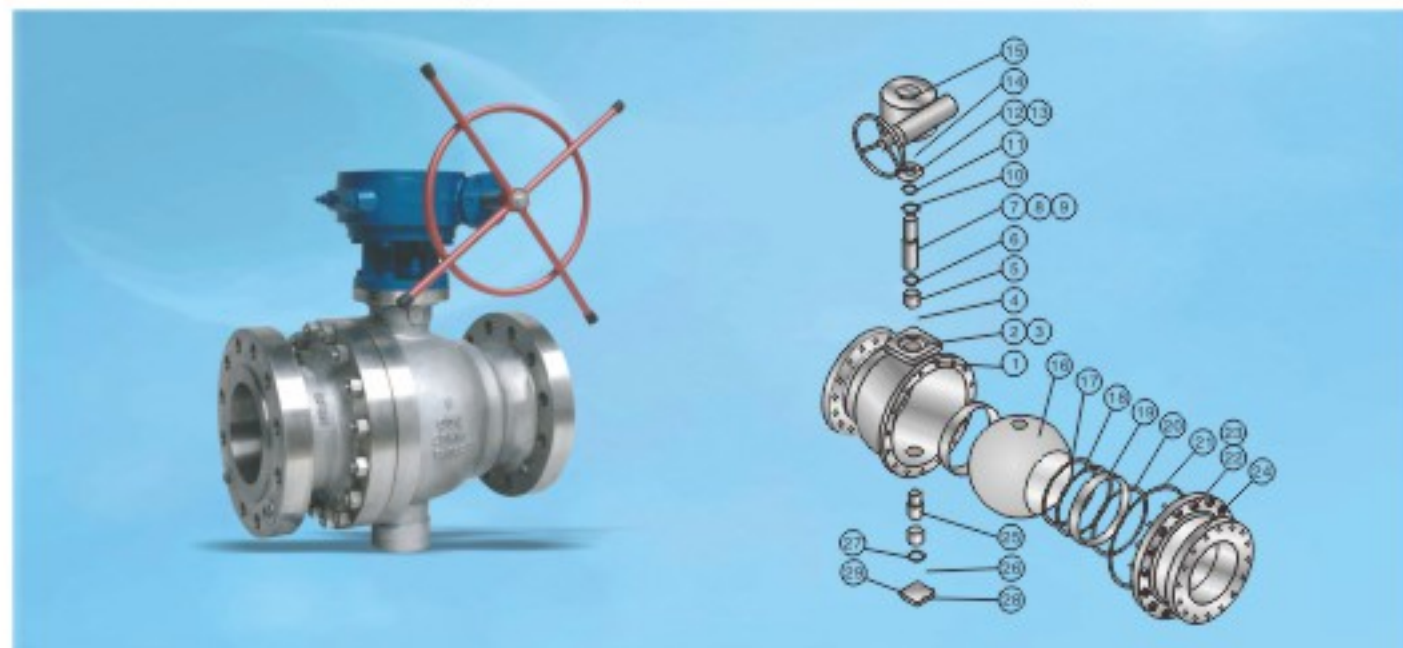


◆ 主要外形尺寸及重量 Main Size Of Outside & Weight

单位 Unit: mm

压力级 Pressure stage	规格 Size NPS	尺寸 Dimensions (mm)										WT (kg)			
		L		d	D	D1	D2	b	f	Z-do	W		H		WT (kg)
		RF	RTJ								手动 Hand wheel	蜗轮 Gear box	手动 Hand wheel	蜗轮 Gear box	
Class150	1/2	108	119	13	89	60.5	35	11.5	1.6	4-15	140	-	85	-	3
	3/4	117	130	19	98	70	43	11.5	1.6	4-15	140	-	90	-	4
	1	127	140	25	108	79.5	51	11.5	1.6	4-15	150	-	99	-	5
	1 1/4	140	153	32	117	89	64	13	1.6	4-15	180	-	105	-	7
	1 1/2	165	178	38	127	98.5	73	14.5	1.6	4-15	200	-	126	-	8
	2	178	191	51	152	120.5	92	16	1.6	4-19	250	-	140	-	12
	2 1/2	190	203	64	178	139.5	105	17.5	1.6	4-19	300	-	165	-	18
	3	203	216	76	190	152.5	127	19.5	1.6	4-19	350	-	178	-	24
	4	229	242	102	229	190.5	157	24	1.6	8-19	500	305	230	380	38
	5	356	369	127	254	216	186	24	1.6	8-22	800	305	280	405	60
Class300	6	394	407	152	279	241.5	216	25.5	1.6	8-22	800	305	310	460	82
	8	457	470	203	343	298.5	270	29	1.6	8-22	1000	305	350	550	145
	10	533	546	254	406	362	324	31	1.6	12-25	-	400	-	706	-
	1/2	140	151	13	95	66.5	35	14.5	1.6	4-15	140	140	85	85	3
	3/4	152	165	19	117	82.5	43	16	1.6	4-19	140	140	90	90	5
	1	165	178	25	124	89	51	17.5	1.6	4-19	150	150	99	99	6
	1 1/4	178	191	32	133	98.5	64	19.5	1.6	4-19	180	180	105	105	8
	1 1/2	190	203	38	156	114.5	73	21	1.6	4-22	200	200	126	126	11
	2	216	232	51	165	127	92	22.5	1.6	8-19	250	250	142	142	16
	2 1/2	241	257	64	190	149	105	25.5	1.6	8-22	300	300	165	165	24
Class600	3	283	299	76	210	168.5	127	29	1.6	8-22	350	350	178	178	34
	4	305	321	102	254	200	157	32	1.6	8-22	500	500	230	230	56
	5	381	397	127	279	235	186	35	1.6	8-22	800	800	280	280	86
	6	403	419	152	318	270	216	37	1.6	12-22	800	800	310	310	125
	8	502	518	203	381	330	270	41.5	1.6	12-25	1000	1000	350	350	222
	1/2	165	164	13	95	66.5	35	14.5	6.4	4-15	140	-	79	-	5
	3/4	190	190	19	118	82.5	43	16	6.4	4-19	140	-	83	-	7
	1	216	216	25	124	89	51	17.5	6.4	4-19	200	-	114	-	9
	1 1/4	229	229	32	133	98.5	64	21	6.4	4-19	200	-	120	-	13
	1 1/2	241	241	38	156	114.5	73	22.5	6.4	4-22	250	-	125	-	17
Class900	2	292	295	51	165	127	92	25.5	6.4	8-19	300	-	156	-	25
	2 1/2	330	333	64	190	149	105	29	6.4	8-22	350	-	172	-	42
	3	356	359	76	210	168	127	32	6.4	8-22	500	305	220	370	56
	4	432	435	102	273	216	157	38.5	6.4	8-25	650	305	250	400	85
	1/2	216	216	13	121	82.5	35	22.5	6.4	4-23	150	-	98	-	9
	3/4	229	229	19	130	88.9	43	25.5	6.4	4-23	150	-	105	-	13
	1	254	254	25	149	101.6	51	29	6.4	4-26	200	-	110	-	16
	1 1/4	279	279	32	159	111.1	64	29	6.4	4-26	250	-	120	-	24
	1 1/2	305	305	38	178	123.5	73	32	6.4	4-29	250	-	125	-	31
	2	368	371	49	216	165.1	92	38.5	6.4	8-26	350	-	160	-	45
Class1500	1/2	216	216	13	121	82.5	35	22.5	6.4	4-23	182	-	98	-	10
	3/4	229	229	19	130	88.9	43	25.5	6.4	4-23	200	-	105	-	14
	1	254	254	25	149	101.6	51	29	6.4	4-26	250	-	110	-	17
	1 1/4	279	279	32	159	111.1	64	29	6.4	4-26	300	-	120	-	25
	1 1/2	305	305	38	178	123.8	73	32	6.4	4-29	350	-	130	-	33
	2	368	371	49	216	165.1	92	38.5	6.4	8-26	500	-	160	-	48

◆ 固定式球阀典型结构及零部件组成 Typical Drawing Of Trunnion Ball Valve And Parts Composition

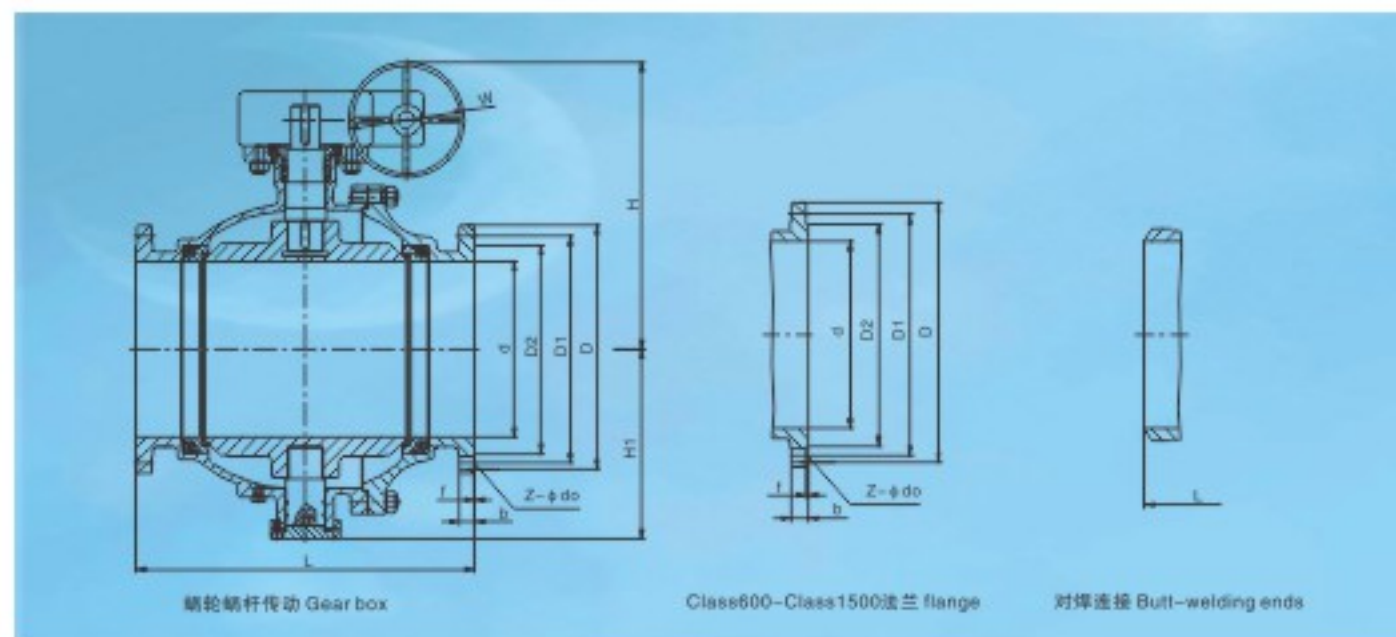


◆ 主要零件名称及材料 Parts And Material List

序号 No.	零件名称 Parts Name	材料 Material				
		WCB/A105+HCr(ENP)	WCB/304	WCB/316	CF8	CF8M
1	阀体 Body	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
2	螺栓 Bolt	ASTM A194 2H	ASTM A194 2H	ASTM A194 2H	ASTM A194 2H	ASTM A194 2H
3	螺母 Nut	ASTM A193 B7	ASTM A193 B7	ASTM A193 B7	ASTM A193 B7	ASTM A193 B7
4	O型圈 O ring	Viton	Viton	Viton	Viton	Viton
5	轴套 Stem bearing	Metal backed PTFE	Metal backed PTFE	Metal backed PTFE	Metal backed PTFE	Metal backed PTFE
6	隔圈 Gasket	ASTM A182 F6a	ASTM A182 F304	ASTM A182 F316	ASTM A182 F304	ASTM A182 F316
7	阀杆 Stem	ASTM A182 F6a	ASTM A182 F304	ASTM A182 F316	ASTM A182 F304	ASTM A182 F316
8	键 Key	碳钢 Carbon steel	碳钢 Carbon steel	碳钢 Carbon steel	不锈钢 Stainless steel	不锈钢 Stainless steel
9	键 Key	碳钢 Carbon steel	碳钢 Carbon steel	碳钢 Carbon steel	不锈钢 Stainless steel	不锈钢 Stainless steel
10	O型圈 O ring	Viton	Viton	Viton	Viton	Viton
11	垫片 Gasket	PTFE	PTFE	PTFE	PTFE	PTFE
12	压盖 Cover	ASTM A105	ASTM A105	ASTM A105	ASTM A182 F304	ASTM A182 F316
13	螺钉 Screw	ASTM A193 B7	ASTM A193 B7	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8M
14	O型圈 O ring	Viton	Viton	Viton	Viton	Viton
15	蜗轮 Gear	碳钢 Carbon steel	碳钢 Carbon steel	碳钢 Carbon steel	碳钢 Carbon steel	碳钢 Carbon steel
16	球体 Ball	A105+HCr(ENP)	ASTM A182 F304	ASTM A182 F316	ASTM A182 F304	ASTM A182 F316
17	阀座 Seat	增强Reinforced PTFE	增强Reinforced PTFE	增强Reinforced PTFE	增强Reinforced PTFE	增强Reinforced PTFE
18	O型圈 O ring	Viton	Viton	Viton	Viton	Viton
19	阀座 Seat	ASTM A105	ASTM A105	ASTM A105	ASTM A182 F304	ASTM A182 F316
20	弹簧 Spring	SS304 or Inconel 750	SS304 or Inconel 750	SS316 or Inconel 750	SS304 or Inconel 750	SS316 or Inconel 750
21	垫片 Gasket	Viton or PTFE or Graphite	Viton or PTFE or Graphite	Viton or PTFE or Graphite	Viton or PTFE or Graphite	Viton or PTFE or Graphite
22	螺栓 Bolt	ASTM A193 B7	ASTM A193 B7	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8M
23	螺母 Nut	ASTM A194 2H	ASTM A194 2H	ASTM A194 2H	ASTM A194 8	ASTM A194 8M
24	阀盖 Bonnet	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
25	下轴 Lower trunnion	ASTM A182 F6a	ASTM A182 F304	ASTM A182 F316	ASTM A182 F304	ASTM A182 F316
26	O型圈 O ring	Viton	Viton	Viton	Viton	Viton
27	调整垫 Gasket	ASTM A182 F6a	ASTM A182 F304	ASTM A182 F316	ASTM A182 F304	ASTM A182 F316
28	下轴盖 Lower cover	ASTM A105	ASTM A105	ASTM A105	ASTM A182 F304	ASTM A182 F316
29	螺钉 Screw	ASTM A193 B7	ASTM A193 B7	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8M

注：上表仅列出了铸钢球阀常用零部件，根据用户要求或阀门的实际使用工况，我公司可以提供其他多种不同的零部件材料配置。

Note: The chart above only lists out some common composition of steel ball valve parts. We may provide other different parts material composition according to the customer's request or the actual valve working condition.



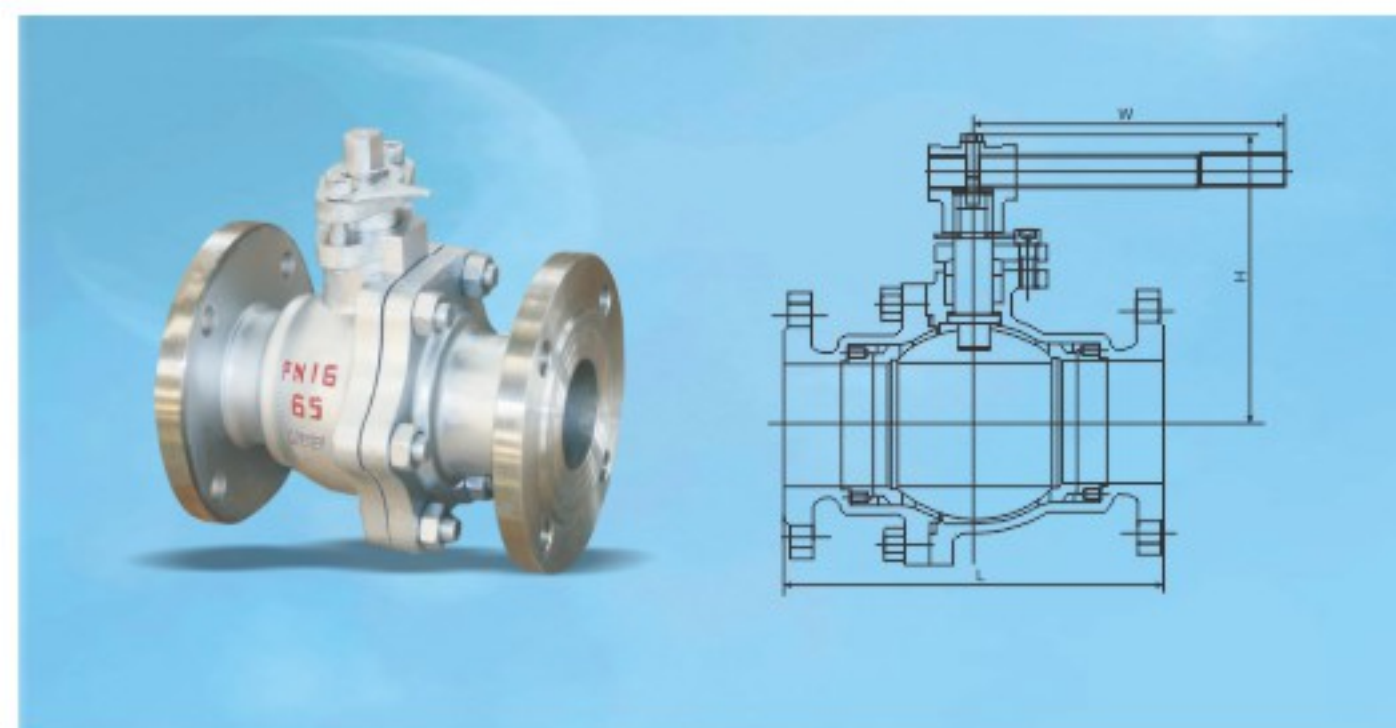
◆ 主要外形尺寸及重量 Main Size Of Outside & Weight

单位Unit:mm

压力级 Pressure stage	规格 Size		尺寸 Dimensions(mm)											WT (kg)
	NPS	L		d	D	D1	D2	b	f	Z-Φdo	H	H1	W	
		RF	BW											
Class 150	4	229	305	102	229	190.5	157	24	1.6	8-19	330	135	300	60
	5	356	381	127	254	216	186	24	1.6	8-22	360	165	300	80
	6	394	457	152	279	241.5	216	25.5	1.6	8-22	392	193	300	101
	8	457	521	203	343	298.5	270	29	1.6	8-22	492	240	300	166
	10	533	559	254	406	362	324	31	1.6	12-25	548	293	300	283
	12	610	635	305	483	432	381	32	1.6	12-25	688	340	400	463
	14	686	762	337	533	476	413	35	1.6	12-29	722	372	400	622
	16	762	838	387	597	540	470	37	1.6	16-29	722	415	400	900
	18	864	914	438	635	578	533	40	1.6	19-32	804	462	500	1150
	20	914	991	489	699	635	584	43	1.6	20-32	952	511	600	1360
	24	1067	1143	591	813	749.5	692	48	1.6	20-35	1154	601	750	2514
	26	1143	1245	633	786	744.5	711	40	1.6	36-22	1300	700	750	3200
	28	1245	1346	684	837	795.5	762	43	1.6	40-22	1550	780	750	4000
	30	1295	1397	735	887	846	813	43	1.6	44-22	1650	830	750	4800
	32	1372	1524	779	941	900	864	44	1.6	48-22	1740	870	750	5800
	36	1524	1727	874	1057	1009.5	972	51	1.6	44-26	1950	970	750	8000
Class 300	4	305	305	102	254	200	157	32	1.6	8-22	340	140	300	70
	5	381	381	127	279	235	186	35	1.6	8-22	370	170	300	95
	6	403	457	152	318	270	216	37	1.6	12-22	402	192	300	128
	8	502	521	203	381	330	270	41.5	1.6	12-25	498	246	300	234
	10	568	559	254	445	387.5	324	48	1.6	16-29	655	303	400	403
	12	648	635	305	521	451	381	51	1.6	16-32	658	348	400	602
	14	762	762	337	584	514.5	413	54	1.6	20-32	686	378	400	803
	16	838	838	387	648	571.5	470	58	1.6	20-35	880	429	600	1273
	18	914	914	438	711	628.5	533	61	1.6	24-35	1050	518	750	1450
	20	991	991	489	775	686	584	64	1.6	24-35	1110	540	750	1700
	24	1143	1143	591	914	813	692	70	1.6	24-41	1400	650	750	3100
	26	1245	1245	633	867	803.5	737	87	1.6	32-35.5	1500	750	750	4500
	28	1346	1346	684	921	857	787	87	1.6	36-35.5	1600	800	750	6000
	30	1397	1397	735	991	921	845	92	1.6	36-39	1720	860	750	7500
	32	1524	1524	779	1054	978	902	102	1.6	32-42	1800	900	750	9000
	36	1727	1727	874	1172	1089	1010	102	1.6	32-45	2200	1020	600	12000

压力级 Pressure stage	规格 Size		尺寸 Dimensions(mm)													重量 Weight (kg)
	DN	NPS	L			d	D	D1	D2	b	f	Z-Φd	H	H1	W	
			RF	RTJ	BW											
Class 600	50	2	292	295	292	49	165	127	92	26	6.4	8-19	240	94	300	32
	65	2 1/2	330	333	330	62	190	149	105	29	6.4	8-22	290	115	300	47
	80	3	356	359	356	74	210	168	127	32	6.4	8-22	340	136	300	68
	100	4	432	435	432	100	273	216	157	38	6.4	8-25	358	152	300	106
	125	5	508	511	508	127	330	266.5	186	45	6.4	8-29	400	180	300	170
	150	6	559	562	559	150	356	292	216	48	6.4	12-29	445	209	400	241
	200	8	660	664	660	201	419	349	270	56	6.4	12-32	498	263	400	444
	250	10	787	791	787	252	508	432	324	64	6.4	16-35	653	312	400	668
	300	12	838	841	838	303	559	489	381	67	6.4	20-35	665	354	500	1050
	350	14	889	892	889	334	603	527	413	70	6.4	20-38	738	389	600	1317
	400	16	991	994	991	385	686	603	470	77	6.4	20-41	920	440	750	1800
	450	18	1092	1095	1092	436	743	654	533	83	6.4	20-44	1100	530	750	2400
	500	20	1194	1200	1194	487	813	724	584	89	6.4	24-44	1200	560	750	3000
	600	24	1397	1407	1397	538	940	838	692	102	6.4	24-52	1480	670	750	5400
Class 900	50	2	368	371	368	49	216	165.1	92	38.5	6.4	8-26	250	98	300	45
	65	2 1/2	419	422	419	62	244	190.5	105	41.5	6.4	8-29	300	120	300	55
	80	3	381	384	381	74	241	190.5	127	38.5	6.4	8-26	345	140	300	94
	100	4	457	460	457	100	292	234.9	157	44.5	6.4	8-32	415	162	300	141
	125	5	559	562	559	125	349	279.4	186	51	6.4	8-35	446	188	300	230
	150	6	610	613	610	150	381	317.5	216	56	6.4	12-32	477	213	400	325
	200	8	737	740	737	201	470	393.7	270	63.5	6.4	12-39	520	270	400	580
	250	10	838	841	838	252	545	469.9	324	70	6.4	16-39	628	322	400	850
	300	12	965	968	965	305	610	533.4	381	79.5	6.4	20-39	680	360	500	1330
	350	14	1029	1038	1029	322	640	558.8	413	86	6.4	20-42	750	400	600	1660
	400	16	1130	1140	1130	373	705	615.9	470	89	6.4	20-45	940	460	750	2280
	450	18	1130	1140	1130	373	705	615.9	470	89	6.4	20-45	940	460	750	2280
Class 1500	40	1 1/2	305	305	305	38	178	123.8	73	32	6.4	4-29	280	100	300	44
	50	2	368	371	368	49	216	165.1	92	38.5	6.4	8-26	320	113	300	67
	65	2 1/2	419	422	419	62	244	190.5	105	41.5	6.4	8-29	340	125	300	80
	80	3	470	473	470	74	267	203.2	127	48	6.4	8-32	385	138	300	130
	100	4	546	549	546	100	311	241.3	157	54	6.4	8-35	415	171	300	192
	125	5	673	676	673	120	375	292.1	186	73.5	6.4	8-42	480	200	400	335
	150	6	705	711	705	144	394	317.5	216	83	6.4	12-39	580	222	400	475
	200	8	832	841	832	192	483	393.7	270	92	6.4	12-45	584	280	400	820
	250	10	991	1000	991	239	585	482.6	324	108	6.4	12-51	650	340	500	1320
	300	12	1130	1146	1130	287	675	571.5	381	124	6.4	16-54	700	370	600	2050
	40	1 1/2	384	387	384	38	203	146	73	44.5	6.4	4-32	290	105	300	72
50	2	451	454	451	42	235	171.4	92	51	6.4	8-29	320	120	300	104	
Class 2500	65	2 1/2	508	514	508	52	267	196.8	105	57.5	6.4	8-32	350	130	300	140
	80	3	578	584	578	62	305	228.6	127	67	6.4	8-35	400	150	300	202
	100	4	673	683	673	87	356	273	157	76.5	6.4	8-42	425	180	400	305
	125	5	794	807	794	100	419	323.8	186	92.5	6.4	8-48	500	210	400	530
	150	6	914	927	914	131	483	368.3	216	108	6.4	8-54	590	230	500	760
	200	8	1022	1038	1022	179	550	438.1	270	127	6.4	12-54	610	290	500	1200
	250	10	1270	1292	1270	223	675	539.7	324	165.5	6.4	12-67	660	350	600	2080
	300	12	1468	1492	1468	287	787	635	457	190	6.4	16-70	760	420	750	2580

注: 1. RF表示突出面法兰, RJ表示环连接面法兰。
2. 对于NPS≤24的阀门, 本表法兰尺寸按ASME B16.5标准。根据用户要求, 法兰尺寸也可按GB/T9112-9124、HG2065-20626、SH3406设计制造。
3. 对于NPS≥26的阀门, 本表法兰尺寸按ASME B16.47标准的B系列、API 605标准及GB/T13402标准。根据用户要求, 法兰尺寸也可按ASME B16.47标准的A系列及MSS SP-44标准。
Notes: 1. RF indicates raised face flange, RJ means ring joint flange, and BW is butt welding ends connection.
2. for NPS≤24 valve, the size of the flange joint ASME B16.5 standard. according to user requirements, flange size also can press GB/T9112-9124, HG2065-20626, SH3406 design and manufacture.
3. For valve of NPS≥26, the flange dimensions of above table conforms to B series of ASME B16.47 and API 605. As required by customers, flange dimensions may also conform to A series of ASME B16.47 and MSS-SP-44.



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

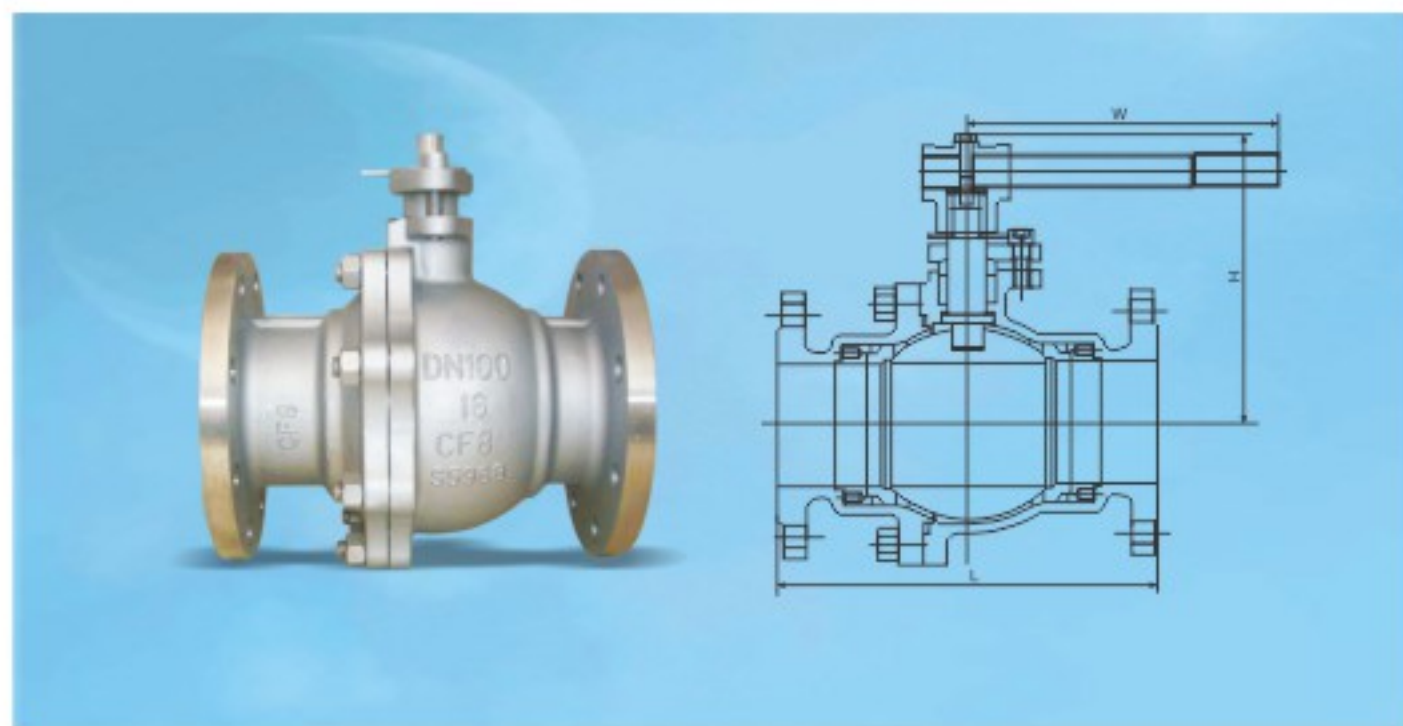
PN1.6 MPa

DN(mm)	15	20	25	32	40	50	65	80	100	125	150	200
L	130	140	150	165	180	200	220	250	280	320	360	400
H	59	63	75	85	95	107	142	152	178	252	272	342
W	130	130	160	180	230	230	400	400	650	1050	1050	1410
WT(kg)	2.5	3	5	6	7	10	15	19	33	58	93	160

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

PN2.5 MPa

DN(mm)	15	20	25	32	40	50	65	80	100	125	150	200
L	130	140	150	165	180	200	220	250	320	400	400	550
H	59	63	75	97	107	142	152	178	252	272	342	345
W	130	130	160	230	230	400	400	700	1100	1100	1500	1500
WT(kg)	3	4	5	10	14	20	25	30	40	65	85	153



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

PN4.0 MPa

DN(mm)	15	20	25	32	40	50	65	80	100	125	150	200
L	130	140	150	180	200	220	250	280	320	400	400	550
H	59	63	75	97	107	142	152	178	252	272	342	345
W	130	130	160	230	230	400	400	700	1100	1100	1500	1500
WT(kg)	3	4	5	10	14	20	25	50	70	80	101	216

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

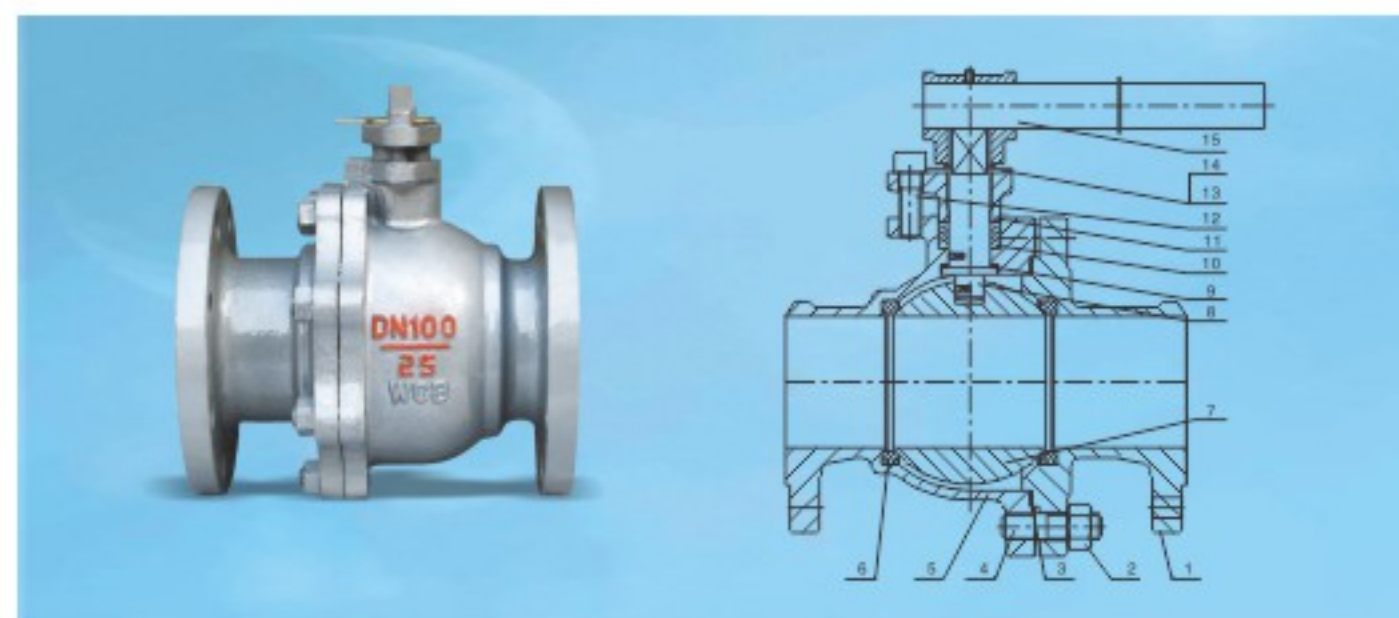
PN6.4 MPa

DN(mm)	15	20	25	32	40	50	65	80	100	125	150	200
L	165	190	216	229	241	292	330	356	432	508	559	660
H	59	63	75	97	107	142	152	178	252	272	305	398
W	130	130	160	230	230	400	400	700	1000	1100	1500	1800
WT(kg)	-	-	-	-	-	34	44	60	87	125	216	346

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

PN10.0 MPa

DN(mm)	15	20	25	32	40	50	65	80	100	125	150	200
L	165	190	216	229	241	292	330	356	432	508	559	660
H	59	63	75	97	107	142	152	178	252	272	305	398
W	130	130	160	230	230	400	400	700	1000	1100	1500	1800
WT(kg)	-	-	-	-	28	41	54	72	105	152	262	428



◆ 执行标准 Standards Adopted

设计依据 Design reference	设计标准 Design standard	结构长度 Structural length	连接法兰 Flanged ends	对焊端 Butt-welding ends	试验和检验 Test & inspection
GB	GB/T 19672 GB/T 12237	GB/T 12221	GB/T 9113 JB/T 79	GB/T 12224	JB/T 9092

注：阀门连接法兰及对焊端尺寸可根据用户要求设计制造。

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

◆ 主要零件材料 Major Parts Material

序号 No.	零件名称 Accessory name	材料 Material
		GB
1	阀盖 Bonnet	WCB
2	螺母 Nut	35
3	垫片 Gasket	柔性石墨+不锈钢 Graphite+stainless steel
4	螺栓 Stud	35CrMoA
5	阀体 Body	WCB
6	阀座 Seat	PTFE
7	球体 Ball*	25+HCr
8	阀杆 Stem**	1Cr13
9	垫片 Gasket	PTFE
10	填料 Packing	柔性石墨 Graphite
11	填料压盖 Packing gland	WCB
12	螺钉 Screw nail	35
13	定位片 Locating piece	Q235A
14	挡圈 Ring	65Mn
15	手柄 Wrench	KT33

注：*抗硫型阀门该零件的材质为GB(1Cr18Ni9+Ni.P)、ASTM(A182-304+Ni.P)

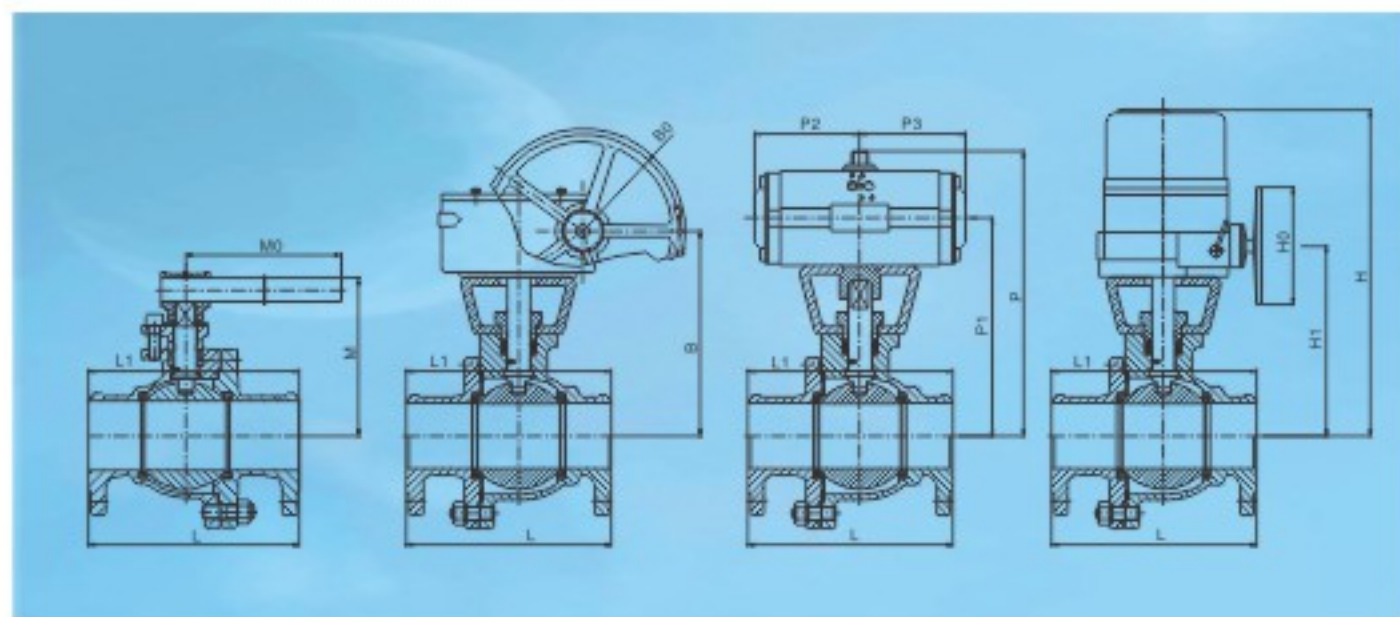
The material of this part about the anti-sulphur type valve is GB(1Cr18Ni9+Ni.P), ASTM(A182-304+Ni.P)

**抗硫型阀门该零件的材质为GB(1Cr18Ni9)、ASTM(A276-321)

The material of this part about the anti-sulphur type valve is GB(1Cr18Ni9), 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。

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

型号Model: Q3(6、7、8、9)4(6)1F(Y、N、PPL)

压力等级 Pressure	公称口径 Nominal diameter	法兰 Flange		对焊 Butt welding	手动 Hand- operated		蜗轮蜗杆 Worm gear worm			气动、液动 Air-operating and Fluid driving					电动 Electric driving					
		mm	L		L1	M	M0	B	B0	型号	P	P1	P2	P3	型号	H	H1	H0	型号	
			系列1																	系列2
1.6MPa 2.5MPa	15	130	140	140	59	130	-	-	-	200	122	326	136	AG06	-	-	-	-		
	20	140	150	152	63	130	-	-	-	204	126	326	136	AG09	-	-	-	-		
	25	150	165	165	75	160	-	-	-	257	162	347	181	AG09	-	-	-	-		
	32	165	180	178	95	230	-	-	-	245	169	420	181	AG13	-	-	-	-		
	40	180	200	190	95	230	-	-	-	264	169	420	181	AG13	-	-	-	-		
	50	200	220	216	107	230	-	-	-	340	209	426	257	AG13	472	377	190	Q60-1		
	65	220	250	273	142	400	-	-	-	370	239	426	257	AG13	486	391	190	Q60-1		
	80	250	280	310	152	400	-	-	-	389	258	490	257	AG13	579	484	190	Q60-1		
	100	280	320	350	178	650	-	-	-	594	337	523	287	AG13	595	500	190	Q60-1		
	125	320	360	400	252	1050	-	-	-	646	437	378	378	AW17	650	500	400	Q120-1		
	150	360	400	457	272	1050	292	400	A	646	437	378	378	AW17	739	589	400	Q120-1		
	200	400	457	521	342	1410	398	600	B	781	537	530	530	AW20	799	649	400	Q120-1		

注：缩径阀门结构长度、连接法兰按不缩径规格；阀门高度、驱动装置尺寸同缩小一个规格尺寸。

Note: The face to face dimension and connecting flange of a diameter reduced valve are per the non-reducing norms; the sizes of both valve height and actuator are reduced by one norm size.

◆ 主要外形尺寸 Main Size Of Outside

型号Model: Q3(6、7、8、9)4(6)1F(Y、N、PPL)

压力等级 Pressure	公称通径 Nominal diameter	法兰 Flange		对焊 Butt welding	手动 Hand- operated		蜗轮蜗杆 Worm gear worm			气动、液动 Air-operating and Fluid driving					电动 Electric driving					
		mm	L		L1	M	M0	B	B0	型号	P	P1	P2	P3	型号	H	H1	H0	型号	
			系列1																	系列2
4.0MPa	15	130	140	140	59	130	-	-	-	200	122	326	136	AG06	-	-	-	-		
	20	140	150	152	63	130	-	-	-	204	126	326	136	AG09	-	-	-	-		
	25	150	160	165	75	160	-	-	-	257	162	347	181	AG09	-	-	-	-		
	32	169	180	178	95	230	-	-	-	245	169	420	181	AG13	-	-	-	-		
	40	180	200	190	95	230	-	-	-	264	169	420	181	AG13	-	-	-	-		
	50	200	220	216	107	230	-	-	-	340	209	426	257	AG13	472	377	190	Q60-1		
	65	220	250	241	142	400	-	-	-	379	248	426	257	AG13	486	391	190	Q60-1		
	80	250	280	283	152	400	-	-	-	452	295	490	257	AG13	579	484	190	Q60-1		
	100	280	320	305	178	650	-	-	-	594	375	523	287	AG13	595	500	190	Q60-1		
	125	320	400	381	252	1050	-	-	-	646	437	378	378	AW17	650	500	400	Q120-1		
	150	360	400	457	272	1050	292	400	A	744	500	378	378	AW17	739	589	400	Q120-1		
	200	400	500	521	342	1410	398	600	B	920	615	530	530	AW20	799	649	400	Q120-1		
6.4MPa 10.0MPa	15	165	140	165	59	160	-	-	-	200	122	326	136	AG06	-	-	-	-		
	20	190.5	160	190.5	63	160	-	-	-	204	126	326	136	AG09	-	-	-	-		
	25	216	180	216	75	230	-	-	-	257	162	347	181	AG09	-	-	-	-		
	32	178	200	178	95	230	-	-	-	245	169	420	181	AG13	-	-	-	-		
	40	241	220	241	95	400	-	-	-	264	169	420	181	AG13	-	-	-	-		
	50	292	250	292	167	400	-	-	-	340	209	426	257	AG13	472	377	400	Q120-1		
	65	330	280	330	180	650	-	-	-	379	248	426	257	AG13	599	449	400	Q120-1		
	80	356	320	356	198	650	292	400	A	452	295	490	257	AG13	599	449	400	Q120-1		
	100	406 ^① 432	360	406 ^① 432	198	1050	398	600	B	594	375	378	378	AW17	632	472	400	Q120-1		
	150	559	500	559	-	-	400	800	C	650	425	378	378	AW17	650	430	400	Q250-1		
	200	660	600	660	-	-	430	800	C	680	485	530	530	AW20	710	490	400	Q250-1		

注：缩径阀门结构长度、连接法兰按不缩径规格；阀门高度、驱动装置尺寸同缩小一个规格尺寸。

①457为PN2.5MPa、4.0MPa尺寸。

Note: The face to face dimension and connecting flange of a diameter reduced valve are per the non-reducing norms; the sizes of both valve height and actuator are reduced by one norm size.

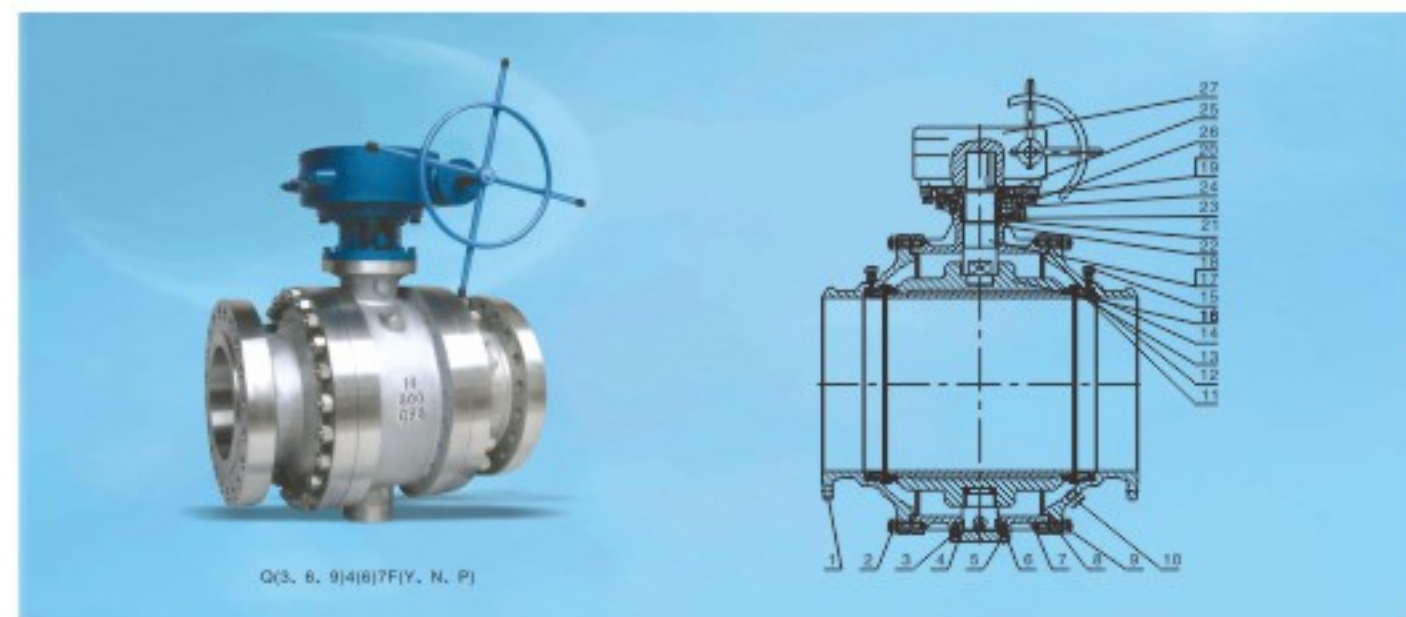
①457 to be the size of PN2.5MPa, 4.0MPa.

注：缩径阀门结构长度、连接法兰按不缩径规格；阀门高度、驱动装置尺寸同缩小一个规格尺寸。

①406为PN6.4MPa、Class400Lb尺寸；432为PN10.0MPa。

Note: The face to face dimension and connecting flange of a diameter reduced valve are per the non-reducing norms; the sizes of both valve height and actuator are reduced by one norm size.

①406 to be the size of PN6.4MPa, Class400Lb; 432 to be the size of PN10.0MPa.



◆ 执行标准 Standards Adopted

设计依据 Design reference	设计标准 Design standard	结构长度 Face to Face	连接法兰 Flanged ends	对焊端 Butt-welding ends	试验和检验 Test & inspection
GB	GB/T 19672 GB/T 12237	GB/T 12221	GB/T9113 JB/T 79	GB/T 12224	JB/T 9092

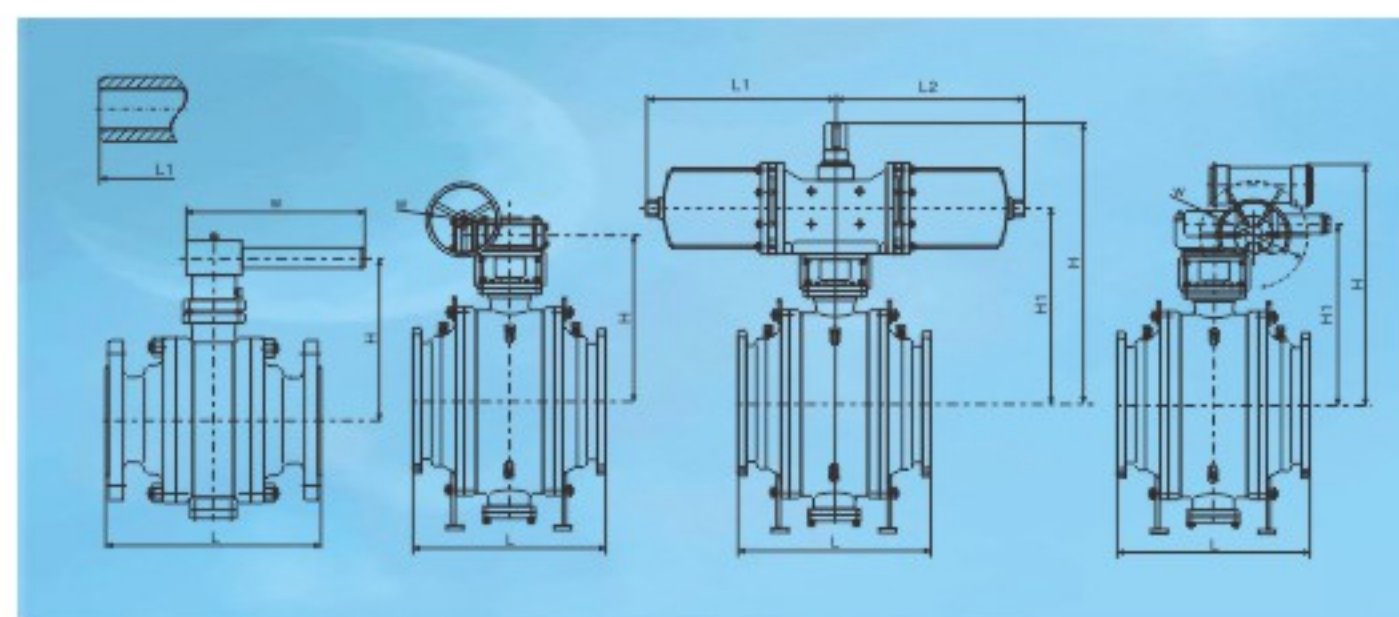
注：阀门连接法兰及对接端尺寸可根据用户要求设计制造。
Note: The sizes of valve connecting flange and butt-welding end can be designed according to customer's requirement.

◆ 主要零件材料 Main Parts Material

序号 No.	零件名称 Accessory name	材料 Material GB	序号 No.	零件名称 Accessory name	材料 Material GB
1	端盖 End cover	WCB	15	注脂阀 Grease injection valve	组件 Package
2	螺母 Nut	45	16	球体 Ball	WCB+HCr
3	底座 Bottom Cap	WCB	17	阀杆 Stem	1Cr13
4	垫片 Gasket	PTFE, 柔性石墨+不锈钢 PTFE/Graphite+SS	18	键 Key	45
5	螺钉 Screw	35CrMo	19	垫片 Gasket	PTFE+不锈钢 PTFE+SS
6	下阀杆 Put the valve stem	1Cr13	20	O型圈 "O" Ring	NBR
7	O型圈 "O" Ring	NBR	21	填料箱 Packing case	25
8	垫片 Gasket	PTFE, 柔性石墨+不锈钢 PTFE/Graphite+SS	22	螺钉 Screw	35CrMo
9	阀体 Body	WCB	23	填料垫 Packing seat	1Cr13
10	排污塞 Drain plug	25	24	填料 Packing	PTFE+碳纤维 柔性石墨 PTFE/Carbon fibre/Soft graphite
11	弹簧 Spring	Inconel X-750	25	填料压盖 Packing gland	WCB
12	阀座 Seat	25	26	支架 Bracket	Q235A
13	密封圈 Sealing ring	PTFE	27	连接套 Connection set	45
14	O型圈 "O" Ring	NBR			

注：*抗硫型阀门该零件的材质为GB(1Cr18Ni9+Ni.P), ASTM(A182-304+Ni.P) The material of this part about the anti-sulphur type valve is GB (1Cr18Ni9+Ni.P), ASTM(A182-304+Ni.P)

**抗硫型阀门该零件的材质为GB(1Cr18Ni9), ASTM(A276-321) The material of this part about the anti-sulphur type valve is GB(1Cr18Ni9), 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。
Major parts of the valve series and materials of sealing surface differ according to actual working condition and customer's special requirement.



◆ 主要外形尺寸及重量 Main Dimensions & Weight

PN1.6MPa

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	533	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 Manual	H	107	125	152	178	300	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	W	230	400	400	450	700	750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	kg	9.5	15	19	33	58	93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
蜗轮蜗杆 传动 Worm Gear	H	-	-	-	-	-	-	398	495	580	625	670	698	840	1050	1100	1150	1230	1320	1480	1610	1780	1865
	W	-	-	-	-	-	-	600	600	800	800	800	800	800	800	800	800	800	800	800	800	800	800
	kg	-	-	-	-	-	-	160	180	240	390	510	750	1190	2600	3000	4490	7800	12560	14280	21900	34100	46200
气动 Pneu- matic	H	269	379	389	479	552	666	804	839	972	1127	1459	1529	1559	1145	1160	1460	1540	1630	-	-	-	-
	H1	174	248	258	322	395	457	595	630	728	883	1154	1224	1294	915	930	1100	1180	1280	-	-	-	-
	L1	89	148	148	287	287	378	378	378	530	530	680	680	680	1455	1455	1665	1665	1960	-	-	-	-
	L2	181	257	257	287	287	378	378	378	530	530	680	680	680	1455	1455	1665	1665	1960	-	-	-	-
电动 Electric	kg	16.6	38	42.1	53	95.3	105.2	207.8	255	409	518	838	1067	1295	2330	3200	4750	8200	13200	-	-	-	-
	H	-	-	-	-	-	-	554	600	652	761	771	831	921	943	1123	1218	1328	1696	1925	2105	2245	2395
	H1	-	-	-	-	-	-	337	382	435	480	520	580	670	770	850	945	1055	1130	1240	1420	1560	1710
	W	-	-	-	-	-	-	200	200	200	280	280	280	305	305	305	400	400	460	460	600	600	600
kg		-	-	-	-	-	-	127	210	270	420	535	862	1100	1350	2420	3410	5120	9100	14100	15200	22300	36000
		-	-	-	-	-	-	127	210	270	420	535	862	1100	1350	2420	3410	5120	9100	14100	15200	22300	36000

◆ 主要外形尺寸及重量 Main Dimensions & Weight

PN2.5, 4.0MPa

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	2½	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 Manual	H	107	125	152	178	300	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	W	230	400	400	600	700	800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	kg	20.9	42.5	52.9	92	145	182	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
蜗轮蜗杆传动 Worm Gear	H	-	-	-	-	-	-	398	495	580	625	670	698	840	1050	1100	1150	1230	1320	1480	1610	1780	1865
	W	-	-	-	-	-	-	600	600	800	800	800	800	800	800	800	800	800	800	800	800	800	800
	kg	-	-	-	-	-	-	278	500	733	1029	1418	1592	2195	3460	5770	7932	10093	13775	16105	24060	38155	52350
气动 Pneumatic	H	269	379	452	579	595	595	736	942	994	1188	1280	1480	1554	1380	1430	1749	1540	1630	-	-	-	-
	H1	209	248	295	322	386	386	527	698	750	883	975	1080	1154	930	980	1149	1180	1280	-	-	-	-
	L1	148	148	287	287	378	378	378	530	530	680	680	680	1455	1455	1665	1665	1960	1960	-	-	-	-
	L2	181	257	287	287	378	378	378	530	530	680	680	680	1455	1455	1665	1665	1960	1960	-	-	-	-
	kg	20.9	42.5	52.7	77.9	107	130	220	280	450	570	920	1140	1360	2450	3360	5800	7900	10200	-	-	-	-
电动 Electric	H	-	-	-	-	-	554	600	652	761	771	831	921	943	1123	1218	1328	1696	1925	2105	2245	2395	2470
	H1	-	-	-	-	-	337	382	435	480	520	580	670	770	850	945	1055	1130	1240	1420	1560	1710	1785
	W	-	-	-	-	-	200	200	200	280	280	280	305	305	305	400	400	460	460	600	600	600	600
	kg	-	-	-	-	-	142	240	320	475	590	1050	1200	1470	2520	3720	6250	8300	1121	1620	2510	3940	5560

◆ 主要外形尺寸及重量 Main Dimensions & Weight

PN6, 4MPa

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	2½	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	406	495	597	673	762	826	902	978	1054	1232	1397	1651	1880	2300	2057	2400	2400	2700
对焊 Butt Welding	L1	292	330	356	406	495	597	673	762	826	902	978	1054	1232	1397	1651	1880	2300	2050	2180	2300	2400
手动 Manual	H	108	155	197	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	W	230	400	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	kg	25	45	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
蜗轮蜗杆传动 Worm Gear	H	-	-	-	235	300	374	445	512	550	615	750	810	1050	1100	1180	1274	1366	1540	1680	1840	1915
	W	-	-	-	600	600	800	800	800	800	800	800	800	800	800	800	800	800	1000	1000	1000	1000
	kg	-	-	-	66	145	250	540	780	1000	1300	2100	3400	5000	6520	8350	11250	14100	22500	29500	42100	62500
气动 Pneumatic	H	269	-	519	636	728	839	1014	1120	1225	1480	-	1480	1365	1430	-	-	-	-	-	-	-
	H1	209	-	295	322	386	527	698	750	883	1080	-	1080	915	980	-	-	-	-	-	-	-
	L1	148	-	287	287	378	378	530	530	680	680	-	680	1665	1665	-	-	-	-	-	-	-
	L2	257	-	287	287	378	378	530	530	680	680	-	680	1665	1665	-	-	-	-	-	-	-
	kg	33.6	-	5.3	81.2	133.6	236.6	480	760	1050	1400	-	2300	3600	5200	-	-	-	-	-	-	-
电动 Electric	H	-	-	-	-	554	600	652	761	771	831	921	943	1123	1218	1328	1815	1925	2164	2324	2474	2544
	H1	-	-	-	-	337	382	480	520	594	632	670	770	850	945	1055	1130	1240	1440	1660	1750	1820
	W	-	-	-	-	200	200	200	280	280	280	305	305	305	460	460	600	600	600	600	600	600
	kg	-	-	-	-	154	240	495	793	1125	1610	1800	2410	3750	5540	7900	12500	15300	18100	31000	45000	65200

◆ 主要外形尺寸及重量 Main Dimensions & Weight

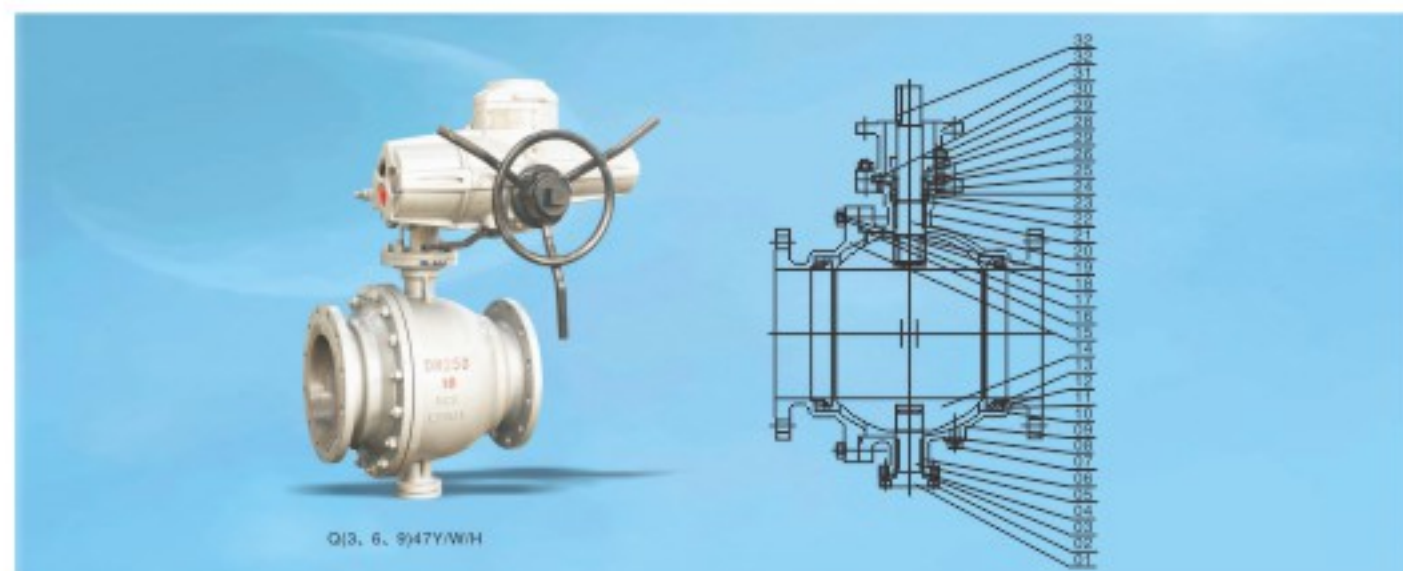
PN10, 0MPa

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	2½	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 Manual	H	108	155	197	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	W	400	650	650	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	kg	31	54	62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
蜗轮蜗杆传动 Worm Gear	H	-	-	-	235	300	374	445	512	550	615	750	810	1050	1180	1250	1315	1420	1540	1680	1840	1915
	W	-	-	-	600	600	800	800	800	800	800	800	800	800	800	800	800	800	1000	1000	1000	1000
	kg	-	-	-	113	253	485	758	1067	1083	1525	2095	2638	4736	6758	9138	13298	18335	21356	31195	47483	65200
气动 Pneumatic	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	-	-	-	-	-	-	-
	L1	148	-	287	287	378	530	530	680	1445	1445	-	1665	1665	1960	-	-	-	-	-	-	-
	L2	257	-	287	287	378	530	530	680	1445	1445	-	1665	1665	1960	-	-	-	-	-	-	-
	kg	225	-	325	656	927	1350	1660	1820	2130	2550	-	3500	5300	6800	-	-	-	-	-	-	-
电动 Electric	H	-	-	-	-	600	652	761	771	831	921	943	1123	1218	1328	1458	1855	1960	2164	2324	2474	2544
	H1	-	-	-	-	382	480	520	594	632	670	770	850	945	1055	1135	1170	1285	1440	1660	1750	1820
	W	-	-	-	-	200	200	280	280	280	305	305	305	400	400	600	600	600	600	600	600	600
	kg	-	-	-	-	930	1410	1620	1910	2200	2600	2950	3620	5410	6920	10000	13420	18450	22300	32000	48000	66200

◆ 主要外形尺寸及重量 Main Dimensions & Weight

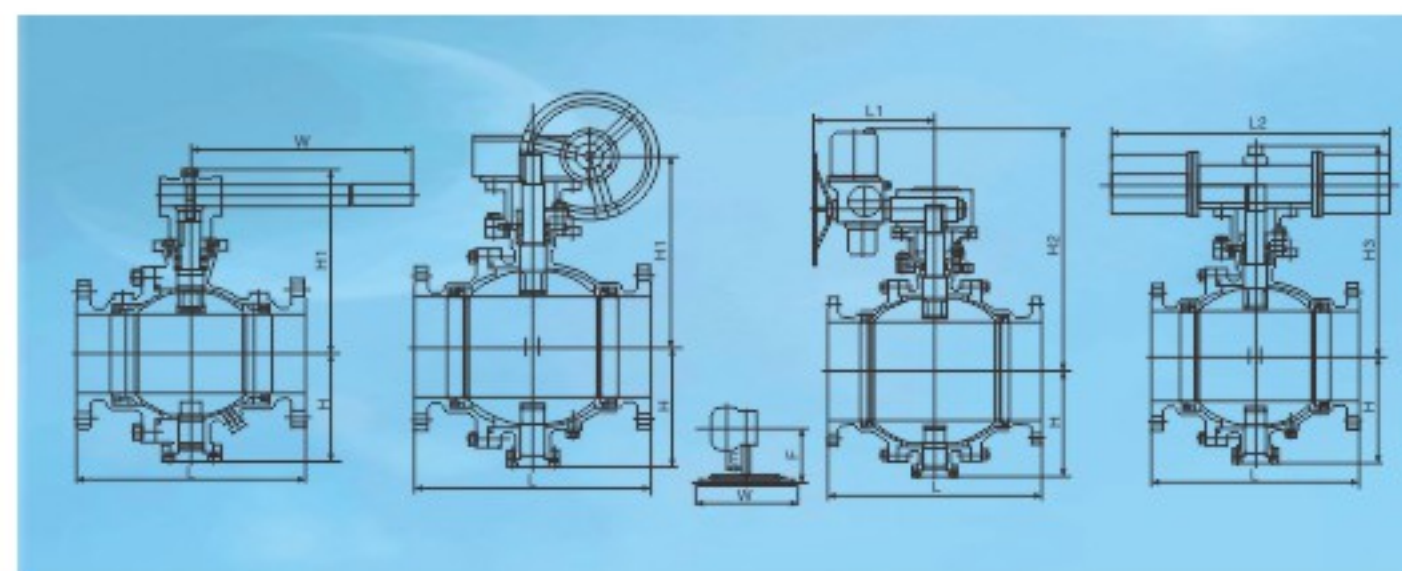
PN15, 0MPa

DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	800	900	1000	1050	1200
NPS	in	2	2½	3	4	6	8	10	12	14	16	18	20	24	32	36	40	42	48
法兰 Flange	L	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549	1780	2050	2050	2180	2600
对焊 Butt Welding	L1	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549	1700	1780	1960	2100	2376
手动 Manual	H	217	241	259	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	W	650	650	650	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	kg	48	55	85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
蜗轮蜗杆传动 Worm Gear	H	-	-	-	297	364	394	502	572	675	762	866	894	965	1210	1290	1360	1480	1630
	W	-	-	-	600	800	800	800	800	800	800	800	800	800	800	1000	1000	1000	1000
	kg	-	-	-	145	360	580	1010	1510	1450	2150	2820	4200	6800	10180	11820	18900	21500	47500
气动 Pneu- matic	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	-	-	-	-	-
	L1	287	-	378	530	530	680	1455	1455	1665	1665	1960	1960	1960	-	-	-	-	-
	L2	287	-	378	530	530	680	1455	1455	1665	1665	1960	1960	1960	-	-	-	-	-
	kg	340	-	520	760	1120	1420	1780	2050	2350	3150	3840	4580	6200	-	-	-	-	-
电动 Electric	H	-	-	-	600	761	771	831	921	943	1123	1218	1328	1458	1904	1984	2054	2174	2274
	H1	-	-	-	382	520	594	632	670	770	850	945	1055	1135	1180	1260	1330	1450	1560
	W	-	-	-	200	280	280	280	305	305	305	400	400	600	600	600	600	600	600
	kg	-	-	-	780	1110	1410	1820	2150	2400	3210	3950	4620	6320	10200	11000	17920	22500	47800



◆ 主要零件材料 Main Parts Material

序号 No.	材料标准 Material standard 零件 名称 Parts name	材料牌号 Material mark				序号 No.	材料标准 Material standard 零件 名称 Parts name	材料牌号 Material mark			
		碳钢 Carbon steel		不锈钢 Stainless steel				碳钢 Carbon steel		不锈钢 Stainless steel	
		GB	API	GB	API			GB	API	GB	API
01	底座 Bottom cover	25	A105	1Cr18Ni9Ti	F304/F316 F304L/F316L	17	螺母 Nut	45	A194-2H	0Cr18Ni	A194-8M
02	底座螺钉 Bottom cover screw	35CrMoA	A193-B7	1Cr17Ni2	A193-B8M	18	双头螺栓 Double end studs	35CrMoA	A193-B7	1Cr17Ni2	A193-B8M
03	垫圈 Gasket	金属夹石墨 Metal clip,graphite				19	球体键 Sphere key	40Cr	40Cr	1Cr17Ni2	1Cr17Ni2
04	止推轴承 Thrust bearing	金属夹 Metal clip PTFE				20	上阀杆 Upper stem	2Cr13	A276-410	1Cr18Ni9Ti 1Cr18Ni 12Mo2Ti	F304/F316 F304L/F316L
05	下阀杆 Lower stem	2Cr13	A276-410	1Cr18Ni9Ti 1Cr18Ni 12Mo2Ti	F304/F316 F304L/F316L	21	阀杆“O”形圈 Stem“O”ring	氟橡胶 Fluorine rubber	氟橡胶 Fluorine rubber	氟橡胶 Fluorine rubber	氟橡胶 Fluorine rubber
06	下阀杆轴承 Lower stem bearing	金属夹 Metal clip PTFE				22	填料O形圈 Packing O ring	氟橡胶 Fluorine rubber	氟橡胶 Fluorine rubber	氟橡胶 Fluorine rubber	氟橡胶 Fluorine rubber
07	垫圈 Gasket	金属夹石墨 Metal clip graphite				23	上阀杆轴承 Stem bearing	金属夹 Metal clip PTFE	金属夹 Metal clip PTFE	金属夹 Metal clip PTFE	金属夹 Metal clip PTFE
08	排污塞 Drain plug	2Cr13	A276-410	1Cr18Ni9Ti 1Cr18Ni 12Mo2Ti	F304/F316 F304L/F316L	24	止推轴承 Thrust bearing	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite
09	阀体 Body	WCB	A216-WCB	ZG1Cr18Ni9Ti 2G1Cr18Ni 12Mo2Ti	CF8/CF8M CF3/CF3M	25	阀杆填料函 Stem stuffing box	25镀铬 Chrome plated	A105镀铬 Chrome plated	1Cr18Ni9Ti 1Cr18Ni 12Mo2Ti	F304/F316 F304L/F316L
10	阀座 Seal	2Cr13 渗氮Nitriding	A276-410 渗氮Nitriding	1Cr18Ni9Ti 1Cr18Ni 12Mo2Ti	F304/F316 F304L/F316L	26	阀杆填料 Stem packing	石墨 Graphite			
11	阀座密封圈 Seat sealing ring	石墨 Graphite	石墨 Graphite	石墨 Graphite	石墨 Graphite	27	填料压盖 Packing gland	WCB	A216-WCB	ZG1Cr18Ni9Ti 2G1Cr18Ni 12Mo2Ti	CF8/CF8M CF3/CF3M
12	阀座支承圈 Seat bearing ring	25镀铬 Chrome plated	A105镀铬 Chrome plated	1Cr18Ni9Ti 1Cr18Ni 12Mo2Ti	F304/F316 F304L/F316L	28	螺母 Nut	45	A194-2H	0Cr18Ni	A194-8M
13	阀座弹簧 Seat spring	X-750	X-750	X-750	X-750	29	双头螺栓 Double end studs	35CrMoA	A193-B7	1Cr17Ni2	A193-B8M
14	球体 Ball	1Cr18Ni9Ti	304	1Cr18Ni9Ti 1Cr18Ni 12Mo2Ti	F304/F316 F304L/F316L	30	螺钉 Screw	35CrMoA	A193-B7	1Cr17Ni2	A193-B8M
15	阀盖 Bonnet	WCB	A216-WCB	ZG1Cr18Ni9Ti 2G1Cr18Ni 12Mo2Ti	CF8/CF8M CF3/CF3M	31	支架 Stents	WCB	WCB	WCB	WCB
16	垫圈 Gasket	金属夹石墨 Metal clip graphite				32	键 Key	40Cr	40Cr	1Cr17Ni2	1Cr17Ni2



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

PN1.6 MPa

DN(mm)	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700
d1	25	32	40	50	65	80	100	125	150	200	250	300	337	387	438	489	591	686
L	165	180	190	216	241	283	305	356	394	457	533	610	686	762	864	914	1067	1245
H	50	55	80	102	114	127	152	184	219	273	360	395	430	470	550	580	700	800
手动 Manual	H1	75	85	95	107	125	152	178	300	330	398	495	580	625	670	698	840	1050
	E	-	-	-	-	-	-	-	-	116	116	171	171	257	257	257	150	83
	F	-	-	-	-	-	-	-	-	350	350	400	420	400	420	400	410	650
	W	160	160	230	230	400	400	650	1050	1050	600	600	800	800	800	800	800	800
	WT(kg)	4.5	5.7	7.0	12	16	22	35	58	74	205	322	460	576	864	1280	1600	4500
电动 Electric	H2	-	-	-	-	-	-	-	554	600	652	760	770	830	-	940	940	1115
	L1	-	-	-	-	-	-	-	235	235	235	259	400	400	-	410	410	410
气动 Pneumatic	H3	215	240	264	274	379	389	479	552	666	736	926	1059	1127	1393	1468	1538	1450
	L2	200	270	270	270	405	405	576	576	776	776	1060	1060	1360	1360	1360	1360	2840

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

PN2.5 MPa

DN(mm)	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700
d1	25	32	40	50	65	80	100	125	150	200	250	300	337	387	438	489	591	686
L	165	180	190	216	241	283	305	381	403	502	568	648	762	838	914	991	1143	1346
H	50	55	80	102	114	127	152	184	219	273	360	395	430	470	550	580	700	800
手动 Manual	H1	75	85	95	107	125	152	178	300	330	398	495	580	625	670	698	840	1050
	E	-	-	-	-	-	-	-	-	116	116	171	171	257	257	257	150	83
	F	-	-	-	-	-	-	-	-	350	350	420	420	400	400	400	410	650
	W	160	160	230	230	400	400	650	1050	1050	600	600	800	800	800	800	800	800
	WT(kg)	4.5	5.7	7.0	15	24	30	55	87	118	255	370	533	640	1030	1524	2100	5300
电动 Electric	H2	-	-	-	-	-	-	-	235	235	400	400	410	410	-	420	690	690
	L1	-	-	-	-	-	-	-	74	350	350	420	420	400	-	400	410	650
气动 Pneumatic	H3	215	240	264	340	379	452	479	646	666	814	1002	1059	1150	1205	1250	1295	1470
	L2	200	270	270	405	405	574	574	756	756	1060	1060	1060	1360	1360	2840	2840	3300

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

PN4.0 MPa

DN(mm)	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700
d1	25	32	40	50	65	80	100	125	150	200	250	300	337	387	438	489	591	686
L	165	180	190	216	241	283	305	381	403	502	568	648	762	838	914	991	1143	1346
H	50	55	80	102	114	127	152	184	219	273	360	395	430	470	550	580	700	800
手动 Manual	H1	75	85	95	107	125	152	178	300	330	398	495	580	625	670	698	840	1100
	E	-	-	-	-	-	-	-	-	116	116	171	171	257	257	257	150	83
	F	-	-	-	-	-	-	-	-	350	350	420	420	400	400	400	410	650
	W	160	160	230	230	400	400	650	1050	1050	600	600	800	800	800	800	800	800
	WT(kg)	9	13	16	19	24	30	55	87	118	255	370	533	640	1030	1524	2100	5300
电动 Electric	H2	-	-	-	-	-	-	-	235	235	400	400	410	410	-	420	690	690
	L1	-	-	-	-	-	-	-	74	350	350	420	420	400	-	400	410	650
气动 Pneumatic	H3	215	240	264	340	379	452	479	646	666	814	1002	1059	1150	1205	1295	1390	1470
	L2	200	270	270	405	405	574	574	756	756	1060	1060	1060	1360	1360	2840	3300	3300

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

PN6.4 MPa

DN(mm)	50	65	80	100	150	200	250	300	350	400	500	600	700
d1	50	65	80	100	150	200	250	300	337	387	489	591	686
L	292	330	356	406	495	597	673	762	826	902	1054	1232	1397
H	114	124	133	159	250	294	395	445	500	530	660	800	900
手动 Manual	H1	108	155	197	235	300	374	445	512	550	615	810	1180
	E	116	116	116	116	116	171	171	257	257	257	150	83
	F	350	350	350	350	350	420	420	400	400	400	410	650
	W	600	600	600	600	600	800	800	800	800	800	800	800
	WT(kg)	23	35	49	91	192	355	640	880	1100	1540	2800	5300
电动 Electric	H2	-	-	-	-	554	574	731	771	867	805	979	1085
	L1	-	-	-	-	235	235	400	400	410	410	420	690
气动 Pneumatic	H3	340	-	-	479	666	895	1002	1059	1160	1250	1320	1470
	L2	405	-	-	576	756	1060	1060	1360	1360	2840	2840	3300

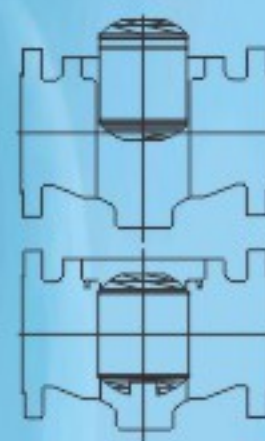
◆ 主要外形连接尺寸 Main Boundary Connection Dimension

PN10.0 MPa

DN(mm)	50	65	80	100	150	200	250	300	350	400	500	600	700
d1	50	65	80	100	150	200	250	300	337	387	489	591	686
L	292	330	356	406	559	660	787	838	889	991	1194	1397	1549
H	114	124	133	159	250	294	395	445	500	530	660	800	900
手动 Manual	H1	108	155	197	235	300	374	445	512	550	615	810	1180
	E	116	116	116	116	116	171	171	257	257	257	150	83
	F	350	350	350	350	350	420	420	400	400	400	410	650
	W	600	600	600	600	600	800	800	800	800	800	800	800
	WT(kg)	35	38	55	102	232	390	710	960	1700	1970	3250	5800
电动 Electric	H2	-	-	-	-	569	658	694	765	825	917	998	1098
	L1	-	-	-	-	235	259	400	410	410	420	690	690
气动 Pneumatic	H3	340	-	-	479	666	895	1002	1059	1160	1250	1320	1470
	L2	405	-	-	576	756	1060	1060	1360	1360	2840	2840	3300

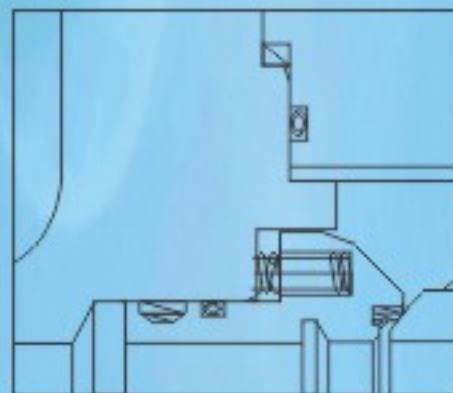
注：大口径、高压球阀按铸钢固定球阀制造。

Notice: Large diameter, high pressure ball valve according to the fixed ball valve cast steel manufacturing.



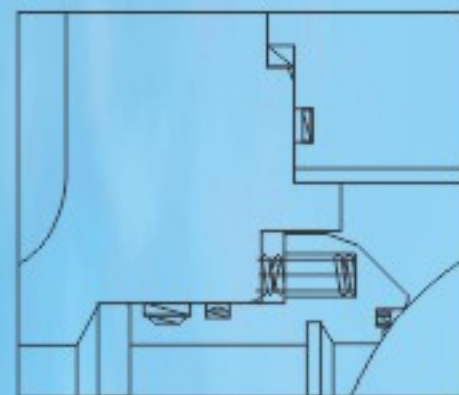
球体从上面直接安装，方便拆卸在管道上可直接维修。

Sphere from installed directly above, convenient disassembly, can be directly in the line maintenance.



* 阀座内滚压，可防止包裹的阀座圈被冲刷

* Roller seat, can be prevented coated seat insert washed



失火时辅助阀座凸台防火

失火时向阀腔内紧急注脂

When the fire auxiliary seat convex platform fire
To the valve cavity when fire emergency greasing

◆ 用途 Use

上装式铸钢固定球阀广泛适用于水、污水、含微小固体颗粒、水蒸汽、煤气、天然气、油品等。

Up-loaded biased half ball valves widely used in water, sewage, containing small solid particles, water vapor, gas, natural gas, oil.

◆ 特点 Characteristics

- 1、压力损失小：全开时水损为零，流通完全畅通，且介质不会沉积在阀体中腔内；
- 2、耐颗粒磨损：V形开口的球冠与金属阀座之间具有剪切作用，在关闭过程中，只在最后一刻球冠才靠向阀座，不形成摩擦，且阀座用耐磨的镍合金制成，不易被冲刷磨损，因而适用于含纤维、微小固体颗粒、浆等；
- 3、适合高流速介质：直通流道，坚固的偏心一曲轴使之适合高流速且无振动；
- 4、寿命长：无易损部件，由于偏心作用，阀门启闭时密封面间无摩擦，则使用寿命长；
- 5、维修方便：阀门维修时不需从管道上拆下，只要打开阀盖即可进行维修。

1. Little pressure loss: water loss is zero at full open, completely smooth flow, which will not be deposited on dielectric body;
2. Bears the particles attrition: V shape opens the mouth between the ball crown and the metal seat the action is shear, in the closure process, only then depends on in last the moment ball crown to the seat, does not form the friction, also the seat makes with the wear-resisting nickel alloy, is noticeably washed out the attrition, thus is suitable to contains the textile fiber, the small solid particle, the thickliquid and so on;
3. Suitable for high-velocity media: Direct flow, solid eccentric crank make it suitable for high speed without vibration;
4. Long life: no vulnerable parts, there is no friction between the sealing surface when the valve opens and close due to the function of the eccentric, therefore there is long life;
5. Easy maintenance: Valve repair without remove from the pipeline, as long as the cover is opened for maintenance.

◆ 执行标准 Execution Standard

设计与制造 Design and manufacture: API 6D、ASME B16.34

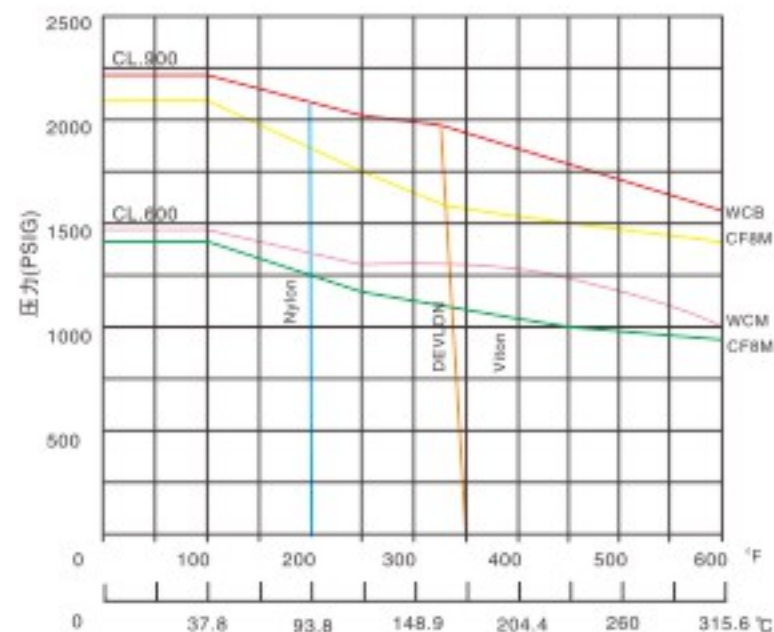
试验与检验 Test & check: API 6D

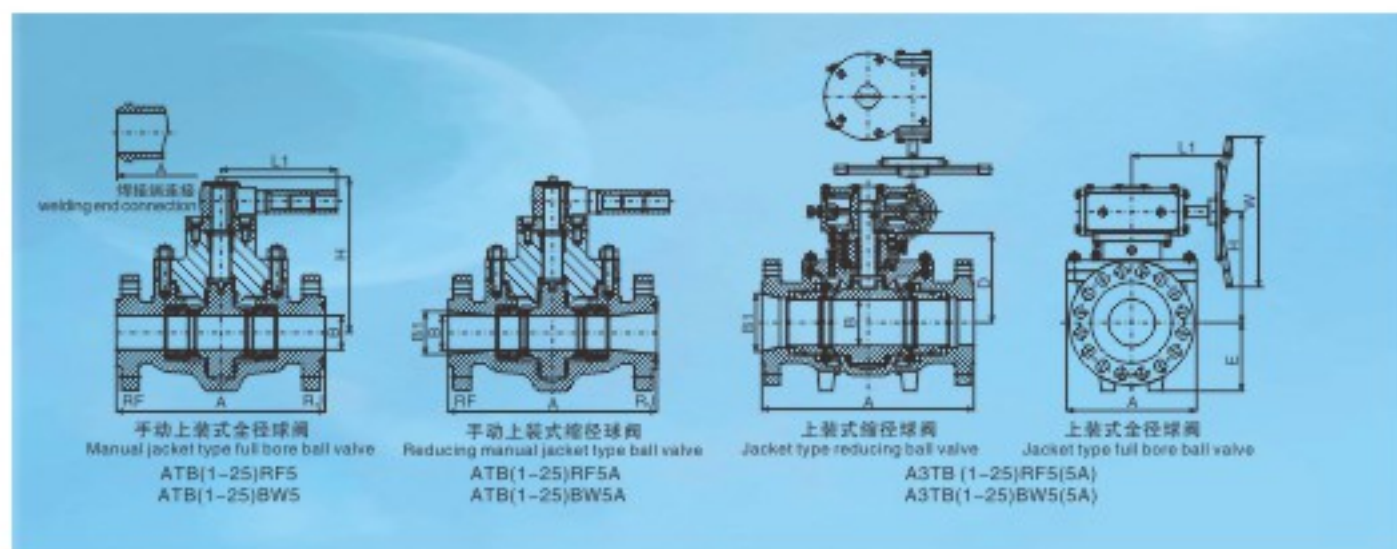
连接法兰 Connecting flange: ASME B16.5; DIN2543-2550;
JB/T79.1~79.4

材料 Material: NACE MR0175

耐火设计 Fireproof design: API 607、API 6FA

◆ 材料压力/温度曲线 Material Pressure, Temperature Curve





◆ 主要外形连接尺寸 Main Boundary Connection Dimension

(Class 150)

DN(mm)	NPS(in)	A			B	B1	D	E	F	H	L1	W	WT (Kg)
		RF	RJ	WE									
50 x 40	2 x 1 1/2	292	295	292	38	51	/	85	180	212	450	/	25
50	2	292	295	292	51	51	/	85	180	212	450	/	28
80 x 50	3 x 2	356	359	356	51	77	/	85	180	212	450	/	37
80	3	356	359	356	77	77	/	112	230	228	600	/	55
100 x 80	4 x 3	432	435	432	77	102	/	112	230	228	600	/	75
100	4	432	435	432	102	102	/	145	283	272	600	/	105
150 x 100	6 x 4	559	562	559	102	152	/	145	283	272	600	/	140
150	6	559	562	559	152	152	281	220	325	333	297	350	235
200 x 150	8 x 6	660	664	660	152	203	281	220	325	333	297	350	265
200	8	660	664	660	203	203	320	260	405	384	360	500	430
250 x 200	10 x 8	787	791	787	203	254	320	260	405	384	360	500	480
250	10	787	791	787	254	254	360	311	490	424	360	500	475
300 x 250	12 x 10	838	841	838	254	305	360	311	490	424	360	500	510
350 x 250	14 x 10	889	892	889	254	337	360	311	490	424	360	500	690
300	12	838	841	838	305	305	403	366	570	467	340	700	610
350 x 300	14 x 12	889	892	889	305	337	403	366	570	467	340	700	820

(Class 300)

50 x 40	2 x 1 1/2	292	295	292	38	51	/	85	180	212	450	/	29
50	2	292	295	292	51	51	/	85	180	212	450	/	33
80 x 50	3 x 2	356	359	356	51	77	/	85	180	212	450	/	43
80	3	356	359	356	77	77	/	112	230	228	600	/	64
100 x 80	4 x 3	432	435	432	77	102	/	112	230	228	600	/	88
100	4	432	435	432	102	102	/	145	283	272	1000	/	123
150 x 100	6 x 4	559	562	559	102	152	/	145	283	272	1000	/	164
150	6	559	562	559	152	152	281	220	325	345	360	500	275
200 x 150	8 x 6	660	664	660	152	203	281	220	325	345	360	500	311
200	8	660	664	660	203	203	330	260	405	385	340	700	505
250 x 200	10 x 8	787	791	787	203	254	330	260	405	385	340	700	563
250	10	787	791	787	254	254	371	311	490	426	340	700	557
300 x 250	12 x 10	838	841	838	254	305	371	311	490	426	340	700	598
350 x 250	14 x 10	889	892	889	254	337	371	311	490	426	340	700	809
300	12	838	841	838	305	305	418	366	570	473	340	700	715
350 x 300	14 x 12	889	892	889	305	337	418	366	570	473	340	700	960

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

(Class 600)

DN(mm)	NPS(in)	A			B	B1	D	E	F	H	L1	W	WT (Kg)
		RF	RTJ	WE									
50 x 40	2 x 1 1/2	292	295	292	38	51	/	85	180	212	450	/	33
50	2	292	295	292	51	51	/	85	180	212	600	/	37
80 x 50	3 x 2	356	359	356	51	77	/	85	180	212	600	/	48
80	3	356	359	356	77	77	/	112	230	228	1000	/	72
100 x 80	4 x 3	432	435	432	77	102	/	112	230	228	1000	/	97
100	4	432	435	432	102	102	/	145	283	250	1000	/	137
150 x 100	6 x 4	559	562	559	102	152	/	145	283	250	1000	/	181
150	6	559	562	559	152	152	281	220	325	336	340	700	302
200 x 150	8 x 6	660	664	660	152	203	281	220	325	336	340	700	340
200	8	660	664	660	203	203	340	260	415	395	340	700	560

(Class 900)

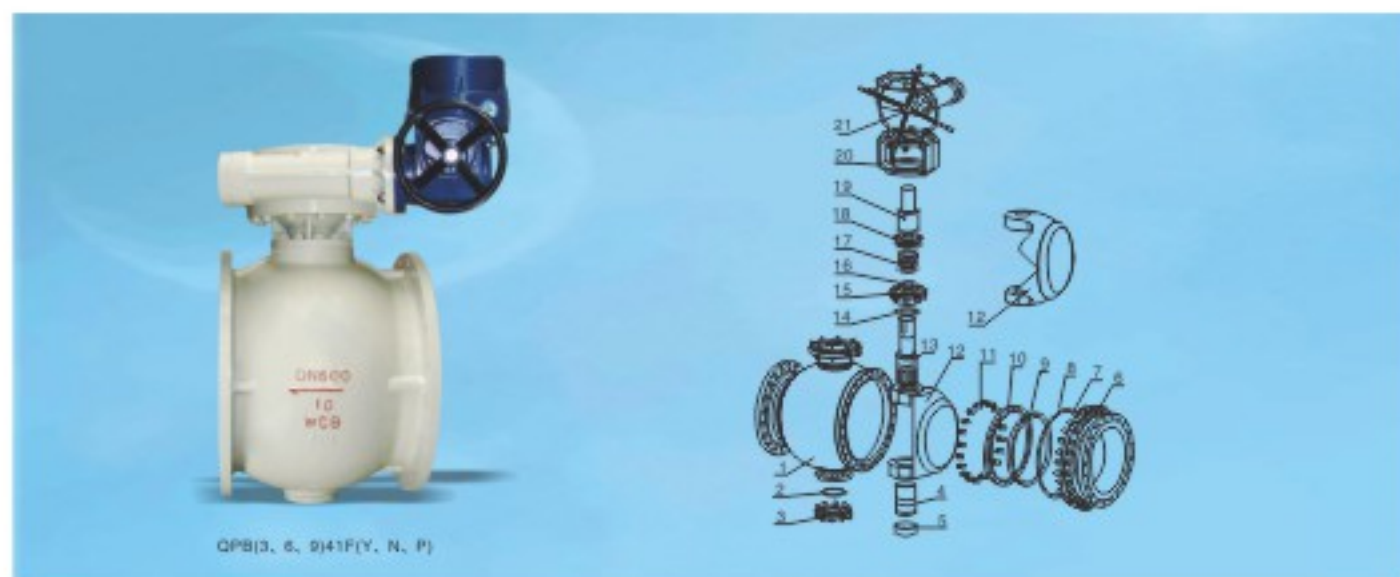
50 x 40	2 x 1 1/2	368	371	368	38	51	/	85	195	215	450	/	49
50	2	368	371	368	51	51	/	85	195	215	600	/	52
80 x 50	3 x 2	381	384	381	51	77	/	85	195	215	600	/	70
80	3	381	384	381	77	77	/	112	240	193	1000	/	108
100 x 80	4 x 3	457	460	457	77	102	/	112	240	193	1000	/	146
100	4	457	460	457	102	102	227	145	295	291	360	500	200
150 x 100	6 x 4	610	613	610	102	152	227	145	295	291	360	500	273
150	6	610	613	610	152	152	258	225	330	313	340	700	456
200 x 150	8 x 6	737	740	737	152	203	258	225	330	313	340	700	573
200	8	737	740	737	203	203	318	260	425	378	545	700	845

(Class 1500)

50 x 40	2 x 1 1/2	368	371	368	38	51	/	85	205	179	450	/	49
50	2	368	371	368	51	51	/	85	205	179	600	/	52
80 x 50	3 x 2	470	473	470	51	77	/	85	205	179	600	/	98
80	3	470	473	470	77	77	/	120	250	201	1000	/	152
100 x 80	4 x 3	546	549	546	77	102	/	120	250	201	1000	/	205
100	4	546	549	546	102	102	240	155	310	295	340	700	280
150 x 100	6 x 4	705	711	705	102	146	240	155	310	295	340	700	382
150	6	705	711	705	146	146	273	240	370	333	545	700	640
200 x 150	8 x 6	832	841	832	146	194	273	240	370	333	545	700	720
200	8	832	841	832	194	194	335	280	455	410	575	700	1180

(Class 2500)

50 x 40	2 x 1 1/2	451	454	451	38	44.5	/	93	250	150	600	/	80
50	2	451	454	451	44.5	44.5	198	105	270	250	297	300	120
80 x 50	3 x 2	578	584	578	44.5	63.5	198	105	270	250	297	300	160
80	3	578	584	578	63.5	63.5	250	127	350	305	340	700	248
100 x 80	4 x 3	673	683	673	63.5	89	250	127	350	305	340	700	300
100	4	673	683	673	89	89	305	156	400	360	340	700	470
150 x 100	6 x 4	914	927	914	89	133	305	156	400	360	340	700	670
150	6	914	927	914	133	133	355	240	480	430	575	700	937
200 x 150	8 x 6	1022	1038	1022	133	181	355	240	480	430	575	700	1150
200	8	1022	1038	1022	181	181	438	280	530	513	575	700	1410



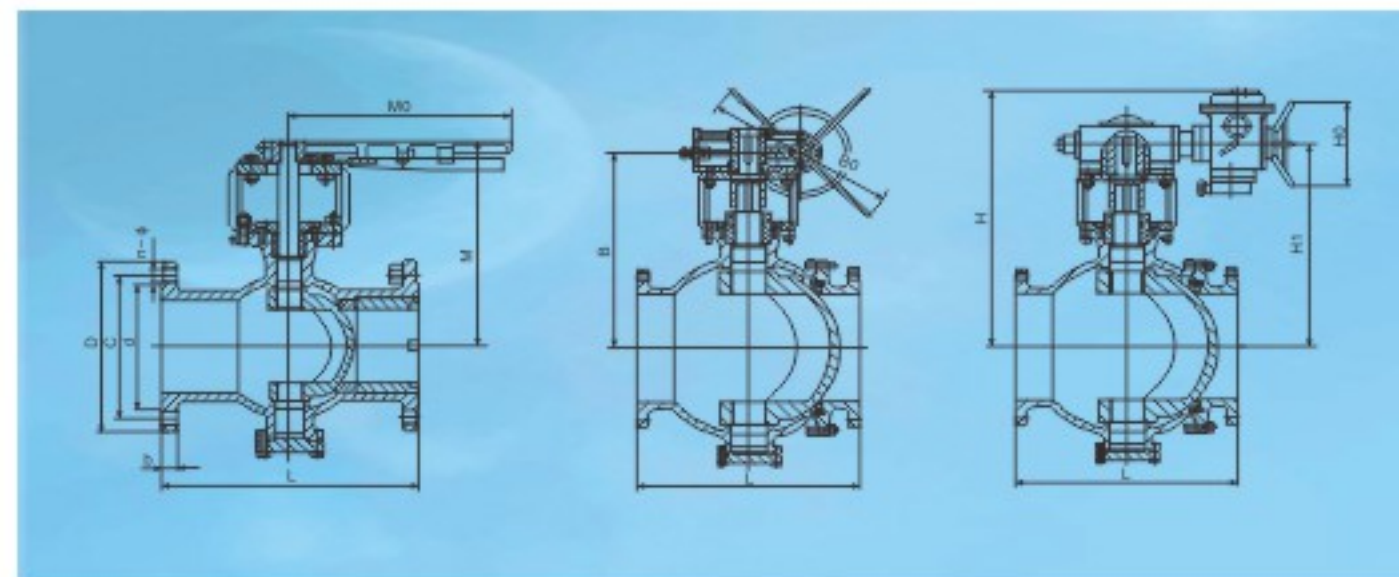
◆ 执行标准 Execution Standard

设计与制造 Design and manufacture	结构长度 Face to face	法兰连接 Flange connecting	试验与检验 Test & check	驱动方式 Drive mode
GB/T12237	GB/T12221	GB/T9115.8~11	GB/T13927	手动、电动、蜗轮蜗杆传动 Manual, electric, worm gear and worm drive

注：系列连接法兰尺寸可根据用户要求设计制造。
Notice: Series connection flange size can be designed and manufactured according to user requirements.

◆ 主要零件材料 Main Parts Material

序号 No.	零件名称 Part name	材质 Material	序号 No.	零件名称 Part name	材质 Material
1	阀体 Body	A216-WCB	12	半球体 Half a sphere	A216-WCB+HCr
2	垫片 Gasket	柔性石墨+不锈钢 Flexible graphite + stainless steel	13	上阀杆 Upper stem	A276-410
3	底盖 Bottom cover	A105	14	垫片 Gasket	PTFE
4	衬套 Bushing	PTFE+不锈钢 Stainless steel	15	阀盖 Bonnet	A105
5	下阀杆 Lower Stem	A276-410	16	填料垫 Packing cushion	A276-410
6	左体 Left body	A216-WCB	17	填料 Packing	柔性石墨 Flexible graphite
7	螺柱 Stud	A193-B7	18	填料压套 Packing gland set	A105
8	垫片 Gasket	预紧螺栓 Preloaded bolt	19	连接套 Connected set	AISI 1045
9	密封圈 Sealing ring	PTFE	20	支架 Stents	A216-WCB
10	压紧圈 Compression ring	ASTM A105	21	驱动机构 Driving mechanism	-
11	螺钉 Screw	A193-B7	-	-	-



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

(PN1.0MPa)

DN (mm)	L	D	C	d	b	n-φ	手动 Manual			蜗轮蜗杆传动 Worm gear and worm drive				电动 Electric				
							M	M0	WT (kg)	B	B0	驱动装置 Drive	WT (kg)	H	H1	H0	驱动装置 Drive	WT (kg)
50	178	165	125	99	20	4-φ18	160	250	17	-	-	-	-	-	-	-	-	-
65	190	185	145	118	20	4-φ18	195	250	18	-	-	-	-	-	-	-	-	-
80	203	200	160	132	20	8-φ18	215	300	22	255	200	O型Type	30	454	359	190	Q60-1	100
100	229	220	180	156	22	8-φ18	250	300	30	290	300	A型Type	40	493	398	190	Q60-1	135
125	254	250	210	184	22	8-φ18	290	350	45	330	300	A型Type	65	574	424	400	Q120-1	192
150	267	285	240	211	24	8-φ22	295	400	53	350	300	A型Type	74	646	496	400	Q120-1	200
200	292	340	295	266	24	8-φ22	-	-	-	390	400	B型Type	100	678	528	400	Q120-1	225
250	394	395	350	319	26	12-φ22	-	-	-	515	400	B型Type	195	652	435	200	SMC-04/ H0BC	360
300	419	445	400	370	26	12-φ22	-	-	-	545	600	C型Type	250	761	480	280	SMC-04/ H0BC	415
350	550	505	460	429	26	16-φ22	-	-	-	590	600	C型Type	369	771	520	280	SMC-04/ H0BC	435
400	600	565	515	480	26	16-φ26	-	-	-	625	600	C型Type	450	831	580	280	SMC-03/ H2BC	542
450	650	615	565	530	28	20-φ26	-	-	-	660	600	D型Type	600	921	670	305	SMC-00/ H3BC	672
500	700	670	620	582	28	20-φ26	-	-	-	695	800	D型Type	730	943	770	305	SMC-00/ H3BC	892
600	800	780	725	682	30	20-φ30	-	-	-	732	800	D型Type	850	1123	850	305	SMC-0/ H4BC	995

◆ 结构特征 Structural Characteristics

系列轨道球阀系本公司引进国外先进技术开发设计的一种新型管线阀门,适用于天然气、油品、化工、冶金等行业中作调节、启闭管线流体之用,其中抗硫系列产品适用于含硫化氢介质、杂质多、腐蚀严重的天然气长输管线。

其主要结构特点为:

- 1、静态单阀座结构,能保证双向密封严密、可靠、达到零泄露。
- 2、顶装式设计,使得系统可进行在线维修。
- 3、阀杆下端的凸轮机构可提供一个机械楔紧力以保证持续的紧密封。
- 4、启闭过程均分两段完成,升降行程短,便于操作。
- 5、启闭操作过程中,密封面之间完全脱离接触,无磨损,操作扭矩,使用寿命长。
- 6、球体旋转过程中与阀座形成的空间,使得通道中介质流速增大,从而达到清洗密封的作用。
- 7、球阀的耐火设计执行API 607、API 6FA&JB/T 6899等标准的规定,一旦发生火灾而使软密封圈烧毁时,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。
- 8、阀门驱动装置有手动、蜗轮蜗杆传动、电动,电动阀门易实现自动控制,易操作,安全可靠。

The series of the track ball valve is a new type of line pipe valve which is developed and designed by foreign advanced technology. It can be applied to natural gas, petroleum product, chemical industry, metallurgy etc for adjusting, opening and closing the line pipe fluid. The series of the anti-sulfur products can be applied to the medium which has much impurity and to the long distance pipeline of the natural gas which is seriously corroded.

Its main structure is:

1. The construction of the single valve seat under the static state can ensure the tightness, credibility and zero leak of the two surface seal.
2. The top equipment type can make the system service in line.
3. The cam framework under the valve stem can supply a tight power of the mechanical wedge to ensure the continuous tight seal.
4. The opening and the closing course are completed in two segments, the rising and falling distance is short which is easy to operate.
5. In the course of the opening and closing operation, the sealed surface separates from touching completely without abrasion. The operating torsion is short and the life-span is long.
6. The vacuum which is formed by the course of sphere spinning accelerates the velocity of flow of the medium in the channel and this course can achieve the clean out of the sealed surface.
7. The fire-resistant design of the ball valve enforces the standard of API 607, API 6FA and JB/T 6899. When the soft seal burns, the fireproofing construction of the ball valve can prevent the medium from much leaking, and the extension of the fire in case of fire.
8. The driving equipment of the valve can be divided into wrench operation, worm gear and worm drive, electric operation. The electric valve is easy to be auto-controlled and to be operated, with its safety and credibility.

◆ 性能规范 Performance Specification

压力等级 Pressure grade		1.6~42.0MPa	Class 150~2500
试验压力(MPa) Test pressure	强度试验 Shell test	$1.5 \times PN$	
	密封试验 Sealing test	$1.1 \times PN$	
工作温度 Working temperature		$-196^{\circ}\text{C} \sim +180^{\circ}\text{C}$	
工作介质 Working medium		水、油品、天然气、腐蚀性介质等 Water, oil, natural gas, corrosive medium, etc.	

注: PN为主体材料在38℃时允许的额定工作压力。

Notice: PN is requested pressure for the body material under the 38℃.

◆ 启闭原理分析 On and Off Principle Analysis

(1) 开启过程

- I) 在关闭位置, 球体受阀杆的机械施压作用, 紧压在阀座上, 如图a)所示。
- II) 当逆时针转动手轮时, 阀杆则反向运动, 其底部角形平面使球体脱离阀座, 如图b)所示。
- III) 阀杆继续提升, 并与阀杆螺旋槽内的导销相互作用, 使球体开始无摩擦地旋转, 如图c)所示。
- IV) 直至到全开位置, 阀杆提升到极限位置, 球体旋转到全开位置, 如图d)所示。

(1) The course of opening

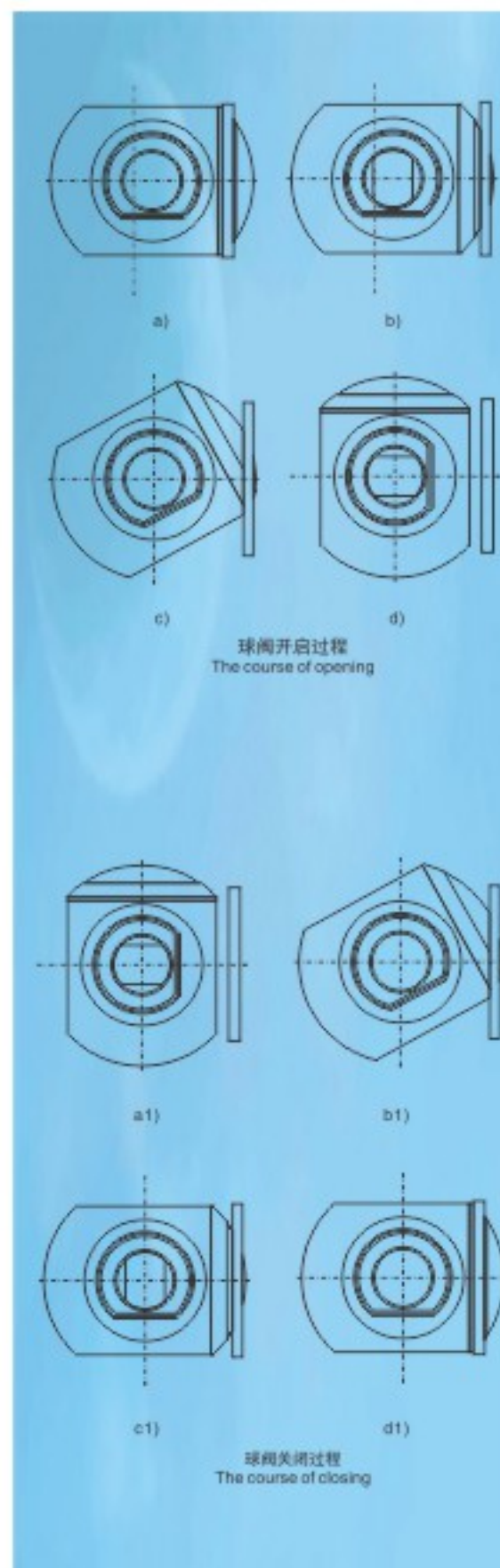
- I) In the location of the closing, the sphere closely presses on the valve seat by the mechanical pressure of the valve stem. See picture a).
- II) When the hand wheel is anti-clockwise, the valve stem will counter move, then the surface of the angle at the bottom will make the sphere disconnect the valve seat. See picture b).
- III) The valve stem continues rising and interacts with the guide pin in the spin slot of the valve stem. The course makes the sphere begin rotating without rub. See picture c).
- IV) Until to the full opening, the valve stem will ascend to the limited location and the sphere will switch to the full opening. See picture d).

(2) 关闭过程

- I) 关闭时, 顺时针旋转手轮, 阀杆开始下降并使球体离开阀座开始旋转, 如图a1)所示。
- II) 继续转动手轮, 阀杆受到嵌于其上螺旋槽内的导销的作用, 使阀杆和球体同时旋转90°, 如图b1)所示。
- III) 快要关闭时, 球体已在与阀座无接触的情况下旋转了90°, 如图c1)所示。
- IV) 于轮转动的最后几圈, 阀杆底部的角形平面机械地楔向压迫球体, 使其紧密地压在阀座上, 达到完全密封, 如图d1)所示。

(2) The course of closing

- I) The hand wheel is clockwise when closing, then the valve stem will fall and it will make the sphere separate from the valve seat and begin to rotate. See picture a1).
- II) Continue to turn the hand wheel, the valve stem is affected by the guide finger in the spin slot which is embedded over it, and it can make the valve stem and the sphere spin 90° at the same time. See picture b1).
- III) When approaching closing, the sphere has switched 90° without touching the valve seat. See picture c1).
- IV) The last circles of the hand wheel, the surface of the angle at the bottom of the valve stem automatically wedges to the forced sphere and presses it closely on the full seal. See picture d1).



◆ 执行标准 Execution standard

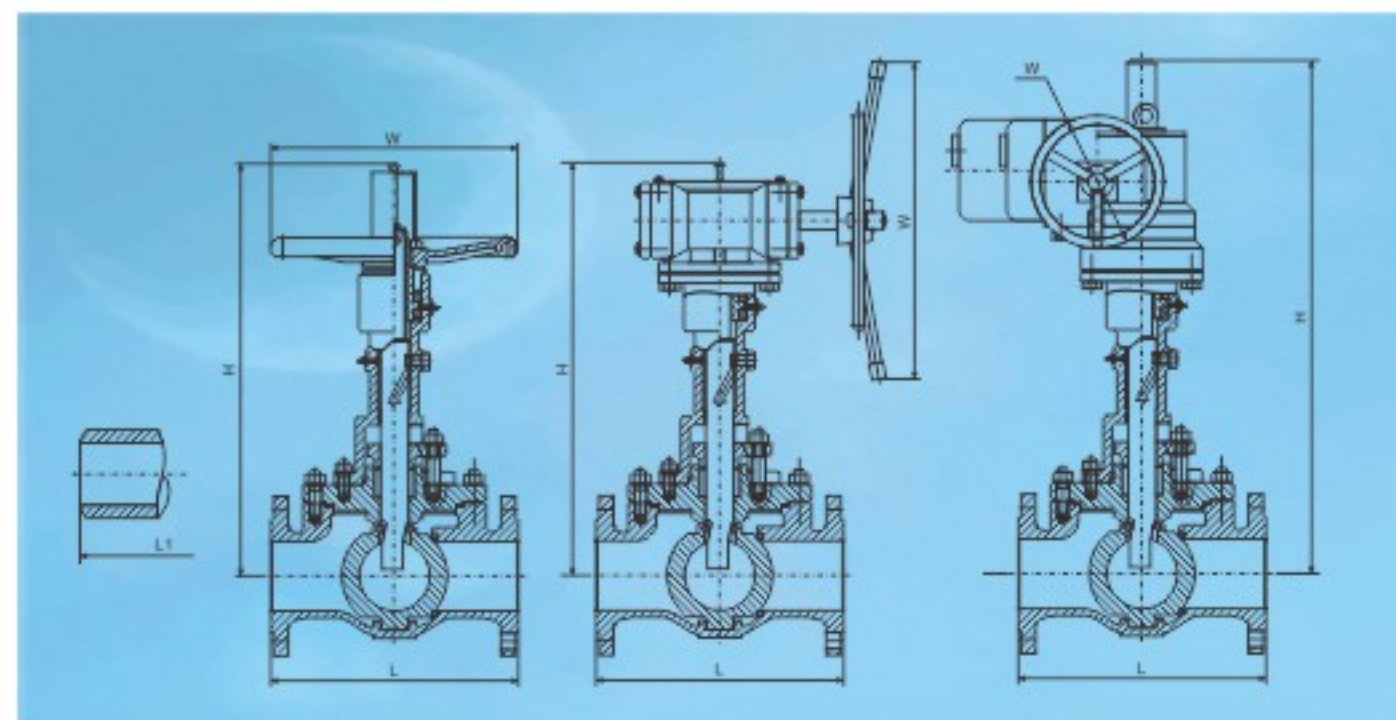
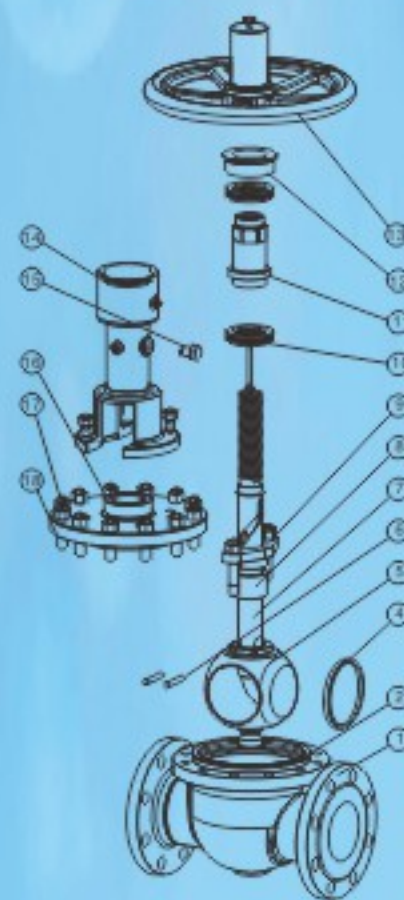
设计依据 Design Standard	GB	ASME
结构长度 Face to Face	JB/T 7745、GB/T 12221	ASME B16.10
连接法兰 Flanged Size	GB/T 9113、JB/T 79	ASME B16.5、MSS SP44
对焊端 Butt welding End	GB/T 12224	ASME B16.25
试验与检验 Test & Inspection	JB/T 9092	API 598

◆ 主要零件材料 Main Parts Material

序号 No.	零件名称 Part name	材料 Materials		
		碳钢 Carbon Steel	不锈钢 Stainless steel	低温钢 Low temperature steel
1	阀体 Body	A216 WC	A351 CF8M	A352 LCB
2	垫片 Gasket	柔性石墨+不锈钢 Flexible graphite+SS		
3	密封圈 Sealing ring	柔性石墨+不锈钢 Flexible graphite+SS		
4	球体 Ball	A105+ENP	A182 F316	A350 LF3
5	销 Pin	A182 F6a		
6	阀杆 Stem	A182 F6a	A182 F316	A182 F316
7	填料 Packing	柔性石墨 Flexible graphite		
8	填料压盖 Packing Gland	A182 F6a	A182 F316	A350 LF3
9	轴承 Bearing	组合件 Assembled		
10	阀杆螺母 Stem Nut	A439 D2		
11	压盖 Cover	A182 F6a	A182 F316	A350 LF3
12	手轮 Hand wheel	QT400-17		
13	支架 Yoke	A216 WCB		
14	定位销 Fitting pin	A193 B7		
15	阀盖 Bonnet	A216 WCB	A351 CF8M	A352 LCB
16	螺母 Nut	A194 2H	A194 8	A194 4
17	螺栓 Bolt	A193 B7	A193 B8	A320 L7



GQ(3, 6, 9)41(Y, H, F)



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

(PN1.6/2.5 MPa; Class 150)

DN (mm)	NPS (in)	Class 150		PN1.6、2.5		手动 Manual			蜗轮蜗杆传动 Driving of Worm Gear				电动 Electric Driving					
		L	L1	L	L1	H	W	WT (kg)	H	W	蜗轮蜗杆装置 Device of Worm Gear	WT (kg)	H	W	电动装置 Electric Driving Device			
															Class150 PN1.6	PN2.5	WT(kg)	
15	1/2	108	-	130	140	310	180	16	-	-	-	-	210	200	SMC-04	SMC-04	46	
20	3/4	117	-	150	152	325	180	8	-	-	-	-	225	200	SMC-04	SMC-04	48	
25	1	127	-	160	165	345	200	12	420	200	O型(Type)	25	230	200	SMC-04	SMC-04	52	
32	1 1/4	140	-	180	178	360	200	16	440	200	O型(Type)	29	290	500	SMC-03	SMC-03	58	
40	1 1/2	165	190	200	190	380	200	19	455	200	O型(Type)	41	300	500	SMC-03	SMC-03	67	
50	2	178	216	230	216	385	200	28	465	200	O型(Type)	56	570	460	ZA2-5	ZA2-5	70	
65	2 1/2	190	241	290	241	393	300	43	480	200	O型(Type)	69	625	460	ZA2-5	ZA2-5	87	
80	3	203	283	310	283	402	300	58	500	300	A型(Type)	85	760	460	ZA2-20	ZA2-20	102	
100	4	229	305	350	305	510	300	75	510	300	A型(Type)	130	780	460	ZA2-20	ZA2-20	119	
150	6	394	457	480	457	690	400	133	680	300	A型(Type)	207	850	460	ZA2-20	ZA2-30	200	
200	8	457	521	600	521	785	500	225	820	400	B型(Type)	310	840	460	ZA2-30	ZA25-40	290	
250	10	533	559	730	559	995	600	345	910	400	B型(Type)	496	960	460	ZA2-30	ZA2-30	410	
300	12	610	635	850	635	1183	600	440	1090	400	B型(Type)	560	990	460	ZA3-60	ZA3-60	545	
350	14	686	762	980	762	1254	650	775	1330	600	C型(Type)	895	1165	460	ZA3-60	ZA3-90	880	
400	16	762	838	1100	838	1565	650	833	1380	600	C型(Type)	980	1385	460	ZA3-90	ZA3-120	973	
450	18	864	914	1200	914	1637	700	1110	1450	800	D型(Type)	1280	1415	460	ZA4-120	ZA3-160	1250	
500	20	914	991	1250	991	1705	700	1240	1840	800	D型(Type)	1400	1490	460	ZA4-240	ZA4-240	1380	
600	24	1067	1143	1450	1143	1883	800	1673	1870	800	DA型(Type)	1820	1620	458	SMC-2	SMC-2	1851	
700	28	1346	1346	1346	1346	2108	800	2600	2130	800	DA型(Type)	2950	1720	458	SMC-2	SMC-3	2800	
800	32	1524	1524	1524	1524	-	-	2820	-	-	-	-	1825/1885	610	SMC-3	SMC-3	2930	
900	36	1727	1727	1727	1727	-	-	2950	-	-	-	-	2250/2300	610	SMC-3	SMC-4	3150	

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

(PN4.0MPa;Class 300)

DN (mm)	NPS (in)	Class 300	PN4.0MPa		手动 Manual			蜗轮蜗杆传动 Driving of Worm Gear				电动 Electric Driving			
		L/L1	L	L1	H	W	WT (kg)	H	W	蜗轮蜗杆装置 Device of Worm Gear	WT (kg)	H	W	电动装置 Electric Driving Device	WT (kg)
15	1/2	140	130	140	310	180	7	-	-	-	-	215	200	SMC-04	47
20	3/4	152	150	152	325	180	9	-	-	-	-	235	200	SMC-04	49
25	1	165	160	165	345	200	13	420	200	O型(Type)	225	250	500	SMC-03	53
32	1 1/4	178	180	178	360	200	18	440	200	O型(Type)	32	300	305	SMC-00	60
40	1 1/2	190	200	190	380	200	28	455	200	O型(Type)	40	305	305	SMC-00	70
50	2	216	230	216	385	200	30	465	200	O型(Type)	55	585	460	ZA2-10	72
65	2 1/2	241	290	241	393	300	45	480	300	A型(Type)	70	650	460	ZA2-10	89
80	3	283	310	283	402	300	66	500	300	A型(Type)	85	775	460	ZA2-20	110
100	4	305	350	305	510	300	78	510	300	A型(Type)	105	795	460	ZA2-20	122
150	6	403/457	480	457	690	400	152	680	400	B型(Type)	185	895	460	ZA25-40	217
200	8	502/521	600	521	785	500	230	820	400	B型(Type)	280	900	460	ZA3-30	295
250	10	568/559	730	559	995	600	375	910	400	B型(Type)	410	973	460	ZA25-40	440
300	12	648/635	850	635	1183	600	448	1090	600	C型(Type)	480	1135	460	ZA3-90	551
350	14	762	980	762	1254	650	795	1370	600	C型(Type)	850	1302	460	ZA3-120	900
400	16	838	1100	838	1565	650	950	1430	600	C型(Type)	1020	1514	460	ZA4-160	1090
450	18	914	1200	914	1637	700	1130	1450	800	D型(Type)	1210	1534	460	ZA4-240	1270
500	20	991	1250	991	1705	700	1270	1840	800	D型(Type)	1350	1625	458	SMC-2	1410
600	24	1143	1450	1143	1883	800	1713	1870	800	DA型(Type)	1780	1686	458	SMC-2	1881
700	28	1346	1346	1346	2108	800	2650	2130	800	DA型(Type)	2550	1780	610	SMC-3	2830
800	32	1524	1524	1524	-	-	2720	-	-	-	-	1940	610	SMC-4	2950
900	36	1727	1727	1727	-	-	2850	-	-	-	-	2320	610	SMC-4	3100

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

(PN6.4MPa;Class 400)

DN (mm)	NPS (in)	Class 150		手动 Manual			蜗轮蜗杆传动 Driving of Worm Gear				电动 Electric Driving			
		L	L1	H	W	WT (kg)	H	W	蜗轮蜗杆装置 Device of Worm Gear	WT (kg)	H	W	电动装置 Electric Driving Device	WT (kg)
15	1/2	165	165	320	200	8	390	200	O型(Type)	25	215	500	SMC-03	48
20	3/4	190	190	340	200	11	415	200	O型(Type)	30	240	500	SMC-03	51
25	1	216	216	360	200	16	435	200	O型(Type)	45	250	500	SMC-03	56
32	1 1/4	229	229	370	250	21	455	200	O型(Type)	50	300	305	SMC-00	61
40	1 1/2	241	241	395	300	33	465	200	O型(Type)	62	305	305	SMC-00	73
50	2	292	292	430	300	36	501	200	A型(Type)	68	585	460	ZA2-10	78
65	2 1/2	330	330	465	400	54	535	300	A型(Type)	85	650	460	ZA2-20	96
80	3	356	356	515	500	79	575	300	A型(Type)	98	775	460	ZA2-20	123
100	4	406	406	572	600	80	625	400	B型(Type)	112	800	460	ZA2-30	124
150	6	495	495	773	600	174	790	400	B型(Type)	215	895	460	ZA25-40	239
200	8	597	597	967	650	222	900	400	B型(Type)	360	900	460	ZA25-40	387
250	10	673	673	1225	650	323	1090	600	C型(Type)	425	970	460	ZA3-60	525
300	12	762	762	1350	700	435	1350	600	C型(Type)	580	1135	460	ZA3-120	675
350	14	826	826	1490	700	954	1490	600	C型(Type)	975	1305	460	ZA3-120	1094
400	16	902	902	1590	750	1140	1640	800	D型(Type)	1280	1515	460	ZA4-240	1316
450	18	978	978	1720	750	1355	1740	800	D型(Type)	1420	1585	460	ZA4-240	1534
500	20	1054	1054	1805	800	1524	1930	800	DA型(Type)	1690	1625	610	SMC-3	1740
600	24	1232	1232	1945	800	2055	2005	800	DA型(Type)	2150	1710	610	SMC-3	2225
700	28	1397	1397	2180	800	2740	2180	800	DB型(Type)	2880	1815	610	SMC-3	2950
800	32	1651	1651	-	-	2880	-	-	-	-	1975	610	SMC-4	3120
900	36	1880	1880	-	-	3100	-	-	-	-	2370	610	SMC-4	3350

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

(PN10.0MPa;Class 600)

DN (mm)	NPS (in)	Class 150		手动 Manual			蜗轮蜗杆传动 Driving of Worm Gear				电动 Electric Driving			
		L	L1	H	W	WT (kg)	H	W	蜗轮蜗杆装置 Device of Worm Gear	WT (kg)	H	W	电动装置 Electric Driving Device	WT (kg)
15	1/2	165	165	320	200	10	390	200	O型(Type)	25	230	500	SMC-03	50
20	3/4	190	190	340	200	13	415	200	O型(Type)	35	250	500	SMC-03	53
25	1	216	216	360	200	26	435	200	O型(Type)	48	300	305	SMC-00	66
32	1 1/4	229	229	370	250	28	455	200	O型(Type)	59	305	305	SMC-0	70
40	1 1/2	241	241	395	300	52	465	200	O型(Type)	76	585	305	SMC-0	94
50	2	292	292	430	300	60	501	300	A型(Type)	85	650	460	ZA2-20	104
65	2 1/2	330	330	465	400	86	535	300	A型(Type)	115	725	460	ZA2-20	130
80	3	356	356	515	500	103	575	300	A型(Type)	127	800	460	ZA2-30	147
100	4	432	432	572	600	110	625	400	B型(Type)	148	835	460	ZA2-30	175
150	6	559	559	773	600	287	790	400	B型(Type)	325	895	460	ZA3-60	392
200	8	660	660	967	650	520	900	400	B型(Type)	602	900	460	ZA2-60	625
250	10	787	787	1225	650	770	1090	600	C型(Type)	890	970	460	ZA3-90	910
300	12	838	838	1350	700	910	1350	600	C型(Type)	980	1135	460	ZA4-160	1090
350	14	889	889	1490	700	1045	1490	600	C型(Type)	1180	1305	460	ZA4-160	1225
400	16	991	991	1590	750	1880	1640	800	D型(Type)	1980	1515	460	ZA4-240	2060
450	18	1092	1092	1720	750	2050	1740	800	D型(Type)	2090	1585	458	SMC-2	2150
500	20	1194	1194	1805	800	2230	1930	800	DA型(Type)	2320	1625	610	SMC-3	2420
600	24	1397	1397	1945	800	2560	2005	800	DA型(Type)	2680	1710	610	SMC-3	2710
700	28	1549	1549	2180	800	2910	2180	800	DB型(Type)	3150	1815	610	SMC-4	3120
800	32	1778	1778	-	-	3050	-	-	-	-	1975	610	SMC-4	3300
900	36	2083	2083	-	-	3300	-	-	-	-	2370	610	SMC-4	3480

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

(PN15.0MPa;Class 900)

DN (mm)	NPS (in)	Class 150		手动 Manual			蜗轮蜗杆传动 Driving of Worm Gear				电动 Electric Driving			
		L	L1	H	W	WT (kg)	H	W	蜗轮蜗杆装置 Device of Worm Gear	WT (kg)	H	W	电动装置 Electric Driving Device	WT (kg)
25	1	254	254	387	250	13	435	200	O型(Type)	45	300	305	SMC-00	66
32	1 1/4	279	279	400	250	26	490	200	O型(Type)	68	305	305	SMC-0	80
40	1 1/2	305	305	457	250	63	505	200	O型(Type)	95	585	305	SMC-0	103
50	2	368	368	480	300	74	560	300	A型(Type)	102	650	460	ZA2-20	116
65	2 1/2	419	419	500	300	108	590	300	A型(Type)	127	775	460	ZA2-20	152
80	3	381	381	560	360	129	610	300	A型(Type)	146	800	460	ZA2-30	173
100	4	457	457	575	400	138	690	400	B型(Type)	182	835	460	ZA2-30	200
150	6	610	610	780	450	372	705	400	B型(Type)	415	895	460	ZA3-60	478
200	8	737	737	980	500	650	930	600	C型(Type)	720	900	460	ZA2-60	790
250	10	838	838	1170	550	960	1130	600	C型(Type)	1020	920	460	ZA3-90	1143
300	12	965	965	1330	550	1021	1330	800	D型(Type)	1120	1135	460	ZA4-160	1200
350	14	1029	1029	1520	600	1250	1480	800	D型(Type)	1370	1305	460	ZA4-160	1430
400	16	1130	1130	1730	650	1430	1710	800	DA型(Type)	1510	1585	460	ZA4-240	1610
450	18	1219	1219	1840	700	1625	1920	800	DA型(Type)	1720	1625	456	SMC-2	1790
500	20	1321	1321	1920	800	1750	2080	800	DB型(Type)	1890	1710	610	SMC-3	1940

◆ 用途 Use

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,气化是体积膨胀数百倍。

Cryogenic ball valve is mainly used in the ethylene device, such as liquefied natural gas chemical industry, the output of the cryogenic liquid medium such as ethylene, liquid oxygen and liquid hydrogen. This kind of media not only flammable and explosive, and when temperature gasification, gasification and volume expansion is hundreds of times.

◆ 特点 Characteristics

- 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-192℃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,同时还可以缠绕保温材料,防止冷能损失。长颈的颈长可根据使用温度和保温材料的厚度来选择不同的长度。当填料密封效果降低时,可以从填料函中间加入润滑油形成油封层,降低填料函的压差,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,阀门中腔和进口连通,或在阀门进口端安置泄压阀,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。

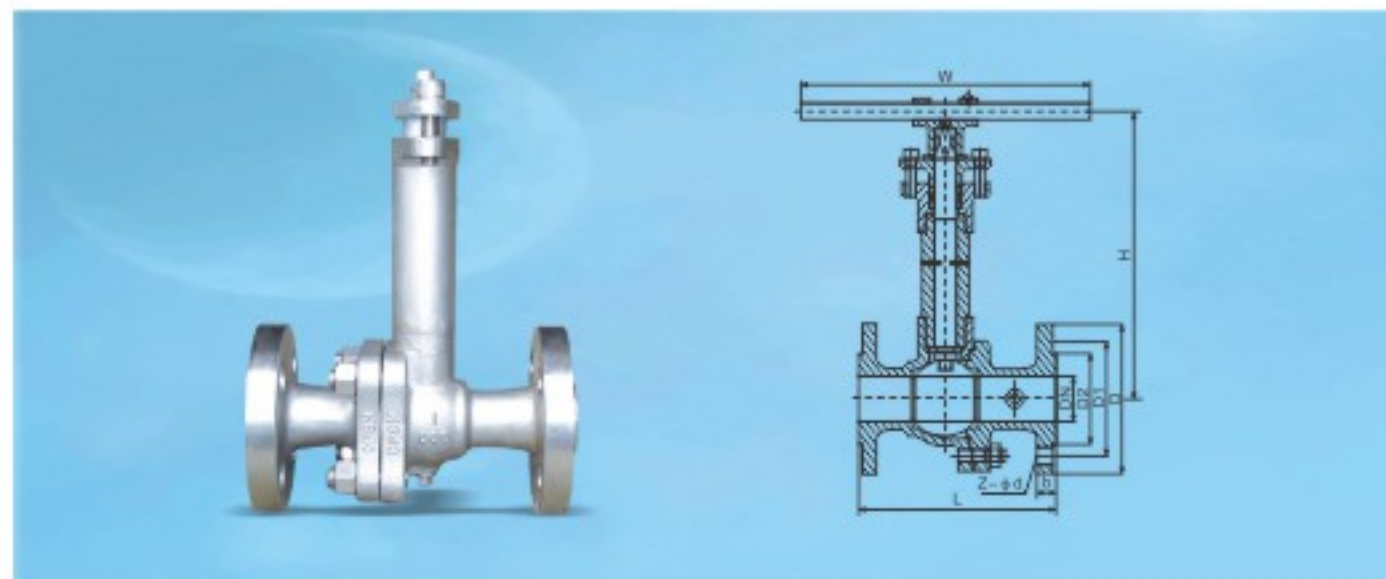
1. The pressure on a material can withstand the medium temperature change caused by the expansion and contraction, the structure of the sealing parts, when the temperature changes will not produce permanent deformation. Used for - below 100℃ conditions, the valve parts should be carried out before finishing the cryogenic treatment, the parts are immersed in liquid nitrogen tank for cooling, when parts -192℃ temperature is reached, began to heat preservation 1-2 h, then take out box outside natural treatment to room temperature, review cycle 2 times;
2. Bonnet adopts grow strong structure, its purpose to protect the function of the stuffing box, the packing box in a far away place at low temperature, to ensure that the packing sealing effect, at the same time can also be wrapped cold insulation materials, can prevent cold damage. Long neck long neck can be used according to the temperature and the thickness of the insulating materials to choose different length. When packing seal effect to reduce, can from the stuffing box to join in the middle grease oil seal layer formation, reduce the pressure difference of stuffing box, improve the sealing performance;
3. Using the temperature lower than 100 °C, the valve stem material after chrome plating or nitriding process, to improve the surface hardness of the valve stem, improve the reliability of packing seal;
4. The structure of the cryogenic ball valve is to prevent abnormal pressure, because of the cryogenic valves after gasification medium, the swelling volume, abnormal pressure will rise, when the valve lumen pressure rises, the valve cavity and import connected, or placed on the valve inlet end relief valves, ensure safe use of the valve;
5. Cryogenic ball valve with gasket at room temperature and low temperature condition and reliable sealing and resilience under temperature changes.

◆ 执行标准 Enforce Standards

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
	GB/T12237	GB/T12221	GB/T9113	JB/T9092 GB/T13927	GB/T12224

◆ 主要零件材料 Main Part Materials

零件名称 Part name	材质 Material	
阀体 Body	LCB	CF8
球体 Ball	304	304
阀杆 Stem	304	304
密封圈 Sealing ring	PTFE	PTFE
填料 Packing	PTFE+O形圈 Ring	PTFE+O形圈 Ring
适用介质 Applicable medium	水、油、蒸汽等 Water, oil, steam, etc	酸等腐蚀性介质 Acid and other corrosive medium
适用温度 Applicable temperature	-50-29℃	-196-29℃



◆ 主要外形连接尺寸 Main Boundary Connection Dimension

(PN1.6 MPa)

产品型号 Product model	DN(mm)	L	D	D ₁	D ₂	b	Z-φd	H	W	WT (kg)
DQ41F-16C DQ41F-16P DQ641F-16C DQ641F-16P DQ9B41F-16C DQ9B41F-16P	15	130	95	65	45	14	4-φ14	178	140	3
	20	140	105	75	55	14	4-φ14	184	160	4
	25	150	115	85	65	14	4-φ14	195	180	5
	32	165	135	100	78	16	4-φ18	280	250	9
	40	180	145	110	85	16	4-φ18	280	300	11
	50	203	160	125	100	16	4-φ18	300	350	15
	65	222	180	145	120	18	4-φ18	330	350	19
	80	241	195	160	135	20	8-φ18	360	400	27
	100	305	215	180	155	20	8-φ18	400	500	38
	125	356	245	210	185	22	8-φ18	430	600	58
	150	394	280	240	210	24	8-φ23	500	800	81
	200	457	335	295	265	26	12-φ23	680	800	95
	250	533	405	355	320	30	12-φ25	790	1300	140

◆ 主要外形连接尺寸 Main Boundary Connection Dimension

(PN2.5 MPa)

产品型号 Product model	DN(mm)	L	D	D ₁	D ₂	b	Z-φd	H	W	WT (kg)
DQ41F-25 DQ41F-25P DQ641F-25 DQ641F-25P DQ9B41F-25 DQ9B41F-25P	15	140	95	65	45	16	4-φ14	178	140	3
	20	152	105	75	55	16	4-φ14	184	160	4
	25	165	115	85	65	16	4-φ14	195	180	6
	32	178	135	100	78	18	4-φ18	280	250	10
	40	190	145	110	85	18	4-φ18	280	300	14
	50	216	160	125	100	20	4-φ18	300	350	20
	65	241	180	145	120	22	8-φ18	330	350	25
	80	283	195	160	135	22	8-φ18	360	400	30
	100	305	230	190	160	24	8-φ23	400	500	40
	125	381	270	220	188	28	8-φ25	430	600	65
	150	403	300	250	218	30	8-φ25	500	800	85
	200	502	360	310	278	34	12-φ25	680	800	100
	250	568	425	370	332	36	12-φ30	790	1300	165

铸钢蝶阀系列 CAST STEEL BUTTERFLY VALVE SERIES



蝶阀产品结构
Butterfly Valve Product Structure

理想阀门 



◆ 主要零部件 Main Part

序号No.	名称	Part Name	序号No.	名称	Part Name
1	阀体	Body	9	密封圈	Seal Ring
2	端盖	End Cover	10	螺栓、螺母	Bolt, Nut
3	蝶板	Disc	11	上轴套	Bushing
4	上阀杆	Upper Stem	12	下轴套	Bushing
5	下阀杆	Lower Stem	13	压板圈	Retainer Flange
6	填料	Packing	14	手轮	Handwheel
7	填料压套	Packing Bushing	15	齿轮部件	Gear Actuator
8	垫片	Gasket	16	圆柱销	Pin

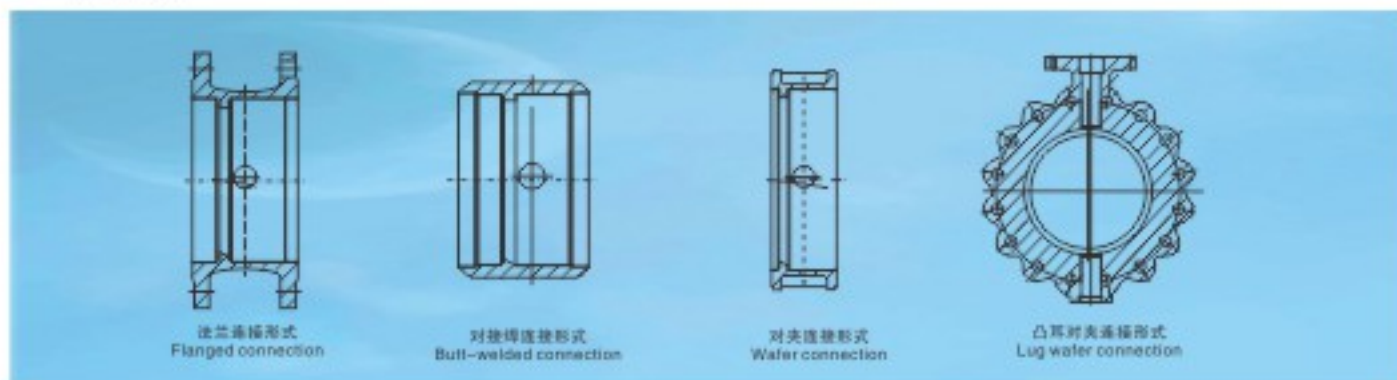
◆ 蝶阀结构特征 Butterfly Valve Design Features

系列蝶阀适用于食品、饮料、化工、工业环境水处理、高层建筑、给排水等管路作启闭(密封型)或调节介质流量之用。主要结构特点有:

- 1、结构简单、体积小、重量轻、安装尺寸小。根据阀体连接形式可分为对夹式(包括凸耳对夹式)、法兰连接和对焊连接三种基本连接型式。

Butterfly valves are used to open and close (seal type) or adjust the medium flow in pipes in the fields of foodstuff, drinks, chemical, industrial water treatment, high-rise constructions, water supply and drainage etc. They are mainly structured as following:

1. Simple structure, small sizes, light weight and low installation dimensions. According to the types of body connection, they are basically classified to wafer type (including lug wafer type), flanged and welded.



- 2、密封材料有软、硬两种(放置在阀体或蝶板上), 可用于各种不同的工况, 且密封性能好, 使用寿命长。

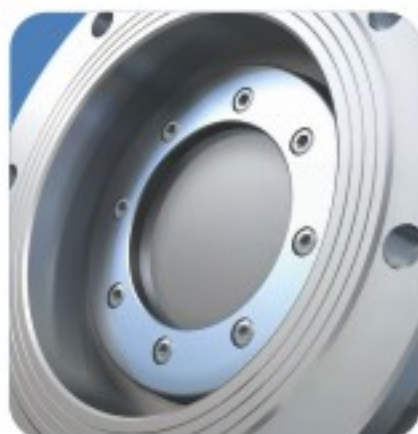
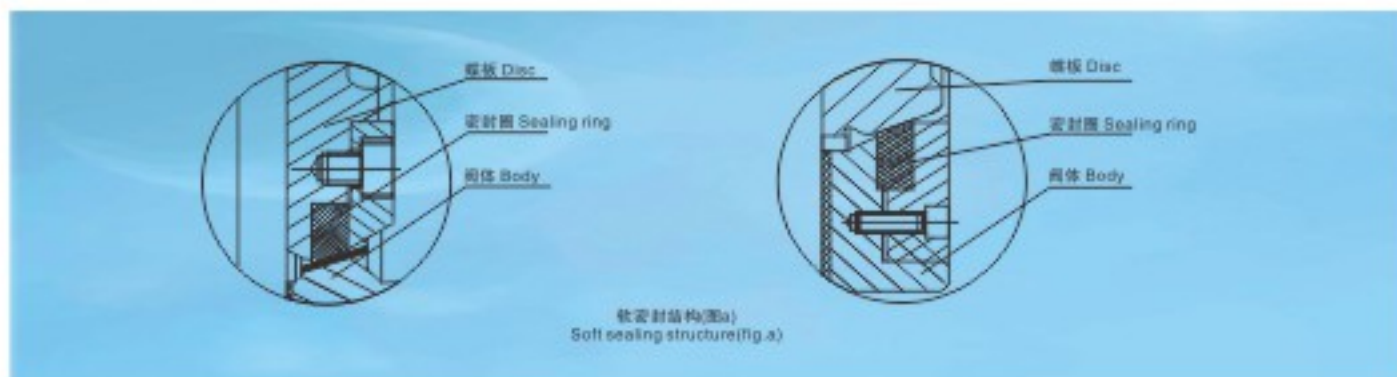
- 1) 软密封结构(见图a), 适用于单偏心结构和双偏心结构的蝶阀, 压力等级≤Class 600。(中旋密封结构适用压力等级≤Class 250) 密封圈(材料为PTFE)放置在阀体上具有以下特点:

- A) 不需要使用附加的密封圈或金属支撑圈即可可靠密封。
- B) 可保持双向的无泄漏的密封。
- C) 维修量少, 寿命长。

2. Sealing materials may be soft or hard, placed on body or disc, to meet different working conditions, and to effect good seal and long life.

- 1) Soft sealing structure (see fig. a), is applicable for single and double eccentric butterfly valves, pressure rating Class 600. Centered sealing structure is applicable for pressure rating ≤ Class 250. Sealing ring (PTFE) is placed on the valve body to feature the following:

- A) To effect dependable seal with no need of accessorial sealing ring or metal bracing ring.
- B) Bidirectional leakproof seal.
- C) Little maintenance and long service life.



三偏心多层次金属硬密封蝶阀

Triple Eccentric Multi-layer Metal Hard Seal Butterfly Valve

◆ 产品概述 Product Overview

三偏心多层次金属硬密封蝶阀系列产品, 系长寿命、节能型蝶阀。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, 工艺先进, 加工精湛。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。

Triple eccentric metal hard seal butterfly valve series multi-level products, long life, energy-efficient and butterfly valve. The structure using the three dimensional design of principle of heart valve seat adopt hard and soft sealing compatible multi-level structure, advanced technology, exquisite processing. This product consists of body, disc, multi-level seat, valve stem, drive mechanism and so on the main parts.

◆ 用途 Use

三偏心多层次金属硬密封蝶阀广泛应用于介质温度≤650℃的冶金、电力、石油化工、空气、煤气、以及给排水等介质管道上, 作调节流量和截断流体之用, 密封性能可靠, 是通用蝶阀向中压、中高温领域的延伸和发展的方向。

Triple eccentric metal hard seal butterfly valve is widely used in multi-level medium temperature of 650 °C or less, metallurgy, electric power, petrochemical industry, medium such as air, gas, and water supply and drainage pipeline, the flow adjustment and cutting fluid, reliable sealing performance, are universal in the butterfly valve to the medium pressure, extension and the development direction in the field of high temperature.

◆ 特点 Characteristics

由于本产品蝶阀采用的是三偏心原理设计, 使密封面的空间运动轨迹达到理想化, 密封面相互之间无摩擦、无干涉、加之密封材料的优化配置, 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、三偏心结构, 使蝶板越关越紧, 其密封性能可靠, 达到无泄漏。

3、耐高压、耐腐蚀、耐磨损、使用寿命长等。

Due to the product principle of eccentric butterfly valve is used in 3 d design, make the space of the sealing surface movement to achieve ideal, no friction, no interference with each other, together with the optimal allocation of sealing material, so that the butterfly valve sealing, corrosion resistance, high temperature resistance and wear resistance are the reliable guarantee.

Its main characteristics are as follows: 1, the small open torque, flexible, convenient and saving energy. 2, 3 d braided structure, make the butterfly plate is shut tight, reliable sealing performance, zero leakage. 3, high resistance to Pressure, corrosion resistance, wear resistance, long service life, etc.

◆ 执行标准 Standards Adopted

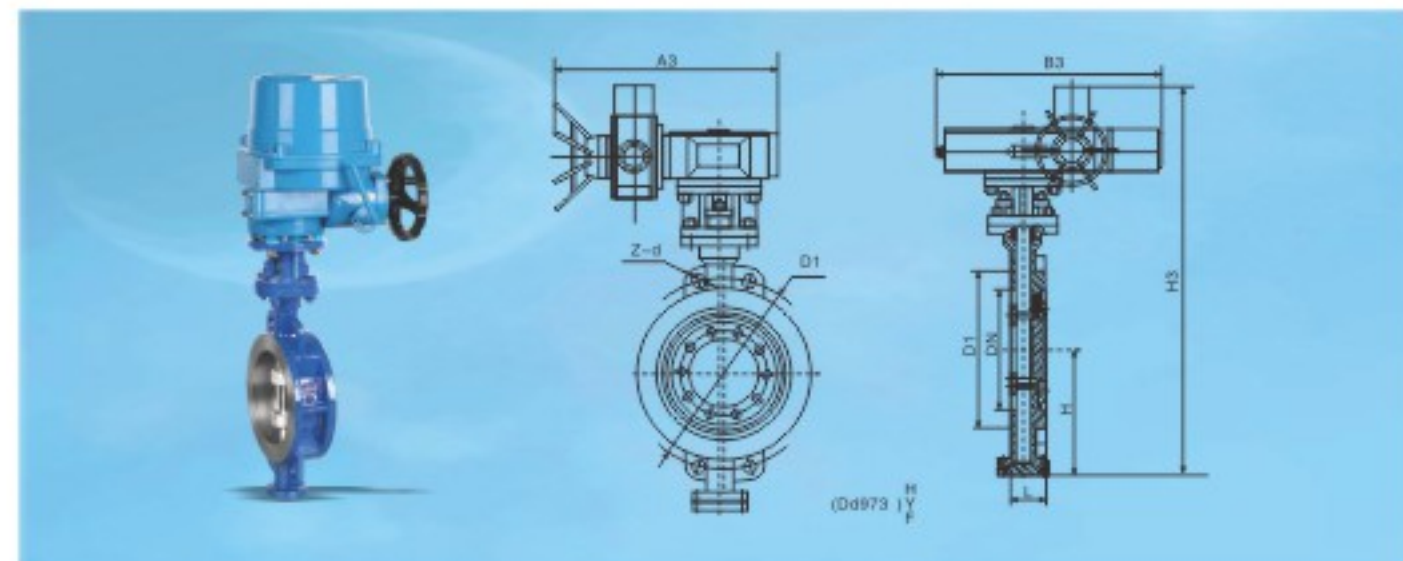
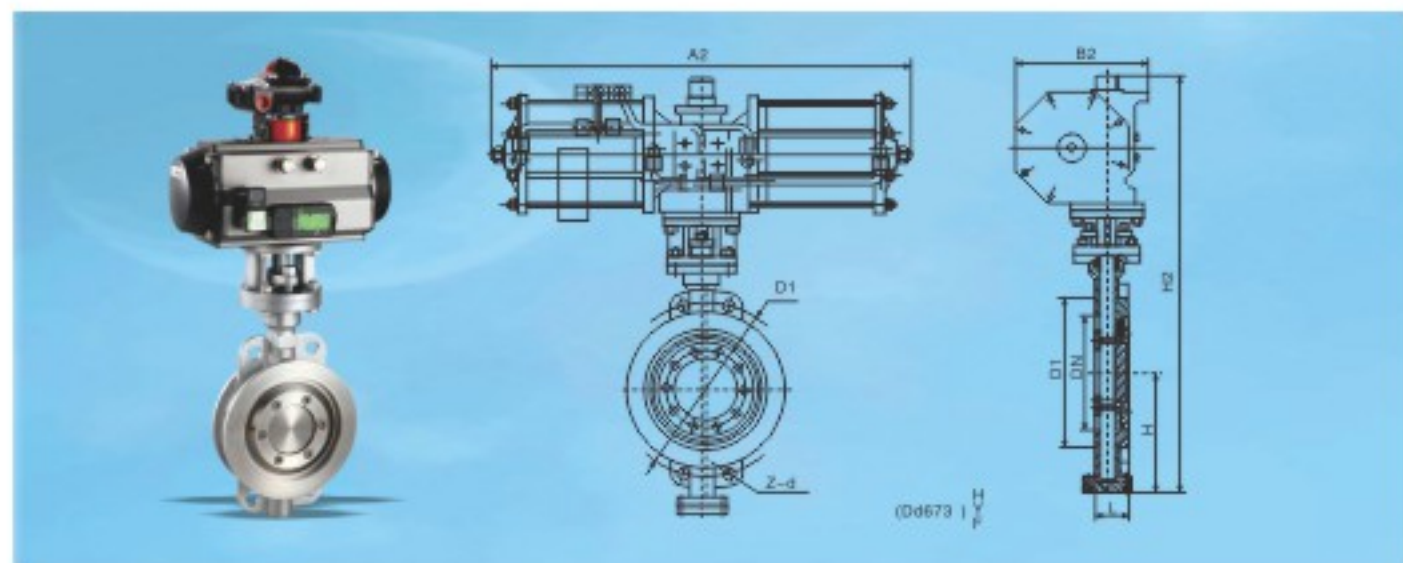
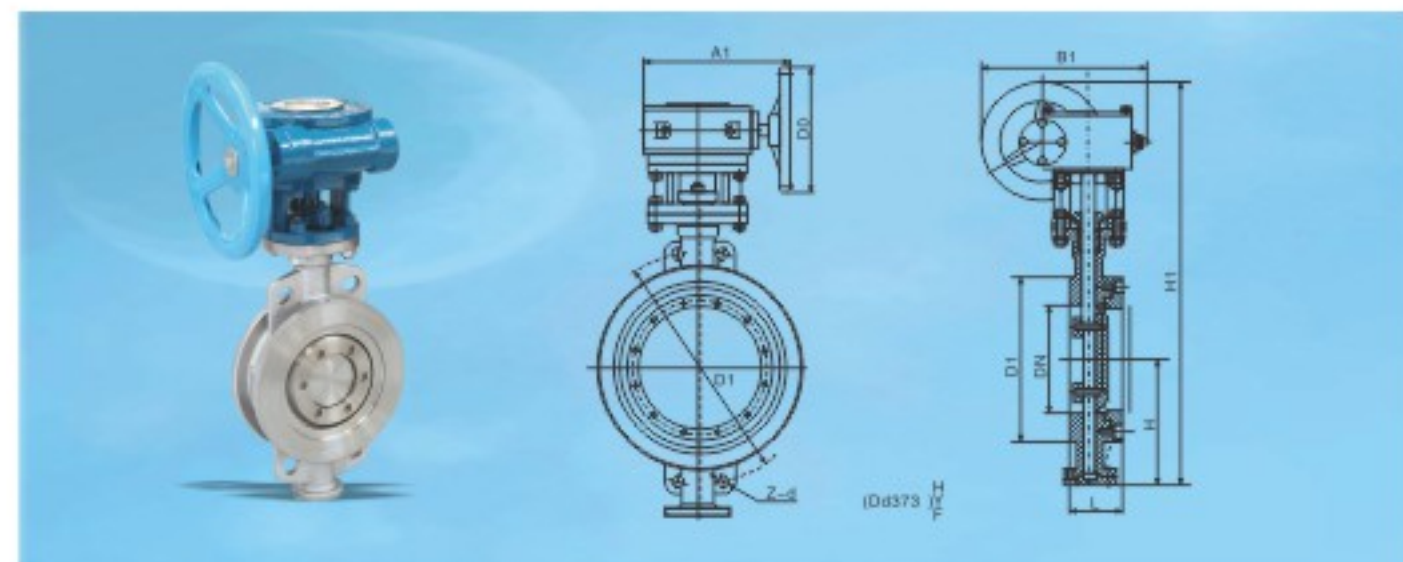
设计与制造 Design and manufacture	法兰连接 Flange connection	结构长度 Length structure	试验与检验 Test and inspection
GB/T 12238, JB/T8527	GB/T 9113, JB/T79, HG20592	GB/T 12221	GB/T 13927

◆ 主要技术参数 Main Technical Parameters

公称通径 Nominal diameter	DN(mm)	50~2000					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 Strength test	0.9	1.5	2.4	3.8	6.0	
	密封试验 Sealing test	0.7	1.1	1.8	2.8	4.4	
	气密封试验 Gas seal test	0.6	0.6	0.6	0.6	0.6	
泄漏率 Leak rate	零泄漏或 (Zero leakage or) $<0.1 \times DN \text{ mm}^3/\text{s}$ (符合 Conform GB/T 13927-92 标准 Standard)						
适用温度 Applicable temperature	碳钢 Carbon steel: $-29^{\circ}\text{C} \sim 425^{\circ}\text{C}$ 不锈钢 Stainless steel: $-40^{\circ}\text{C} \sim 600^{\circ}\text{C}$						
适用介质 Applicable medium	空气、水、蒸汽、煤气、油品及酸、碱、盐带有弱腐蚀性介质等 Air, water, steam, gas, oil, acid, alkali, salt with weak corrosive medium, etc						
驱动形式 Drive form	蜗轮传动、气动传动、电动传动、液动传动 Worm gear drive, pneumatic drive, electric drive, hydraulic drive						

◆ 主要零件材料 Main Parts Material

零件名称 Part name	材料 Material
阀体 Body	铸钢、不锈钢、铬钼钢、合金钢、双相钢 Cast steel, stainless steel, chrome molybdenum steel, alloy steel, dual phase steel
蝶板 Plate	铸钢、不锈钢、铬钼钢、合金钢、双相钢 Cast steel, stainless steel, chrome molybdenum steel, alloy steel, dual phase steel
阀座 Seat	不锈钢、堆焊司太立等硬质合金 Stainless steel, welding department is instant cemented carbide
密封圈 Sealing ring	不锈钢与耐高温石墨板组合成多层次 Stainless steel and high temperature resistant graphite board layers
阀杆 Stem	20Cr13, 1Cr13 不锈钢、铬钼钢、特殊材料 Stainless steel, chrome molybdenum steel, special material
轴套 Shaft	奥氏体不锈钢 Austenitic stainless steel, 304 氮化 Nitride
填料 Packing	柔性石墨 Flexible graphite, PTFE
填料压盖 Packing gland	铸钢、不锈钢 Cast steel, stainless steel
支架 Bracket	铸钢、不锈钢 Cast steel, stainless steel



◆主要外形连接尺寸 Main Boundary Connection Dimensions

单位Unit: mm

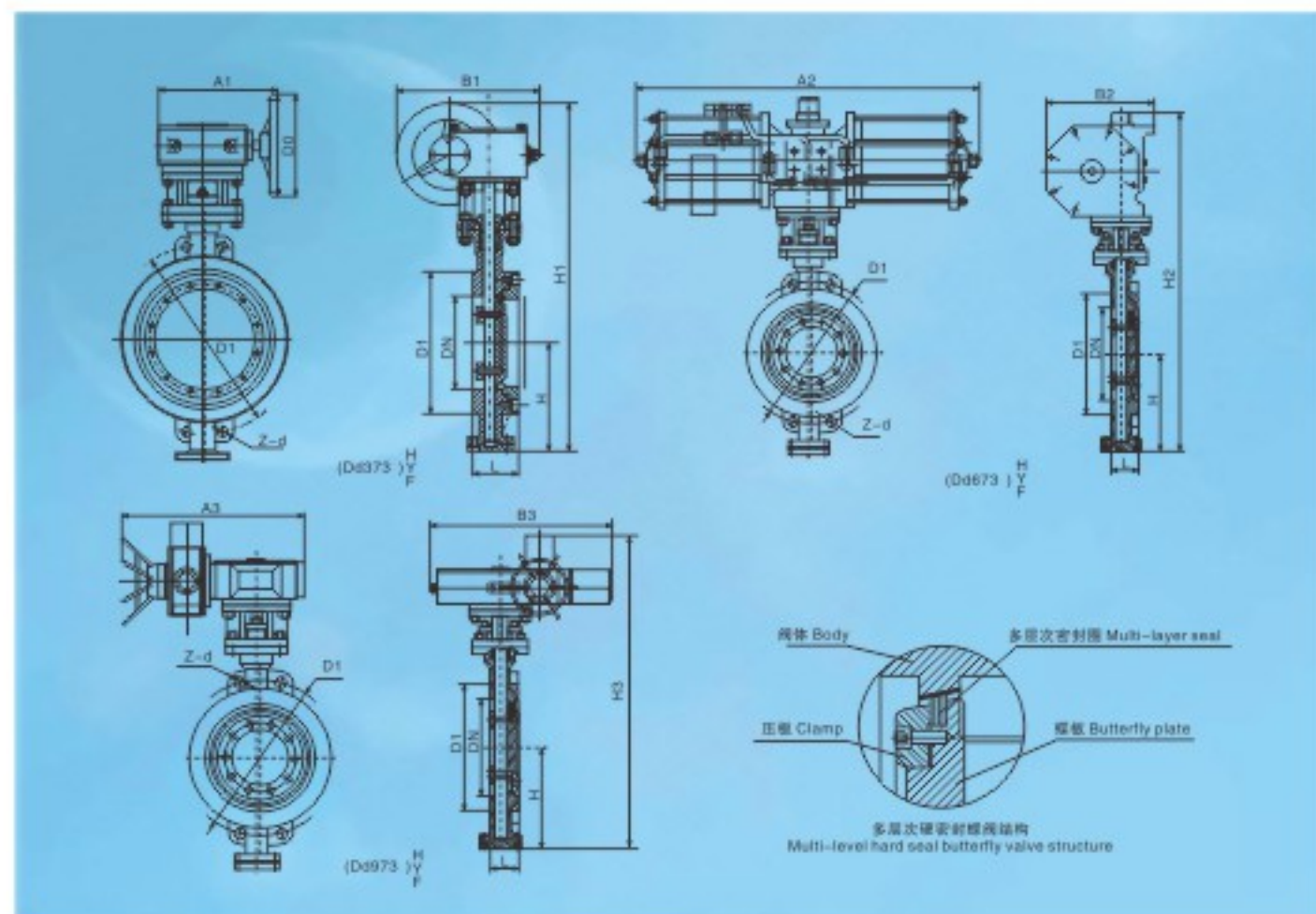
DN		结构长度 L Structure length		外形尺寸(参考值)Boundary dimensions (reference)											法兰尺寸(标准值) Flange dimensions (standard)				D373H WT(Kg)
				H	Dd373H			Dd673H			Dd973H			PN0.6MPa		PN1.0MPa			
英寸 Inch	毫米 mm	短 Short	长 Long			H1	A1	B1	H2	A2	B2	H3	A3	B3	D1	Z-d	D1	Z-d	
40	1 1/2	43	43	107	330	180	200	625	245	72	530	250	255	100	4-14	110	4-18	10	
50	2	43	43	112	350	180	200	625	245	72	530	250	255	110	4-14	125	4-18	12	
65	2 1/2	46	46	115	370	180	200	625	245	72	530	250	255	130	4-14	145	4-18	13	
80	3	49	64	125	380	180	200	645	245	72	565	250	255	150	4-18	160	8-18	15	
100	4	56	64	138	420	180	200	675	355	92	600	250	255	170	4-18	180	8-18	17	
125	5	64	70	164	460	180	200	715	355	92	640	250	255	200	8-18	210	8-18	27	
150	6	70	76	175	555	270	280	800	355	92	704	300	315	225	8-18	240	8-22	29	
200	8	71	89	215	780	400	425	850	250	170	775	300	315	280	8-18	295	8-22	45	
250	10	76	114	243	840	400	425	925	250	170	945	300	315	335	12-18	350	12-22	69	
300	12	83	114	285	995	450	560	1035	450	220	1070	300	315	395	12-22	400	12-22	86	
350	14	92	127	320	1050	450	560	1070	450	220	1140	300	315	445	12-22	460	16-22	122	
400	16	102	140	350	1220	535	580	1190	450	220	1210	300	315	495	16-22	515	16-26	141	
450	18	114	152	350	1280	535	580	1250	650	280	1335	575	714	550	16-22	565	20-26	191	
500	20	127	152	380	1365	535	580	1290	650	280	1415	575	714	600	20-22	620	20-26	260	
600	24	154	178	435	1460	570	660	1455	850	380	1605	656	810	705	20-26	725	20-30	380	
700	28	165	229	480	1520	750	550	1585	850	380	1844	656	810	810	24-26	840	24-30	450	
800	32	190	241	530	1710	750	550	1700	1250	380	2040	656	810	920	24-30	950	24-33	650	
900	36	203	241	595	1810	750	550	1965	1250	380	2255	785	863	1020	24-30	1050	28-33	830	
1000	40	216	300	650	1900	900	750	2015	1250	380	2380	785	863	1120	28-30	1160	28-36	1050	
1200	48	254	360	775	1180	1000	925	2250	1250	380	2640	785	863	1340	32-33	1380	32-39	1400	
1400	56	279	390	870	1450	1000	925	-	-	-	2886	-	-	1560	36-36	1590	36-42	1900	
1600	64	318	440	1000	1730	1000	925	-	-	-	3156	-	-	1760	40-36	1820	40-48	2900	
1800	72	356	490	1110	3020	1100	980	-	-	-	3421	-	-	1970	44-39	2020	44-48	4000	
2000	80	406	540	1250	3270	1100	980	-	-	-	3685	-	-	2180	48-42	2230	48-48	5300	

◆主要外形连接尺寸 Main Boundary Connection Dimensions

单位Unit: mm

DN		结构长度 L Structure length		外形尺寸(参考值)Boundary dimensions (reference)											法兰尺寸(标准值) Flange dimensions (standard)				D373H WT(Kg)
公称 直径 DN	英寸 Inches	短 Short	长 Long	H	Dd373H			Dd673H			Dd973H			PN1.6MPa		PN2.5MPa			
					H1	A1	B1	H2	A2	B2	H3	A3	B3	D1	Z-d	D1	Z-d		
40	1 1/2	43	43	107	330	180	200	625	245	72	530	250	255	110	4-18	110	4-18	10	
50	2	43	43	112	350	180	200	625	245	72	530	250	255	125	4-18	125	4-18	12	
65	2 1/2	46	46	115	370	180	200	625	245	72	530	250	255	145	4-18	145	8-18	13	
80	3	49	64	125	380	180	200	645	245	72	565	250	255	160	8-18	160	8-18	15	
100	4	56	64	138	420	180	200	675	355	92	600	250	255	180	8-18	190	8-22	17	
125	5	64	70	164	460	180	200	715	355	92	640	250	255	210	8-18	220	8-26	27	
150	6	70	76	175	555	270	280	800	355	92	704	300	315	240	8-22	250	8-26	29	
200	8	71	89	215	780	400	425	850	250	170	775	300	315	295	12-22	310	12-26	45	
250	10	76	114	243	840	400	425	925	250	170	945	300	315	355	12-26	370	12-30	69	
300	12	83	114	285	995	450	560	1035	450	220	1070	300	315	410	12-26	430	16-30	86	
350	14	92	127	320	1050	450	560	1070	450	220	1140	300	315	470	16-26	490	16-33	122	
400	16	102	140	350	1220	535	580	1190	450	220	1210	300	315	525	16-30	550	16-36	141	
450	18	114	152	350	1280	535	580	1250	650	280	1335	575	714	585	20-30	600	20-36	191	
500	20	127	152	380	1365	535	580	1290	650	280	1415	575	714	650	20-33	660	20-36	260	
600	24	154	178	435	1460	570	660	1455	850	380	1605	656	810	770	20-36	770	20-39	380	
700	28	165	229	480	1520	750	550	1585	850	380	1844	656	810	840	24-36	875	24-42	450	
800	32	190	241	530	1710	750	550	1700	1250	380	2040	656	810	950	24-39	990	24-48	650	
900	36	203	241	595	1810	750	550	1965	1250	380	2255	785	863	1050	28-39	1090	28-48	830	
1000	40	216	300	650	1900	900	750	2015	1250	380	2380	785	863	1170	28-42	1210	28-56	1050	
1200	48	254	360	775	1180	1000	925	2250	1250	380	2640	785	863	1390	32-48	1420	32-56	1400	
1400	56	279	390	870	1450	1000	925	-	-	-	2886	-	-	1590	36-48	1640	36-62	1900	
1600	64	318	440	1000	1730	1000	925	-	-	-	3156	-	-	1820	40-56	1860	40-62	2900	
1800	72	356	490	1110	3020	1100	980	-	-	-	3421	-	-	2020	44-56	2070	44-70	4000	
2000	80	406	540	1250	3270	1100	980	-	-	-	3685	-	-	2230	48-62	2300	48-70	5300	

注: Dd-代表多层次密封蝶阀; 法兰标准: GB/T9113、JB/T79、HG/T20592。
用户注意: 表中H1、H2、H3尺寸均可根据用户需要加长(加长杆蝶阀), 若需特殊材料订货时提出。
Note: the Dd - on behalf of the multi-layer sealing butterfly valve; The flange standard: GB/T9113、JB/T79、HG/T20592.
User notice: H1、H2、H3 size in table all can according to user needs to lengthen (long pole butterfly valves), is proposed for special material orders.



◆ 主要外形连接尺寸 Main Boundary Connection Dimensions

单位Unit: mm

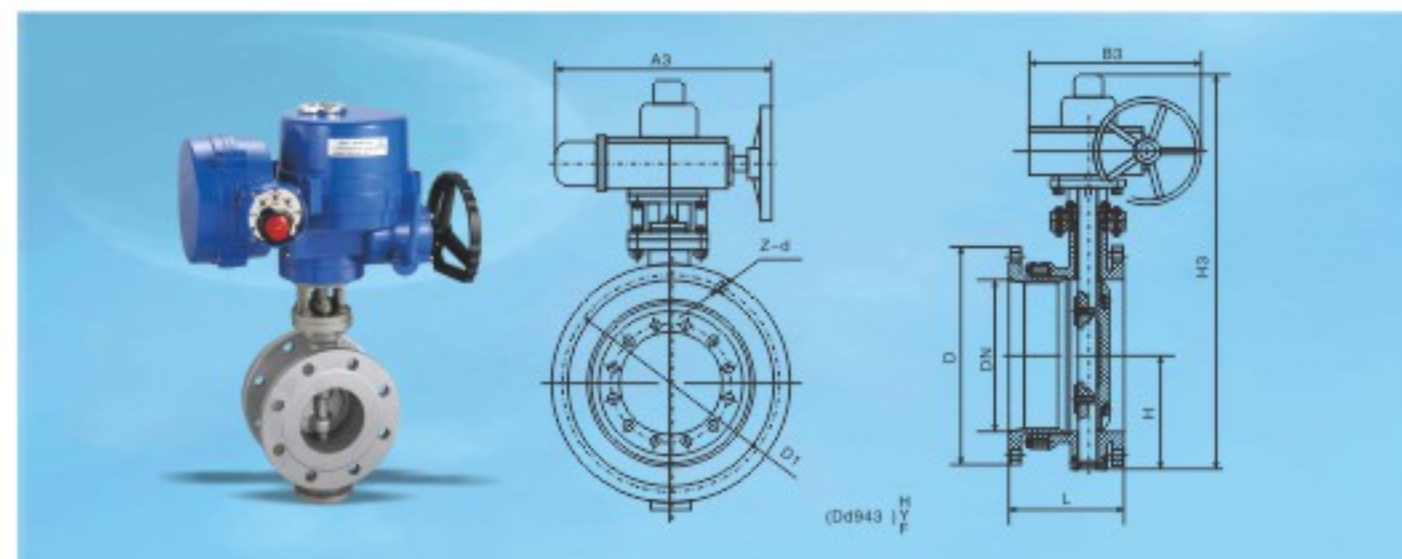
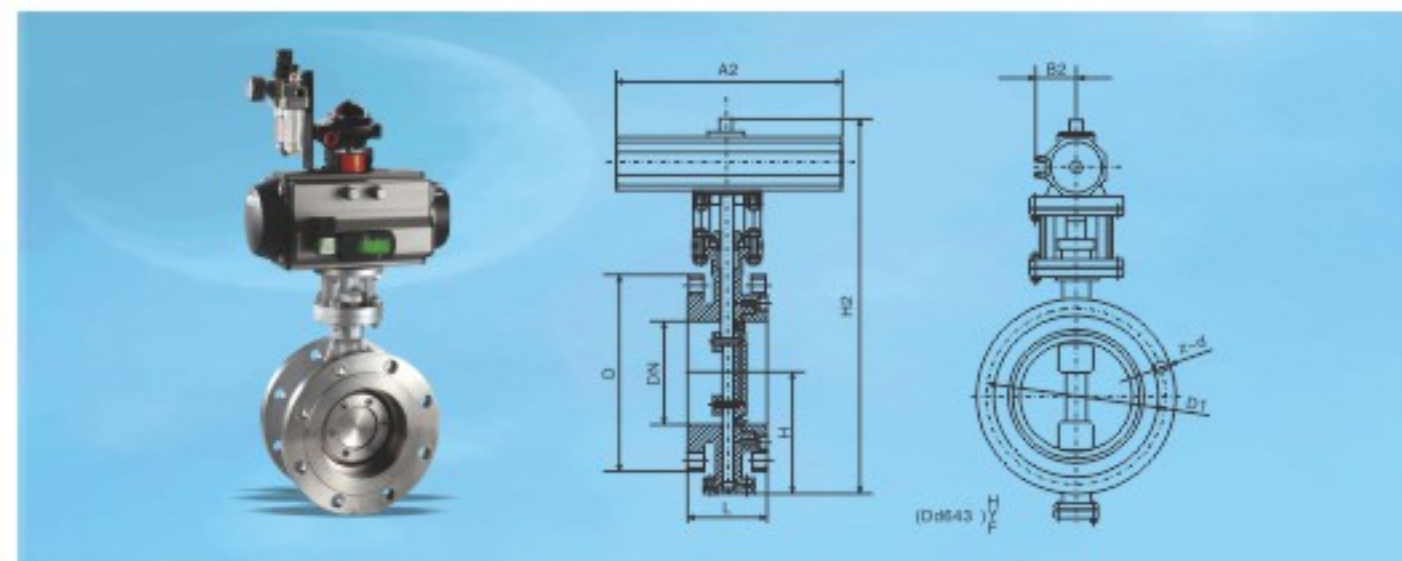
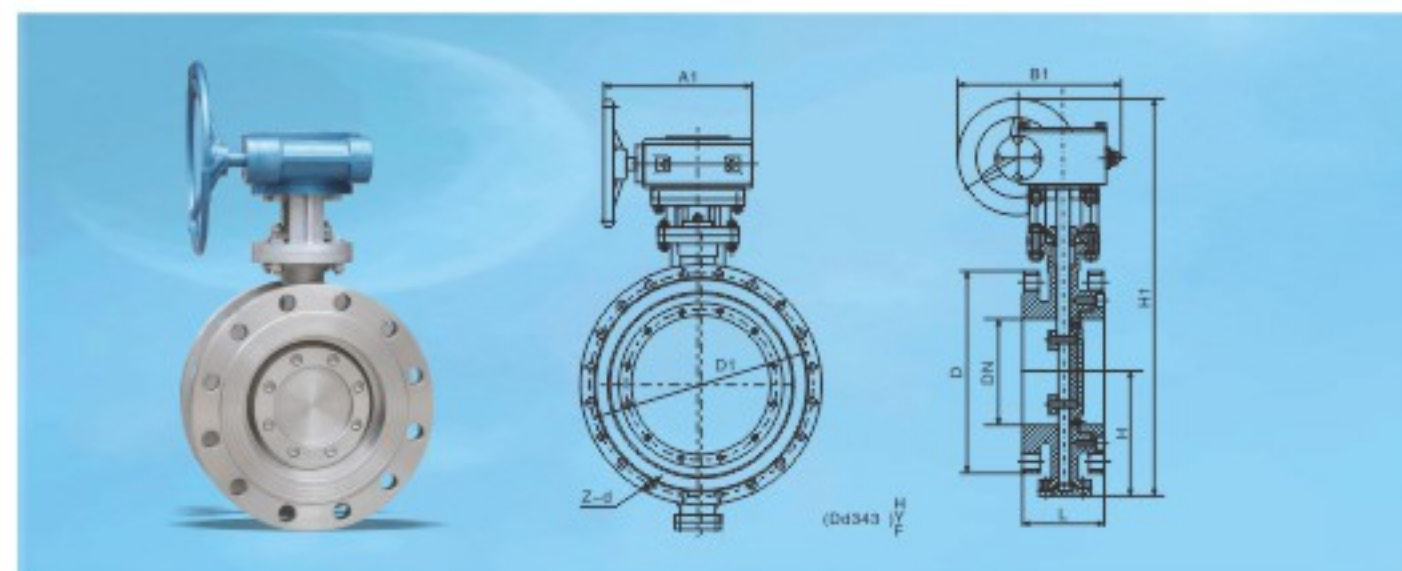
DN		结构长度 (标准值) Structure length (standard)	外形尺寸(参考值) Boundary dimensions (reference)										法兰尺寸(标准值) Flange dimensions (standard)	
			H	Dd373H			Dd673H			Dd973H			PN4.0MPa	
英寸 inch	毫米 mm	L		H1	A1	B1	H2	A2	B2	H3	A3	B3	D1	Z-d
50	2	43	112	350	180	200	625	250	170	530	250	255	125	4-18
65	2 1/2	46	115	370	270	280	625	250	170	530	250	255	145	8-18
80	3	64	120	380	270	280	645	250	170	565	250	255	160	8-18
100	4	64	138	420	270	280	675	250	170	600	250	255	190	8-22
125	5	70	164	460	380	420	715	450	220	640	250	255	220	8-26
150	6	76	175	555	380	420	800	450	220	705	300	315	250	8-26
200	8	89	208	780	400	425	850	450	220	775	300	315	320	12-30
250	10	114	243	840	400	425	925	450	280	945	300	315	385	12-33
300	12	114	285	995	450	560	1035	650	280	1070	300	315	450	16-33
350	14	127	320	1050	450	560	1070	650	280	1140	300	315	510	16-36
400	16	140	350	1220	535	580	1190	650	280	1210	300	315	585	16-39
450	18	152	350	1280	535	580	-	-	-	1335	575	714	610	20-39
500	20	152	380	1365	535	580	-	-	-	1415	575	714	670	20-42

注: Dd-代表多层次密封蝶阀; 法兰标准: GB/T9113、JB/T79、HG/T20592。

用户注意: 表中H1、H2、H3尺寸均可根据用户需要加长(加长杆蝶阀)。若需特殊材料订货时提出。

Note: the Dd - on behalf of the multi-layer sealing butterfly valve; The flange standard: GB/T9113、JB/T79、HG/T20592.

User notice: H1, H2, H3 size in table all can according to user needs to lengthen (long pole butterfly valves), is proposed for special material orders.



◆主要外形连接尺寸 Main Boundary Connection Dimensions

单位Unit: mm

DN		结构长度 (标准值) Structure length (standard)		外形尺寸(参考值) Boundary dimensions (reference)											法兰尺寸(标准值) Flange dimensions (standard)								
		L		H	Dd343H			Dd643H			Dd943H			PN0.25MPa			PN0.6MPa			PN1.0MPa			
英寸 inches	公制 mm	短 short	长 Long		H1	A1	B1	H2	A2	B2	H3	A3	B3	D	D1	Z-d	D	D1	Z-d	D	D1	Z-d	
40	1 1/2	106	140	107	330	180	200	605	245	72	530	250	255	130	100	4-14	130	100	4-14	150	110	4-18	
50	2	108	150	112	350	180	200	625	245	72	530	250	255	140	110	4-14	140	110	4-14	165	125	4-18	
65	2 1/2	112	170	115	370	180	200	645	245	72	530	250	255	160	130	4-14	160	130	4-14	185	145	4-18	
80	3	114	180	120	380	180	200	675	355	92	565	250	255	190	150	4-18	190	150	4-18	200	160	8-18	
100	4	127	190	138	420	180	200	715	355	92	600	250	255	210	170	4-18	210	170	4-18	220	180	8-18	
125	5	140	200	164	460	180	200	800	355	92	640	250	255	240	200	8-18	240	200	8-18	250	210	8-18	
150	6	140	210	175	555	270	280	850	250	170	705	300	315	265	225	8-18	265	225	8-18	285	240	8-22	
200	8	152	230	200	760	400	425	925	250	170	775	300	315	320	280	8-18	320	280	8-18	340	295	8-22	
250	10	165	250	243	830	400	425	1035	450	220	945	300	315	375	335	12-18	375	335	12-18	395	350	12-22	
300	12	178	270	250	895	450	560	1070	450	220	1070	300	315	440	395	12-22	440	395	12-22	445	400	12-22	
350	14	190	290	280	950	450	560	1190	450	280	1140	300	315	490	445	12-22	490	445	12-22	505	460	16-22	
400	16	216	310	305	1190	535	580	1250	650	280	1210	300	315	540	495	16-22	540	495	16-22	565	515	16-26	
450	18	222	330	350	1255	535	580	1295	650	280	1335	575	714	595	550	16-22	595	550	16-22	615	565	20-26	
500	20	229	350	380	1305	535	580	1455	850	380	1415	575	714	645	600	20-22	645	600	20-22	670	620	20-26	
600	24	267	390	445	1340	570	660	1585	850	380	1605	656	810	755	705	20-26	755	705	20-26	780	725	20-30	
700	28	292	430	480	1520	750	550	1700	1250	380	1844	656	810	860	810	24-26	860	810	24-26	895	840	24-30	
800	32	318	470	530	1710	750	550	1865	1250	380	2040	656	810	975	920	24-30	975	920	24-30	1015	950	24-33	
900	36	330	510	580	1810	750	550	2015	1500	580	2255	785	863	1075	1020	24-30	1075	1020	24-30	1115	1050	28-33	
1000	40	410	550	650	1960	900	750	2226	1500	580	2380	785	863	1175	1120	28-30	1175	1120	28-30	1230	1160	28-36	
1200	48	470	630	760	2250	1000	925	-	-	-	2640	785	863	1375	1320	32-30	1405	1340	32-33	1455	1380	32-39	
1400	56	530	710	850	2435	1000	925	-	-	-	2886	-	-	1575	1520	36-30	1630	1560	36-36	1675	1590	36-42	
1600	64	600	790	1030	2780	1000	925	-	-	-	3156	-	-	1790	1730	40-30	1830	1760	40-36	1915	1820	40-48	
1800	72	670	870	1230	3020	1100	980	-	-	-	3421	-	-	1990	1930	44-30	2045	1970	44-39	2115	2020	44-48	
2000	80	760	950	1350	3270	1100	980	-	-	-	3685	-	-	2190	2130	48-30	2265	2180	48-42	2325	2230	48-48	

◆主要外形连接尺寸 Main Boundary Connection Dimensions

单位Unit: mm

DN		结构长度(标准值)		外形尺寸(参考值)											法兰尺寸(标准值)					
		Structure length (standard)		Boundary dimensions (reference)											Flange dimensions (standard)					
		L		H	Dd343H			Dd643H			Dd943H			PN1.6MPa			PN2.5MPa			
英寸 Inches	短 short	长 Long	H1		A1	B1	H2	A2	B2	H3	A3	B3	D	D1	Z-d	D	D1	Z-d		
50	2	108	150	112	350	180	200	625	245	72	530	250	255	165	125	4-18	165	125	4-18	
65	2 1/2	112	170	115	370	180	200	625	245	72	530	250	255	185	145	4-18	185	145	8-18	
80	3	114	180	120	380	180	200	645	245	72	565	250	255	200	160	8-18	200	160	8-18	
100	4	127	190	138	420	180	200	675	355	92	600	250	255	220	180	8-18	235	190	8-22	
125	5	140	200	164	460	180	200	715	355	92	640	250	255	250	210	8-18	270	220	8-26	
150	6	140	210	175	555	270	280	800	355	92	705	300	315	285	240	8-22	300	250	8-26	
200	8	152	230	200	760	400	425	850	250	170	775	300	315	340	295	12-22	360	310	12-26	
250	10	165	250	243	830	400	425	925	250	170	945	300	315	405	355	12-26	425	370	12-30	
300	12	178	270	250	895	450	560	1035	450	220	1070	300	315	460	410	12-26	485	430	16-30	
350	14	190	290	280	950	450	560	1070	450	220	1140	300	315	520	470	16-26	555	490	16-33	
400	16	216	310	305	1190	535	580	1190	450	220	1210	300	315	580	525	16-30	620	550	16-36	
450	18	222	330	350	1255	535	580	1250	650	280	1335	575	714	640	585	20-30	670	600	20-36	
500	20	229	350	380	1305	535	580	1290	650	280	1415	575	714	715	650	20-33	730	660	20-36	
600	24	267	390	445	1340	570	660	1455	850	380	1605	656	810	840	770	20-36	845	770	20-39	
700	28	292	430	480	1520	750	550	1585	850	380	1844	656	810	910	840	24-36	960	875	24-42	
800	32	318	470	530	1710	750	550	1700	1250	380	2040	656	810	1025	950	24-39	1085	990	24-48	
900	36	330	510	580	1810	750	550	1865	1250	380	2255	785	863	1125	1050	28-39	1185	1090	28-48	
1000	40	410	550	650	1960	900	750	2015	1250	380	2380	785	863	1255	1170	28-42	1320	1210	28-56	
1200	48	470	630	760	2250	1000	925	2250	1250	380	2640	785	863	1485	1390	32-48	1530	1420	32-56	
1400	56	530	710	850	2435	1000	925	-	-	-	2886	-	-	1685	1590	36-48	1755	1640	36-62	
1600	64	600	790	1030	2780	1000	925	-	-	-	3156	-	-	1930	1820	40-56	1975	1860	40-62	
1800	72	670	870	1230	3020	1100	980	-	-	-	3421	-	-	2130	2020	44-56	2195	2070	44-70	
2000	80	760	950	1350	3270	1100	980	-	-	-	3685	-	-	2345	2230	48-62	2425	2300	48-70	

◆主要外形连接尺寸 Main Boundary Connection Dimensions

单位Unit: mm

DN		结构长度(标准值) Structure length (standard)		外形尺寸(参考值) Boundary dimensions (reference)											法兰尺寸(标准值) Flange dimensions (standard)		
		L		H	Dd343H			Dd643H			Dd943H			PN4.0MPa			
					H1	A1	B1	H2	A2	B2	H3	A3	B3	D	D1	Z-d	
英寸 Inch	毫米 mm	短 short	长 Long														
50	2	108	150	112	350	180	200	625	250	170	530	250	255	165	125	4-18	
65	2 1/2	112	170	115	370	270	280	625	250	170	530	250	255	185	145	8-18	
80	3	114	180	120	380	270	280	645	250	170	565	250	255	200	160	8-18	
100	4	127	190	138	420	270	280	675	250	170	600	250	255	235	190	8-22	
125	5	140	200	164	460	380	420	715	450	220	640	250	255	270	220	8-26	
150	6	140	210	175	555	380	420	800	450	220	705	300	315	300	250	8-26	
200	8	152	230	200	780	400	425	850	450	220	775	300	315	375	320	12-30	
250	10	165	250	243	830	400	425	925	450	280	945	300	315	450	385	12-33	
300	12	178	270	250	895	450	560	1035	650	280	1070	300	315	515	450	16-33	
350	14	190	290	280	950	450	560	1070	650	280	1140	300	315	580	510	16-36	
400	16	216	310	305	1190	535	580	1190	650	280	1210	300	315	660	585	16-39	
450	18	222	330	350	1255	535	580	-	-	-	1335	575	714	685	610	20-39	
500	20	229	350	380	1305	535	580	-	-	-	1415	575	714	755	670	20-42	

◆ 型号说明 Model Specification



◆ 产品概述 Product Overview

美标蝶阀是按美国现行标准API609设计制造的一种高性能蝶阀。阀门采用三维偏心斜锥形阀座密封副，蝶板密封采用新型金属片嵌装在蝶板上与阀座吻合。利用蝶板转动压紧密封，所以密封面摩擦阻力小，关闭时具有越关越紧功能，这样密封性能可靠，开启确保密封完全脱离接触，保证了密封面不受损伤。815W、830W、860W系列蝶阀的主要结构特征为对夹式和法兰式三偏心结构，而815L、830L系列蝶阀的主要结构特征为阀体周边带凸耳设计成带螺孔单法兰结构。

API butterfly valve is according to the current standard API609 design and manufacture a kind of high performance butterfly valve. Using three-dimensional eccentric oblique cone valve seat seal, butterfly plate sealing adopts new type metal embedded put on the butterfly plate and valve seat. Using disc rotating pressure tight seal, so the sealing surface friction small, closed with functions of closed more and more tightly, sealing performance and reliable, so open to ensure sealing completely out of contact, to ensure the sealing surface is not damaged. 815W, 830W, 860W series of butterfly valve of the main structure characteristics of wafer and flange three eccentric structure, and 815L, 830L series butterfly valve around the main structure characteristics of the valve body with lugs design into a single flange with screw hole structure.

◆ 特点 Characteristics

- 1、外形结构简单，体积小重量轻，成本低，应用范围广；
 - 2、该蝶阀结构特点排除了其它类型蝶阀开过位而不能密封的缺点，且在高温下能正常使用，克服了在高温条件下使用时因热膨胀而容易泄露的缺陷；
 - 3、该蝶阀根据使用介质要求，选用不同密封面材料，以保证密封面耐磨损、耐冲刷，使用寿命长。
- 1, Appearance of simple structure, small volume light weight, low cost, wide application range;
2, The butterfly valve structure ruled out other types had not seal of faults, and at high temperature can normal use, overcome when used under the condition of high temperature easy leaking defects due to thermal expansion;
3, The butterfly valve in accordance with the requirements of working medium, choose different sealing surface material, to ensure the sealing surface wear resistance, corrosion resistance, scouring long service life.

◆ 用途 Use

美标蝶阀广泛应用于冶金、电力、石油、化工、食品医药、城建生活用水及其排污等行业，在管道上作启闭或调节介质流量之用。API butterfly valve is widely used in metallurgy, electric power, petroleum, chemical, food, medicine, city building water and drainage industry, such as in the line for open/close or adjusting medium flow.

◆ 执行标准 Standards Adopted

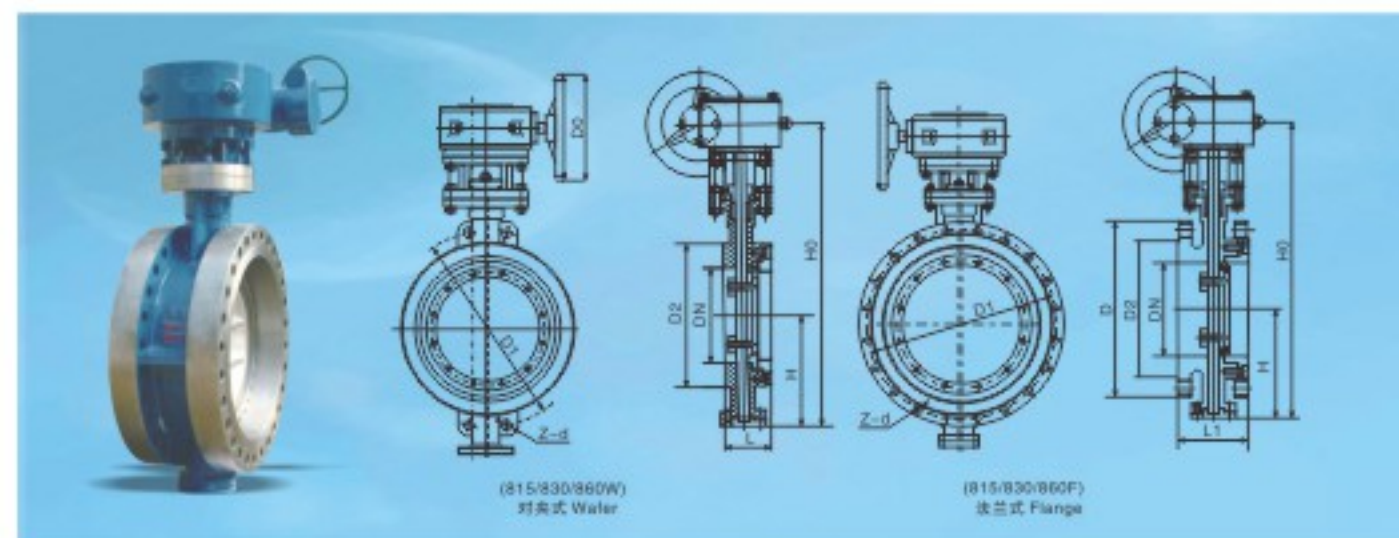
设计与制造 Design and manufacture	结构长度 Face to Face	法兰连接 Flange connection	试验与检验 Test and inspection
API 609	ASME B16.10	ASME B16.5, ASME 16.47	API 598

◆ 主要技术参数 Main Technical Parameters

公称口径 DN(mm) Nominal diameter	830W		830L		
	2" - 40"				
公称压力PN(Lb) Nominal pressure	压力等级 Class	150	300	600	
试验压力 (MPa) Test pressure	强度试验 Strength test	3.0	7.7	15.4	
	密封试验 Sealing test	2.2	5.7	11.3	
适用介质 Applicable medium	水、蒸汽、油品、海水等 Water, steam, oil, water, etc				
适用温度 Applicable temperature	-29-425℃				

◆ 主要零件材料 Main Parts Material

零件名称 Part name	材料 Material
阀体 Body	WCB, CF8, CF8M, CF3, CF3M
蝶板 Disc	WCB, CF8, CF8M, CF3, CF3M
阀杆 Stem	F6a, F304, F316, F304L, F316L
密封圈 Seal ring	430, 304, 316, PTFE
填料 Packing	柔性石墨 Flexible graphite, PTFE

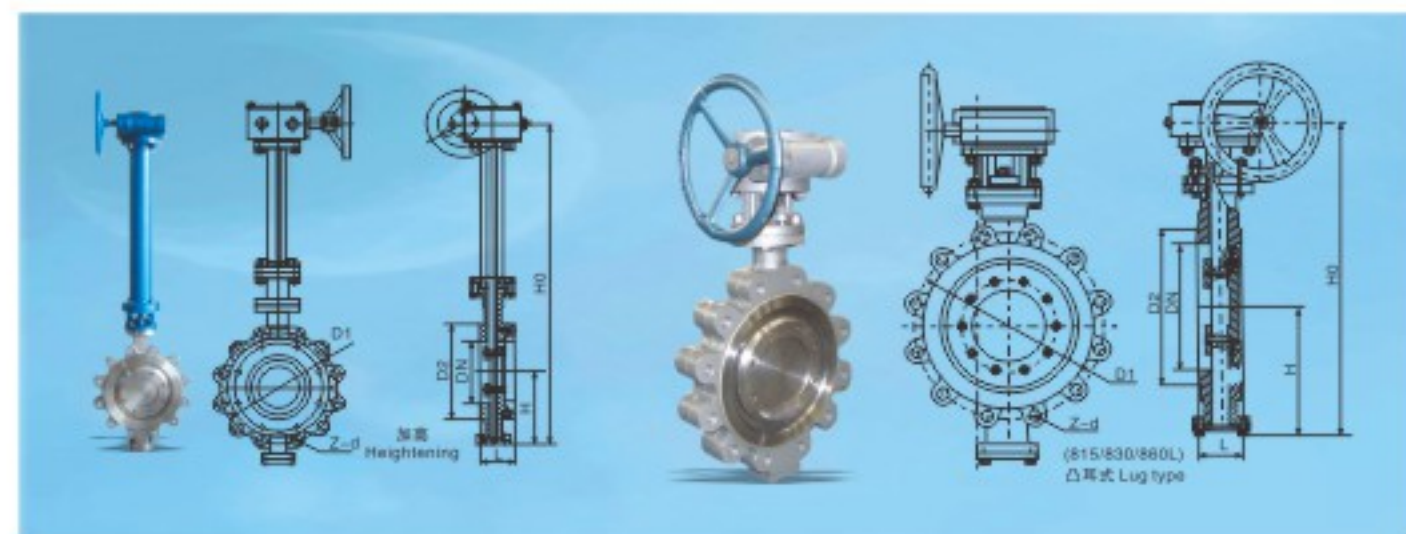


◆ 主要外形连接尺寸 Main Boundary Connection Dimensions (美标815F系列 Class150)

单位 Unit: mm

DN		结构长度 Structure length (标准值 standard)				外形尺寸 Boundary dimensions (参考值 reference)				连接尺寸 Connection dimensions (标准值 standard)								参考重量 Refer weight (kg)	
		L		L1		H		H0		D		D1		D2		M	Z-d		
英寸 inches	毫米 mm	英寸 inches	毫米 mm	英寸 inches	毫米 mm	英寸 inches	毫米 mm	英寸 inches	毫米 mm	英寸 inches	毫米 mm	英寸 inches	毫米 mm	英寸 inches	毫米 mm				
2	50	1.69	43	4.25	108	4.33	110	13.58	345	6.00	152	4.75	120.5	3.62	92	M16	4-19	9	20
2 1/2	65	1.81	46	4.40	112	4.64	118	14.25	362	7.00	178	5.50	139.5	4.13	105	M16	4-19	10	25
3	80	1.88	49	4.50	114	4.92	125	14.96	380	7.50	190	6.00	152.5	5.00	127	M16	4-19	11	29
4	100	2.12	56	5.00	127	5.70	145	16.34	415	9.00	229	7.50	190.5	6.19	157	M16	8-19	13	33
5	125	2.19	64	5.50	140	6.50	165	17.91	455	10.00	254	8.50	216	7.32	186	M20	8-22	16	38
6	150	2.25	70	5.60	140	6.89	175	21.45	545	11.00	279	9.50	241.5	8.50	216	M20	8-22	26	74
8	200	2.50	71	6.00	152	8.26	210	24.21	615	13.50	343	11.75	298.5	10.62	270	M20	8-22	34	86
10	250	2.81	76	6.50	165	9.84	250	27.36	695	16.00	406	14.25	362	12.75	324	M24	12-26	51	142
12	300	3.19	83	7.00	178	11.24	285	32.78	830	19.00	483	17.00	432	15.00	381	M24	12-26	72	167
14	350	3.62	92	7.50	190	12.60	320	35.43	900	21.00	533	18.75	476	16.25	413	M27	12-30	106	218
16	400	4.00	102	8.50	216	13.98	355	38.58	980	23.50	597	21.25	540	18.50	470	M27	16-30	133	275
18	450	4.50	114	8.75	222	14.96	380	40.55	1030	25.00	635	22.75	578	21.00	533	M30	16-33	176	315
20	500	5.00	127	9.00	229	16.34	415	43.70	1110	27.50	699	25.00	635	23.00	584	M30	20-33	190	395
24	600	6.06	154	10.50	267	18.70	475	51.37	1305	32.00	813	29.50	749.5	27.25	692	M33	20-36	394	580
26	650	6.50	165	11.50	292	20.85	530	54.72	1390	34.25	786	29.31	745	28	711	M20	36-22	415	620
28	700	6.50	165	11.50	292	22.04	560	58.07	1475	32.94	837	31.31	795	30	762	M20	40-22	435	680
30	750	6.50	165	12.52	318	22.38	580	60.03	1525	34.94	887	33.31	845	32	813	M20	44-22	476	717
32	800	7.50	190	12.50	318	24.80	630	62.40	1585	37.06	941	35.44	900	34	864	M20	48-22	618	880
34	850	7.88	203	13.00	330	25.60	650	63.00	1600	39.56	1005	37.69	957	36.25	921	M24	40-26	670	980
36	900	7.88	203	13.00	330	26.77	680	69.48	1765	41.62	1057	39.75	1010	38.25	972	M24	44-26	762	1042
38	950	7.88	203	16.14	410	27.95	710	72.84	1850	44.25	1124	42.12	1070	40.25	1022	M27	40-30	960	1250
40	1000	8.50	216	16.14	410	29.53	750	76.00	1930	46.25	1175	44.12	1121	42.5	1080	M27	44-30	1050	1500

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。
Note: The above the wafer, lug wafer, flange, three kinds of connection has manual, worm gear, pneumatic and electric operation.



◆ 主要外形连接尺寸 Main Boundary Connection Dimensions (美标815L/W系列 Class150) 单位Unit: mm

DN		结构长度 Structure length (标准值 standard)		外形尺寸(参考值) Boundary dimensions (reference)				连接尺寸 Connection dimensions (标准值 standard)						参考重量 Refer weight (kg)
		L		H		H0		D1		D2		M	Z-d	
英寸 inches	毫米 mm	英寸 inches	毫米 mm	英寸 inches	毫米 mm	英寸 inches	毫米 mm	英寸 inches	毫米 mm	英寸 inches	毫米 mm			
2	50	1.69	43	4.33	110	13.58	345	4.75	120.5	3.62	92	M16	4-18	11
2 1/2	65	1.81	46	4.64	118	14.25	362	5.50	139.5	4.13	105	M16	4-18	12
3	80	1.88	49	4.92	125	14.96	380	6.00	152.5	5.00	127	M16	4-18	13
4	100	2.12	56	5.70	145	16.34	415	7.50	190.5	6.19	157	M16	8-18	15
5	125	2.19	64	6.50	165	17.91	455	8.50	216	7.32	186	M20	8-22	18
6	150	2.25	70	6.89	175	21.45	545	9.50	241.5	8.50	215	M20	8-22	25
8	200	2.50	71	8.26	210	24.21	615	11.75	298.5	10.62	270	M20	8-22	36
10	250	2.81	76	9.84	250	27.36	695	14.25	362	12.75	324	M24	12-26	53
12	300	3.19	83	11.24	285	32.78	830	17.00	432	15.00	381	M24	12-26	74
14	350	3.62	92	12.60	320	35.43	900	18.75	476	16.25	413	M27	12-30	110
16	400	4.00	102	13.98	355	38.58	980	21.25	540	18.50	470	M27	16-30	138
18	450	4.50	114	14.96	380	40.55	1030	22.75	578	21.00	533	M30	16-33	180
20	500	5.00	127	16.34	415	43.70	1110	25.00	635	23.00	584	M30	20-33	196
24	600	6.06	154	18.70	475	51.37	1305	29.50	749.5	27.25	692	M33	20-36	400
26	350	6.50	165	20.85	530	54.72	1390	29.31	745	28	711	M20	36-22	420
28	700	6.50	165	22.04	560	58.07	1475	31.31	795	30	762	M20	40-22	435
30	750	6.50	165	22.38	580	60.03	1520	33.31	845	32	813	M20	44-22	482
32	800	7.50	190	24.80	630	62.40	1585	35.44	900	34	864	M20	48-22	650
34	850	7.88	203	25.60	650	63.00	1600	37.69	957	36.25	921	M24	40-26	690
36	900	7.88	203	26.77	680	69.48	1765	39.75	1010	38.25	972	M24	44-26	800
38	950	7.88	203	27.95	710	72.84	1850	42.12	1070	40.25	1022	M27	40-30	1000
40	1000	8.50	216	29.53	750	76.00	1930	44.12	1121	42.5	1080	M27	44-30	1200

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。
Note: The above the wafer, lug wafer, flange, three kinds of connection has manual, worm gear, pneumatic and electric operation.

◆ 主要外形连接尺寸 Main Boundary Connection Dimensions (美标830F系列 Class300) 单位Unit: mm

DN		结构长度 Structure length (标准值 standard)				外形尺寸(参考值) Boundary dimensions (reference)				连接尺寸 Connection dimensions (标准值 standard)								参考重量 Refer weight (kg)	
		L		L1		H		H0		D		D1		D2		M	Z-d		
英寸 inches	毫米 mm	英寸 inches	毫米 mm	英寸 inches	毫米 mm	英寸 inches	毫米 mm	英寸 inches	毫米 mm	英寸 inches	毫米 mm	英寸 inches	毫米 mm	英寸 inches	毫米 mm				
2"	50	1.69	43	4.25	108	4.33	110	13.58	345	6.50	165	5.00	127	3.62	92	M16	8-19	9	20
2 1/2"	65	1.81	46	4.50	112	4.64	118	14.25	362	7.50	190	5.86	149	4.13	105	M20	8-22	10	25
3"	80	1.88	64	4.50	180	4.92	125	14.96	380	8.25	210	6.63	168	5.00	127	M20	8-22	12	29
4"	100	2.12	64	5.00	190	5.70	145	16.34	415	10.00	254	7.87	200	6.19	157	M20	8-22	13	35
5"	125	2.19	70	5.50	200	6.50	165	17.91	455	11.00	279	9.25	235	7.32	186	M20	8-22	18	40
6"	150	2.31	76	5.50	210	6.89	175	21.45	545	12.50	318	10.63	270	8.50	216	M20	12-22	28	81
8"	200	2.88	89	5.90	230	8.26	210	24.21	645	15.00	381	13.00	330	10.62	270	M24	12-26	37	94
10"	250	3.25	114	6.30	250	9.84	250	27.36	695	17.50	445	15.24	387	12.75	324	M27	16-30	56	158
12"	300	3.62	114	7.00	270	11.24	285	32.78	830	20.50	521	17.76	451	15.00	381	M30	16-33	79	183
14"	350	4.62	127	7.50	290	12.60	320	35.43	900	23.00	584	20.24	514	16.25	413	M30	20-33	116	239
16"	400	5.25	140	8.50	310	13.98	355	38.58	980	25.50	648	22.50	571	18.50	470	M33	20-36	146	302
18"	450	5.88	152	8.74	330	14.96	380	40.55	1030	28.00	711	24.75	629	21.00	533	M33	24-36	193	346
20"	500	6.25	152	9.00	350	16.34	415	43.70	1110	30.50	775	27.00	686	23.00	584	M33	24-36	209	434
22"	550	7.12	178	10.50	370	17.50	445	46.5	1180	33.00	838	29.25	743	25.25	641	M39	24-42	320	550
24"	600	7.12	178	10.50	390	18.70	475	51.37	1305	36.00	914	32.00	813	27.25	692	M39	24-42	433	638
26"	650	8.25	229	11.50	410	20.00	510	54.0	1370	34.12	867	31.62	803	29	737	M33	32-36	450	650
28"	700	9.01	229	11.50	430	22.04	560	58.07	1475	36.25	921	33.75	857	31	787	M33	36-36	498	698
30"	750	9.01	229	12.50	450	22.38	580	60.03	1525	39	991	36.25	921	33.25	845	M36	36-39	523	788
32"	800	9.48	241	12.50	470	25.59	650	64.37	1635	41.5	1054	38.5	978	35.5	902	M39	32-42	588	988
34"	850	9.50	241	13.00	490	26.00	660	66.0	1675	43.62	1108	40.62	1032	37.5	953	M39	36-42	750	1050
36"	900	9.48	241	13.00	510	26.77	680	69.48	1765	46.12	1172	42.88	1040	39.75	1010	M42	32-45	838	1146
38"	950	11.80	300	16.15	530	28.5	725	72.0	1830	48.12	1222	44.88	1140	41.75	1060	M42	36-45	1200	1450
40"	1000	11.80	300	16.15	550	31.0	785	78.0	1980	50.12	1273	46.88	1191	43.88	1115	M42	40-45	1600	2000

◆ 主要外形连接尺寸 Main Boundary Connection Dimensions (美标830L/W系列 Class300) 单位Unit: mm

DN		结构长度 Structure length (标准值 standard)		外形尺寸(参考值) Boundary dimensions (reference)				连接尺寸 Connection dimensions (标准值 standard)						参考重量 Refer weight (kg)
		L		H		H0		D1		D2		M	Z-d	
英寸 inches	毫米 mm	英寸 inches	毫米 mm	英寸 inches	毫米 mm	英寸 inches	毫米 mm	英寸 inches	毫米 mm	英寸 inches	毫米 mm			
2-5"	同上表中对夹式相应数据	2-5" Same as above in the table wafer type corresponding data												
6"	150	2.31	76	6.89	175	21.45	545	10.62	270	8.50	216	M20	12-22	29
8"	200	2.88	89	8.26	210	24.21	615	13.00	330	10.62	270	M24	12-26	38
10"	250	3.25	114	9.84	250	27.36	695	15.25	387	12.75	324	M27	16-30	58
12"	300	3.62	114	11.24	285	32.78	830	17.75	451	15.00	381	M30	16-33	81
14"	350	4.62	127	12.60	320	35.43	900	20.24	514	16.25	413	M30	20-33	119
16"	400	5.25	140	13.98	355	38.58	980	22.50	591	18.50	470	M33	20-36	149
18"	450	5.88	152	14.96	380	40.55	1030	24.75	628	21.00	533	M33	24-36	198
20"	500	6.25	152	16.34	415	43.70	1110	27.00	686	23.00	584	M33	24-36	215
22"	550	7.12	178	17.50	445	46.5	1180	29.25	743	25.25	641	M39	24-42	350
24"	600	7.12	178	18.70	475	51.37	1305	32.00	813	27.25	692	M39	24-42	436
26"	650	8.25	229	20.00	510	54.0	1370	31.62	803	29	737	M33	32-36	500
28"	700	9.01	229	22.04	560	58.07	1475	33.75	857	31	787	M33	36-36	498
30"	750	9.01	229	22.38	580	60.03	1525	36.25	921	33.25	845	M36	36-39	528
32"	800	9.48	241	25.59	650	64.37	1635	38.5	978	35.5	902	M39	32-42	588
34"	850	9.50	241	26.00	660	66.0	1675	40.62	1032	37.5	953	M39	36-42	850
36"	900	9.48	241	26.77	680	69.48	1765	42.88	1039	39.75	1010	M42	32-45	843
38"	950	11.80	300	28.5	725	72.0	1803	44.88	1140	41.75	1060	M42	36-45	1300
40"	1000	11.80	300	31.0	785	78.0	1980	46.88	1191	43.88	1115	M42	40-45	1800

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。
Note: The above the wafer, lug wafer, flange, three kinds of connection has manual, worm gear, pneumatic and electric operation.