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RECRUITMENT WORLDWIDE AGENTS

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高品质阀门制造商
HIGH QUALITY VALVE MANUFACTURER

浙江上野阀门有限公司

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浙江上野阀门有限公司
ZHEJIANG SHANGYE VALVE CO.,LTD.

浙江上野阀门有限公司是一家专业研发、制造工业阀门、给排水阀门及其自控阀门系统的生产厂家，公司生产基地位于被誉为“泵阀之乡”的温州永嘉瓯北镇，浙江上野阀门是一家集设计、开发、制造和经营为一体的专业性阀门企业。自创办以来，始终坚持以质量求生存，以科技产品求发展，经过多年的发展，以其过硬的产品质量和完整的服务体系，获得了广大用户的好评，在行业内树立了良好的企业形象，品牌知名度逐年攀升。

公司拥有精良的设备，采用先进的制造工艺，完善的检测手段，生产能力强大。公司主要产品种类有：浮动球阀、固定球阀、硬密封蝶阀、软密封蝶阀、法兰闸阀、电站闸阀、法兰截止阀、电站截止阀、旋起式止回阀、升降式止回阀、对夹式止回阀、配套电动气动类自控阀门，衬胶衬氟类防腐阀门及脱硫脱硝工艺阀门等，阀体材质有：铸铁HT200、球铁QT450、碳钢WCB、铬钼钢WC6、WC9、C12A、不锈钢304、304L、316、316L、2205、2507、1.4529、1.4469、A105、F11、F22、F51、F91、F92等，产品广泛应用于电厂、石油、化工、药业、煤气、食品、纸业、给排水、空调、管道系统等领域。

在激烈的市场竞争中，我们坚持科技兴企方针，不断优化产品结构，实施质量改进。通过引进先进技术，主导产品脱硫脱硝阀门、衬胶衬氟阀门、电动控制阀门、气动控制阀门已形成我公司产品特色。产品在多种腐蚀性、非腐蚀性气体、液体以及固体粉末管线和容器上，作调解和截流设备使用。开拓进取、锐意创新是本公司的企业精神，提供优质的产品和满意的服务是我公司的宗旨。热忱欢迎广大客户垂询惠顾！

Zhejiang Shangye Valve Co., Ltd. is a professional manufacturer of R & D, manufacturing water supply and drainage valves, industrial valves and automatic control valve systems. The company's production base is located in Oubei Town, Yongjia, Wenzhou, which is known as the "hometown of pumps and valves". Zhejiang Shangye Valve Co., Ltd. is a professional valve enterprise integrating design, development, manufacturing and operation. Since its inception, it has always adhered to the quality of survival, science and technology products for development, after years of development, with its excellent product quality and complete service system, has won the praise of the majority of users, established a good corporate image in the industry, brand awareness has increased year by year.

The company has excellent equipment, advanced manufacturing technology, perfect detection means, and strong production capacity. Main products: pneumatic ball valve, pneumatic butterfly valve, electric ball valve, electric butterfly valve, desulfurization butterfly valve, fluorine lined butterfly valve, soft seal butterfly valve, hard seal butterfly valve, stainless steel butterfly valve, soft seal ball valve, hard seal ball valve, stainless steel ball valve and other products, which are widely used in power plants, petrochemicals, chemical industry, pharmaceutical industry, gas, food, paper industry, water supply and drainage, air conditioning, pipeline system and other fields .

In the fierce market competition, we adhere to the policy of invigorating enterprises through science and technology, constantly optimize product structure and implement quality improvement. Through the introduction of advanced technology, leading products desulfurization and denitration valve, rubber lined fluorine valve, electric control valve, pneumatic control valve have formed our company's product characteristics. The product is used in various corrosive and non corrosive gas, liquid and solid powder pipelines and containers for mediation and closure equipment. The spirit of our company is to forge ahead and innovate. To provide high quality products and satisfactory service is our tenet. Warmly welcome customers to inquire and patronize!

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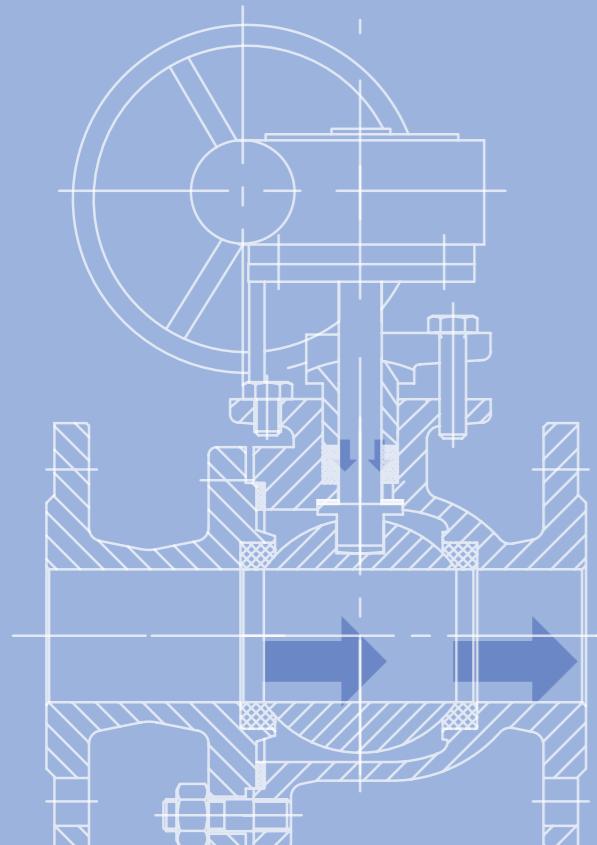
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产品特点 Products Features:

球阀主要用于截断或接通介质，也可用于流体的调节与控制，V型球阀能够进行比较精确的流量调节与控制，而三通球阀则用于分配介质和改变介质的流向。

与其它阀类相比，球阀具有如下的一些优点：

1. 流体阻力小，球阀是所有阀类中流体阻力最小的一种，即使是缩径球阀，其流体阻力也相当小。
2. 开关迅速、方便，只要阀杆旋转 90 度，球阀就完成了全开或全关动作，很容易实现快速启闭。
3. 密封性能好。浮动球阀密封圈一般采用聚四氟乙烯等弹性材料制造，而固定球阀一般采用弹性浮动阀座结构。
4. 可设计成具有防火、防静电的结构。
5. 全焊接阀体的球阀，可以直接埋于地下，使球阀的内件不受侵蚀，是石油，天然气输送管线最理想的阀门。



球阀系列

Ball Valve Services

Ball valve is mainly used to disconnect or connect the medium and can also be used to adjust and control the fluid. V type ball valve can carry out the relatively precise adjustment and control of flow volume, while three-way ball valve is used to dispatch the medium and change the flow direction of the medium.

Compared with other types of valves, ball valve has the following advantages:

1. The fluid resistance is small, and ball valve is the one which has the smallest fluid resistance among all types of valves. Even the fluid resistance of the necking ball valve is quite small.
2. The process of opening and closing is fast and convenient. As long as the valve stem rotates 90 degrees, the ball valve completes the total opening or closing action, which is easy to realize the fast opening and closing.
3. Good tightness. The structure design of elastic materials, such as polytetrafluoroethylene, has been adopted for floating ball valve sealing ring. However, the structure design of the elastic float valve seat has been adopted for the trunnion mounted ball valve.
4. It can be designed to have the sealing functions, such as fire-proof and anti-static-electricity.
5. Full welding of the ball valve body can be directly buried in the ground, so that in case the valve from erosion and it is the ideal valve for oil and natural gas pipeline.

型号编制说明 Model Schedule illustration



- 阀门类型代号：Q—球阀
Valve type code: Q—Ball valve
- 驱动方式代号：3—蜗轮蜗杆传动 6—气动 9—电动(手柄传动略)
Driving manner code: 3—Worm gear driving 6—Pneumatic driving 9—Electric driving(Hand wheel driving omitted)
- 连接形式代号：4—法兰连接 6—焊接 7—对夹连接
Connecting type code: 4—Flange connecting 6—Welded connection 7—Wafer type connecting
- 结构形式代号：1—浮动球直通流道 4—浮动球L型三通流道 5—浮动球T型三通流道 7—固定球直通流道
Structure type code: 1—Floating ball straight flow channel 4—Floating ball L-shaped three-way flow channel 5—Floating ball T-shaped three-way flow channel 7—Fixed ball straight-through flow channel
- 密封面材质代号：F—增强聚四氟乙烯 H—合金钢 W—一本体不锈钢 Y—硬质合金
Sealing face material code: F—Polytetrafluoroethylene H—Alloy steel W—Stainless steel body Y—Hard alloy
- 压力等级代号：公称压力为MPa的10倍、磅级为实际数
Pressure grade code: The 10 times of the nominal pressure MPa, pound grade is actual number
- 阀体材料代号：Z—HT200 C—WCB P—CF8、ZG1Cr18Ni9Ti R—CF8M、ZG1Cr18Ni12Mo2Ti
Body material code: Z—HT200 C—WCB P—CF8、ZG1Cr18Ni9Ti R—CF8M、ZG1Cr18Ni12Mo2Ti

例Example: Q341Y-16P

注释：球阀公称压力为1.6MPa、蜗轮传动、法兰连接、浮动球结构、阀体材质为CF8，密封面材质为硬质合金。

Note:The nominal pressure of the ball valve is 1.6MPa, the turbine drive, the floating ball structure, the valve body material is CF8, and the sealing surface material is cemented carbide

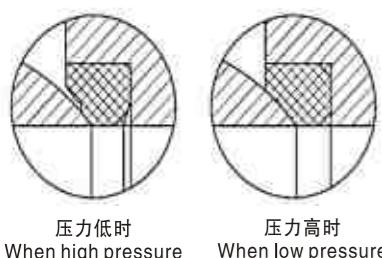
产品结构特点 Product structure characteristics

球阀适用于食品、饮料、医药、化工、工业环保水处理、高层建筑、给排水、燃气等管路作启闭或调节介质流量之用。主要结构特点有：

The ball valve is suitable for opening and closing or adjusting the flow of medium in food, beverage, pharmaceutical, chemical, industrial environmental water treatment, high-rise buildings, water supply and drainage, gas and other pipelines. The main structural features are:

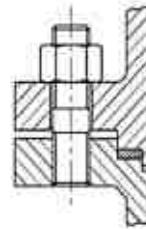
- 1、结构简单、体积小、重量轻、安装尺寸小。
Simple structure, small size, light weight and small installation size.
- 2、密封材料有软、硬两种，可用于各种不同的工况，且密封性能好，使用寿命长。
There are two kinds of sealing materials, soft and hard, which can be used in various working conditions, and has good sealing performance and long service life.
- 3、防火结构设计的球阀可防止火灾事故的扩大，一旦球阀的软密封阀座着火烧损后，不锈钢金属密封圈便发挥作用使球阀保持紧急密封。
The ball valve with fireproof structure design can prevent the expansion of fire accidents. Once the soft seat of the ball valve is damaged by fire, the stainless steel metal sealing ring will play a role to keep the ball valve tightly sealed.
- 4、球阀在完全开启的情况下，没有流阻，部分开启的情况下能进行灵敏的流量控制。
The ball valve has no flow resistance when it is fully opened, and it can perform sensitive flow control when it is partially opened.
- 5、驱动力矩小、操作简便、迅速。
The driving torque is small, the operation is simple and fast.

球阀结构特点 Structure features of ball valve



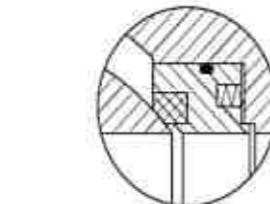
浮动式球阀采用唇形弹性密封圈,其特点有操作力矩小,密封性能可靠
Fixed(metal seal)ball valve adopts high elastic material with high compression ratio as auxiliary seal to compensate expansion and shrink caused by change of temperature.

Floating ball valve adopts lip type elastic seal ring, with the features as small operation torque and reliable sealing performance.



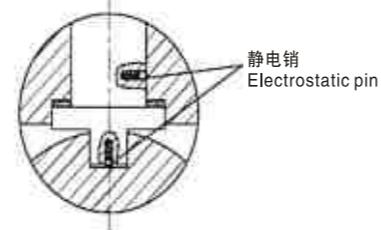
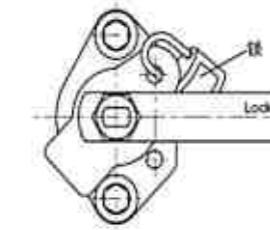
采用凹凸形静密封,防止密封材料因冷流和受介质的冲刷而失效。

Adopt concave-convex static sealing to avoid losing efficacy of the seal materials due to cold flow or the scour of the medium.



固定式(金属密封)球阀座采用高弹性、高压缩率的材料为后辅助密封,以补偿温度变化引起的胀缩。

Fixed(metal seal)ball valve adopts high elastic material with high compression ratio as auxiliary seal to compensate expansion and shrink caused by change of temperature.

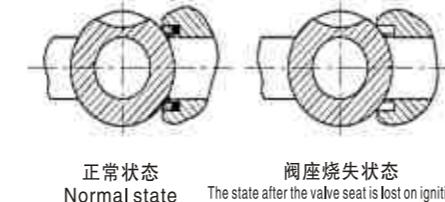
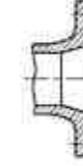
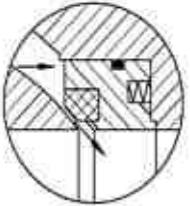


在阀门的全开或全闭位置上设置锁定孔,在没有批准不得操作的场合下进行加锁。起到安全、保险作用。

Set up locking hole on the fully-open or fully-close position of the valve and add perform locking up on the occasion that operation is forbidden without authority, thus ensuring safety and security.

球阀工作时,由于球体和阀座之间的摩擦,会产生静电荷并积聚在球体,为防止产生静电火花特在阀杆上设置防静电装置,将积聚在球体上的静电导出。

When working of ball valve,there will be static electricity accumulation on the ball due to the friction between the ball and the valve seat.In order to avoid the occurrence of static electricity spark,an anti-static electricity device should be set up on the valve stem to lead out the accumulated static electricity on the ball.



阀体中腔出现异常升压时,阀座装置上的弹簧或板簧被压缩,从而自动泄压,确保安全(此结构适合于弹簧、板簧为辅助密封补偿的固定式球阀)。

When the pressure in the middle cavity of the valve body abnormally rises,the spring or plate spring on the valve seat will be compressed,thus realizing automatic relief pressure and ensuring safety(this structure is suitable for the fixed ball valve taking spring, plate spring as auxiliary sealing compensation.)

为满足用户的不同需要,本公司球阀有全通径和缩径两种系列,缩径球阀为喇叭口形,重量相对较轻,其流阻公为相同通径截止阀的 $1/7$ 左右。

In order to meet the user's different demands,the ball valves made by our company have two series as full-diameter and reducing. Reducing ball valve is ball mouth in shape, and relatively light. The flow resistance is about $1/7$ of that of the sluice valve with same diameter.

根据用户要求,采用防火结构(浮动球),如果发生火灾,阀座烧失,球体受压力的影响而移位,封闭管道。

On users'require, adopt fireproof structure(floating ball),in case the valve seat is lost on ignition due to a fire accident,the ball will move and close the pipeline under the effect of pressure.



主要特点及用途 Main Feature and Use

球阀的主要特点是本身结构紧凑,密封可靠,结构简单,维修方便,密封面与球面常在闭合状态,不易被介质冲蚀,易于操作和维修,适用于水、溶剂、酸和天然气等一般工作介质,而且还适用于工作条件恶劣的介质,如氧气、过氧化氢、甲烷和乙烯等,在各行业得到广泛的应用。

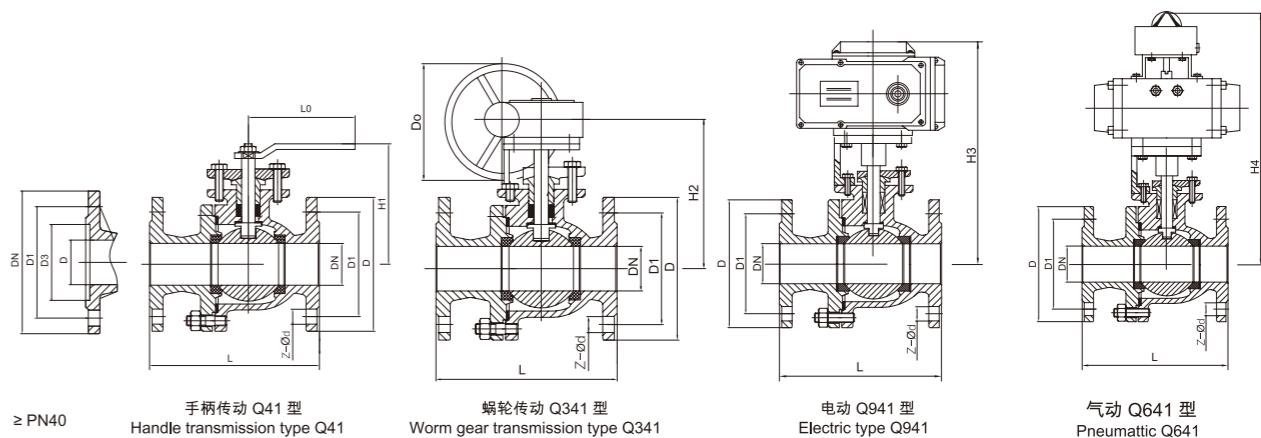
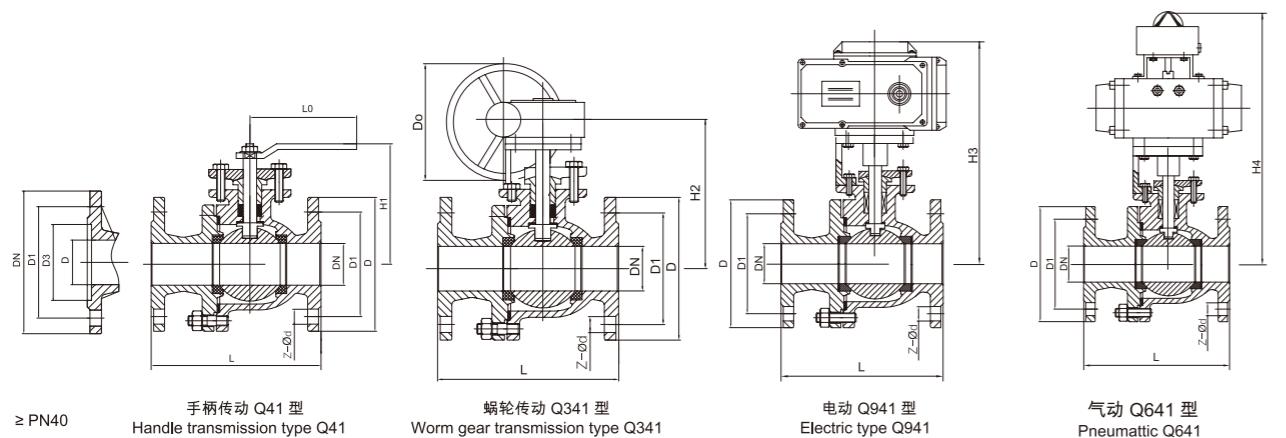
Ball valve features simple and compact structure, high sealing reliability and easy operation and maintenance. In addition, the sealing surface and ball surface are normally closed, thus protecting the valve from being eroded by the medium. Ball valve is applicable to not only ordinary working media, such as water, solvents, acids and natural gas, but the media under poor working conditions, such as oxygen, hydrogen peroxide, methane and ethylene. Therefore, it is widely applied in many fields.

产品标准 Products standard

设计与制造 Digen and manufacture	结构长度 Face-to-face dimension	法兰连接尺寸 Flange dimension	压力试验 Pressure test
GB/T 12237 API 608	GB/T 12221 ASME B16.10	GB/T 9113 ASME B16.25	GB/T 13927 API 598

主要零部件材料及适用范围 Main parts material and application range

名称 Name	材 料 Material		
阀体 Body	WCB	CF8	CF8M
球体 Ball	2Cr13	304	316
阀杆 Shaft	2Cr13	304	316
阀座 Seat	聚四氟乙烯 (PTFE) ; 对位聚苯 (PPL) ;304;304+STL		
填料 Packing	聚四氟乙烯 (PTFE) ;柔性石墨 ;碳纤维 Gentle graphite,Carbon fiber		
适用介质 Suitable medium	水、蒸汽、油品等 Water,Steam,Oil	弱腐蚀性介质 Weak Corrosive media	腐蚀性介质 Corrosive media
适用温度 Suitable temperature	PTFE \leq 200°C ; PPL \leq 300°C ; 304/304+STL \leq 600°C		



PN16/PN25 主要外形与连接尺寸 Main figureation and Connecting Size

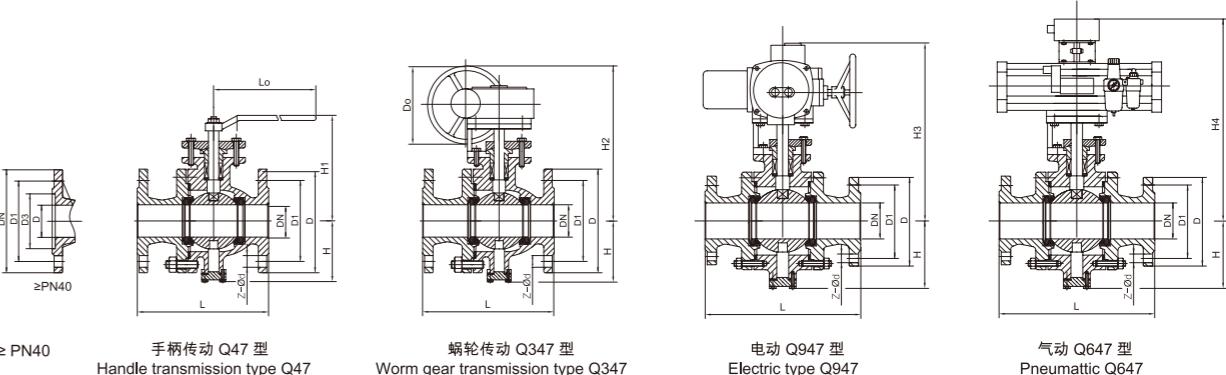
DN	L	法兰连接尺寸 Flange dimension						外形尺寸 Outline Size					
		PN16			PN25			手柄 Handle		蜗轮 Worm gear		电动 Electric	气动 Pneumatic
		D	D1	Z-φd	D	D1	Z-φd	H1	L0	H2	D0	H3	H4
15	130	95	65	4-14	95	65	4-14	60	108				
20	140	105	75	4-14	105	75	4-14	64	120				
25	150	115	85	4-14	115	85	4-14	90	165			206	346
32	165	140	100	4-18	140	100	4-18	105	180			210	350
40	180	150	110	4-18	150	110	4-18	150	240	340	160	218	3921
50	200	165	125	4-18	165	125	4-18	190	240	350	160	226	396
65	220	185	145	8-18	185	145	8-18	195	320	358	160	235	460
80	250	200	160	8-18	200	160	8-18	215	350	460	250	250	480
100	280	220	180	8-18	235	190	8-22	250	400	490	250	272	550
125	320	250	210	8-18	270	220	8-26	280	500	540	400	284	570
150	360	285	240	8-22	300	250	8-26	320	600	580	400	305	620
200	400	340	295	12-22	360	310	12-26	370	800	600	400	335	665
250	550	405	355	12-26	425	370	12-30	440	880	620	500	355	702

PN40/PN63 主要外形与连接尺寸 Main figureation and Connecting Size

DN	法兰连接尺寸 Flange dimension						外形尺寸 Outline Size								
	D3	PN40			PN63			手柄 Handle		蜗轮 Worm gear		电动 Electric	气动 Pneumatic		
		L	D	D1	Z-φd	L	D	D1	Z-φd	H1	L0	H2	D0	H3	H4
15	40	130	95	65	4-14	165	105	75	4-14	60	108				
20	51	140	105	75	4-14	190	130	90	4-18	64	120				
25	58	150	115	85	4-14	216	140	100	4-18	90	165		206	346	
32	66	165	140	100	4-18	229	155	110	4-22	105	180		210	350	
40	76	180	150	110	4-18	241	170	125	4-22	150	240	340	160	218	3921
50	88	200	165	125	4-18	292	180	135	4-22	190	240	350	160	226	396
65	110	220	185	145	8-18	330	205	160	8-22	195	320	358	160	235	460
80	121	250	200	160	8-18	356	215	170	8-22	215	350	460	250	250	480
100	150	280	235	190	8-22	432	250	200	8-26	250	400	490	250	272	550
125	176	320	270	220	8-26	508	295	240	8-30	280	500	540	400	284	570
150	204	360	300	250	8-26	559	345	280	8-33	320	600	580	400	305	620
200	260	400	375	295	12-30	660	415	345	12-36	370	900	600	400	335	665

美标球阀主要外形与连接尺寸 Main shape and connection dimension of American standard ball valve

磅级 Class	规格 Size		尺寸 Dimension							
	DN	NPS	L		D	D1	D2	b	f	Z-d0
150LB	15	1/2	108	119	89	60.5	35	11.5	1.6	4-15
	20	3/4	117	130	98	70	43	11.5	1.6	4-15
	25	1	127	140	108	79.5	51	12	1.6	4-15
	32	1-1/4	140	153	117	89	64	13	1.6	4-15
	40	1-1/2	165	178	127	98.5	73	15	1.6	4-15
	50	2	178	191	152	120.5	92	16	1.6	4-19
	65	2-1/2	190	203	178	139.7	105	18	1.6	4-19
	80	3	203	216	190	152.5	127	19	1.6	4-19
	100	4	229	242	229	190.5	157	24	1.6	8-19
	125	5	256	369	254	215.9	186	24	1.6	8-22
300LB	150	6	394	407	279	241.5	261	26	1.6	8-22
	200	8	457	470	343	298.5	270	29	1.6	8-22
	250	10	533	546	406	362	324	31	1.6	12-25
	15	1/2	140	151	95	66.5	35	14.3	1.6	4-15
	20	3/4	152	165	117	82.5	43	15.9	1.6	4-19
	25	1	165	178	124	89	51	17.5	1.6	4-19
	32	1-1/4	178	191	133	98.5	64	19.1	1.6	4-19
	40	1-1/2	190	203	156	114.5	73	20.7	1.6	4-22
	50	2	216	232	165	127	92	22	1.6	8-19
	65</									



主要特点及用途 Main Feature and Use

固定球阀适用于长输管线和一般工业管线，其强度、安全性、耐恶劣环境性等在设计时进行了特殊考虑，适用于各种腐蚀性和非腐蚀性介质。此阀一般水平安装。球阀可以设计成防静电、耐火、自动泄压、注脂、限位锁定等结构以满足客户使用要求。

Fixed ball valve is applicable to long-distance pipelines and common industrial pipelines. With special design in respect of strength, safety and resistance to severe environment, it can be used in all kinds of corrosive media and non-corrosive media. In general, fixed ball valve is installed horizontally. To meet the specific requirements of customers, the ball valve can be specially designed with anti-static structure, fire-proof structure, self-relieving structure, injection mechanism and locking block.

产品标准 Products standard

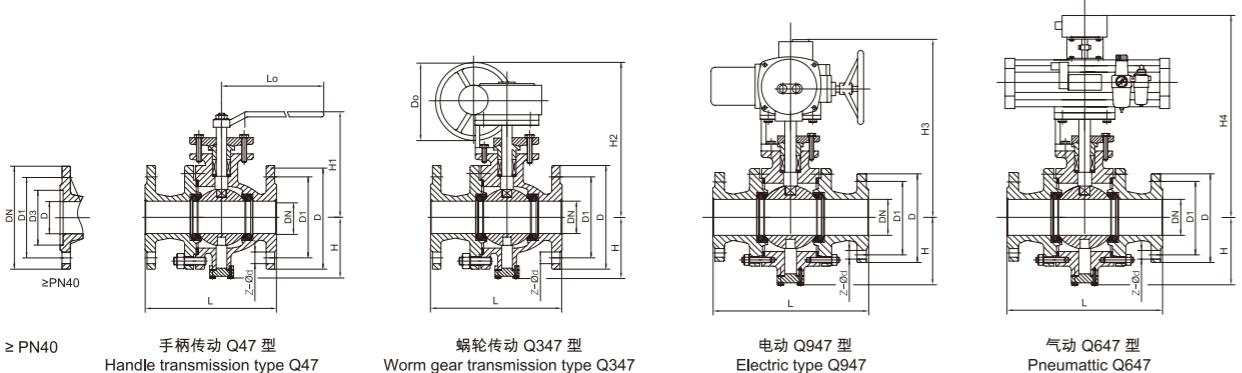
设计与制造 Digen and manufacture	结构长度 Face-to-face dimension	法兰连接尺寸 Flange dimension	压力试验 Pressure test
GB/T 12237 API 608	GB/T 12221 ASME B16.10	GB/T 9113 ASME B16.25	GB/T 13927 API 598

主要零部件材料及适用范围 Main parts material and application range

名称 Name	材料 Material		
阀体 Body	WCB	CF8	CF8M
球体 Ball	2Cr13	F304	F316
阀杆 Shaft	2Cr13	F304	F316
阀座 Seat	聚四氟乙烯 (PTFE) ; 对位聚苯 (PPL) ;304;304+STL		
填料 Packing	聚四氟乙烯 (PTFE) ;柔性石墨 ;碳纤维 Gentle graphite,Carbon fiber		
材料代号 Material code	C	P	R
适用介质 Suitable medium	水、蒸汽、油品等 Water,Steam,Oil	弱腐蚀性介质 Weak Corrosive media	腐蚀性介质 Corrosive media
适用温度 Suitable temperature	PTFE ≤ 200°C ; PPL ≤ 300°C ; 304/304+STL ≤ 600°C ;		

Class150 LB/300LB 主要外形与连接尺寸 Main figureation and Connecting Size

磅级 Class	尺寸 Dimension								
	DN	NPS	L	D	D1	D2	b	f	Z-d
150LB	50	2	178	152	120.5	92	16	1.6	4-19
	65	2-1/2	190	178	139.7	105	18	1.6	4-19
	80	3	203	190	152.5	127	19	1.6	4-19
	100	4	229	229	190.5	157	24	1.6	8-19
	125	5	256	254	215.9	186	24	1.6	8-22
	150	6	394	279	241.5	261	26	1.6	8-22
	200	8	457	343	298.5	270	29	1.6	8-22
	250	10	533	406	362	324	31	1.6	12-25
	300	12	610	483	431.8	381	31.8	1.6	12-25
	350	14	686	533	476.2	412.8	35	1.6	12-28.5
	400	16	762	597	539.8	469.9	36.6	1.6	16-28.5
	450	18	864	635	577	533.4	39.7	1.6	16-31.8
	500	20	914	589	635	584.2	42.9	1.6	20-31.8
	600	24	1067	813	749.3	692.2	47.7	1.6	20-35
	700	28	1245	837	795.5	762	43	1.6	40-22
	800	32	1372	887	900	864	44	1.6	48-22
	900	36	1524	1057	1009.5	972	51	1.6	44-26
300LB	50	2	216	165	127	92	22	1.6	8-19
	65	2-1/2	241	190	149	105	25	1.6	8-22
	80	3	283	210	168	170	29	1.6	8-22
	100	4	305	254	200	157	32	1.6	8-22
	125	5	381	279	235	186	35	1.6	8-22
	150	6	403	318	270	216	37	1.6	12-22
	200	8	502	381	330	270	41	1.6	12-25
	250	10	568	444	387.4	324	47.6	1.6	16-28.5
	300	12	648	521	450.8	381	50.8	1.6	16-31.8
	350	14	762	584	514.4	412.8	53.8	1.6	20-31.6
	400	16	838	648	571.5	469.9	57.2	1.6	20-35
	450	18	814	713	628.6	533.4	60.5	1.6	24-35
	500	20	991	775	685.8	584.2	63.5	1.6	24-35
	600	24	1143	914	812.8	692.2	69.9	1.6	24-41.1
	700	28	1346	921	857	787	87	1.6	36-35.5
	800	32	1527	1054	978	902	102	1.6	32-42
	900	36	1727	1172	1089	1010	102	1.6	32-45



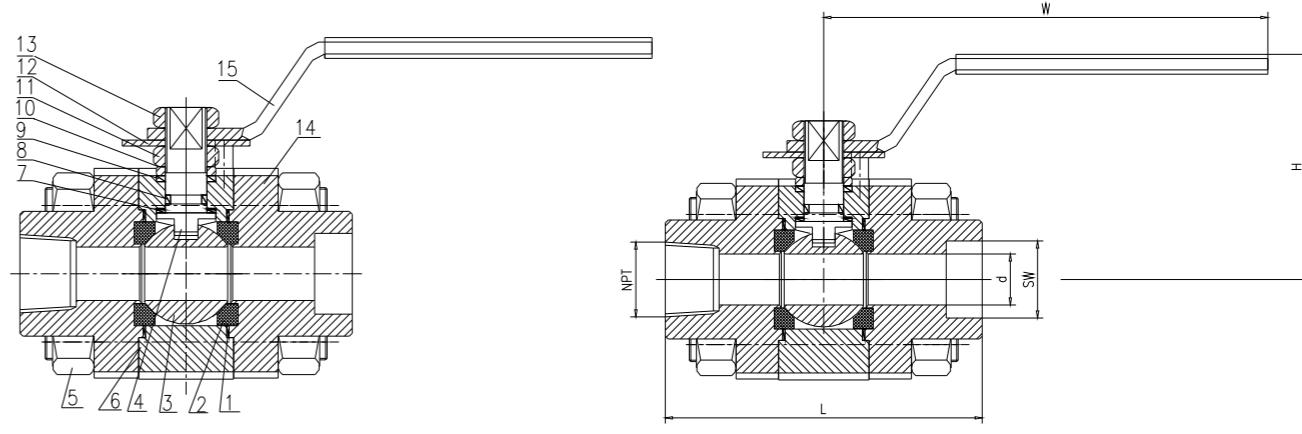
PN16/PN25 主要外形与连接尺寸 Main configuration and Connecting Size

DN	法兰连接尺寸 Flange dimension								外形尺寸 Outline Size								
	PN10				PN16				H	手柄 Handle		蜗轮 Worm gear		电动 Electric		气动 Pneumatic	
	L	D	D1	Z-φd	L	D	D1	Z-φd		H1	L0	H2	D0	H3	H4		
50	216	165	125	4-18	216	165	125	4-18	102	106	230	186	160	460	275		
65	241	185	145	8-18	241	185	145	8-18	114	125	400	210	160	475	379		
80	283	200	160	8-18	283	200	160	8-18	127	152	400	280	250	480	389		
100	305	220	180	8-18	305	235	190	8-22	152	178	650	306	250	490	480		
125	356	250	210	8-18	381	270	220	8-26	184	300	1050	500	400	530	552		
150	394	285	240	8-22	403	300	250	8-26	219	330	1050	530	400	550	666		
200	457	340	295	12-22	502	360	310	12-26	273	398	1200	596	400	600	736		
250	533	405	355	12-26	568	425	370	12-30	360			760	600	652	926		
300	610	460	410	12-26	648	485	430	16-30	395			880	600	760	1060		
350	686	520	470	16-26	762	555	490	16-33	430			970	700	770	1127		
400	762	580	525	16-30	838	620	550	16-36	470			1050	700	830	1205		
500	914	715	650	20-33	991	730	660	20-36	580			1190	700	940	1250		
600	1067	840	770	20-36	1143	845	770	20-39	700			1450	800	1020	1295		
700	1245	910	840	24-36	1346	960	875	24-42	800			1550	800	1115	1390		
800	1372	1025	950	24-39	1524	1085	990	24-48	930			1660	800	1220	1470		

PN40/PN63 主要外形与连接尺寸 Main configuration and Connecting Size

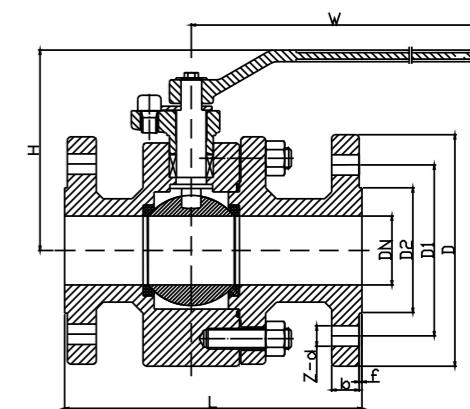
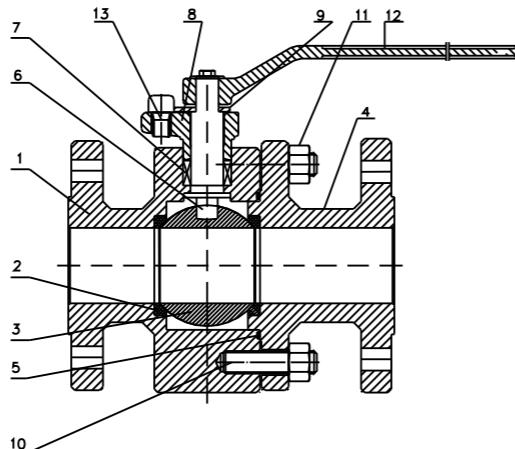
DN	L	PN40				PN63				H	手柄 Handle		蜗轮 Worm gear		电动 Electric		气动 Pneumatic	
		D	D1	D3	Z-φd	D	D1	D3	Z-φd		H1	L0	H2	D0	H3	H4		
50	216	165	125	88	4-18	180	135	88	4-22	102	106	230	186	160	460	275		
65	241	185	145	110	8-18	205	160	110	8-22	114	125	400	210	160	475	379		
80	283	200	160	121	8-18	215	170	121	8-22	127	152	400	280	250	480	389		
100	305	235	190	150	8-22	250	200	150	8-26	152	178	650	306	250	490	480		
125	381	270	220	176	8-26					184	300	1050	500	400	630	552		
150	403	300	250	204	8-26	345	280	204	8-33	219	330	1050	530	400	760	666		
200	502	375	320	260	12-30	415	310	260	12-36	273	398	1200	696	600	820	895		
250	568	450	385	313	12-33	470	345	313	12-36	360			760	600	870	1002		
300	648	515	450	364	16-33	530	370	364	16-36	395			880	600	905	1060		
350	762	580	510	422	16-36	600	400	422	16-39	430			1090	800	940	1150		
400	838	660	585	474	16-39	670	460	474	16-42	470			1210	800	1010	1205		
500	991	755	670	576	20-42					580			1320	800	1115	1250		
600	1143	890	795	676	20-48					700			1450	800	1180	1295		

锻钢螺纹球阀
Forged steel threaded ball valve



主要零件名称及材料 Main part name and material:

序号 NO.	零件名称 Parts name	材料 Material				
		A105	F304	F316	F316L	
1	垫片 Gasket	PTFE、O-Ring、Graphite				
2	阀座 Seat	PTFE、RPTFE、NYLON、304+STL、316+STL、316L+STL				
3	球体 Ball	SS304	SS304	SS316	SS316L	
4	阀杆 Stem	SS304	SS304	SS316	SS316L	
5	螺母 Nut	A193 B7	A193 B8	A193 B8M	A193 B8M	
6	阀体 Body	SS304	SS304	SS316	SS316L	
7	垫片 Gasket	PTFE	PTFE	PTFE	PTFE	
8	垫片 Gasket	PTFE	PTFE	PTFE	PTFE	
9	填料 Filler	柔性石墨 Flexible graphite				
10	压套 Compression sleeve	SS304	SS304	SS316	SS316L	
11	螺母 Nut	A193 B7	A193 B8	A193 B8M	A193 B8M	
12	定位片 Positioning pieces	A283D、STAINLESS、STEEL				
13	螺母 Nut	A193 B7	A193 B8	A193 B8M	A193 B8M	
14	阀盖 Cover	A105	F304	F316	F316L	
15	手柄 Handle	A283D、STAINLESS、STEEL				



产品执行标准 Product performance standards:

设计与制造 Design manufacture	结构长度 Structure length	焊接连接 Welded connection	法兰尺寸 Flange size	检验与实验 Inspection experiment
ASME B16.34	ANSI B16.10	ASME B16.25	ANSI B16.5	API 598

主要零件名称及材料 Main part name and material:

序号 NO.	零件名称	材料 Material				
		Parts name	ASTM A105	A182 F304	A182 F316	A182 F316L
1	阀体 Body	ASTM A105	A182 F304	A182 F316	A182 F316L	
2	阀座 Seat		PTFE、RPTFE、NYLON、STL			
3	球体 Ball	SS304	SS304	SS316	SS316L	
4	阀盖 Cover	ASTM A105	A182 F304	A182 F316	A182 F316L	
5	垫片 Gasket		PTFE、柔性石墨 Flexible Graphite			
6	阀杆 Stem	SS304	SS304	SS316	SS316L	
7	填料 Filler		柔性石墨 Flexible Graphite			
8	压套 Compression sleeve	SS304	SS304	SS316	SS316L	
9	定位片 Positioning pieces		A283D、STAINLESS、STEEL			
10	螺栓 Bolt	A192 2H	A194 8	A194 8M	A194 8M	
11	螺母 Nut	A193 B7	A193 B8	A193 B8M	A193 B8M	
12	手柄 Handle		A283D、STAINLESS、STEEL			
13	螺钉 Screw	A193 B7	A193 B8	A193 B8M	A193 B8M	

主要连接尺寸 Main connection size:

磅级 Class	规格 Size		尺寸 Dimension							Z-d
	DN	NPS	L		D	D1	D2	b	f	
150LB	15	1/2	108	119	89	60.5	35	11.5	1.6	4-15
	20	3/4	117	130	98	70	43	11.5	1.6	4-15
	25	1	127	140	108	79.5	51	12	1.6	4-15
	32	1-1/4	140	153	117	89	64	13	1.6	4-15
	40	1-1/2	165	178	127	98.5	73	15	1.6	4-15
	50	2	178	191	152	120.5	92	16	1.6	4-19
	65	2-1/2	190	203	178	139.7	105	18	1.6	4-19
	80	3	203	216	190	152.5	127	19	1.6	4-19
300LB	100	4	229	242	229	190.5	157	24	1.6	8-19
	15	1/2	140	151	95	66.5	35	14.3	1.6	4-15
	20	3/4	152	165	117	82.5	43	15.9	1.6	4-19
	25	1	165	178	124	89	51	17.5	1.6	4-19
	32	1-1/4	178	191	133	98.5	64	19.1	1.6	4-19
	40	1-1/2	190	203	156	114.5	73	20.7	1.6	4-22
	50	2	216	232	165	127	92	22	1.6	8-19
	65	2-1/2	241	257	190	149	105	25	1.6	8-22
600LB	80	3	283	299	210	168	170	29	1.6	8-22
	100	4	305	321	254	200	157	32	1.6	8-22
	15	1/2	165	165	95	66.5	35	14.3	6.4	4-16
	20	3/4	190	190	118	82.5	43	15.9	6.4	4-19
	25	1	216	216	124	89	51	17.5	6.4	4-19
	32	1-1/4	229	229	133	98.5	64	21	6.4	4-19
	40	1-1/2	241	241	156	114.5	73	22.3	6.4	4-22
	50	2	292	292	165	127	92	25.4	6.4	8-19
800LB	65	2-1/2	330	333	190	149	105	29	6.4	8-22
	80	3	356	359	210	168	127	32	6.4	8-22
	100	4	432	435	273	216	157.2	38.5	6.4	8-25



主要特点及用途 Main Feature and Use

流体阻力小，其阻力系数与同长度的管段相等。

结构简单、体积小、重量轻。

紧密可靠，目前球阀的密封面材料广泛使用塑料，密封性好，在真空系统中也已广泛使用。

操作方便，开闭迅速，从全开到全关只要旋转 90°，便于远距离的控制。

维修方便，球阀结构简单，密封圈一般都是活动的，拆卸更换都比较方便。

在全开或全闭时，球体和阀座的密封面与介质隔离，介质通过时，不会引起阀门密封面的侵蚀。

可设置 90°开关定位机构，根据需要加锁以防止误操作，驱动方式：手动、电动、气动。

Small fluid resistance. Its resistance coefficient is equal to that of the pipe of the same length.

Simple, small and light.

Tight and reliable. The sealing surface materials of the ball valve are plastics with good tightness; hence, the ball valve can be also widely used in vacuum systems.

Easily operated and quickly opened/closed. It can be turned from "fully-open" state to "fully-closed" by rotation by 90°, which is beneficial for remote control.

Easy maintenance. The ball valve is of simple structure and movable seal ring; therefore, it can be easily disassembled and replaced.

At the "fully-opened" or "fully-closed" state, the sealing surface of the ball and valve seat is separated from the medium. Therefore, the medium passing through the valve will not erode the sealing surface.

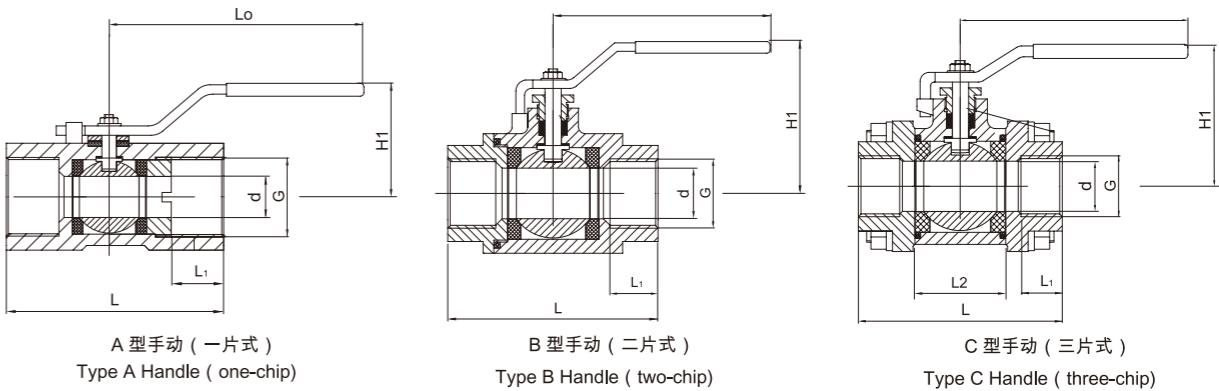
The ball valve can be equipped with a 90° switch positioning mechanism and when necessary, provided with a lock to avoid misoperation. Drive mode: manual drive, dynamic drive and pneumatic drive.

产品标准 Products standard

设计与制造 Digen and manufacture	结构长度 Face-to-face dimension	内螺纹连接尺寸 Thread connection size	压力试验 Test and inspection
GB/T 12237、GB/T 12224	GB/T 12221	GB/T 7307	GB/T 13927

主要零部件材料及适用范围 Main parts material and application range

名称 Name	材料 Material		
阀体 Body	WCB	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
球体 Ball	2Cr13	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
阀杆 Shaft	2Cr13	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
阀座 Seat	聚四氟乙烯 (PTFE)；对位聚苯 (PPL)		
填料 Packing	聚四氟乙烯 (PTFE)；柔性石墨；碳纤维 Gentle graphite,Carbon fiber		
适用介质 Suitable medium	水、蒸汽、油品等 Water,Steam,Oil	弱腐蚀性介质 Weak Corrosive media	腐蚀性介质 Corrosive media
适用温度 Suitable temperature	PTFE ≤ 150°C ; PPL ≤ 300°C		



A型 Q11F-16~25C P.R 主要外形与连接尺寸 Main figureation and Connecting Size

DN	8	10	15	20	25	32	40	50
G/in	G 1/4	G 3/8	G 1/2	G 3/4	G 1	G1 1/4	G 1 1/2	G 2
L	39	44	57	59	71	78	83	100
L1	10	10	13	13	15	17	17	19
D	5	7	9	13	15	20	25	30
H1	53	35	44	47	55	61	75	82
Lo	70	70	90	90	110	110	140	140

B型 Q11F-16~40C P.R 主要外形与连接尺寸 Main figureation and Connecting Size

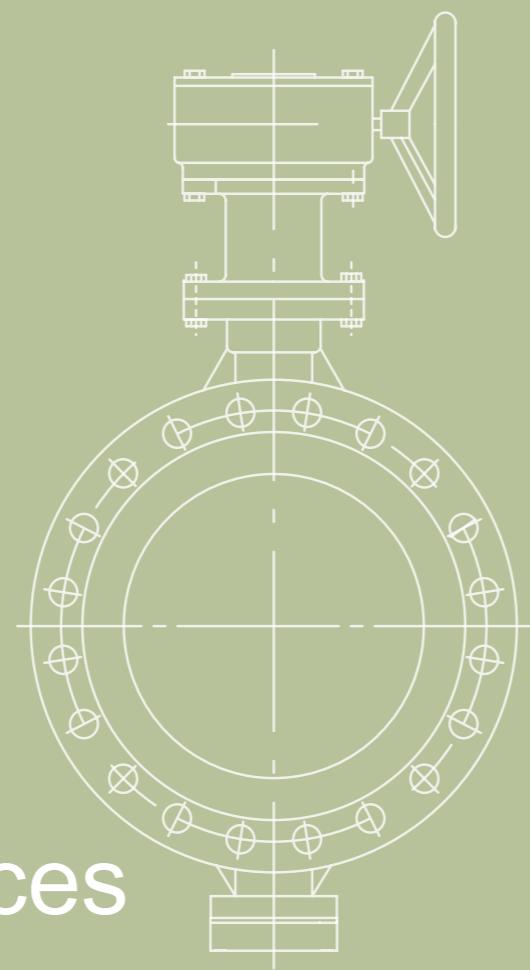
DN	8	10	15	20	25	32	40	50
G/in	G 1/4	G 3/8	G 1/2	G 3/4	G 1	G1 1/4	G 1 1/2	G 2
L	56	56	68	78	86	100	106	130
L1	11	11	14	15	16	19	20	21
D	11	12	13	15	20	25	30	38
H1	55	55	55	67	74	86	92	92
Lo	90	90	90	120	120	120	140	200

C型 Q11F-16~63C(P-R) 主要外形与连接尺寸 Main figureation and Connecting Size

DN	8	10	15	20	25	32	40	50
G/in	G 1/4	G 3/8	G 1/2	G 3/4	G 1	G1 1/4	G 1 1/2	G 2
L	65	65	72	85	92	110	123	142
L1	11	11	14	15	16	19	20	21
L2	21	21	25	31	36	44	54	69
d	411	12	15	20	25	30	38	50
H1	57	57	68	70	80	84	93	100
Lo	90	90	120	120	140	140	200	200

蝶阀系列

Butterfly valve Services



产品特点 Products Features:

- 蝶阀具有结构简单、体积小、重量轻、材料耗用省，安装尺寸小，开关迅速、90°往复回转，驱动力矩小等特点，用于截断、接通、调节管路中的介质，具有良好的流体控制特性和关闭密封性能。
 - 蝶阀可以运送泥浆，在管道口积存液体最少。低压下，可以实现良好的密封。调节性能好。
 - 蝶板的流线型设计，使流体阻力损失小，可谓是一种节能型产品。
 - 阀杆为通杆结构，经过调质处理，有良好的综合力学性能和抗腐蚀性，抗擦伤性。蝶阀启闭时阀杆只作旋转运动而不作升降运行，阀杆的填料不易破坏，密封可靠。与蝶板锥销固定，外伸端为防冲出型设计，以免在阀杆与蝶板连接处意外断裂时阀杆崩出。
 - 连接方式有法兰连接、对夹连接、对焊连接及凸耳对夹连接。
 - 驱动形式有手动、蜗轮传动、电动、气动、液动、电液联动等执行机构，可实现远距离控制和自动化操作。
1. Butterfly valve features in simple structure, small volume, light weight, small consumption of materials, small installation size, fast switching, 90° reciprocating rotary, small driving torque, etc., which is used for cutting off, connecting, adjusting the material in the pipeline. It has good characteristics of flow control and sealing performance.
2. Butterfly valve can be used for transporting slurry with the least accumulation of fluid in the pipe outlet. Under low pressure, it seals firmly and it has good adjustment performance.
3. The streamlined design of dished end lessens the fluid resistance, which could be called a kind of energy-saving product.
4. The valve stem has the structure of through rod. After thermal refining, it embraces sound integrated mechanical properties, corrosion resistance and scratch resistance. With butterfly valve opening and closing, the valve stem rotates without moving up or down. The stem stuffing is not easy to be damaged and enjoys a good sealing. It is fixed with the taper tin of the taper pin disc. The out-preventing design of the extended end prevents the valve stem popping out in case the junction of valve stem and taper pin disc collapses accidentally.
5. Connections include flanged, wafer, butt welded and lug wafer joints.
6. The driving models include manual, worm gear, electric, pneumatic, hydraulic, electro-hydraulic linkage forms and so on, which can realize remote control and automatic operation.

蝶阀型号编制 Butterfly valve model preparation

型号编制说明 Model Schedule illustration



- 阀门类型代号: D—蝶阀
Valve type code: D—Butterfly valve
- 驱动方式代号: 3—蜗轮蜗杆传动 6—气动 9—电动(手柄传动略)
Driving manner code: 3—Worm gear driving 6—Pneumatic driving 9—Electric driving(Hand wheel driving omitted)
- 连接形式代号: 4—法兰连接 6—焊接 7—对夹连接
Connecting type code: 4—Flange connecting 6—Welded connection 7—Wafer type connecting
- 结构形式代号: 1—单偏心结构 2—双偏心结构 3—三偏心结构 4—变偏心结构
Structure type code: 1—Single eccentric structure 2—Double eccentric structure 3—Three eccentric structure 4—Variable eccentric structure
- 密封面材质代号: X—橡胶 F—增强聚四氟乙烯 H—合金钢 W—本体不锈钢 Y—硬质合金
Sealing face material code: X—Rubber F—Polytetrafluoroethylene H—Alloy steel W—Stainless steel body Y—Hard alloy
- 压力等级代号: 公称压力为MPa的10倍、磅级为实际数
Pressure grade code: The 10 times of the nominal pressure MPa, pound grade is actual number
- 阀体材料代号: Z—HT200 C—WCB P—CF8、ZG1Cr18Ni9Ti R—CF8M、ZG1Cr18Ni12Mo2Ti
Body material code: Z—HT200 C—WCB P—CF8、ZG1Cr18Ni9Ti R—CF8M、ZG1Cr18Ni12Mo2Ti

例Example: D342Y-16P

注释: 蝶阀公称压力为1.6MPa、蜗轮传动、法兰连接、双偏心结构、阀体材质为CF8，密封面材质为硬质合金。

Note: 1.6Mpa nominal rating pressure, worm gear operated, flange connecting, double eccentric structure, CF8 valve body material, and hard alloy sealing material.

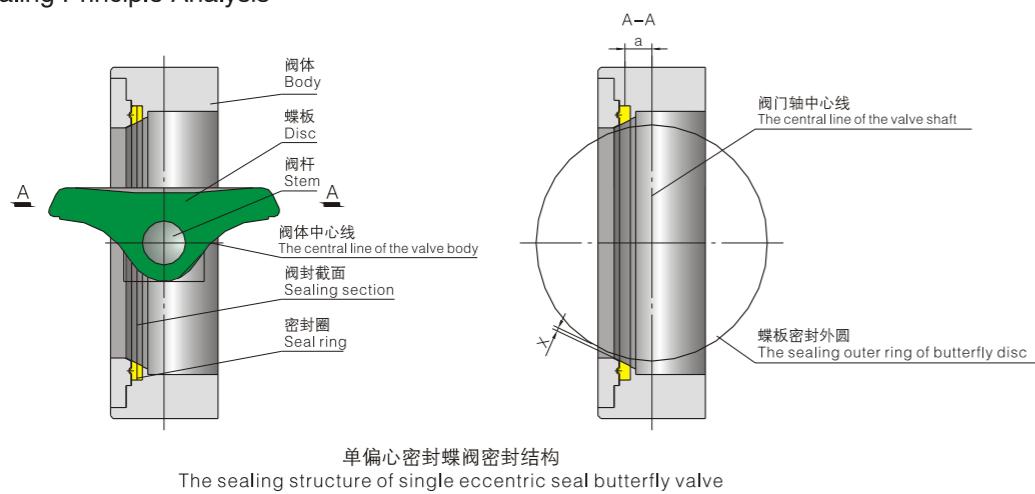
产品结构特点 Products Design Features

系列蝶阀适用于食品、饮料、医药、化工、工业环保水处理、高层建筑、给排水、燃气等管路作启闭或调节介质流量之用。主要结构特点有：

The series of butterfly valves can be applied to food, drinking, medicine, chemical industry, industrial environmental protection water treatment, high building construction, water supply & gas pipeline etc. They are used to open/close or adjust medium flow. The major structure features are as below.

- 1、结构简单、体积小、重量轻、安装尺寸小。
Simple structure, small volume, light weight, small installation dimension.
- 2、密封材料有软、硬两种，可用于各种不同的工况，且密封性能好，使用寿命长。
Having two kinds of sealing materials: soft and hard, they can be used in various working conditions, with good sealing performance, and long life application.
- 3、防火结构设计的蝶阀可防止火灾事故的扩大，一旦蝶阀的软密封阀座着火烧损后，不锈钢金属密封圈便发挥作用使蝶阀保持紧急密封。
Anti-fire designed butterfly valve can prevent the expanding of an accidental fire, once the soft sealing valve seat of the butterfly valve catches fire and damaged, the stainless steel seal ring will give play to make butterfly valve keep emergency sealed.
- 4、蝶阀在完全开启的情况下，流阻较小，部分开启的情况下能进行灵敏的流量控制。
When the butterfly valve fully opened, it has little flow resistance, and the flow can be controlled sensitively in the condition of the butterfly valve partially opened.
- 5、驱动力矩小、操作简便、迅速。
Small driving torque, convenient and quick operation.

密封原理分析 Sealing Principle Analysis

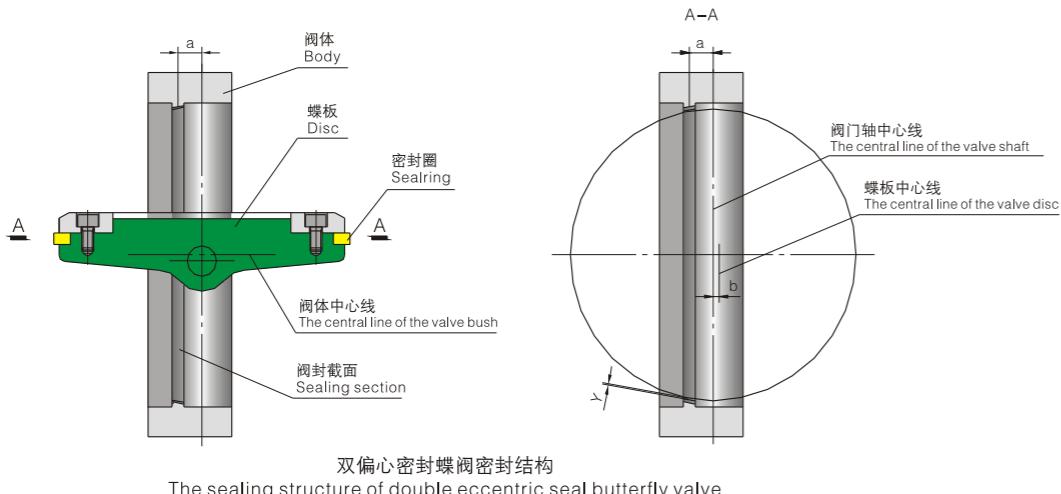


1、单偏心密封蝶阀的密封原理

由于蝶板的回转中心(即阀门轴中心)与蝶板密封截面按a偏心设置,使得蝶阀在开启过程中,蝶板密封面逐渐脱离阀座密封面,蝶板转动至 $20^\circ \sim 25^\circ$ 时,蝶板密封面完全脱离阀座密封面,完全开启时,两密封面之间形成间隙X,从而使得蝶阀在启闭过程中,两密封面之间相对机械磨损及挤压大为降低,从而保证了蝶阀的密封。

1. The sealing principle of single eccentric butterfly valve

As the center of gyration of the disc (the center of valve spindle) and the sealing section of the disc are set up in eccentric(a), it makes the sealing section of the disc gradually separate from the sealing section of the valve seat in the course of opening the butterfly valve, when the disc revolves to $20^\circ \sim 25^\circ$, the sealing section of disc will completely brake away from the sealing section of the valve seat, and when completely opened, a gap X will be formed in two sealing sections, thus making the relative mechanical wear and extrusion decrease between two sealing section, and ensure the seal of butterfly valve.



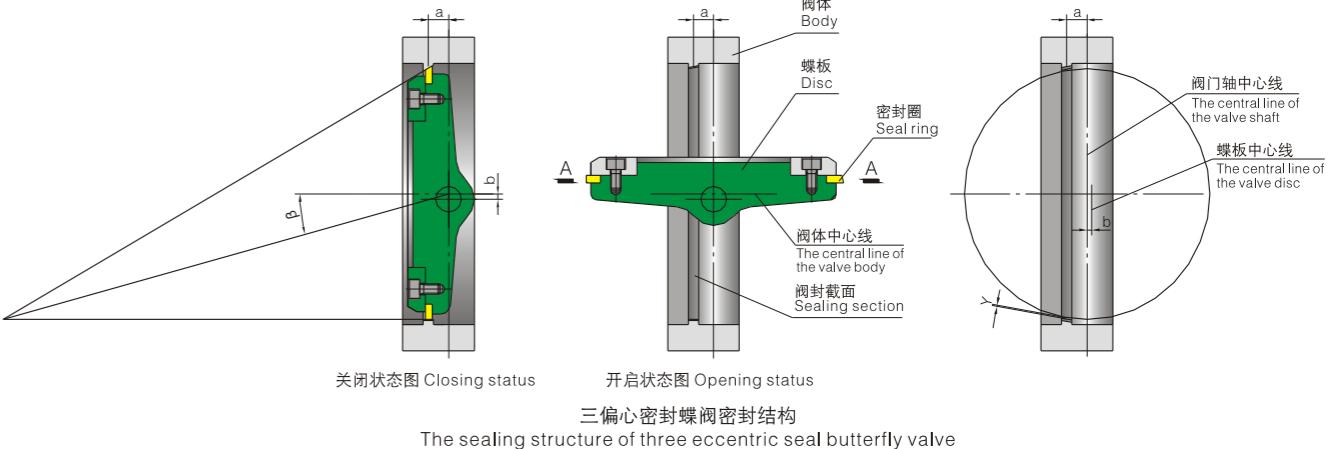
2、双偏心密封蝶阀的密封原理

由于在单偏心蝶阀的基础上将蝶板的回转中心(即阀门轴中心)与阀体中心线形成尺寸b偏置,使得蝶阀在开启过程中,蝶板的密封面会比单偏心密封蝶阀更快地脱离阀座密封面,蝶板转动至 $8^\circ \sim 12^\circ$ 时,蝶板密封面完全脱离阀座密封面,完全开启时,两密封面之间形成一个更大的间隙Y,该类蝶阀的设计,大大降低了两密封面之间的机械磨损及挤压变形,使蝶阀的密封性能更为提高。

2. The sealing principle of double eccentric seal butterfly valve

As making the centre of gyration of the disc (the centre of the valve spindle) form a polarization in size(b) with the central line of the valve bush, based on the single eccentric butterfly valve, which makes the sealing section of the disc brake away from the sealing section of the valve seat quicker than the single eccentric seal butterfly valve does, in the course of opening the butterfly valve, when the disc revolves to $8^\circ \sim 12^\circ$, the sealing section of the disc will completely brake away from the sealing section of the valve seat, and when completely opened, a bigger gap Y will be formed in two sealing sections. The design of this kind of butterfly valve can greatly decrease the mechanical wear and extrusion and deformation, and improve the sealing performance much higher.

密封原理分析 Sealing Principle Analysis

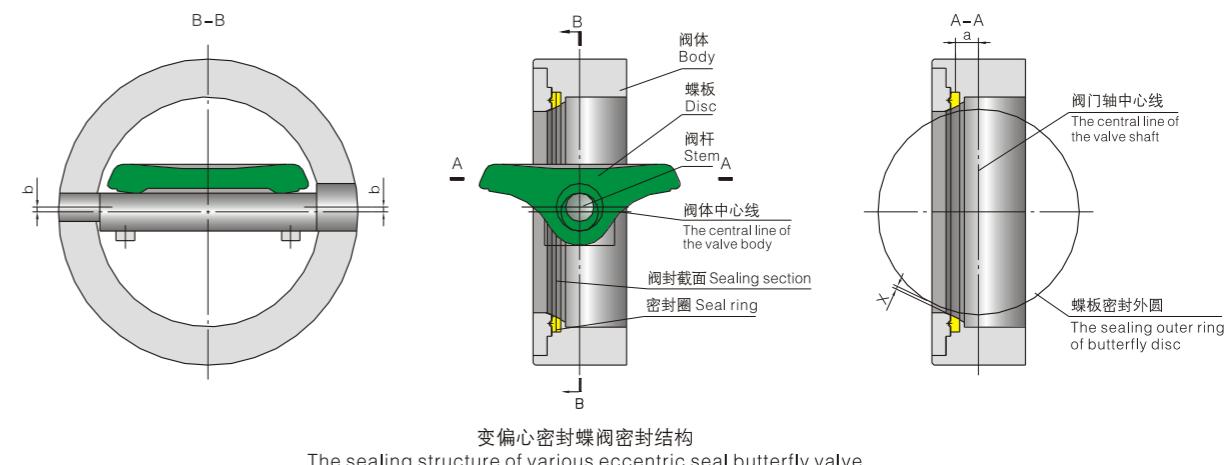


3、三偏心密封蝶阀的密封原理

由于在双偏心蝶阀的基础上将阀座中心线再与阀体中心线形成一个 β 角偏置,使得蝶阀在开启过程中,蝶板的密封面在开启瞬间立即脱离阀座密封面,而在关闭瞬间才会接触并压紧阀座密封面。当完全开启时,两密封面之间形成一个与双偏心密封蝶阀相同间隙Y,该类蝶阀的设计,彻底消除了两密封面之间的机械磨损和擦伤,使蝶阀的密封性能和使用寿命都得到大大提高。

3. The sealing principle of three eccentric butterfly valve

As making the central line of the valve seat form a polarization in angle β with the central line of the valve bush, based on the double eccentric butterfly valve, which makes the sealing section of the disc immediately brake away from the sealing section of the valve seat at the moment of opening, and contact the sealing section of the valve seat at the moment of closing, during the course of opening and closing. When completely opened, a gap Y same to the double eccentric seal butterfly valve will be formed in the two sealing sections. The design of this kind of butterfly valve can completely remove the mechanical wear and scratch between the two sealing section, and greatly improve the sealing performance and service life.

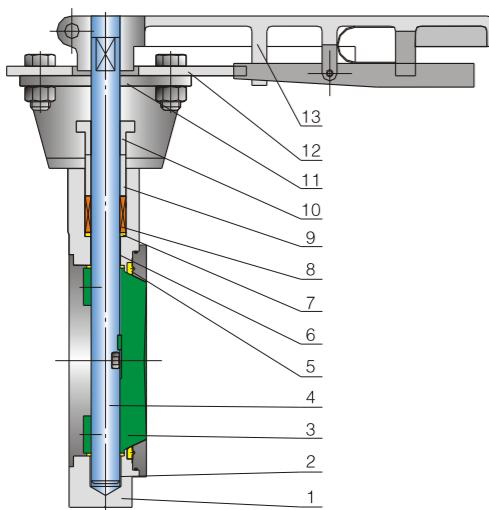
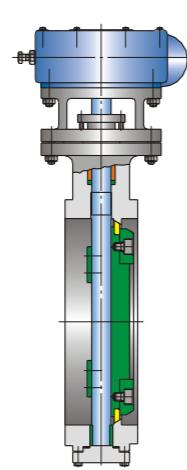
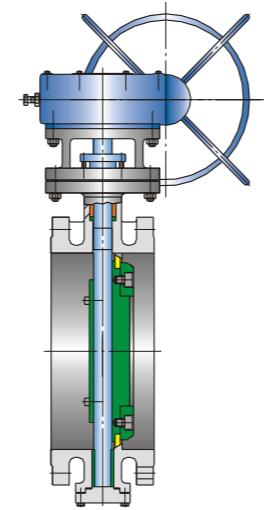
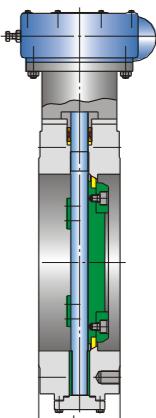
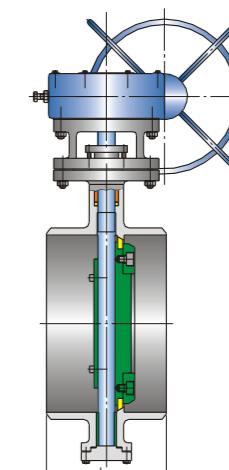
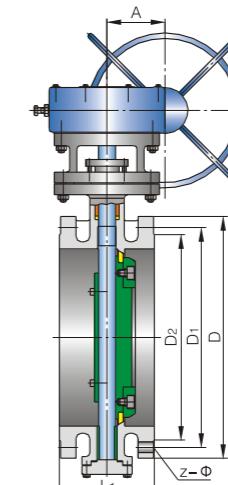
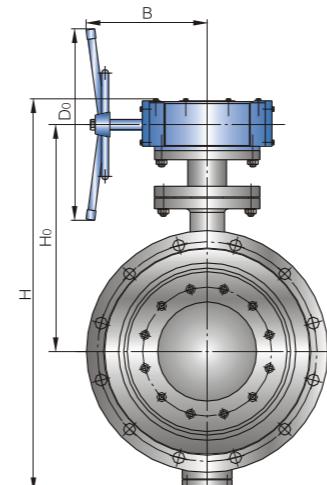


4、变偏心密封蝶阀的密封原理

变偏心蝶阀的独特之处在于安装蝶板的阀杆轴是一个三段轴式结构,此三段轴式阀杆两段轴段同心,而中间段轴中心线与两端轴线偏离一个中心距,蝶板就安装在中间轴段上。这样的偏心结构使得蝶板在全开位置时成为双偏心状,而在蝶板转动到关闭位置时则成为单偏心状。由于偏心轴的作用,在接近关闭时,蝶板向阀座的密封锥面内移进一个距离,蝶板与蝶座的密封面相吻合达到可靠的密封性能。

4. The sealing principle of the various eccentric seal butterfly valve

The unique feature of various eccentric butterfly valve is the valve handle shaft for installation of the disc, with a structure of three-parts style, There are two parts with a concentric shaft, of the valve handle in three-parts style, but the central line of the middle shaft is a centerline spacing away from the shaft line of the both sides, and the disc is installed in the part of the middle shaft. This eccentric structure can make the disc be in the type of the double eccentric at the situation of fully opened, but in the single eccentric type when the disc is revolved. When approaching closing, the disc will move a distance towards the sealing conic section, and the sealing section of the disc and valve seat is in the reliability of sealing performance, because of the function of the eccentric shaft.

手动蝶阀
Manual Operated Butterfly Valve蜗轮传动对夹式蝶阀
Worm Driven Wafer type Butterfly Valve蜗轮传动对夹式蝶阀
Worm Driven Flanged Butterfly Valve

产品采用标准 Technical Specification

结构形式 Structural feature	单偏心、双偏心、三偏心、变偏心 Single eccentric structure、Double eccentric structure、Three eccentric structure、Variable eccentric structure	
设计依据 Design reference	GB	API
驱动方式 Driving manner	手动、蜗轮蜗杆传动、气动、电动 Lever operated, wormgear operated, pneumatic operated, electric operated	
设计标准 Design standard	GB/T 12238	API 609、MSS SP-68
结构长度 Face to face	GB/T 12221	ASME B16.10、API 609、MSS SP-68
连接法兰 Flanged ends	JB/T 79、JB/T 82、GB/T9115	ASME B16.5、ASME B16.47
试验和检验 Test & inspection	JB/T 9092	API 598

注：阀门连接法兰及对焊端尺寸可根据用户要求设计制造。

Note: The dimensions of connecting flanged and butt-welding ends can be designed according to customer's requirement.

主要零件材料 Major Parts Material Form

序号 No.	零件名称 Parts name	材 质 Material	序号 No.	零件名称 Parts name	材 质 Material
1	阀体 Body	WCB、CF8、CF8M、CF3、CF3M	8	填料 Packing	柔性石墨 Graphite
2	轴套 Bush	Cu、PTFE+SS不锈钢	9	填料压盖 Packing cover	2Cr13、ASTM A276-420
3	蝶板 Disc	WCB、CF8、CF8M、CF3、CF3M	10	填料压套 Gland	WCB、CF8、CF8M
4	阀杆 Stem	1Cr13、2Cr13、1Cr18Ni9Ti、0Cr18Ni12Mo2Ti	11	支架 Yoke	WCB、CF8、CF8M、CF3、CF3M
5	密封组件 Sealing assembly	A105+rubber橡胶、A105+F6、SS不锈钢	12	指示板 Indicating plate	Cu、SS不锈钢
6	轴套 Bush	Cu、PTFE+SS不锈钢	13	手柄 Wrench	KTH330、QT400-17
7	填料垫 Packing seat	2Cr13			

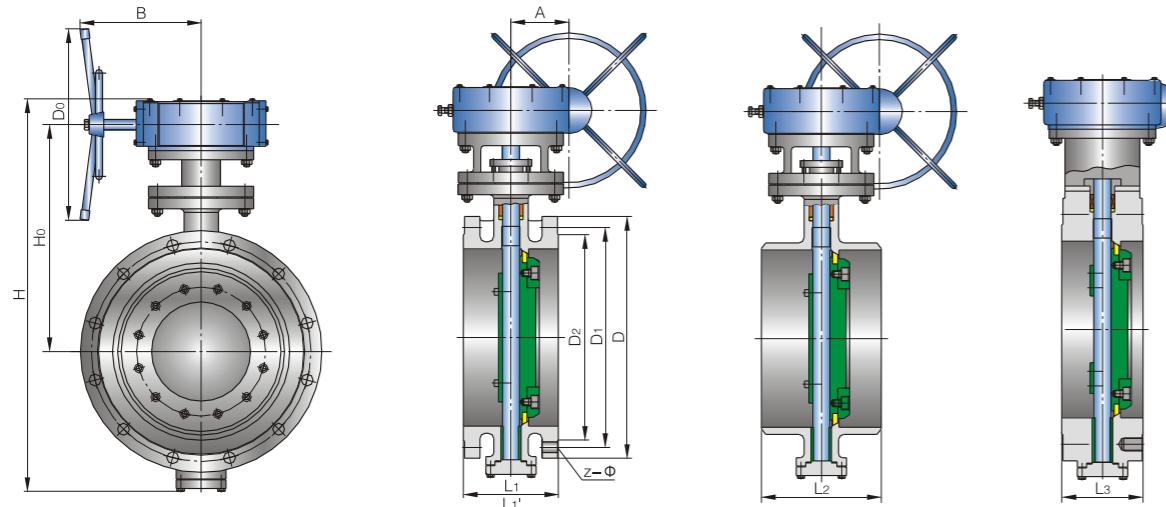
注：美标相应材质不一一列举

Notes: The relevant material of american standard is not to be particularized respectively.

主要外形尺寸 Main Outline Dimension

型号Model: D34(6、7)2(3、4、5)F(X、H、W、Y)

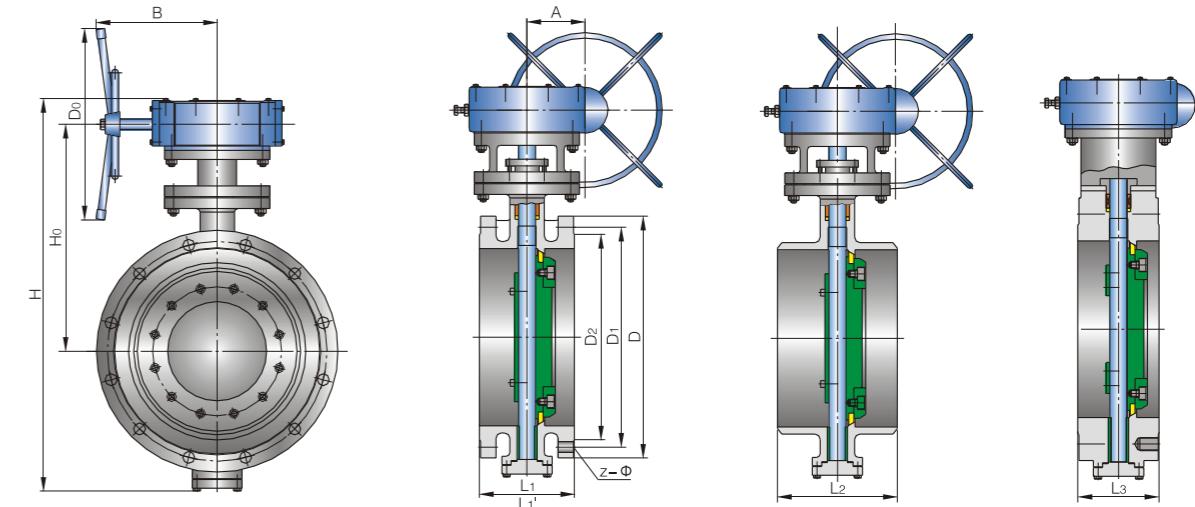
Class	NPS (in)	尺寸 Dimensions (mm)								蜗轮蜗杆装置 Worm device
		L ₁	L ₂	L ₃	H ₀	H	A	B	D ₀	
150	3	114	114	48	185	320	140	63	160	O型
	4	127	127	54	195	342	140	63	160	O型
	5	140	140	55	209	365	140	63	300	A型
	6	140	140	57	243	415	140	63	300	A型
	8	152	152	64	263	510	150	84	400	B型
	10	165	165	71	295	567	150	84	400	B型
	12	178	178	81	342	665	200	108	600	C型
	14	190	190	92	385	739	200	108	600	C型
	16	216	216	102	430	825	240	152	600	C型
	18	222	222	114	469	910	240	152	800	D型
	20	229	229	127	500	990	300	168	800	D型
	24	267	267	154	618	1210	320	192	800	D型
	28	292	292	229	746	1475	237	168	400	DA型
	32	318	318	241	810	1600	237	168	400	DA型
	34	330	330	241	875	1728	237	168	400	DA型
	40	410	410	300	965	1900	237	168	600	DB型



主要外形尺寸 Main Outline Dimensions

型号Model: D34(6、7)2(3、4、5)F(X、H、W、Y)

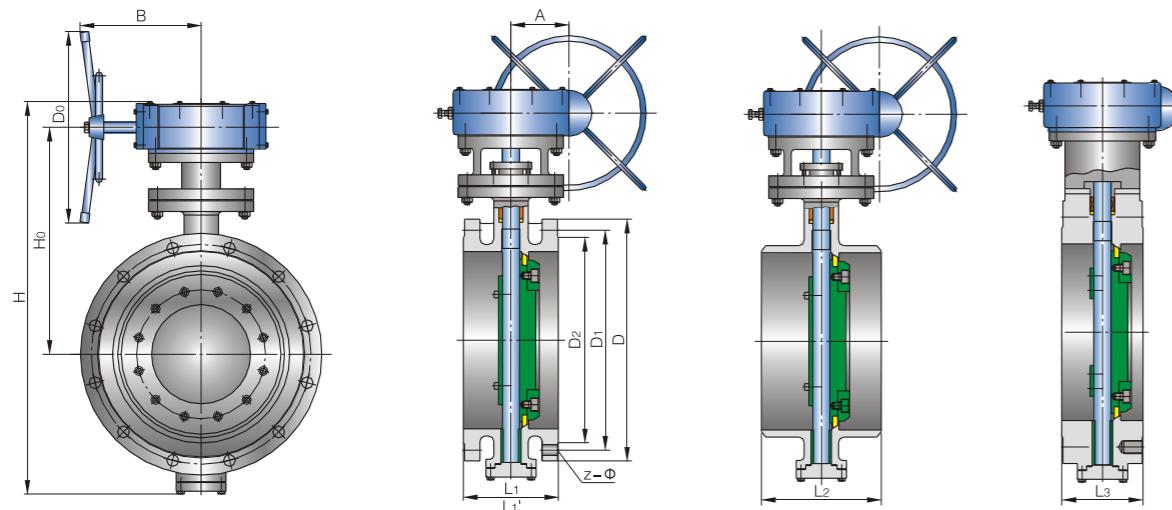
Class	NPS (in)	尺寸 Dimensions (mm)							蜗轮蜗杆装置 Worm device	
		L ₁	L ₂	L ₃	H ₀	H	A	B		
300	3	180	180	48	241	395	140	63	300	A型
	4	190	190	54	205	355	140	63	400	B型
	5	200	200	55	215	378	140	63	400	B型
	6	210	210	59	260	430	150	84	600	C型
	8	230	230	73	273	523	150	84	600	C型
	10	250	250	83	315	600	200	108	600	D型
	12	270	270	92	362	693	200	108	800	D型
	14	290	290	117	405	772	240	152	800	D型
	16	310	310	133	440	862	300	168	800	DA型
	18	330	330	149	525	960	320	192	400	DA型
	20	350	350	159	603	1158	168	237	400	DA型
	24	390	390	181	693	1320	168	237	300	A型
600	3	180	180	54	250	500	140	63	400	B型
	4	190	190	64	340	595	140	63	600	C型
	5	200	200	70	395	680	200	108	600	C型
	6	210	210	78	423	730	240	152	600	C型
	8	230	230	102	445	855	300	168	800	D型
	10	250	250	117	536	1002	320	192	800	D型
	12	270	270	140	614	1150	168	237	800	D型
	14	290	290	155	674	1200	168	237	400	DA型
	16	310	310	178	823	1345	168	237	400	DA型



主要外形尺寸 Main Outline Dimensions

型号Model: D34(6、7)2(3、4、5)F(X、H、W、Y)

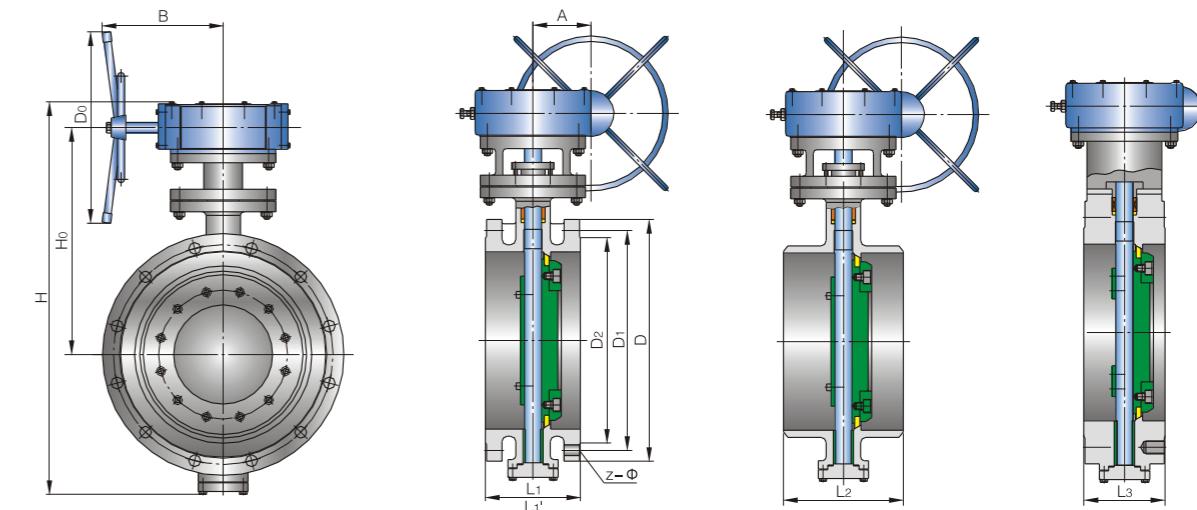
PN (MPa)	DN (mm)	尺寸 Dimensions (mm)								蜗轮蜗杆装置 Worm device
		L ₁	L _{1'}	L ₂	L ₃	H ₀	H	A	B	
0.6	65	112	170	170	46	180	290	63	140	180
	80	114	180	180	49	190	320	63	140	180
	100	127	190	190	56	198	342	63	140	240
	150	140	210	210	70	246	415	63	140	240
	200	152	230	230	71	298	470	84	170	300
	250	165	250	250	76	328	535	84	170	300
	300	178	270	270	83	365	606	108	200	400
	350	190	290	290	92	408	695	108	200	400
	400	216	310	310	102	446	755	128	240	400
	450	222	330	330	114	475	815	152	240	600
	500	229	350	350	127	525	905	168	300	600
	600	267	390	390	154	610	1050	320	192	600
	700	292	430	430	165	795	1276	237	192	350
	800	318	470	470	190	837	1384	237	168	350
	900	330	510	510	203	885	1500	237	168	350
1.0	1000	410	550	550	216	946	1620	785	30	450
	1200	470	630	630	254	1165	2185	785	30	450
	1400	530	710	710	279	1310	2315	785	30	450
	1600	600	790	790	318	1440	2675	785	30	450
	1800	670	870	870	356	1580	2920	865	50	600
	2000	760	950	950	406	1725	3170	865	50	600
	2200	760	1000	1000	-	1845	3415	865	50	600
	2400	760	1100	1100	-	1972	3670	865	50	600
	2600	760	1200	1200	-	2100	3830	865	50	600
	2800	760	1300	1300	-	2235	4100	865	50	600
	3000	760	1400	1400	-	2370	4380	865	50	600
										DD型



主要外形尺寸 Main Outline Dimensions

型号Model: D34(6、7)2(3、4、5)F(X、H、W、Y)

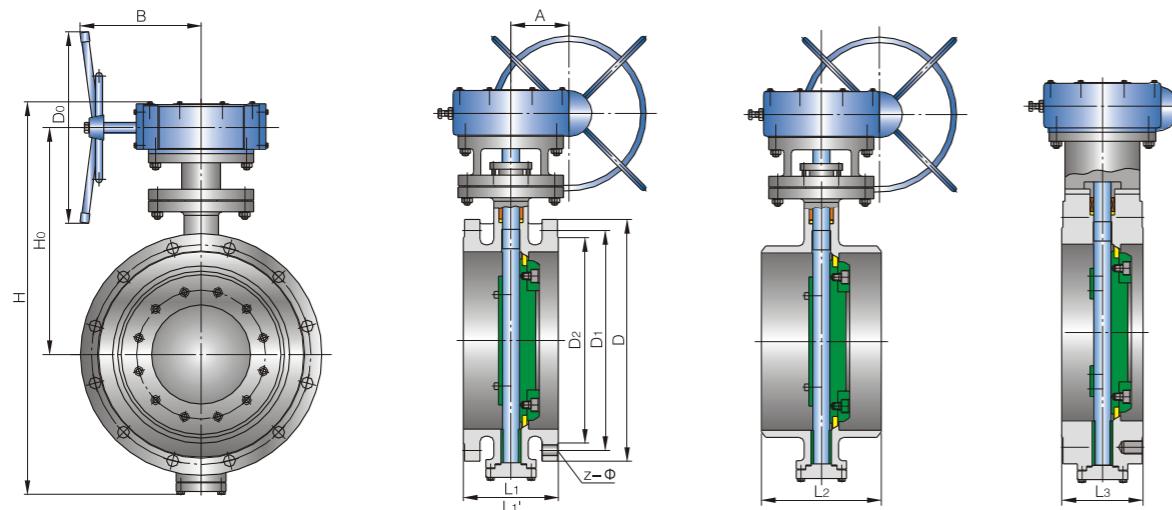
PN (MPa)	DN (mm)	尺寸 Dimensions (mm)									蜗轮蜗杆装置 Worm device
		L ₁	L _{1'}	L ₂	L ₃	H ₀	H	A	B	D ₀	
1.6	65	112	170	170	46	175	290	140	63	160	O型
	80	114	180	180	49	185	320	140	63	160	O型
	100	127	190	190	56	195	342	140	63	160	O型
	125	140	200	200	64	209	365	140	63	300	A型
	150	140	210	210	70	243	415	140	63	300	A型
	200	152	230	230	71	263	510	150	84	400	B型
	250	165	250	250	76	295	567	150	84	400	B型
	300	178	270	270	83	342	665	200	108	600	C型
	350	190	290	290	92	385	739	200	108	600	C型
	400	216	310	310	102	430	825	240	152	600	C型
	450	222	330	330	114	469	910	240	152	800	D型
	500	229	350	350	127	500	990	300	168	800	D型
	600	267	390	390	154	618	1210	320	192	800	D型
	700	292	430	430	165	746	1475	237	138	400	DA型
	800	318	470	470	190	810	1600	237	138	400	DA型
	900	330	510	510	203	1000	1870	785	30	400	DA型
	1000	410	550	550	216	1065	2000	785	30	600	DB型
	1200	470	630	630	254	1170	2215	785	30	600	DB型
	1400	530	710	710	279	1319	2430	865	50	800	DC型
	1600	600	790	790	318	1443	2700	865	50	800	DC型
	1800	670	870	870	356	1595	2938	865	50	800	DD型
	2000	760	950	950	406	1743	3210	865	50	800	DD型



主要外形尺寸 Main Outline Dimensions

型号Model: D34(6、7)2(3、4、5)F(X、H、W、Y)

PN (MPa)	DN (mm)	尺寸 Dimensions (mm)									蜗轮蜗杆装置 Worm device
		L ₁	L _{1'}	L ₂	L ₃	H ₀	H	A	B	D ₀	
2.5	80	114	180	180	49	185	320	140	63	160	O型
	100	127	190	190	56	200	350	140	63	300	A型
	125	140	200	200	64	210	375	140	63	300	A型
	150	140	210	210	70	245	425	140	63	400	B型
	200	152	230	230	71	270	526	150	84	400	B型
	250	165	250	250	76	302	590	150	84	600	C型
	300	178	270	270	83	360	695	200	108	600	C型
	350	190	290	290	92	420	789	240	108	600	C型
	400	216	310	310	102	435	848	240	128	800	D型
	450	222	330	330	114	475	943	300	152	800	D型
	500	229	350	350	127	550	1079	320	168	800	D型
	600	267	390	390	154	675	1352	237	192	400	DA型
	700	292	430	430	165	759	1495	237	685	400	DA型
	800	318	470	470	190	835	1640	237	685	400	DA型
	900	330	510	510	203	886	1765	785	30	600	DB型
4.0	1000	410	550	550	216	945	1885	785	30	600	DB型
	1200	470	630	630	254	1055	2100	865	50	800	DC型
	1400	530	710	710	279	1163	2325	865	50	800	DC型
	80	180	-	180	49	245	395	140	63	300	A型
	100	190	-	190	56	205	356	140	63	400	B型
	125	200	-	200	64	213	375	140	63	400	B型
	150	210	-	210	70	260	439	150	84	600	C型
	200	230	-	230	71	275	520	150	84	600	C型
	250	250	-	250	76	315	600	200	108	600	C型
	300	270	-	270	83	365	692	200	108	800	D型



主要外形尺寸 Main Outline Dimensions

型号Model: D34(6、7)2(3、4、5)F(X、H、W、Y)

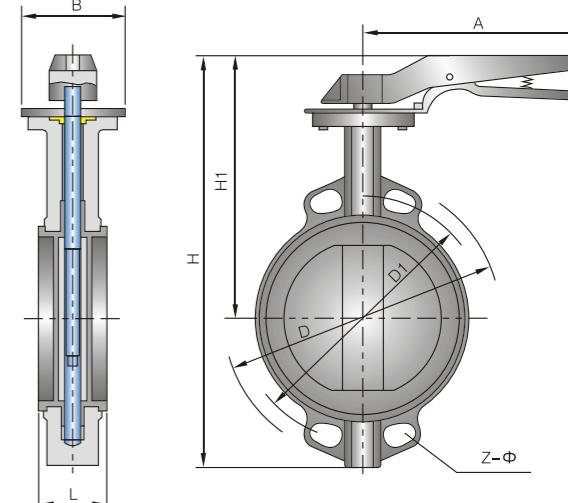
PN (MPa)	DN (mm)	尺寸 Dimensions (mm)								蜗轮蜗杆装置 Worm device
		L ₁	L ₂	L ₃	H ₀	H	A	B	D ₀	
6.4	80	180	180	70	192	388	140	63	400	B型
	100	190	190	76	205	395	140	63	400	B型
	125	200	200	86	225	420	150	84	600	C型
	150	210	210	100	265	498	200	108	600	C型
	200	230	230	116	292	540	240	152	600	C型
	250	250	250	128	328	638	300	168	800	D型
	300	270	270	150	372	725	320	192	800	D型
	350	290	290	165	418	800	168	237	800	D型
	400	310	310	175	450	890	168	237	400	DA型
	500	350	350	195	624	1158	168	237	400	DA型
	600	390	390	215	678	1580	168	237	400	DA型
10.0	80	180	180	85	250	500	140	63	400	B型
	100	190	190	90	340	595	140	63	600	C型
	125	200	200	100	395	680	200	108	600	C型
	150	210	210	120	425	730	240	152	600	C型
	200	230	230	138	448	848	300	168	800	D型
	250	250	250	152	537	1000	320	192	800	D型
	300	270	270	176	615	1145	168	237	800	D型
	350	290	290	182	673	1200	168	237	400	DA型
	400	310	310	204	814	1345	168	237	400	DA型
	500	350	350	232	946	1506	275	333	600	DB型
	600	390	390	248	998	1618	275	333	600	DC型

产品性能规范 Products Performance Specification

适用温度 Applicable temperature	适用介质 Applicable medium
天然胶 Natural rubber ≤ 85°C	石膏浆液、石灰石浆液、回收水、工艺水、废水 Gypsum pulp, Limestone pulp, Recovery water, Process water, Waste water
三元乙丙胶 EPDM ≤ 100°C	

主要零件材料 Major Parts Material Form

名称 Name	材料 Material
阀体 Body	灰铸铁、球墨铸铁、碳钢 Grey iron, Ductile iron, Carbon steel
蝶板 Disc	碳钢包覆橡胶、碳钢包覆氟塑料、不锈钢、双相不锈钢板1.4529、C276 Carbon steel wrapped rubber, Carbon steel wrapped fluorine plastic, Stainless steel, Duplex stainless steel plate
阀座 Seat	天然橡胶、三元乙丙、氟橡胶 NBR, EPDM, PTFE
阀杆 Stem	不锈钢 Stainless steel、2Cr13、304

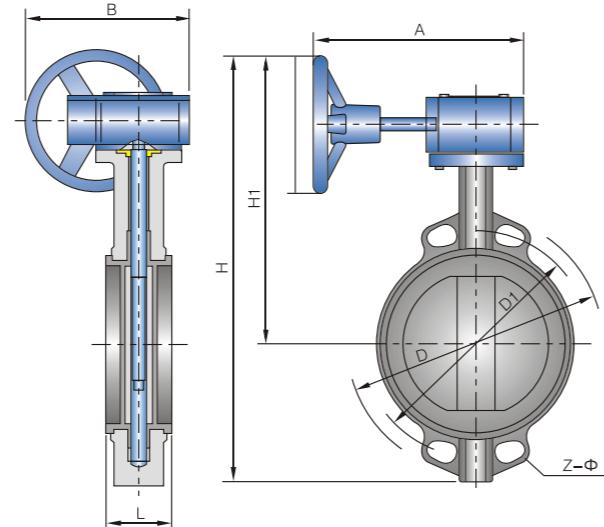


主要外形尺寸 Main Outline Dimensions

DN (mm)	L	D	D1	Z-Φ	H	H1	A	B	重量(kg) Weight
40	33	150	110	4-18	220	150	270	118	3.1
50	43	165	125	4-18	270	190	270	118	3.5
65	46	185	145	4-18	295	205	270	118	4.4
80	46	200	160	8-18	305	210	270	118	5.5
100	52	220	180	8-18	340	215	270	118	6.5
125	56	250	210	8-18	370	245	310	118	9
150	56	285	240	8-22	395	255	310	118	12
200	60	340	295	8-22	475	300	370	165	22
采用标准 Technical Specification	设计标准 Design standard: GB12238; 结构长度 Face to face: GB12221; 法兰 Flanged: GB/T17241.6; PN1.0MPa								

产品性能规范 Products Performance Specification

适用温度 Applicable temperature	适用介质 Applicable medium
天然胶 Natural rubber≤85℃	石膏浆液、石灰石浆液、回收水、工艺水、废水 Gypsum pulp, Limestone pulp, Recovery water, Process water, Waste water
三元乙丙胶 EPDM≤100℃	



主要零件材料 Major Parts Material Form

名称 Name	材料 Material
阀体 Body	灰铸铁、球墨铸铁、碳钢 Grey iron, Ductile iron, Carbon steel
蝶板 Disc	碳钢包覆橡胶、碳钢包覆氟塑料、不锈钢、双相不锈钢板1.4529、C276 Carbon steel wrapped rubber, Carbon steel wrapped fluorine plastic, Stainless steel, Duplex stainless steel plate
阀座 Seat	天然橡胶、三元乙丙、氟橡胶 NBR, EPDM, PTFE
阀杆 Stem	不锈钢 Stainless steel、2Cr13、304

主要外形尺寸 Main Outline Dimensions

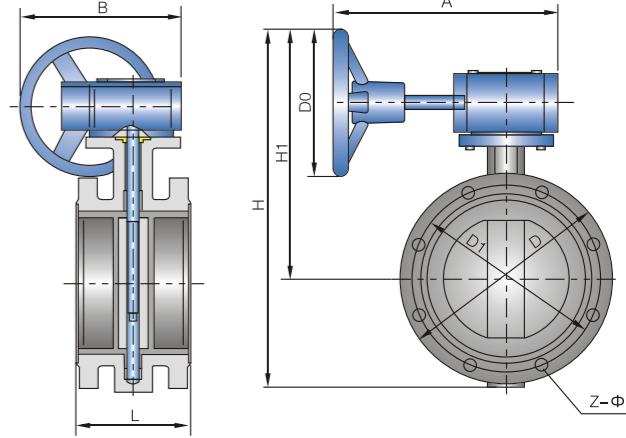
DN (mm)	L	D	D1	Z-Φ	H	H1	A	B	D0	重量(kg) Weight
40	33	150	110	4-18	350	270	193	125	150	7
50	43	165	125	4-18	360	280	193	125	150	8
65	46	185	145	4-18	385	295	193	125	150	9
80	46	200	160	8-18	396	300	193	125	150	10
100	52	220	180	8-18	430	315	193	125	150	11
125	56	250	210	8-18	460	335	193	125	150	13
150	56	285	240	8-22	485	345	193	125	150	14
200	60	340	295	8-22	630	455	283	165	220	30
250	68	395	350	12-22	690	484	283	165	220	40
300	78	445	400	12-22	770	530	334	175	280	78
350	78	505	460	16-22	830	560	334	175	280	81
400	102	565	515	16-26	910	595	425	210	320	140
450	114	615	565	20-26	938	618	425	210	320	160
500	127	670	620	20-26	993	650	425	210	320	190
600	154	780	725	20-30	1131	718	425	210	320	315
700	165	895	840	24-30	1476	998	620	320	400	480
800	190	1015	950	24-33	1533	1008	620	320	400	516
900	203	1115	1050	28-33	1655	1070	620	320	400	780
1000	216	1230	1160	28-36	1765	1125	620	400	400	950
1100	230	1340	1270	32-36	1880	1184	620	400	400	1050
1200	254	1455	1380	32-39	1995	1240	620	400	400	1150
采用标准 Technical Specification	设计标准 Design standard: GB12238; 结构长度 Face to face: GB12221; 法兰 Flanged: GB/T17241.6; PN1.0MPa									

产品性能规范 Products Performance Specification

适用温度 Applicable temperature	适用介质 Applicable medium
天然胶 Natural rubber≤85℃	石膏浆液、石灰石浆液、回收水、工艺水、废水 Gypsum pulp, Limestone pulp, Recovery water, Process water, Waste water
三元乙丙胶 EPDM≤100℃	

主要零件材料 Major Parts Material Form

名称 Name	材料 Material
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阀座 Seat	天然橡胶、三元乙丙、氟橡胶 NBR, EPDM, PTFE
阀杆 Stem	不锈钢 Stainless steel、2Cr13、304



主要外形尺寸 Main Outline Dimensions

DN (mm)	PN (MPa)	L	D	D1	Z-Φ	H	H1	A	B	D0	重量(kg) Weight
50		108	165	125	4-18	310	227	193	125	150	8
65		112	185	145	4-18	333	240	193	125	150	11.5
80		114	200	160	8-18	423	323	193	125	150	12.5
100		127	220	180	8-18	440	330	193	125	150	23
125		140	250	210	8-18	455	330	193	125	150	41
150		140	285	240	8-22	510	368	193	125	150	47
200		152	340	295	8-22	614	444	283	165	220	61
250		165	395	350	12-22	680	483	283	165	220	74
300		178	445	400	12-22	776	554	334	175	280	103
350		190	505	460	16-22	840	588	334	175	280	120
400		216	565	515	16-26	858	596	425	210	320	217
450		222	615	565	20-26	993	686	425	210	320	242
500		229	670	620	20-26	1056	721	425	210	320	279
600		267	780	725	20-30	1161	771	425	210	320	396
700	0.6	229	860	810	24-26	1350	818	503	393	450	265
700	1.0	292	895	840	24-30	1350	818	503	393	450	424
800	0.6	241	975	920	24-30	1440	858	503	393	450	345
800	1.0	318	1015	950	24-33	1440	858	503	393	450	552
900	0.6	241	1075	1020	24-30	1616	978	630	555	500	425
900	1.0	330	1115	1050	28-33	1616	978	630	555	500	680
1000	0.6	300	1175	1120	28-30	1780	1058	630	555	500	565
1000	1.0	410	1230	1160	28-36	1780	1058	630	555	500	906
1100	0.6	350	1305	1240	28-33	1995	1200	630	555	500	740
1100	1.0	440	1340	1270	32-36	1995	1200	630	555	500	1184
1200	0.6	350	1405	1340	32-33	2045	1250	630	555	500	910
1200	1.0	470	1455	1380	32-36	2045	1250	630	555	500	1456
采用标准 Technical Specification	设计标准 Design standard: GB12238; 结构长度 Face to face: GB12221; 法兰 Flanged: GB/T17241.6; PN1.0MPa/PN0.6MPa										

闸阀系列

Gate valve Services

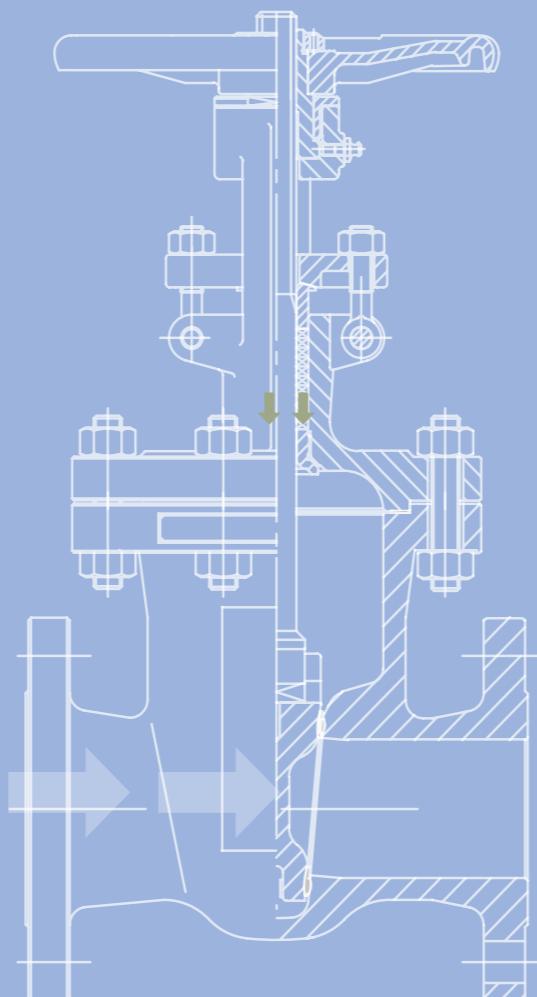
产品概述 Products Overview:

闸阀是指关闭件(闸板)沿通道轴线的垂直方向移动，达到开启或关闭目的阀门。在管路中主要作为接通或切断介质用，即全开或全闭使用。一般闸阀不可作为节流使用，它可用于高温和高压，也可以用于低温和低压，并可以用于各种不同介质。

Gate valve is closed parts (ram) along the channel axis vertical direction, to achieve open or close the valve. In the main for put through or cut off the medium in pipeline, namely full open or full close. General gate valves cannot be used as a throttle, it can be used in high temperature and high pressure, can also be used in low temperature and low pressure, and can be used in a variety of different medium.

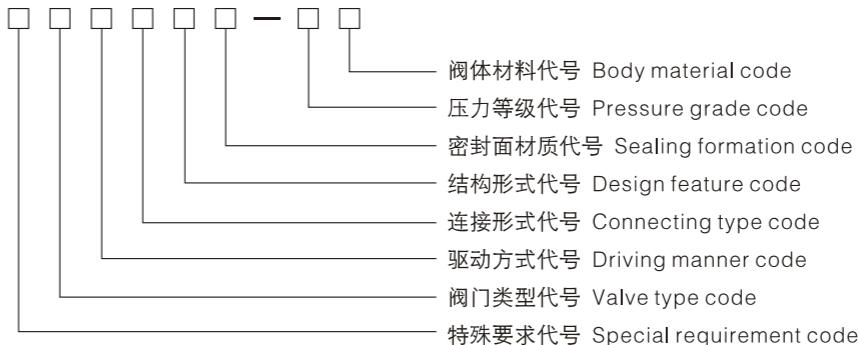
产品特点 Products Features:

1. 流通阻力比较小，安全可靠。
 2. 开启或关闭时所需力矩较小。
 3. 可以使用在介质向两个方向流动的环网管路上，也就是说介质的流向不受限制。
 4. 全开时，密封面受工作介质的冲蚀比截止阀小。
 5. 形体比较简单，易于铸造和加工。
 6. 结构长度比较小。
1. The flow resistance is small, safe and reliable;
 2. When opening or closing the required torque smaller;
 3. Can be used in the medium flow in two directions of ring network management way, that is to say, the flow of medium is not restricted;
 4. Wide open, the sealing surface erosion by working medium is smaller than globe valves;
 5. The form is simple, easy to casting and machining;
 6. The structure length is small.



闸阀型号编制 Model establishment of gate valve

型号编制说明 Model schedule illustration



- 特殊要求代号：体、盖栓接结构(默认) Hs—一体、盖焊接结构 Ps—压力密封结构 D—低温阀门 B—波纹管阀门 E—阀体延长端阀门

Special requirement code: Body, bonnet bolt-jointed structure (default) Hs—body, bonnet welded structure
 Ps—pressure sealed structure D—low temperature valve B—bellows valve E—body extended-end valve

- 阀门类型代号：Z—闸阀

Valve type code: Z—Gate valve

- 驱动方式代号：4—正齿轮传动 5—伞齿轮传动 6—气动 6s—气动带手动 7—液动 9—电动(手轮传动略) 9e—防爆电动

Driving manner code: 4—Spur gear transmission 5—Bevel gear transmission 6—Air driving 6s—Take pneumatically manually
 7—Hydrodynamic driving 9—Electric driving (Hand wheel driving omitted) 9e—Explosion electric driving

- 连接形式代号：1—内螺纹 2—外螺纹 4—法兰 6—焊接 8—承插焊

Connecting type code: 1—Female thread 2—Male thread 4—Flange 6—Butt-Welding 8—Socket welding

- 结构形式代号：1—单闸板 2—双闸板

Design feature code: 1—Single-disc 2—Double-disc

- 密封面材质代号：Y—硬质合金 H—合金钢

Sealing formation code: Y—Hard alloy H—Alloy steel

- 压力等级代号：公称压力为MPa的10倍、磅级为实际数

Pressure grade code: The 10 times of the nominal pressure MPa, pound grade is practical number

- 阀体材料代号：(1)铸造阀体：C—WCB I—WC6、ZG1Cr5Mo V—WC9、ZG20CrMoV P—CF8、ZG1Cr18Ni9Ti

R—CF8M、ZG1Cr18Ni12Mo2Ti S—CF3 L—CF3M F—LCB N—LC3

(2)锻造阀体：C—A105 E—LF2 A—F11 V—F22 P—F304 R—F316 S—F304L L—F316L

Body material code: (1)Cast the valve body: C—WCB I—WC6、ZG1Cr5Mo V—WC9、ZG20CrMoV P—CF8、ZG1Cr18Ni9Ti
 R—CF8M、ZG1Cr18Ni12Mo2Ti S—CF3 L—CF3M F—LCB N—LC3

(2)Forge the valve body : C—A105 E—LF2 A—F11 V—F22 P—F304 R—F316 S—F304L L—F316L

产品结构特点 Products Design Features

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

其主要结构特点有：

1. 设计制造严格按GB/T12234标准。产品结构合理、密封可靠、性能优良、造型美观。
2. 密封面堆焊Co基硬质合金，耐磨、耐蚀、抗擦伤性能好，使用寿命长。
3. 阀杆经调质及表面氮化处理，有良好的抗腐蚀性及抗擦伤性。
4. 公称压力≥15.0MPa中腔采用自紧密封式结构，密封性能随压力升高而增强，保证了密封性能。
5. 阀门设有倒密封结构，密封可靠。
6. 零件材质及法兰、对焊端尺寸可根据实际工况或用户要求合理选配，满足各种工程需要。
7. 阀门的型号根据JB/T308《阀门型号编制方法》进行编制。

Flanged ends cast steel gate valve are used to shut or open the pipe medium under nominal pressure between PN1.6~42.0MPa, working temperatures ≤600℃, main oil industry, chemical industry, fire-power plant etc.

The main structural features include:

1. Both design and manufacture are carried out strictly following GB/T12234. The products have a reasonable structure, reliable seal, good performance and nice modeling.
2. Co-based hard alloy welded on sealing surface, which is wear and corrosion resistance anti-abrasion performance and a longer duration.
3. The stem is hardening and tempering treatment or nitriding treatment with good corrosive resistance and abrasion resistance.
4. The middle cavity uses a self-tightening sealing structure for PN≥15.0MPa so that the sealing performance is enhanced with pressure increasing.
5. There is backseat design structure in the valve, so the sealing is reliable.
6. The material of parts, flange and butt-welding dimension can be chosen according to the applications and the requirements of the use's. That can satisfies all kinds of working requirements.
7. Valve models are compiled according to JB/T308 "Valve Model Designation Method".

产品主要参数 Main Parameter

基本型号 Basic models		(Hs、Ps)Z11H、(Hs、Ps)Z11Y、(Ps)Z4 ₁ ⁰ H、(Ps)Z4 ₁ ⁰ Y、(Ps)Z44 ₁ ⁰ H、(Ps)Z44 ₁ ⁰ Y、(Ps)Z54 ₁ ⁰ H、(Ps)Z54 ₁ ⁰ Y、(Ps)Z94 ₁ ⁰ H、(Ps)Z94 ₁ ⁰ Y		
压力等级范围 Pressure grade range		PN1.6~42.0MPa		
通径范围 Nominal diameter range		DN15~1000mm		
驱动方式 Driving manner		手轮驱动 Handwheel driving		齿轮动、电动 Bevelgear & electric driving
适用范围 Scope of application	PN1.6~4.0	PN6.4~10.0	PN15.0~42.0	Dn50~2000mm
	DN15~600mm	DN15~300mm	DN15~250mm	

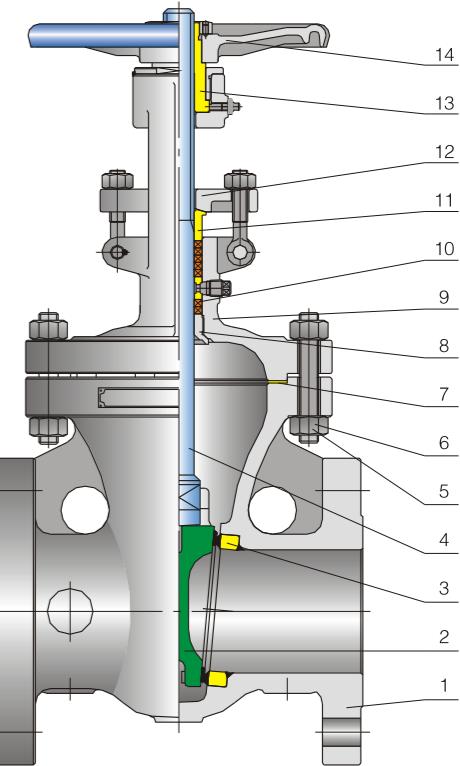
产品性能规范 Products Performance Specification

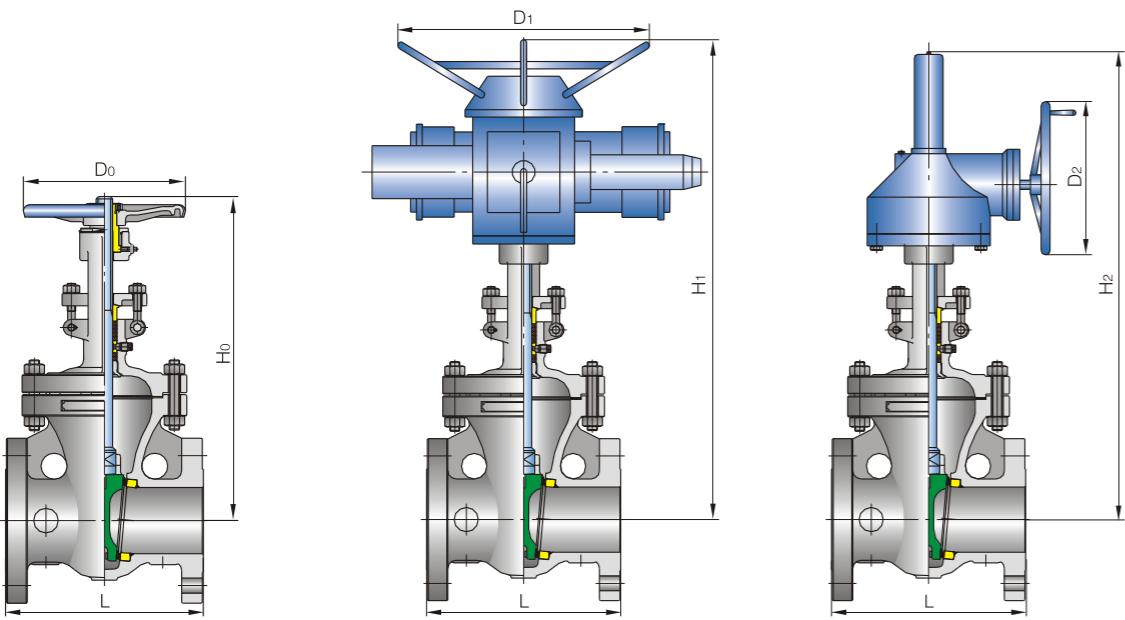
压力等级 Pressure	常温试验压力(MPa) Pressure test at ambient temperature (Mpa)			适用温度 Applicable temperature	适用介质 Applicable medium
	壳体试验 Shell test	密封试验 Seal test	上密封试验 Backseat test		
公称压力 (MPa) Nominal pressure (PN)	1.6	2.4	1.76	1.76	水、油品、蒸汽等 Water , oil , steam ,etc.
	2.5	3.8	2.75	2.75	
	4.0	6.0	4.4	4.4	
	6.4	9.6	7.04	7.04	
	10.0	15.0	11.0	11.0	
	16.0	24.0	17.6	17.6	
	25.0	37.5	27.5	27.5	

产品采用标准 Technical Specification

结构形式 Structural feature	栓接阀盖明杆支架结构 Bolted bonnet outside stem yoke structure
驱动方式 Driving manner	手动、齿轮动、电动 Handwheel, Bevelgear, Electric
设计标准 Design standard	GB/T 12234
结构长度 Face to face	GB/T 12221
连接法兰 Flanged ends	GB/T 9113、JB/T 79、HG20592
试验和检验 Test & inspection	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。
Notes: The dimensions of valve connecting flange and butt-welding ends can be designed according to customer's requirement.

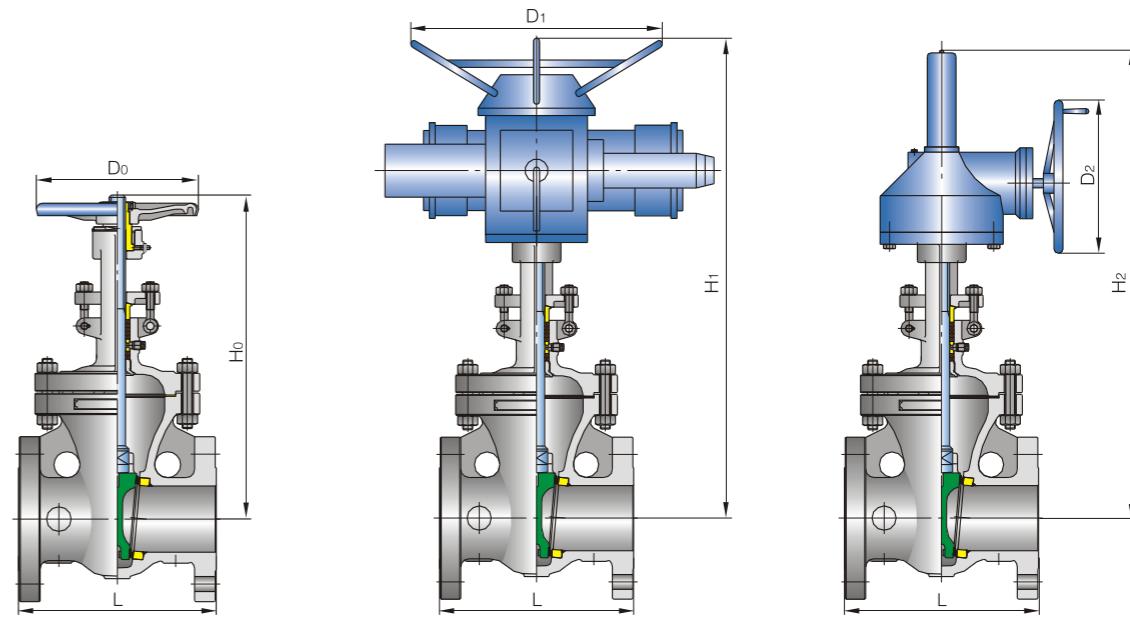




主要外形尺寸及重量 Main Outline Dimensions & Weight

型号Model: Z4⁰H、Z4⁰Y、Z54⁰H、Z54⁰Y、Z94⁰H、Z94⁰Y

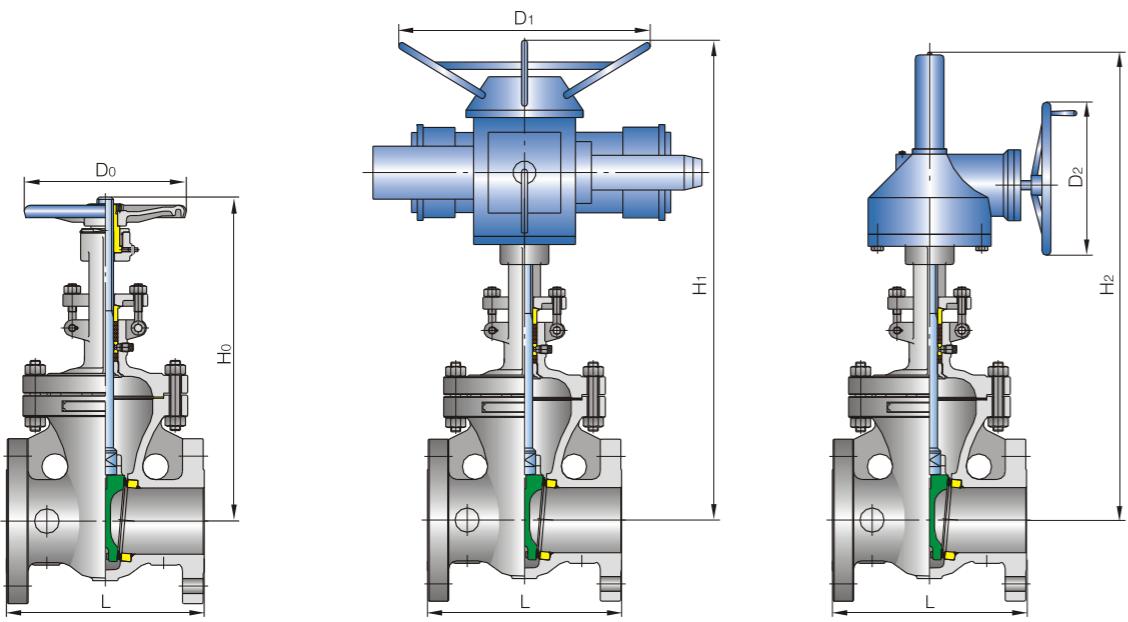
传动方式 Driving Manner			手动 Handwheel			电动 Electric			齿轮动 Bevel Gear					
PN (MPa)	DN (mm)	L	H ₀	D ₀	重量 Weight (kg)	H ₁	D ₁	电动装置 Electric Driving	重量 Weight (kg)	H ₂	D ₂	齿轮装置 Gear Model	重量 Weight (kg)	
1.6	15	130	170	120	5	-	-	-	-	-	-	-	-	-
	20	150	190	140	6.5	-	-	-	-	-	-	-	-	-
	25	160	205	160	9	-	-	-	-	-	-	-	-	-
	32	180	270	180	12	-	-	-	-	-	-	-	-	-
	40	200	310	200	26.5	630	590	DZW10A	87.5	-	-	-	-	-
	50	250	358	240	29	678	590	DZW10A	90	-	-	-	-	-
	65	265	373	240	33	693	590	DZW15A	96	-	-	-	-	-
	80	280	435	280	45	755	590	DZW20A	108	-	-	-	-	-
	100	300	500	300	62	820	590	DZW20A	126	-	-	-	-	-
	125	325	614	320	106	934	590	DZW30A	173	-	-	-	-	-
	150	350	674	360	135	994	590	DZW30A	199	-	-	-	-	-
	200	400	818	400	193	1138	590	DZW30A	254	-	-	-	-	-
	250	450	969	450	273	1409	810	DZW45A	310	-	-	-	-	-
	300	500	1145	560	380	1588	810	DZW60A	391	1310	310	BA-0	504	-
	350	550	1280	640	590	1755	830	DZW90	729	1468	310	BA-0	674	-
	400	600	1452	640	850	1902	830	DZW120	992	1780	460	BA-1	950	-
	450	650	1541	720	910	2141	870	DZW180	1168	1880	460	BA-1	1300	-
	500	700	1676	720	960	2276	870	DZW250	1222	2110	460	BA-2	1530	-
	600	800	1874	800	1115	2474	870	DZW250	1376	2410	460	BA-2	2140	-
	700	900	-	-	-	3046	1170	DZW350	-	2600	460	BA-2	3270	-
	800	1000	-	-	-	3250	1170	DZW500	-	2860	610	BAA-3	3920	-
	900	1100	-	-	-	3509	1060	DZW800	-	3170	610	BAA-3	4435	-
	1000	1200	-	-	-	3873	1060	DZW1000	-	-	-	-	-	-



主要外形尺寸及重量 Main Outline Dimensions & Weight

型号Model: Z4⁰H、Z4⁰Y、Z54⁰H、Z54⁰Y、Z94⁰H、Z94⁰Y

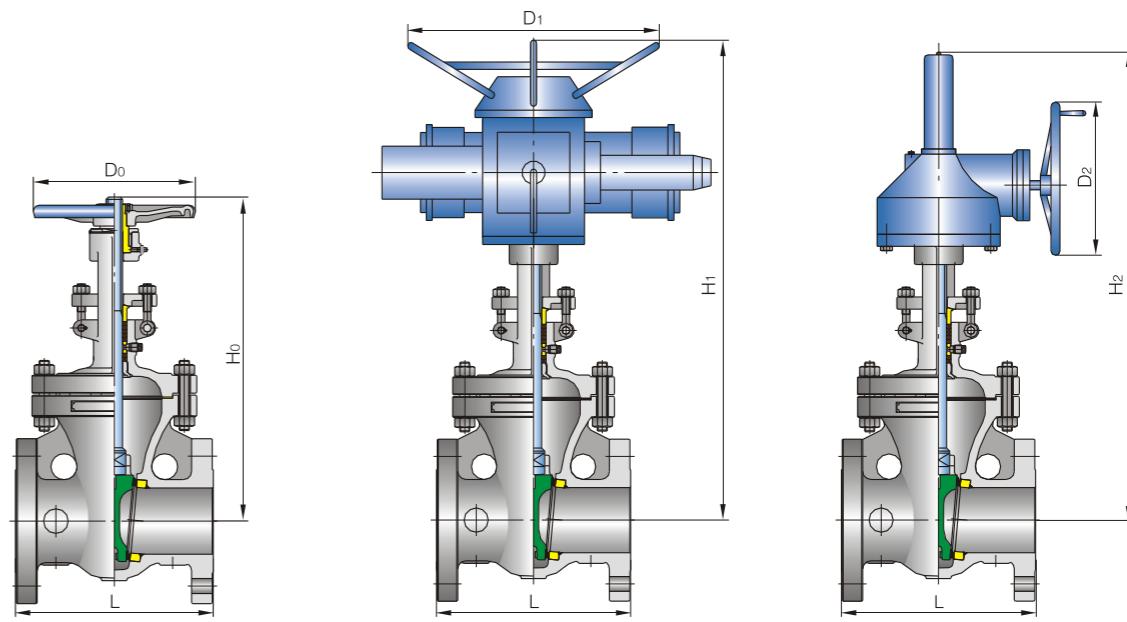
传动方式 Driving Manner			手动 Handwheel			电动 Electric			齿轮动 Bevel Gear					
PN (MPa)	DN (mm)	L	H ₀	D ₀	重量 Weight (kg)	H ₁	D ₁	电动装置 Electric Driving	重量 Weight (kg)	H ₂	D ₂	齿轮装置 Gear Model	重量 Weight (kg)	
2.5	15	130	170	120	5.5	-	-	-	-	-	-	-	-	-
	20	150	190	140	7	-	-	-	-	-	-	-	-	-
	25	160	205	160	11	-	-	-	-	-	-	-	-	-
	32	180	270	180	14	-	-	-	-	-	-	-	-	-
	40	200	310	200	30	630	590	DZW10A	91	-	-	-	-	-
	50	250	358	240	34	678	590	DZW10A	95	-	-	-	-	-
	65	265	373	240	36	693	590	DZW15A	99	-	-	-	-	-
	80	280	435	280	50	755	590	DZW20A	113	-	-	-	-	-
	100	300	500	300	69	820	590	DZW20A	132	-	-	-	-	-
	125	325	614	320	116	934	590	DZW30A	181	-	-	-	-	-
	150	350	674	360	141	994	590	DZW30A	206	-	-	-	-	-
	200	400	818	400	192	1138	590	DZW30A	257	-	-	-	-	-
	250	450	969	450	207	1409	810	DZW45A	317	-	-	-	-	-
	300	500	1145	560	400	1588	810	DZW60A	412	1310	310	BA-0	504	-
	350	550	1280	640	631	1755	830	DZW90	750	1468	310	BA-0	674	-
	400	600	1452	640	900	1902	830	DZW120	1042	1780	460	BA-1	950	-
	450	650	1541	720	1013	2141	870	DZW180	1274	1880	460	BA-1	1300	-
	500	700	1676	720	1166	2276	870	DZW250	1420	2110	460	BA-2	1530	-
	600	800	1874	800	1258	2474	870	DZW250	1522	2410	460	BA-2	2140	-
	700	900	-	-	-	3046	1170	DZW350	-	2600	460	BA-2	3275	-
	800	1000	-	-	-	3250	1170	DZW500	-	2860	610	BAA-3	3924	-
	900	1100	-	-	-	3509	1060	DZW800	-	3170	610	BAA-3	4435	-
	1000	1200	-	-	-	3873	1060	DZW1000	-	-	-	-	-	-



主要外形尺寸及重量 Main Outline Dimensions & Weight

型号Model: Z4⁰H、Z4⁰Y、Z54⁰H、Z54⁰Y、Z94⁰H、Z94⁰Y

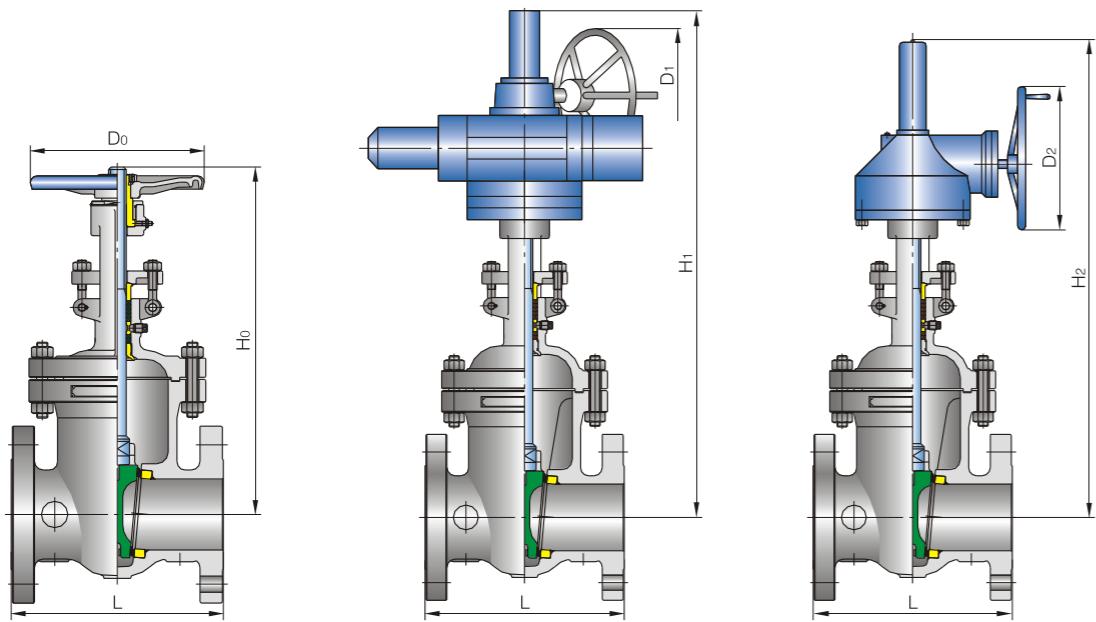
传动方式 Driving Manner			手动 Handwheel			电动 Electric			齿轮动 Gear					
PN (MPa)	DN (mm)	L	H ₀	D ₀	重量 Weight (kg)	H ₁	D ₁	电动装置 Electric Driving	重量 Weight (kg)	H ₂	D ₂	齿轮装置 Gear Model	重量 Weight (kg)	
4.0	15	130	135	120	6	-	-	-	-	-	-	-	-	-
	20	150	190	140	8	-	-	-	-	-	-	-	-	-
	25	160	205	160	12	-	-	-	-	-	-	-	-	-
	32	180	270	180	15	-	-	-	-	-	-	-	-	-
	40	240	310	200	31	630	590	DZW10A	92	-	-	-	-	-
	50	250	371	280	34	670	590	DZW10A	95	-	-	-	-	-
	65	290	391	280	39	712	590	DZW15A	102	-	-	-	-	-
	80	310	455	320	52	775	590	DZW20A	115	-	-	-	-	-
	100	350	551	360	80	875	590	DZW20A	163	-	-	-	-	-
	125	400	628	400	127	948	590	DZW20A	190	-	-	-	-	-
	150	450	708	400	154	1030	590	DZW30A	219	-	-	-	-	-
	200	550	885	460	263	1325	590	DZW45A	373	-	-	-	-	-
	250	650	906	560	368	1400	810	DZW60A	480	-	-	-	-	-
	300	750	1203	640	547	1655	830	DZW90	686	1500	460	BA-1	630	-
	350	850	1341	640	679	1795	830	DZW120	821	1960	460	BA-1	985	-
	400	950	1492	720	953	2093	870	DZW180	1214	2170	460	BA-1	1430	-
	500	1150	-	-	-	2645	870	DZW250	2150	2450	610	BA-2	2040	-
	600	1350	-	-	-	2865	1170	DZW350	-	2940	610	BA-2	3050	-
	700	1550	-	-	-	3450	1170	DZW500	-	-	-	-	-	-
	800	1750	-	-	-	3920	1060	DZW800	-	-	-	-	-	-



主要外形尺寸及重量 Main Outline Dimensions & Weight

型号Model: Z4⁰H、Z4⁰Y、Z54⁰H、Z54⁰Y、Z94⁰H、Z94⁰Y

传动方式 Driving Manner			手动 Handwheel			电动 Electric			齿轮动 Bevel Gear					
PN (MPa)	DN (mm)	L	H ₀	D ₀	重量 Weight (kg)	H ₁	D ₁	电动装置 Electric Driving	重量 Weight (kg)	H ₂	D ₂	齿轮装置 Gear Model	重量 Weight (kg)	
6.4	15	170	140	100	7	-	-	-	-	-	-	-	-	-
	20	190	140	100	9	-	-	-	-	-	-	-	-	-
	25	210	215	180	12	-	-	-	-	-	-	-	-	-
	32	230	270	180	16	-	-	-	-	-	-	-	-	-
	40	240	345	200	32	665	590	DZW10A	93	-	-	-	-	-
	50	250	470	200	39	790	590	DZW15A	102	-	-	-	-	-
	65	290	520	250	43	840	590	DZW20A	106	-	-	-	-	-
	80	310	570	300	60	890	590	DZW20A	123	-	-	-	-	-
	100	350	700	300	89	1020	590	DZW30A	154	-	-	-	-	-
	125	400	780	350	140	1100	590	DZW30A	205	-	-	-	-	-
	150	450	850	350	207	1290	590	DZW45A	317	-	-	-	-	-
	200	550	1035	400	325	1475	810	DZW60A	437	1420	310	BA-0	430	-
	250	650	1050	560	467	1500	830	DZW90	606	1580	460	BA-1	530	-
	300	750	1470	640	590	1820	830	DZW120	732	1770	460	BA-1	590	-
	350	850	-	-	-	2216	870	DZW180	1110	2060	460	BA-1	840	-
	400	950	-	-	-	2838	870	DZW250	1540	2270	460	BA-1	1410	-
	500	1150	-	-	-	3320	1170	DZW350	-	-	-	-	-	-
	600	1350	-	-	-	3684	1170	DZW500	-	-	-	-	-	-



主要外形尺寸及重量 Main Outline Dimensions & Weight

型号 Model: Z4⁰H、Z4⁰Y、Z54⁰H、Z54⁰Y、Z94⁰H、Z94⁰Y

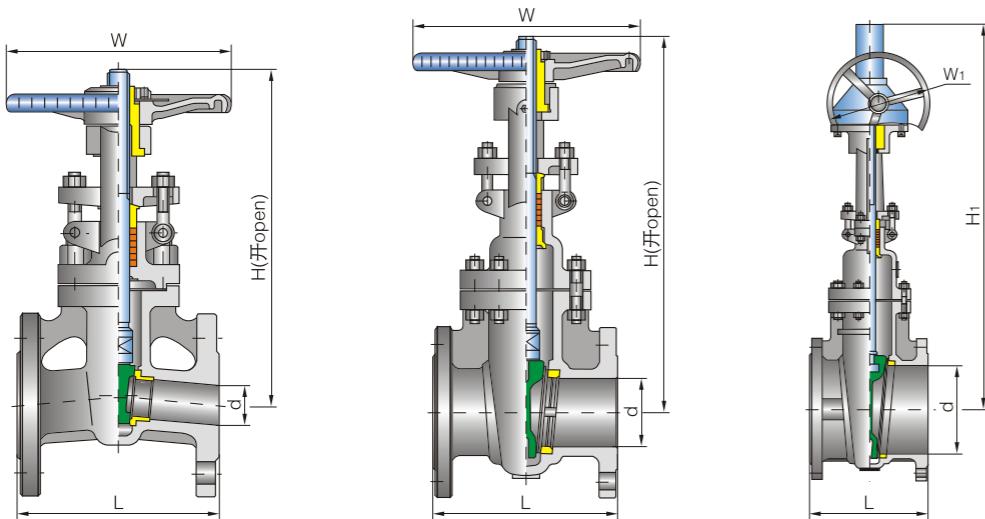
传动方式 Driving Manner			手动 Handwheel			电动 Electric			齿轮动 Bevel Gear					
PN (MPa)	DN (mm)	L	H ₀	D ₀	重量 (kg)	H ₁	D ₁	电动装置 Electric Driving	重量 (kg)	H ₂	D ₂	齿轮装置 Gear Model	重量 (kg)	
10.0	40	240	360	320	50	680	590	DZW15A	113	-	-	-	-	
	50	250	490	360	60	810	590	DZW20A	123	-	-	-	-	
	65	290	540	400	70	860	590	DZW20A	133	-	-	-	-	
	80	310	572	400	100	896	590	DZW30A	165	-	-	-	-	
	100	350	573	400	110	1013	590	DZW45A	220	-	-	-	-	
	125	400	744	560	180	1184	810	DZW60A	292	-	-	-	-	
	150	450	800	560	250	1250	830	DZW90	389	-	-	-	-	
	200	550	800	560	360	1250	830	DZW120	502	1490	310	BA-0	730	
	250	650	1050	600	420	1650	870	DZW180	790	1720	460	BA-1	900	
	300	750	1200	640	530	1800	870	DZW250	910	1890	460	BA-1	1200	
	350	850	-	-	-	2030	1170	DZW350	1610	2180	610	BA-2	1700	
	400	950	-	-	-	2250	1170	DZW500	2512	2390	610	BA-2	2500	
	500	1150	-	-	-	2550	1060	DZW800	3200	-	-	-	-	

主要零件材料 Parts and Material List

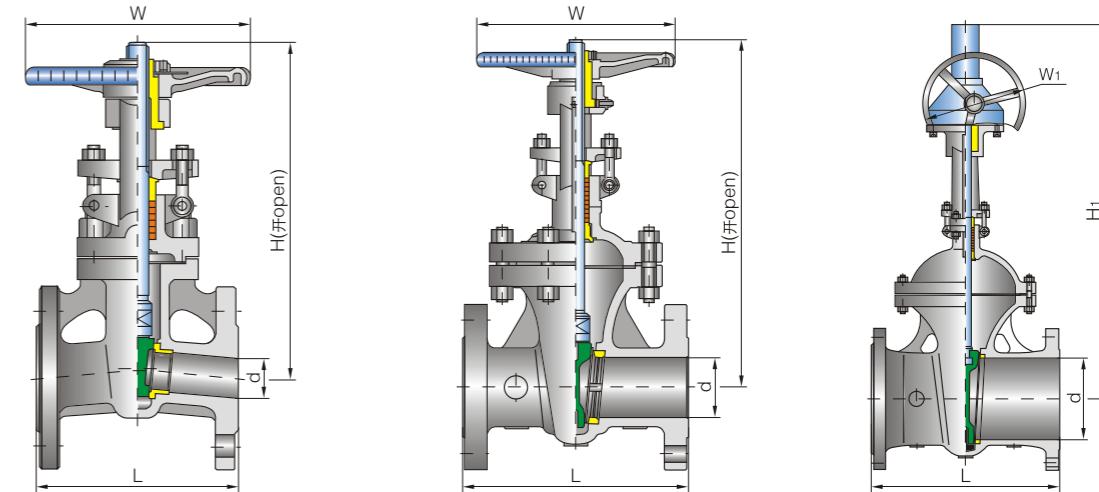
序号 Parts No.	零件名称 Parts Name	材料 Materials				
		WCB/Trim 1	WCB/Trim 5	WCB/Trim 8	CF8/304	CF8M/316
1	阀体 Body	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
2	垫片 Gasket	Soft Iron + Graphite or 304 + Graphite				
3	阀座 Seat ring	A105 + 13Cr	A105 + STL	A105 + STL	ASTM A351 CF8	ASTM A351 CF8M
4	闸板 Gate	ASTM A216 WCB + 13Cr	ASTM A216 WCB + STL	ASTM A216 WCB + 13Cr	ASTM A351 CF8	ASTM A351 CF8M
5	阀杆 Stem	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F304	ASTM A182 F316
6	上密封座 Backseat bushing	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F6a	ASTM A351 CF8	ASTM A351 CF8M
7	填料 Packing	柔性石墨 Graphite	柔性石墨 Graphite	柔性石墨 Graphite	柔性石墨 Graphite	柔性石墨 Graphite
8	填料压套 Gland	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F304	ASTM A182 F316
9	压盖螺钉 Gland eyebolt	ASTM A193 B7	ASTM A193 B7	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8M
10	螺母 Eyebolt nut	ASTM A194 2H	ASTM A194 2H	ASTM A194 2H	ASTM A194 8	ASTM A194 8M
11	销 Eyebolt pin	ASTM A36	ASTM A36	ASTM A36	304ss	316ss
12	填料压板 Gland flange	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
13	螺柱 Bonnet bolt	ASTM A193 B7	ASTM A193 B7	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8M
14	阀盖螺母 Bonnet nut	ASTM A194 2H	ASTM A194 2H	ASTM A194 2H	ASTM A194 8	ASTM A194 8M
15	阀盖 Bonnet	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
16	油杯 Nipple	碳钢 Carbon steel	碳钢 Carbon steel	碳钢 Carbon steel	碳钢 Carbon steel	碳钢 Carbon steel
17	阀杆螺母 Stem nut	ASTM A439 D2	ASTM A439 D2	ASTM A439 D2	ASTM A439 D2	ASTM A439 D2
18	压盖螺母 Yoke sleeve nut	碳钢 Carbon steel	碳钢 Carbon steel	碳钢 Carbon steel	碳钢 Carbon steel	碳钢 Carbon steel
19	手轮 Hand wheel	球墨铸铁 Ductile Iron	球墨铸铁 Ductile Iron	球墨铸铁 Ductile Iron	球墨铸铁 Ductile Iron	球墨铸铁 Ductile Iron
20	锁紧螺母 Hand wheel nut	碳钢 Carbon steel	碳钢 Carbon steel	碳钢 Carbon steel	碳钢 Carbon steel	碳钢 Carbon steel
21	螺钉 Set screw	ASTM A193 B7	ASTM A193 B7	ASTM A193 B7	ASTM A193 B7	ASTM A193 B7

注：上表仅列出了铸钢闸阀零部件材料的最常用配置，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 the commonest materials formulation for cast steel gate valves. We may provide other different parts materials according to the customer's request or the actual valve working condition.

Class150



Class300



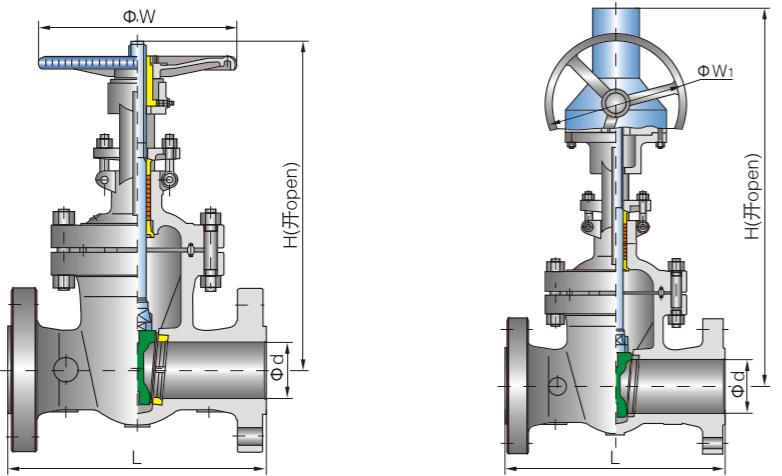
主要外形尺寸及重量 Main Outline Dimensions & Weight

磅级 Class	口径 Size		尺寸 Dimensions(mm)							重量 Weight(kg)		
	NPS	DN	L			d	H	H ₁	W	W ₁	手轮 Handwheel	齿轮传动 Bevel Gear
			RF	RTJ	BW							
Class150	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	191	203	241	64	435	-	200	-	25	-
	3	80	203	216	283	76	515	-	250	-	33	-
	4	100	229	241	305	102	595	-	280	-	49	-
	5	125	254	267	381	127	725	-	280	-	62	-
	6	150	267	279	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	368	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
	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

主要外形尺寸及重量 Main Outline Dimensions & Weight

磅级 Class	口径 Size		尺寸 Dimensions(mm)							重量 Weight(kg)		
	NPS	DN	L			d	H	H ₁	W	W ₁	手轮 Handwheel	齿轮传动 Bevel Gear
			RF	RTJ	BW							
Class300	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	283	298	283	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	1372	1346	686	-	3080	-	600	-	3300
	30	750	1397	1422	1397	737	-	3180	-	600	-	3550
	32	800	1524	1553	1524	779	-	3300	-	600	-	4400
	34	850	1626	1654	1626	830	-	3550	-	600	-	5200
	36	900	1727	1756	1727	874	-	3760	-	600	-	6050

Class600 & Class900



主要外形尺寸及重量 Main Outline Dimensions & Weight

磅级 Class	口径 Size		尺寸 Dimensions(mm)							重量 Weight(kg)		
	NPS	DN	L			d	H	H1	W	W1	手轮 Handwheel	齿轮传动 Bevel Gear
			RF	RTJ	BW							
Class600	2	50	292	295	292	51	444	-	200	-	32	-
	2½	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	664	660	200	1073	1110	500	310	399	451
	10	250	787	791	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
Class900	2	50	368	371	368	47	500	-	280	-	70	-
	2½	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	1038	1029	311	1900	1950	900	600	1600	1700
	16	400	1130	1140	1130	354	2050	2100	900	600	2150	2330

Z96¹₀Y-250 Z96¹₀Y-320 Z96¹₀Y-P54140v Z96¹₀Y-P57170v

产品特点

- 采用压力自紧式密封结构，弹性闸板，两端为焊接连接。
- 阀座密封面采用钴基硬质合金等离子喷焊而成，耐磨、抗擦伤性能好。阀瓣密封面经硬化氮化处理。
- 阀杆表面经抗腐蚀性氮化处理，有良好的抗腐蚀和抗擦伤性。
- 阀门的开启和关闭由电动装置来控制，电动装置分别配用专用电机，减速器、转矩控制机构、现场操作机构、手、电动切换机构，除就地操作外还可进行远距离操作。

Features

- It adopts pressure self-tightening sealing structure, elastic shutter, and the two ends are welded.
- The sealing surface of the valve seat is made of cobalt-based hard alloy plasma spray welding, which has good wear resistance and scratch resistance. The disc sealing surface is hardened and nitrided.
- The surface of the valve stem is treated with anti-corrosive nitriding, which has good corrosion resistance and scratch resistance.
- The opening and closing of the valve is controlled by an electric device. The electric device is equipped with a dedicated motor, a reducer, a torque control mechanism, an on-site operating mechanism, a hand, and an electric switching mechanism.

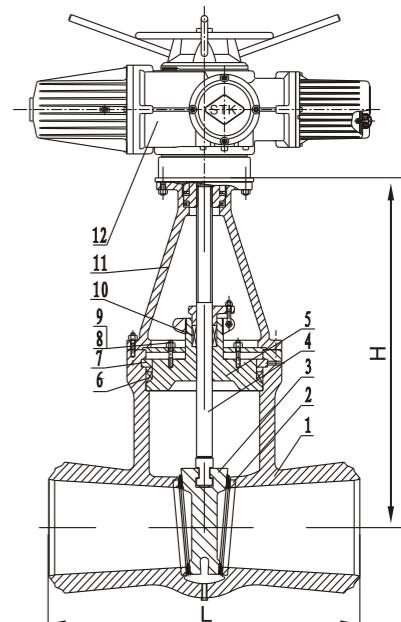
主要外形连接尺寸(mm) Main external dimensions

公称通径 nominal diameter (mm)	尺寸 Size (mm)			参考重量 Reference Weight (kg)
	L	D1	H	
50	280	50	600	120
65	340	65	700	150
80	470	80	700	175
100	550	100	750	230
125	600	125	750	420
150	700	145	800	480
175	750	175	850	610
200	800	190	900	650
225	850	230	950	700
250	900	250	1000	1210
300	1100	290	1150	1820
350	1200(1250)	345	1400	2550
400	1300	400	1600	3080

主要零部件材质 Material of main parts

型 号	零件名称						
	阀体、闸板	阀座	阀盖	阀杆	密封圈	四合环	
Z96 ¹ ₀ Y-250 Z96 ¹ ₀ Y-320	WCB A105	不锈钢	WCB	2Cr13	成型石墨环	不锈钢	柔性石墨
Z96 ¹ ₀ Y-P54140v Z96 ¹ ₀ Y-P54140v Z96 ¹ ₀ Y-P57170v	铬钼钒钢	铬钼钒钢	碳钢/铬钼钒钢	25Cr2Mo1V 氮化	成型石墨环	铬钼钒钢	柔性石墨

以上数据仅供参考，用户定货时，请提供连接管尺寸，可根据用户要求设计制造。
All above data is only for reference. Please offer the connect pipe size when the client places an order.
We can manufacture the valve according to the client's request.



Z962Y-200 Z962Y-P_{s4}100V Z962Y-P_{s4}140V Z962Y-P_{s5}140V Z962Y-P_{s7}140V DN150,175,225,250**产品特点**

- 采用压力自紧式密封结构，双闸板，两端支管为焊接连接。
- 关闭机构主要由能够调心的楔式双闸板、万向顶、夹圈等组成，借阀体内导向筋的引导作升降运动。
- 阀座、阀瓣密封面采用钴基硬质合金等离子喷焊而成。耐磨、抗擦伤性能好。
- 阀杆表面经抗腐蚀性氮化处理，有良好的抗腐蚀的抗擦伤性。
- 阀门的开启和关闭由电动装置来控制，电动装置由专用电机、减速器、转矩控制机构、现场操作机构、手、电动切换机构等组成，除就地操作外，还可以进行远距离操作。

Features

- It adopts pressure self-tightening sealing structure, double gates, and the branch pipes at both ends are welded.
- The closing mechanism is mainly composed of wedge-type double gates, gimbals, clamp rings, etc. which can be adjusted, and is guided by the guide ribs in the valve body for lifting movement.
- The valve seat and valve flap sealing surface are made of cobalt-based hard alloy plasma spray welding. Good wear resistance and scratch resistance.
- The surface of the valve stem is treated with anti-corrosive nitriding, which has good corrosion resistance and scratch resistance.
- The opening and closing of the valve is controlled by an electric device, which is controlled by a dedicated motor, The speed reducer, torque control mechanism, on-site operating mechanism, hand, electric switching mechanism, etc., in addition to local operation, can also be remotely operated.

主要外形连接尺寸(mm) Main external dimensions

型 号 Model	公称通径 DN(mm) nominal diameter	主要外形尺寸和连接尺寸 (mm)		
		H	L	D1
Z962Y-200	150	800	700	230
	175	850	750	175
	225	950	850	230
Z962Y-P _{s4} 100V Z962Y-P _{s4} 140V	150	800	700	145
	175	550	750	175
	225	950	850	230
	250	1000	900	250

主要零部件材质 Material of main parts

型 号 Model	零件名称 Part name							
	① 阀体 Valve body	② 阀座 Valve seat	③ 闸板 Valve gate	④ 阀杆 valve handle	⑤ 浮动阀盖 floating valve cover	⑥ 支架 valve cover support	⑦ 密封圈 sealing ring	⑧ 填料 stuffing
Z962Y-200	WCB	不锈钢 Stainless steel	WCB	2Cr13	WCB	WCB	成型石墨环 Molding graphite ring	柔性石墨 Flexible graphite
Z962Y-P _{s4} 100V Z962Y-P _{s4} 140V	铬钼钒钢 Cr.Mo.V.steel	铬钼钒钢 Cr.Mo.V.steel	铬钼钒钢 Cr.Mo.V.steel	25Cr2Mo1V	碳钢 Carbon steel Cr.Mo.V.steel	WCB	成型石墨环 Molding graphite ring	柔性石墨 Flexible graphite

以上数据仅供参考，用户定货时，请提供连接管尺寸，可根据用户要求设计制造。
All above data is only for reference. Please offer the connet pipe size when the client places an order.
We can manufacture the valve according to the client's request.

Z962Y-250 DN350、400 Z962Y-320 DN250、300、350 Z962Y-P_{s4}170V Z962Y-P_{s4}200V DN250、300**产品特点**

- 采用压力自紧式密封结构，双闸板，两端支管为焊接连接。
- 关闭机构主要由能够调心的模式双闸板、万向顶、夹圈等组成，借阀体内导向筋的引导作升降运动。
- 阀座、阀瓣密封面采用钴基硬质合金等离子喷焊而成。耐磨、抗擦伤性能好。
- 阀杆表面经抗腐蚀性氮化处理，有良好的抗腐蚀的抗擦伤性。
- 阀门的开启和关闭由电动装置来控制，电动装置由专用电机、减速器、转矩控制机构、现场操作机构、手、电动切换机构等组成，除就地操作外，还可以进行远距离操作。

Features

- It adopts pressure self-tightening sealing structure, double gates, and the branch pipes at both ends are welded.
- The closing mechanism is mainly composed of wedge-type double gates, gimbals, clamp rings, etc. which can be adjusted, and is guided by the guide ribs in the valve body for lifting movement.
- The valve seat and valve flap sealing surface are made of cobalt-based hard alloy plasma spray welding. Good wear resistance and scratch resistance.
- The surface of the valve stem is treated with anti-corrosive nitriding, which has good corrosion resistance and scratch resistance.
- The opening and closing of the valve is controlled by an electric device, which is controlled by a dedicated motor, The speed reducer, torque control mechanism, on-site operating mechanism, hand, electric switching mechanism, etc., in addition to local operation, can also be remotely operated.

主要外形连接尺寸(mm) Main external dimensions

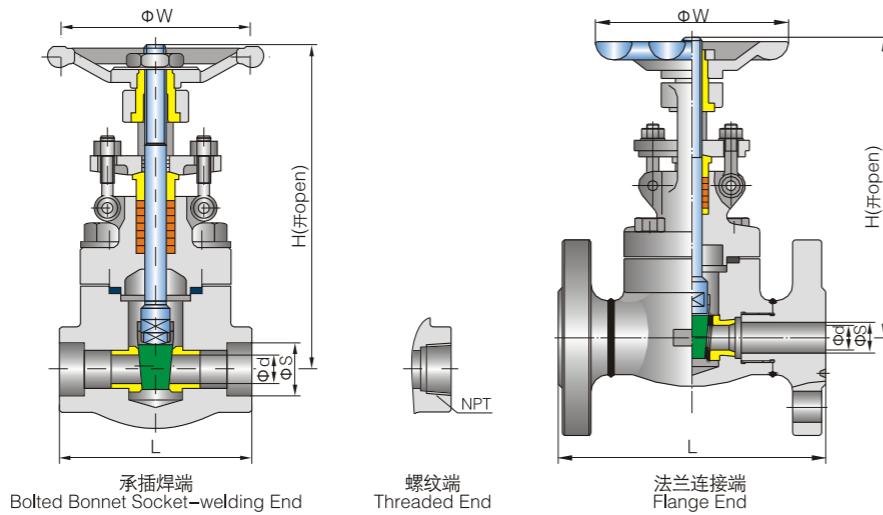
型 号 Model	公称通径 DN(mm) nominal diameter	主要外形尺寸和连接尺寸(mm)			
		H	L	h	D1
Z962Y-250	350	1400	1250(1200)	350	345
	400	1600	1300	420	400
Z962Y-320	250	1000	900	250	250
	300	1150	1100	300	290
Z962Y-P _{s4} 170V	350	1400	1250(1200)	380	345
	250	1000	900	250	250
Z962Y-P _{s4} 200V	300	1150	1100	300	290
	250	1000	900	250	250
Z962Y-350	350	1400	1250(1200)	350	345
	400	1600	1300	420	400

主要零部件材质 Material of main parts

型 号 Model	零件名称 Part name						
	阀体 Valve body	阀座 Valve seat	阀盖 Valve cover	阀杆 valve handle	万向顶 Universal proof	闸板 Valve gate	密封圈 sealing ring
Z962Y-250 Z962Y-320	WCB	不锈钢 Stainless steel	WCB	2Cr13	渗氮钢 Nitriding steel	WCB	成型石墨环 Molding graphite ring
Z962Y-P _{s4} 170V Z962Y-P _{s4} 200V	铬钼钒钢 Cr.Mo.V.steel	铬钼钒钢 Cr.Mo.V.steel	铬钼钒钢 Cr.Mo.V.steel	25Cr2Mo1V	渗氮钢 Carbon steel Cr.Mo.V.steel	铬钼钒钢 Cr.Mo.V.steel	柔性石墨 Flexible graphite

以上数据仅供参考，用户定货时，请提供连接管尺寸，可根据用户要求设计制造。
All above data is only for reference. Please offer the connet pipe size when the client places an order.
We can manufacture the valve according to the client's request.

Class150 ~ Class1500



标准 Standards

设计和制造 Design and Manufacture: API 602

检验和试验 Inspection and Test: API 598

承插焊尺寸 Socket-weld dimension: ASME B16.11

螺纹端尺寸 End threads dimension: ASME B1.20.1.

温压等级 Pressure-temperature ratings: ASME B16.34

主要外形尺寸及重量 Main Outline Dimensions & Weight

磅级 Class	口径 Size		尺寸 Dimensions(mm)						重量 Weight(kg)
	NPS	DN	L	d	S	H	W	NPT	
150 ~ 800	1/2	15	79	9.5	21.8	182	100	1/2	2
	3/4	20	92	12.7	27.1	208	100	3/4	2.5
	1	25	111	17.5	33.8	254	125	1	5
	1 1/4	32	120	23.8	42.6	290	160	1 1/4	6
	1 1/2	40	120	28.6	48.7	330	180	1 1/2	7
	2	50	140	36.5	61.1	372	200	2	11
900	1/2	15	111	9.5	21.8	182	100	1/2	2.5
	3/4	20	111	12.7	27.1	208	100	3/4	4.5
	1	25	120	17.5	33.8	254	125	1	6
	1 1/4	32	120	23.8	42.6	290	160	1 1/4	7
	1 1/2	40	140	28.6	48.7	330	180	1 1/2	11
	2	50	170	36.5	61.1	372	200	2	15
1500	1/2	15	111	9.5	21.8	182	100	1/2	4
	3/4	20	111	12.7	27.1	208	100	3/4	4
	1	25	120	17.5	33.8	254	125	1	7
	1 1/4	32	120	23.8	42.6	290	160	1 1/4	9
	1 1/2	40	140	28.6	48.7	330	180	1 1/2	12
	2	50	162	36.5	61.1	372	200	2	17

产品特点 Products Features:

- 截止阀结构比闸阀简单，制造与维修都较方便。
- 密封面不易磨损及擦伤，密封性好，启闭时阀瓣与阀体密封面之间无相对滑动，因而磨损与擦伤均不严重，密封性能好，使用寿命长。
- 启闭时，阀瓣行程小，因而截止阀高度比闸阀小，但结构长度比闸阀长。
- 启闭力矩大、启闭较费力，启闭时间较长。
- 流体阻力大，因阀体内介质通道较复杂，流体阻力大，动力消耗大。
- 介质流动方向公称压力 $PN \leq 16MPa$ 时，一般采用顺流，介质从阀瓣下方向上流；公称压力 $PN \geq 20MPa$ 时，一般采用逆流，介质从阀瓣上方向下流，以增加密封件能。使用时，截止阀介质只能单方向流动，不能改变流动方向。
- 截止阀的阀杆轴线与阀座密封面垂直。阀杆开启或关闭行程相对较短，并具有非常可靠的切断动作，使得这种阀门适合用于介质的切断或节流。

截止阀系列

Globe valve Services

1. The structure of stop valve is simpler than that of gate valve, and both its manufacturing and maintenance are relatively convenient.

2. The seal surface is not easy to wear and gall and has sound sealing performance. When being opened and closed, there is no relative slip between the valve flap and the seal surface of the valve, thus both the wear and gall are not severe and it has sound sealing performance and long service life.

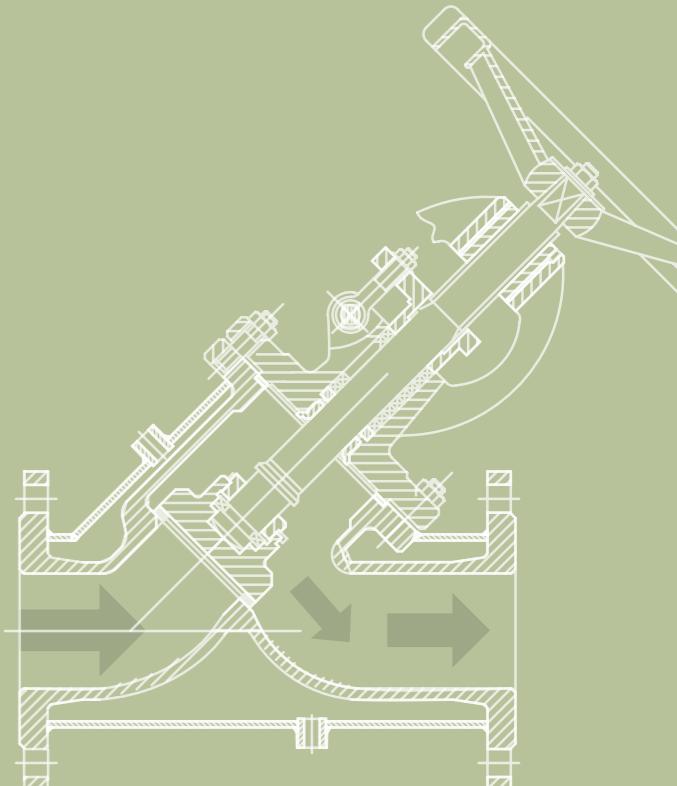
3. When being opened and closed, the travel distance of the valve flap is small, thus the stop valve height is smaller than that of gate valve while the structural length is longer than that of gate valve.

4. When being opened and closed, the force torsion is large and it is laborious to open and close, and the time of opening and closing is relatively long.

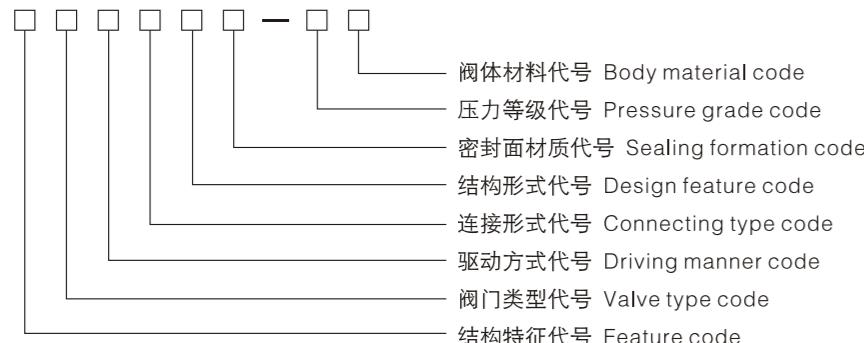
5. The fluid resistance is big because the medium channel in the valve is relatively tortuous. The fluid resistance and the power consumption are big.

6. When the nominal pressure of the medium flow direction $PN \leq 16MPa$, downstream flowing is usually adopted and the medium flows upward from downward direction of the valve flap; When the nominal pressure $PN \geq 20MPa$, upstream flowing is usually adopted, and the medium flows downward from the upper direction of the valve flap. When being used, the stop valve medium could only flow in a single direction and the flow direction could not be changed.

7. The stop valve stem axis of the valve is perpendicular to the seal surface of valve seat. The opening or closing travel distance of the valve stem is relatively short and also it has the very reliable turning off action which enables this kind of valve to be suitable for turning off the medium or functioning as adjustment and throttling.



型号编制说明 Model schedule illustration



● 结构特征代号：体、盖栓接结构(默认) Hs—一体、盖焊接结构 Ps—压力密封结构 FL—节流放空 T—阀套式(阀瓣) K—抗硫

Feature code: Bolted bonnet structure (default) Hs—Welded bonnet structure Ps—Pressure seal structure

FL—Throttle and vent structure T—Sleeve structure(disc) K—Antisulphur model

● 阀门类型代号：J—截止阀

Valve type code: J—Globe valve

● 驱动方式代号：4—正齿轮传动 5—伞齿轮传动 6—气动 6s—气动带手动 7—液动 9—电动 9B—防爆电动(手轮传动略)

Driving manner code: 4—Spur gear transmission 5—Bevel gear transmission 6—Air driving 6s—Pneumatic with manual

7—Hydrodynamic driving 9—Electric driving 9B—Explosion electric driving (Hand wheel driving omitted)

● 连接形式代号：1—内螺纹 2—外螺纹 4—法兰 6—焊接 8—承插焊

Connecting type code: 1—Female thread 2—Male thread 4—Flange 6—Butt-welding 8—socket welding

● 结构形式代号：1—直通式 4—角式

Design feature code: 1—Straight through type 4—Angle type

● 密封面材质代号：Y—硬质合金 H—合金钢 F—增强聚四氟乙烯 X—橡胶

Sealing formation code: Y—Hard alloy H—Alloy steel F—Nitriding steel X—Reinforced polytetrafluoroethylene(PTFE) X—Rubber

● 压力等级代号：公称压力为MPa的10倍、磅级为实际数

Pressure grade code: The 10 times of the nominal pressure MPa, pound grade is practical number

● 阀体材料代号：(1)铸造阀体: C—WCB I—WC6、ZG1Cr5Mo V—WC9、ZG20CrMoV P—CF8、ZG1Cr18Ni9Ti

R—CF8M、ZG1Cr18Ni12Mo2Ti S—CF3 L—CF3M F—LCB N—LC3

(2)锻造阀体: C—A105 E—LF2 A—F11 V—F22 P—F304 R—F316 S—F304L L—F316L

Body material code: (1)Cast the valve body: C—WCB I—WC6、ZG1Cr5Mo V—WC9、ZG20CrMoV P—CF8、ZG1Cr18Ni9Ti

R—CF8M、ZG1Cr18Ni12Mo2Ti S—CF3 L—CF3M F—LCB N—LC3

(2)Forge the valve body: C—A105 E—LF2 A—F11 V—F22 P—F304 R—F316 S—F304L L—F316L

产品结构特点 Products Design Features

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

其主要结构特点有：

- 1、产品结构合理、密封可靠、性能优良、造型美观。
- 2、密封面堆焊Co基硬质合金，耐磨、耐蚀、抗擦伤性能好，使用寿命长。
- 3、阀杆经调质及表面氮化处理，有良好的抗腐蚀性及抗擦伤性。
- 4、公称压力≥25.0MPa中腔采用自紧密封式结构，密封性能随压力升高而增强，保证了密封性能。
- 5、阀门设有倒密封结构，密封可靠。
- 6、零件材质及法兰、对焊端尺寸可根据实际工况或用户要求合理选配，满足各种工程需要。
- 7、阀门的型号根据JB/T308《阀门型号编制方法》进行编制。

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

The main structure features include:

1. Reasonable structure, reliable sealing, excellent performance, pretty appearance.
2. Co-based hard alloy welded on sealing surface, which is wear and corrosion resistance anti-abrasion performance for long service life.
3. The stem is hardening and tempering treatment & nitriding treatment with good corrosive resistance and abrasion resistance.
4. The middle cavity uses a self-tightening sealing structure for PN≥15.0MPa so that the sealing performance is enhanced with pressure increasing.
5. There is backseat design structure in the valve, so the sealing is reliable.
6. The material of the filling and the flange size can be chosen and matched according to the applications and the requirements of the use's. That can satisfies all kinds of working requirements.
7. Valve models are compiled according to JB/T308 "Valve Model Designation Method".

产品主要参数 Main Parameter of the Products

基本型号 Basic models	(Hs、Ps)J11H、(Hs、Ps)J11Y、(Ps)J41H、(Ps)J41Y、(Ps)J541H、(Ps)J541Y、(Ps)J941H、(Ps)J941Y (Ps)J61H、(Ps)J61Y、(Ps)J561H、(Ps)J561Y、(Ps)J961H、(Ps)J961Y		
压力等级范围 Pressure grade range	PN1.6 ~ 42.0MPa		
通径范围 Nominal diameter range	DN15 ~ 400mm		
驱动方式 Driving manner	手轮驱动 Handwheel driving		齿轮动、电动 Bevelgear and electric driving
适用范围 Scope of application	PN1.6 ~ 2.5 DN15 ~ 300mm	PN6.4 ~ 16.0 (DN15 ~ 400mm)	Dn15 ~ 600mm

产品性能规范 Products Performance Specification

压力等级 Pressure	常温试验压力(MPa) Pressure test at ambient temperature (Mpa)			适用温度 Applicable temperature	适用介质 Applicable medium
	壳体试验 Shell test	密封试验 Seal test	上密封试验 Backseat test		
公称压力 (MPa) Nominal pressure (PN)	1.6	2.4	1.76	1.76	水、油品、蒸汽等 Water, oil, steam,etc.
	2.5	3.75	2.75	2.75	
	4.0	6.0	4.4	4.4	
	6.4	9.6	7.04	7.04	
	10.0	15.0	11.0	11.0	
	16.0	24.0	17.6	17.6	
	25.0	37.5	27.5	27.5	

产品采用标准 Technical Specification

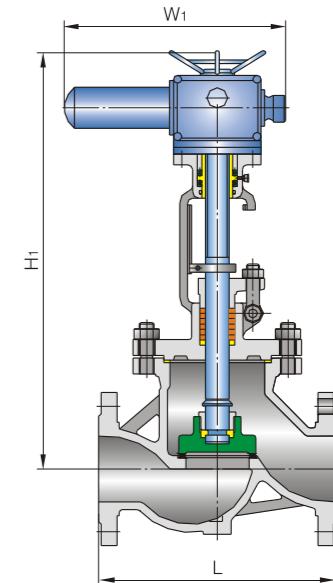
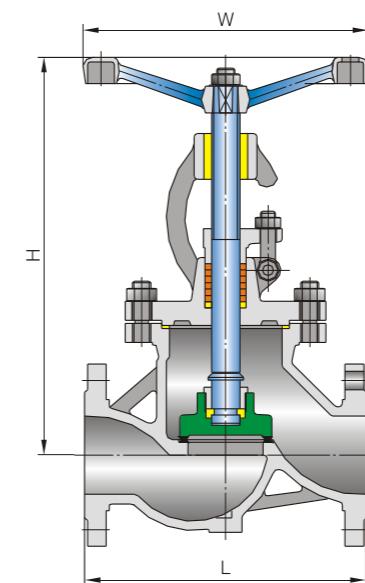
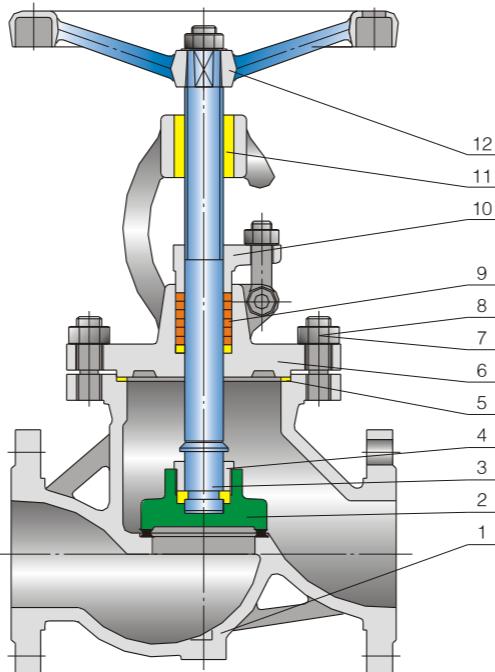
结构形式 Structural feature	栓接阀盖明杆支架结构 Bolted bonnet, outside stem yoke structure
驱动方式 Driving manner	手动、齿轮传动、电动 Handwheel, bevelgear, electric operated
设计标准 Design standard	GB/T 12235
结构长度 Face to face	GB/T 12221
连接法兰 Flanged ends	GB/T 9113、JB/T 79、HG20592
试验和检验 Test & inspection	JB/T 9092

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 dimensions of valve connecting flange and butt-welding ends can be designed according to customer's requirement.



主要零件材料 Major Parts Material Form

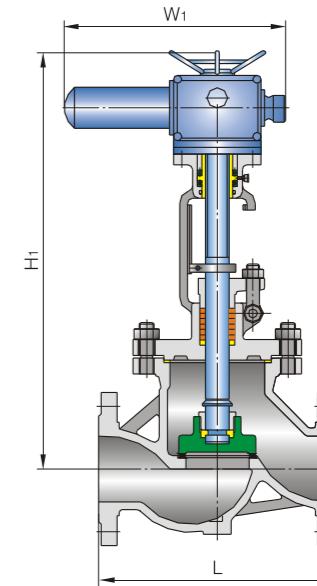
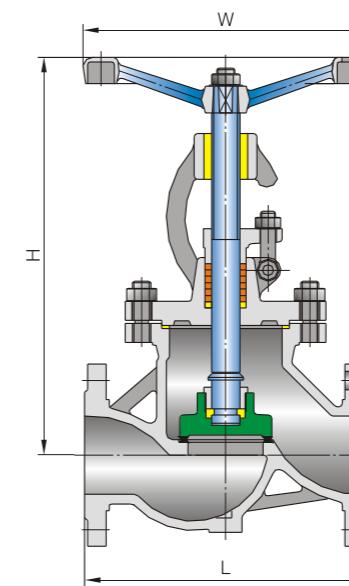
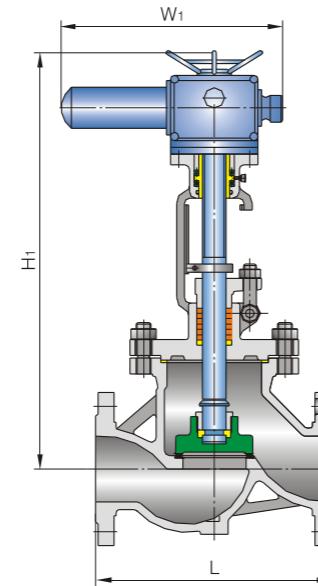
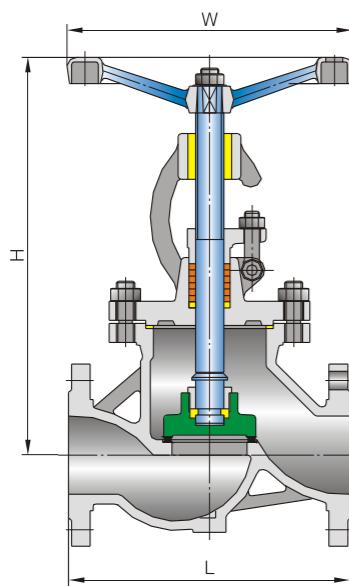
序号 No.	零件名称 Parts name	材 质 Material
1	阀体 Body	WCB、LCB、WC1、WC6、WC9、C5 CF8、CF8M、CF8C、CF3、CF3M
2	阀瓣 Disc	25、1Cr13、2Cr13、1Cr18Ni9Ti、 0Cr18Ni12Mo2Ti、20Cr1Mo1V、25Cr2MoV
3	阀杆 Stem	1Cr13、2Cr13、1Cr18Ni9 0Cr18Ni12Mo2Ti、20Cr1Mo1V、25Cr2MoV
4	阀瓣盖 Disc cover	25、1Cr13、2Cr13、1Cr18Ni9Ti、 0Cr18Ni12Mo2Ti、20Cr1Mo1V、25Cr2MoV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



主要外形尺寸及重量 Main Outline Dimensions & Weight

型号Model: J41H、J41Y、J41W、J41N、J941H、J941Y、J941W、J941N

PN (MPa)	DN (mm)	L	传动方式 Driving Manner			手动 Handwheel		电动 Electric		
			H	W	重量 Weight (kg)	H ₁	W ₁	电动装置 Electric Driving	重量 Weight (kg)	
1.6	15	130	218	120	5.3	-	-	-	-	
	20	150	260	140	7.2	-	-	-	-	
	25	160	275	160	7.5	-	-	-	-	
	32	180	282	180	8.7	-	-	-	-	
	40	200	332	200	12.4	-	-	-	-	
	50	230	350	240	14	642	960	DZW10A	50	
	65	290	405	280	22.5	695	960	DZW10A	62	
	80	310	360	280	29.5	712	960	DZW10A	65	
	100	350	412	320	34	772	960	DZW15A	73	
	125	400	462	360	80	785	960	DZW20A	120	
	150	480	510	400	95	812	960	DZW30A	212	
	200	600	715	400	178	965	1325	DZW45A	325	
2.5	250	650	789	450	438	1138	1325	DZW60A	552	
	300	750	925	500	650	1285	1370	DZW90	783	
	15	130	218	120	5.5	-	-	-	-	
	20	150	260	140	7.4	-	-	-	-	
	25	160	275	160	7.8	-	-	-	-	
	32	180	282	180	8.7	-	-	-	-	
	40	200	332	200	12.4	-	-	-	-	
	50	230	350	240	15	642	960	DZW10A	52	
	65	290	405	280	24.5	695	960	DZW10A	63	
	80	310	360	280	31	712	960	DZW15A	68	
	100	350	412	320	36	772	960	DZW20A	75	
	125	400	462	360	88	785	960	DZW30A	122	
	150	480	510	400	98	812	1325	DZW45A	215	
	200	600	715	400	183	965	1325	DZW60A	327	
	250	650	789	450	443	1138	1370	DZW90	555	
	300	750	925	500	654	1285	1370	DZW120	786	



主要外形尺寸及重量 Main Outline Dimensions & Weight

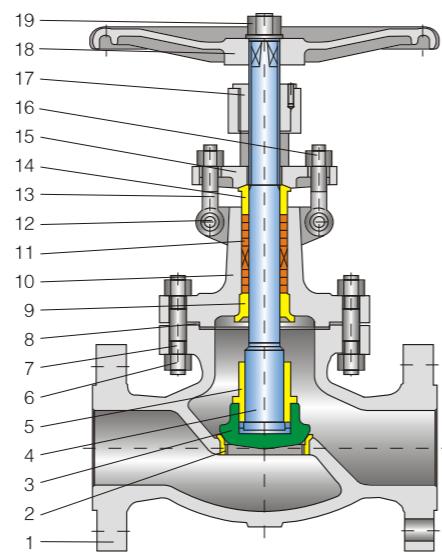
型号 Model: J41H、J41Y、J41W、J41N、J941H、J941Y、J941W、J941N

传动方式 Driving Manner			手动 Handwheel			电动 Electric			
PN (MPa)	DN (mm)	L	H	W	重量 Weight (kg)	H ₁	W ₁	电动装置 Electric Driving	重量 Weight (kg)
4.0	15	130	235	120	5.9	-	-	-	-
	20	150	278	140	7.5	-	-	-	-
	25	160	288	160	8.0	-	-	-	-
	32	180	305	180	8.9	-	-	-	-
	40	200	358	200	12.5	-	-	-	-
	50	230	378	240	15.2	642	960	DZW10A	61
	65	290	408	280	24.6	695	960	DZW10A	78
	80	310	435	320	32	712	960	DZW20A	85
	100	350	482	360	40	772	960	DZW30A	105
	125	400	555	400	90	785	1325	DZW45A	205
	150	480	613	400	105	812	1325	DZW60A	228
	200	600	725	400	189	965	1370	DZW90	400
	15	170	218	140	10.2	-	-	-	-
	20	190	260	160	13.5	-	-	-	-
	25	210	275	180	15	-	-	-	-
6.4	32	230	325	200	20	-	-	-	-
	40	260	360	240	25	-	-	-	-
	50	300	410	280	36	710	960	DZW10A	65
	65	340	450	320	47	752	960	DZW15A	78
	80	380	485	360	55	785	960	DZW30A	85
	100	430	535	400	123	835	1325	DZW45A	173
	125	500	630	400	130	1030	1325	DZW60A	245
	150	556	650	450	155	1065	1370	DZW90	300
	200	650	810	500	285	1215	1370	DZW120	420

主要外形尺寸及重量 Main Outline Dimensions & Weight

型号 Model: J41H、J41Y、J41W、J41N、J941H、J941Y、J941W、J941N

传动方式 Driving			手动 Hand operated			电动 Electric			
PN (MPa)	DN (mm)	L	H	W	重量 Weight (kg)	H ₁	W ₁	电动装置 Electric Driving	重量 Weight (kg)
10.0	15	170	220	120	10.5	-	-	-	-
	20	190	260	140	14	-	-	-	-
	25	210	275	160	15.5	-	-	-	-
	32	230	325	180	21	-	-	-	-
	40	260	360	200	26.5	-	-	-	-
	50	300	415	240	27	715	960	DZW20A	82
	65	340	455	280	49	760	960	DZW30A	105
	80	380	485	280	56	788	1325	DZW45A	178
	100	430	538	320	125	840	1325	DZW60A	195
	125	500	635	360	134	1032	1370	DZW90	288
	150	550	650	400	158	1072	1370	DZW120	450
	200	650	812	400	288	1220	1395	DZW180	855
16.0	15	170	220	140	12.5	-	-	-	-
	20	190	262	160	15.5	-	-	-	-
	25	210	275	180	18	-	-	-	-
	32	230	326	200	22	-	-	-	-
	40	260	362	240	35	-	-	-	-
	50	300	417	250	53	745	960	DZW30A	95
	65	340	455	320	72	825	1325	DZW45A	165
	80	380	485	400	101	940	1370	DZW90	220
	100	430	540	450	120	1152	1370	DZW120	240
	125	500	-	-	-	1185	1435	DZW180	500
	150	550	-	-	-	1230	1435	DZW250	678
	200	650	-	-	-	1500	1785	DZW350	1125



标准 Standards

设计制造 Design and manufacture: BS1873 or ASME B16.34

承插焊端 Socket-weld dimension: ASME B16.11

检验与试验 Inspection and test: API 598

结构长度 Face to face or end to end: ASME B16.10

法兰连接尺寸 End flange dimension: ASME B16.5

高压等级 Pressure-temperature ratings: ASME B16.34

对焊端 BW end dimension: ASME B16.25

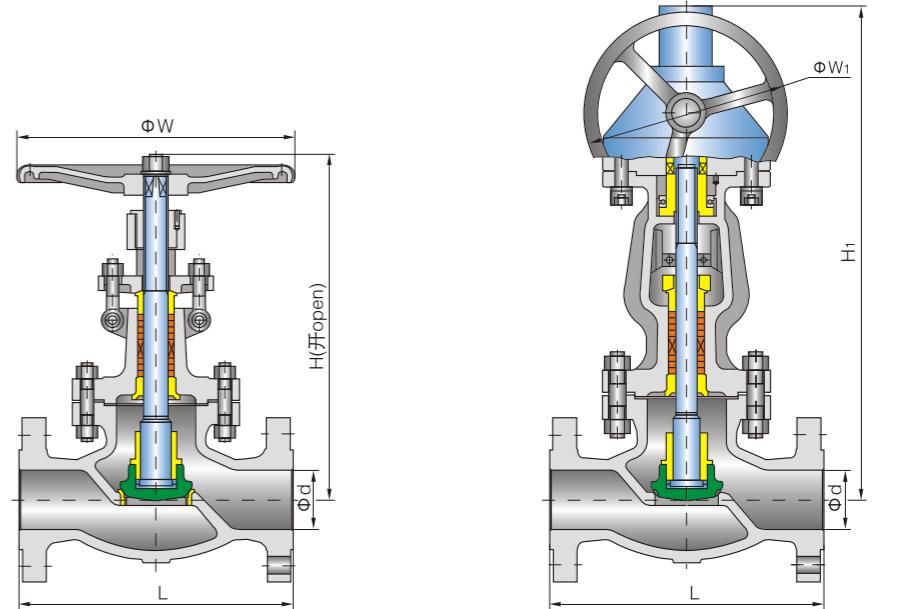
主要零件名称及材料 Parts and Material List

Parts No.	Parts Name	Materials				
		WCB/Trim 1	WCB/Trim 5	WCB/Trim 8	CF8/304	CF8M/316
1	阀体 Body	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
2	阀座 Seat ring	A105 + 13Cr	A105 + STL	A105 + STL	ASTM A351 CF8	ASTM A351 CF8M
3	阀瓣 Disc	ASTM A216 WCB + 13Cr	ASTM A216 WCB + STL	ASTM A216 WCB + 13Cr	ASTM A351 CF8	ASTM A351 CF8M
4	阀杆 Stem	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F304	ASTM A182 F316
5	阀瓣盖 Disc nut	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
6	阀盖螺母 Bonnet nut	ASTM A194 2H	ASTM A194 2H	ASTM A194 2H	ASTM A194 8	ASTM A194 8M
7	阀盖螺柱 Bonnet bolt	ASTM A193 B7	ASTM A193 B7	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8M
8	垫片 Gasket	304SS + Graphite	304SS + Graphite	304SS + Graphite	304SS + Graphite	316SS + Graphite
9	上密封座 Backseat bushing	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F6a	ASTM A351 CF8	ASTM A351 CF8M
10	阀盖 Bonnet	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
11	填料 Packing	Graphite	Graphite	Graphite	Graphite	Graphite
12	圆柱销 Eyebolt pin	ASTM A36	ASTM A36	ASTM A36	304ss	316ss
13	螺钉 Gland eyebolt	ASTM A193 B7	ASTM A193 B7	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8M
14	填料压套 Gland	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F304	ASTM A182 F316
15	填料压板 Gland flange	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
16	吊环螺母 Eyebolt nut	ASTM A194 2H	ASTM A194 2H	ASTM A194 2H	ASTM A194 8	ASTM A194 8M
17	阀杆螺母 Stem nut	ASTM A439 D2	ASTM A439 D2	ASTM A439 D2	ASTM A439 D2	ASTM A439 D2
18	手轮 Hand wheel	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron
19	手轮螺母 Hand wheel nut	Carbon steel	Carbon steel	Carbon steel	Carbon steel	Carbon steel

注：上表仅列出了铸钢截止阀零部件材料的最常用配置，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 the commonest materials formulation for steel globe valves. We may provide other different parts materials according to the customer's request or the actual valve working condition.

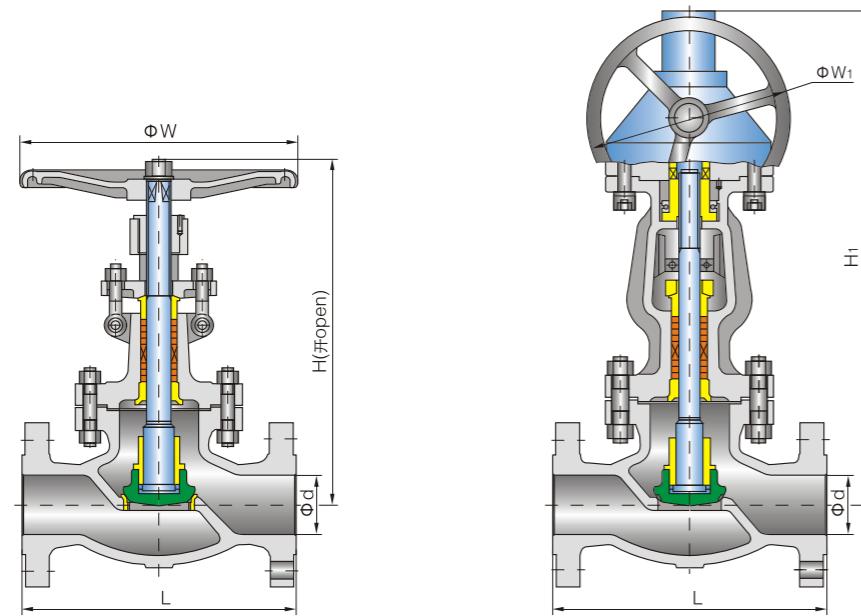
Class150 & JIS10K



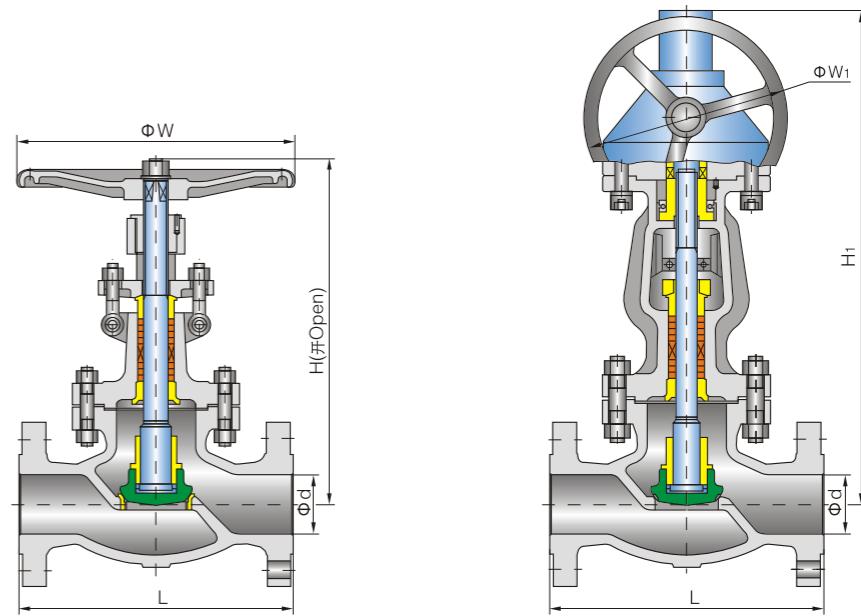
主要外形尺寸及重量 Main Outline Dimensions & Weight

磅级 Class	口径 Size		尺寸 Dimensions(mm)						重量 Weight(kg)		手轮 Handwheel	传动装置 Bevel Gear
	NPS	DN	L			d	H	H ₁	W	W ₁		
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

Class300 & JIS20K



Class600 & Class900



主要外形尺寸及重量 Main Outline Dimensions & Weight

磅级 Class	口径 Size		尺寸 Dimensions(mm)							重量 Weight(kg)		
	NPS	DN	L			d	H	H ₁	W	W ₁	手轮 Handwheel	传动装置 Bevel Gear
			RF	RTJ	BW							
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

主要外形尺寸及重量 Main Outline Dimensions & Weight

磅级 Class	口径 Size		尺寸 Dimensions(mm)							重量 Weight(kg)		
	NPS	DN	L			d	H	H ₁	W	W ₁	手轮 Handwheel	传动装置 Bevel Gear
			RF	RTJ	BW							
600	2	50	292	295	292	51	360	-	250	-	32	-
	2 1/2	65	330	333	330	64	410	-	280	-	42	-
	3	80	356	359	356	76	465	-	300	-	63	-
	4	100	432	435	432	102	545	575	400	310	107	138
	5	125	508	511	508	127	625	660	500	310	185	215
	6	150	559	562	559	152	785	820	550	460	290	342
	8	200	660	664	660	200	930	960	650	460	540	645
	2	50	368	371	368	47	480	-	350	-	55	-
900	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

执行标准

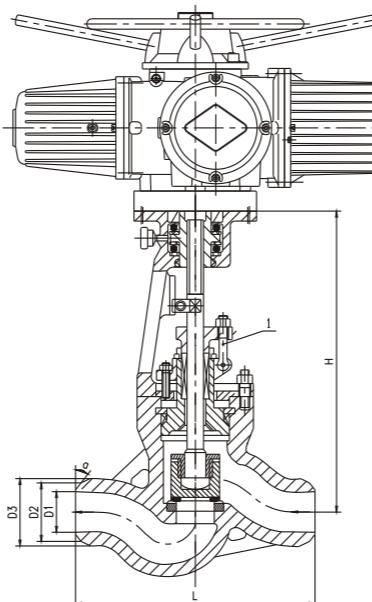
- 1、设计制造与验收按日本火力发电阀门标准E101和NB/T47044、DL/T5351标准规定
- 2、结构长度按GB/12221、E101、JB/T2766、GB/T15188.1的规定或按用户要求
- 3、压力-温度等级按E101、NB/T47044的标准规定
- 4、焊接坡口尺寸按GB/T12224、NB/T47044、ASME B16.25标准规定或按用户配管尺寸要求

Executive Standard

1. The design, manufacture and acceptance are in accordance with the Japanese thermal power valve standards E101 and NB / T47044, DL / T5351 standards
2. The length of the structure is in accordance with the provisions of GB / 12221, E101, JB / T2766, GB / T15188.1 or according to user requirements
3. The pressure-temperature grade is in accordance with the standards of E101 and NB / T47044
4. Welding groove size is according to GB / T12224, NB / T47044, ASME B16.25 standards or according to user piping size

性能规范 Performance specifications

公称压力PN nominal diameter (Mpa)	试验压力Ps(Mpa) testing pressure		工作压力(Mpa) working pressure		工作温度 working temperature °C	适用介质 applicable medium
	强度 strength	密封(液) sealing(liquid)	P ₅₄	P ₅₅	P ₅₇	
10.0	15.0	11.0				水、蒸汽 water steam
16.0	24.0	17.6				油品 oil
20.0	30.0	22.0				水、蒸汽 water steam
25.0	37.5	27.5				油品 oil
32.0	48.0	36.0				水、蒸汽 water steam
P ₅₄ 10	30.0	11.0	10			
P ₅₄ 14	37.5	15.4	14			
P ₅₄ 17	48.0	18.7	17			
P ₅₅ 10	37.5	11.0		10		
P ₅₅ 14	48.0	15.4		14		
P ₅₅ 17	53.0	18.7		17		
P ₅₇ 10	48.0	25.0			10	
P ₅₇ 14	55.0	32.0			14	
P ₅₇ 17	60.0	35.0			17	

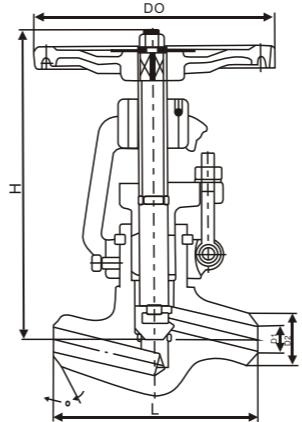


主要零部件材质 Material of main parts

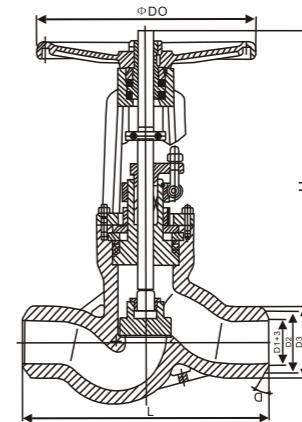
零件名称 the part name	材质 materials
阀体 valve body	WCB、WC6、WC9、12Cr1MoV、15Cr1MoV
阀瓣 valve disc	25、WC6、12Cr1MoV
阀杆 valve handle	2Cr13、25Cr2Mo1V
阀瓣 盖 valve disc and cover	25、WC6、12Cr1MoV
阀盖 valve cover	WCB、WC6、12Cr1MoV、
垫片 spacer	柔性石墨+不锈钢 flexible graphite stainless steel
支架 support	WCB、WC6
双头螺柱 studs	ASTMA193-B7、A320-B8、A193-B8M
六角螺母 hexagon nut	ASTMA194-2H、A194-8、A194-8M
填料 stuffing	柔性石墨 flexible graphite
填料压套 stuffing cover	25、WC6、12Cr1MoV
填料压盖 packing gland	WCB、25、WC6、12Cr1MoV
阀杆螺母 valve body nut	铜合金 Copper Alloys
传动装置 drive device	组合件 assembly parts



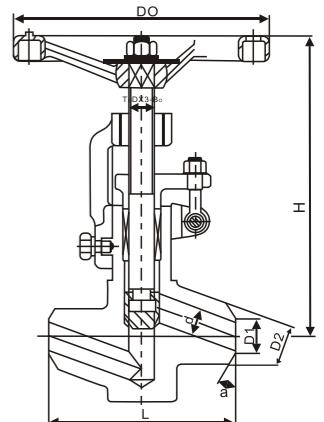
主要外形连接尺寸(mm) Main external dimensions



南通式



压力自紧式

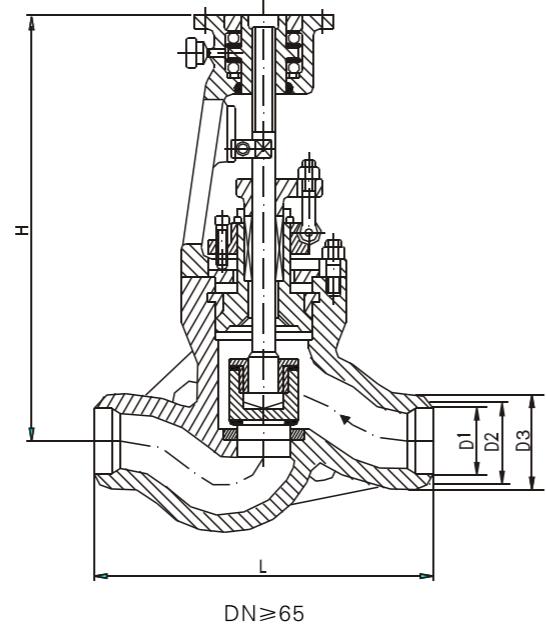
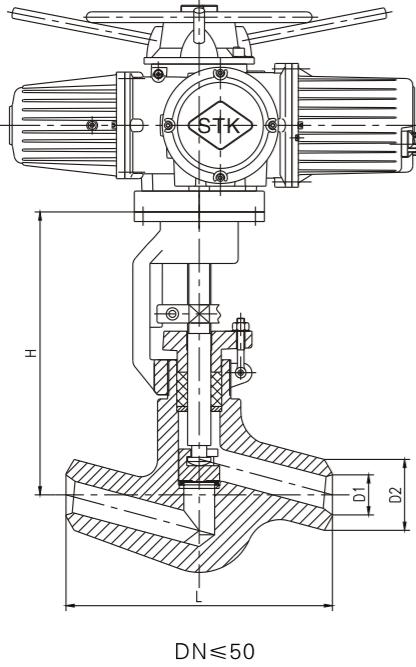


哈锅式

公称通径 Nominal diameter	主要外形连接尺寸(mm) Main external dimensions							重量(kg) Weight
	L	D1	D2	D3	a	H	D0	
J61Y-100、200、250、320 J61Y-P54 100V P54 140V P54 170V								
10	110	9	25	/	37.5°	185	140	2.5
15	150	17	36	/	37.5°	247	200	7.5
20	150	19	42	/	37.5°	248	200	9
25	180	26	42	/	37.5°	248	240	9.5
32	180	31	44	/	37.5°	248	280	15
40	250	38	60	/	37.5°	440	280	23
50	250	50	82	/	32°	450	320	64
65	400	69	100	110	32°	669	400	74
80	700	80	108	130	32°	669	450	112.5
100	700	100	144	165	32°	755	500	178.5
125	900	125	/	175	32°	795	500	295
J61Y-P55 100V P55 140V P55 170V J61Y-P57 100V P57 140V P57 170V								
10	110	12	28	/	37.5°	189	140	3
15	150	17	40	/	37.5°	250	200	9
20	150	22	46	/	37.5°	252	200	11
25	180	26	46	/	37.5°	254	240	13
32	180	31	49	/	37.5°	254	280	17
40	250	38	60	/	37.5°	440	280	23
50	250	50	90	/	32°	455	320	72
65	400	69	104	110	32°	630	400	83
80	700	80	110	130	32°	672	450	118
100	700	100	148	165	32°	761	500	185
125	900	125	/	175	32°	795	500	398

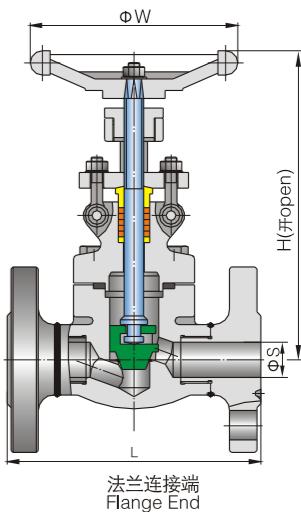
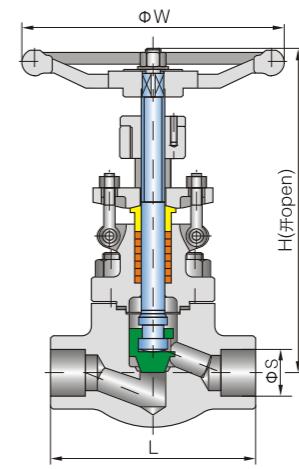
注: 可根据用户要求选配电动、齿轮传动装置。以上数据仅供参考、用户定货时, 请提供连接管尺寸。
Note: we can choose electric、wheel driving device according to the user's requirements. All above data are only reference. Please provide the connect pipe dimensions when place an order.

主要外形连接尺寸(mm) Main external dimensions



公称通径 Nominal diameter	主要外形连接尺寸(mm) Main external dimensions					H
	L	D1	D2	D3	a	
J61Y-100、200、250、320 J61Y-P54 100V P54 140V P54 170V						
15	150	17	36	/	37.5°	518
20	150	19	42	/	37.5°	518
25	180	26	42	/	37.5°	518
32	180	31	44	/	37.5°	545
40	250	38	60	/	37.5°	560
50	250	50	82	/	32°	748
65	400	69	100	110	32°	829
80	700	80	108	130	32°	898
100	700	100	144	165	32°	913
125	900	125	/	175	32°	/
J61Y-P55 100V P55 140V P55 170V J61Y-P57 100V P57 140V P57 170V						
15	150	17	40	/	37.5°	518
20	150	22	46	/	37.5°	518
25	180	26	46	/	37.5°	518
32	180	31	49	/	37.5°	545
40	250	38	60	/	37.5°	560
50	250	50	90	/	32°	748
65	400	69	104	110	32°	829
80	700	80	110	130	32°	898
100	700	100	148	165	32°	913
125	900	125	/	175	32°	/

Class150 ~ Class1500



标准 Standards

设计和制造 Design and manufacture: API 602

检验和试验 Inspection and test: API 598

承插焊尺寸 Socket-weld dimension: ASME B16.11

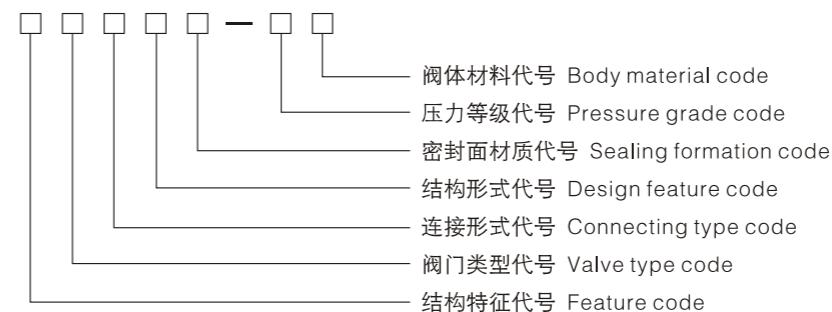
螺纹端尺寸 End threads dimension: ASME B1.20.1.

温压等级 Pressure-temperature ratings: ASME B16.34

主要外形尺寸及重量 Main Outline Dimensions & Weight

磅级 Class	规格 Size		尺寸 Dimensions(mm)						重量 Weight(kg)
	NPS	DN	L	d	S	H	W	NPT	
150 ~ 800	1/2	15	79	9.5	21.8	158	100	1/2	2
	3/4	20	92	12.7	27.1	192	100	3/4	3
	1	25	111	17.5	33.8	252	125	1	4
	1 1/4	32	120	23.8	42.6	252	160	1 1/4	6
	1 1/2	40	152	28.6	48.7	289	180	1 1/2	7
	2	50	172	36.5	61.1	330	200	2	11
900 ~ 1500	1/2	15	111	9.5	21.8	207	100	1/2	2
	3/4	20	111	12.7	27.1	207	100	3/4	3
	1	25	130	17.5	33.8	240	125	1	4
	1 1/4	32	152	23.8	42.6	258	160	1 1/4	6
	1 1/2	40	172	28.6	48.7	290	180	1 1/2	8
	2	50	220	36.5	61.1	337	200	2	13

型号编制说明 Model schedule illustration



- 结构特征代号：栓接阀盖结构(省略) Ps—压力密封结构
Feature code: Bolted bonnet structure omitted Ps—Pressure seal structure

- 阀门类型代号：H—止回阀
Valve type code: H—Check valve

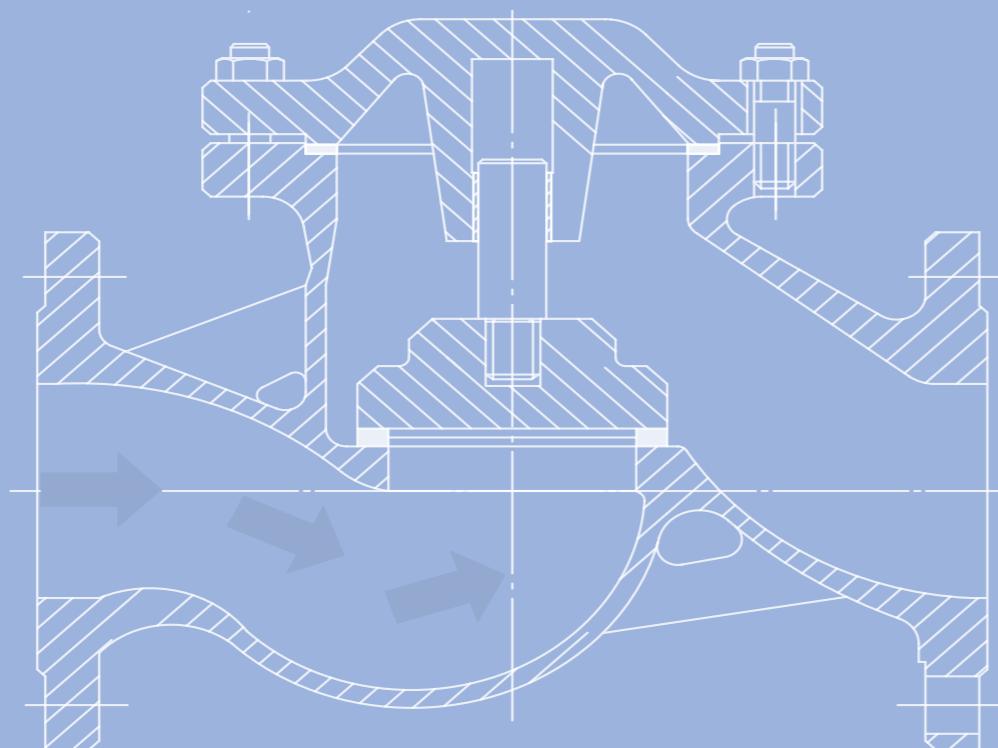
- 连接形式代号：1—内螺纹 2—外螺纹 4—法兰 6—焊接 7—对夹 8—承插焊
Connecting type code: 1—Female thread 2—Male thread 4—Flange 6—Butt-welding 7—Wafer 8—Socket welding

- 结构形式代号：1—升降式 2—升降立式 4—单瓣旋启式 6—双瓣旋启式
Design feature code: 1—Lifting type 2—Lifting vertical type 4—Single-disc swing type 6—Dual-disc swing type

- 密封面材质代号：Y—硬质合金 H—合金钢 X—橡胶 F—聚四氟乙烯
Sealing formation code: Y—Hard alloy H—Alloy steel X—Rubber F—Polytetrafluoroethylene (PTFE)

- 压力等级代号：公称压力为MPa的10倍、磅级为实际数
Pressure grade code: The 10 times of the nominal pressure MPa, pound grade is practical number

- 阀体材料代号(国标材质代号与下列相应材质代号等同):
 - (1)铸造阀体: C—WCB I—WC6、ZG1Cr5Mo V—WC9、ZG20CrMoV P—CF8、ZG1Cr18Ni9Ti R—CF8M、ZG1Cr18Ni12Mo2Ti S—CF3 L—CF3M F—LCB N—LC3
 - (2)锻造阀体: C—A105 E—LF2 A—F11 V—F22 P—F304 R—F316 S—F304L L—F316L
- Body material code: (1) Cast the valve body: C—WCB I—WC6、ZG1Cr5Mo V—WC9、ZG20CrMoV P—CF8、ZG1Cr18Ni9Ti R—CF8M、ZG1Cr18Ni12Mo2Ti S—CF3 L—CF3M F—LCB N—LC3
 (2)Forge the valve body: C—A105 E—LF2 A—F11 V—F22 P—F304 R—F316 S—F304L L—F316L



产品结构特点 Products Design Features

止回阀适用于压力PN1.6~16.0MPa, 工作温度-196~600℃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。

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. 产品可根据不同的工况选择软质密封或硬质密封。密封面堆焊Co基硬质合金，耐磨、耐蚀、抗擦伤性能更好，使用寿命长。
3. 开启压力小，阀瓣在很小的压差下就能完全打开。
4. 内装式的销轴结构，减小外泄漏点，使用可靠。
5. 公称压力≥16.0MPa中腔采用自紧式密封结构，密封性能随压力升高而增强，保证了密封性能。
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。
7. 阀门的型号根据JB/T308《阀门型号编制方法》进行编制

Check valves are used in pipes under pressures between PN1.6~16.0MPa, working temperatures -196~600℃. They are used in various industries such as oil, chemical, pharmaceutical, fertilizer, and power station to prevent the flow backward of media.

The main structural features includes:

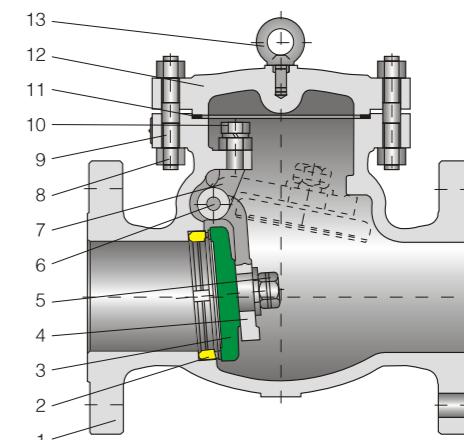
1. Reasonable structure, reliable sealing, good performance and nice modeling.
2. Both soft and hard sealing can be selected for the products upon different working conditions. The sealing face is overlayed Co-based alloy, leaving a better wearability, corrosion and scrap resistance and a longer duration.
3. Small opening pressure, the disc can be opened fully with a very small pressure difference.
4. Pin bearing inside structure reduces leakage and reliable application.
5. PN≥16.0MPa, the middle cavity uses a self-tightening sealing structure to have the sealing performance reinforced along with the pressure rise so as to ensure the sealing performance.
6. Different parts materials, different flange and butt-welding dimensions are available for sensible selection according to different working conditions and customers' requirements.
7. Valve models are compiled per JB/T308 "Valve Model Designation Method"

产品主要参数 Main Parameter of the Products

基本型号 Basic models	(Ps)H44H(Y)、(Ps)H64H(Y)、(Ps)H41H(Y)、(Ps)H61H(Y)、(Ps)H42H(Y)、(Ps)H62H(Y) (Ps)H74H(Y)、(Ps)H71H(Y)、(Ps)H76H(Y)、(Ps)H72H(Y)		
压力等级范围 Pressure grade range	PN1.6~42.0MPa		
通径范围 Nominal diameter range	DN15~1000mm		

产品性能规范 Products Performance Specification

压力等级 Pressure	常温试验压力(MPa) Pressure test at ambient temperature (Mpa)		适用温度 Applicable temperature	适用介质 Applicable medium
	壳体试验 Shell test	密封试验 Seal test		
公称压力 (MPa) Nominal pressure (PN)	1.6	2.4	1.76	水、油品、蒸汽等 Water, oil, steam, etc. -196~600℃
	2.5	3.75	2.75	
	4.0	6.0	4.4	
	6.4	9.6	7.04	
	10.0	15.0	11.0	
	16.0	24.0	17.6	
	25.0	37.5	27.5	



标准 Standards

设计和制造 Design and manufacture: BS1868 or API 6D

检验和试验 Inspection and test: API 598 or API 6D

法兰连接尺寸 End flange dimension: ASME B16.5、ASME B16.47 A、MSS SP-44; ASME B16.47 B、API 605

对焊接 BW end dimension: ASME B16.25

结构长度 Face to face and end to end: ASME B16.10

温压等级 Pressure-temperature ratings: ASME B16.34

壁厚尺寸 Wall thickness dimension: API 600 and BS 1868

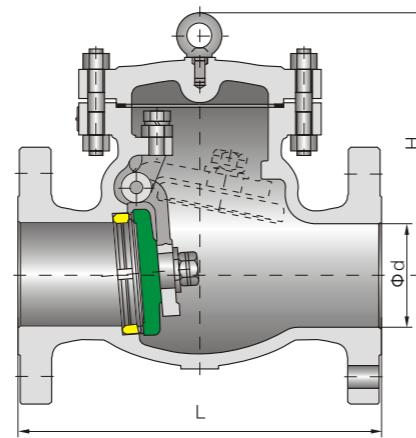
主要零件名称及材料 Parts and Material List

序号 Parts No.	零件名称 Parts Name	材料 Materials				
		WCB/Trim 1	WCB/Trim 5	WCB/Trim 8	CF8/304	CF8M/316
1	阀体 Body	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
2	阀座 Seat ring	A105 + 13Cr	A105 + STL	A105 + STL	ASTM A351 CF8	ASTM A351 CF8M
3	阀瓣 Disc	ASTM A216 WCB + 13Cr	ASTM A216 WCB + STL	ASTM A216 WCB + 13Cr	ASTM A351 CF8	ASTM A351 CF8M
4	摇臂 Arm	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
5	螺母 Nut	ASTM A194 2H	ASTM A194 2H	ASTM A194 2H	ASTM A194 8	ASTM A194 8M
6	销 Arm pin	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F304	ASTM A182 F316
7	支架 Yoke	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
8	阀盖螺母 Bonnet nut	ASTM A194 2H	ASTM A194 2H	ASTM A194 2H	ASTM A194 8	ASTM A194 8M
9	阀盖螺柱 Bonnet bolt	ASTM A193 B7	ASTM A193 B7	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8M
10	螺栓 Bolt	ASTM A193 B7	ASTM A193 B7	ASTM A193 B7	ASTM A193 B8	ASTM A193 B8M
11	垫片 Gasket	304SS + Graphite	304SS + Graphite	304SS + Graphite	304SS + Graphite	316SS + Graphite
12	阀盖 Bonnet	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
13	活节螺栓 Eye bolt	ASTM A181	ASTM A181	ASTM A181	ASTM A181	ASTM A181

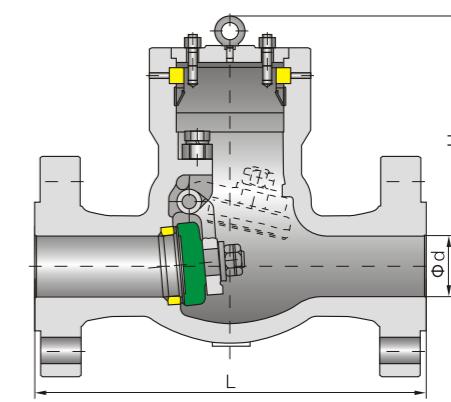
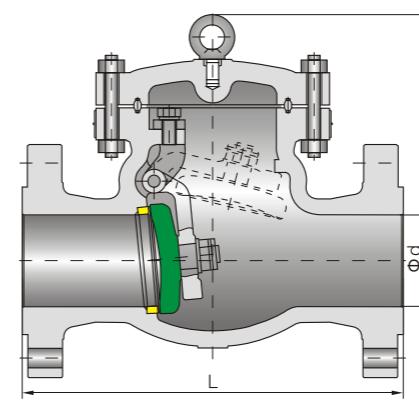
注：上表仅列出了铸钢止回阀零部件材料的最常用配置，根据用户要求或阀门的实际使用工况，我公司可以提供其他多种不同的零部件材料配置。

Note: The chart above only lists out the commonest materials formulation for cast steel check valves. We may provide other different parts materials according to the customer's request or the actual valve working condition.

Class150 & Class300



Class600 ~ Class2500



主要外形尺寸及重量 Main Outline Dimensions & Weight

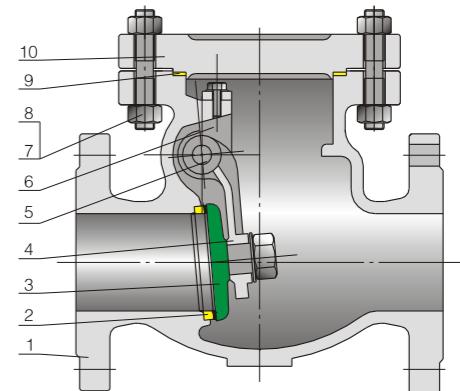
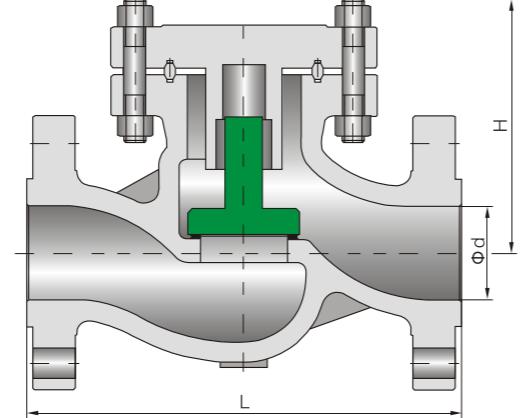
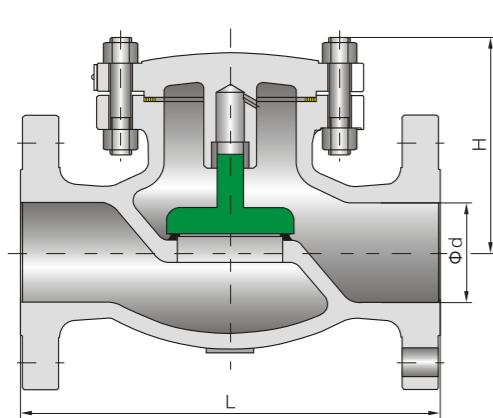
规格 Size		Class 150						Class 300					
NPS	DN	尺寸 Dimensions(mm)			重量 Weight (kg)	尺寸 Dimensions(mm)			重量 Weight (kg)	尺寸 Dimensions(mm)			重量 Weight (kg)
		L		d		L		d		L		d	
RF	RTJ	BW	RF	RTJ	BW	RF	RTJ	BW	RF	RTJ	BW	RF	RTJ
2	50	203	216	203	15	267	283	267	51	144	20	292	311
2½	65	216	229	216	20	292	308	292	64	169	35	330	350
3	80	241	254	241	27	318	333	318	76	210	40	356	376
4	100	292	305	292	45	356	371	356	102	260	61	432	452
5	125	330	343	330	58	400	416	400	127	295	80	508	528
6	150	356	368	356	69	445	460	445	152	326	130	559	579
8	200	495	508	495	131	533	549	533	203	380	190	660	680
10	250	622	635	622	219	622	638	622	254	440	296	787	807
12	300	699	711	698	305	480	321	711	727	711	305	520	450
14	350	787	800	787	337	530	380	838	854	838	337	540	640
16	400	864	876	864	387	580	560	864	879	864	387	588	850
18	450	978	991	978	438	618	630	978	994	978	438	670	1030
20	500	978	991	978	489	657	770	1016	1035	1016	489	720	1330
24	600	1295	1308	1295	591	760	960	1346	1368	1346	591	850	1950
26	650	1295	-	1295	633	840	1250	1346	1372	1346	633	920	2300
28	700	1448	-	1448	684	920	1580	1499	1524	1499	684	1150	2600
30	750	1524	-	1524	735	980	1950	1594	1619	1594	735	1260	3200

主要外形尺寸及重量 Main Outline Dimensions & Weight

规格 Size		Class 600						Class 900					
NPS	DN	尺寸 Dimensions(mm)			重量 Weight (kg)	尺寸 Dimensions(mm)			重量 Weight (kg)	尺寸 Dimensions(mm)			重量 Weight (kg)
		L		d		L		d		L		d	
RF	RTJ	BW	RF	RTJ	BW	RF	RTJ	BW	RF	RTJ	BW	RF	RTJ
2	50	292	295	292	28	368	371	368	47	200	48	292	311
2½	65	330	333	330	40	419	422	419	57	220	75	330	350
3	80	356	359	356	68	381	384	381	73	280	95	356	376
4	100	432	435	432	117	457	460	457	98	320	135	432	452
5	125	508	511	508	155	559	562	559	121	360	200	508	528
6	150	559	562	559	192	610	613	610	146	400	264	559	579
8	200	660	664	660	200	430	340	340	190	480	424	660	680
10	250	787	791	787	248	502	515	515	234	560	730	787	807
12	300	838	841	838	298	554	750	965	282	632	1070	838	858
14	350	889	892	889	327	595	890	1029	311	680	1180	889	909
16	400	991	994	991	375	680	1303	1130	1140	1130	354	780	1790
18	450	1092	1095	1092	419	778	1800	1219	1232	1219	400	880	250
20	500	1194	1200	1194	464	970	2150	1321	1334	1321	444	1050	3080
24	600	1397	1407	1397	559	1100	3200	1549	1568	1549	533	1200	4600

规格 Size		Class 1500						Class 2500					
NPS	DN	尺寸 Dimensions(mm)			重量 Weight (kg)	尺寸 Dimensions(mm)			重量 Weight (kg)	尺寸 Dimensions(mm)			重量 Weight (kg)
		L		d		L		d		L		d	
RF	RTJ	BW	RF	RTJ	BW	RF	RTJ	BW	RF	RTJ	BW	RF	RTJ
2	50	368	371	368	48	451	454	451	35	230	68	368	387
2½	65	419	422	419	57	508	514	508	47	260	100	419	438
3	80	470	473	470	70	578	584	578	57	330	165	470	489
4	100	546	549	546	92	673	683	673	73	370	260	546	565
5	125	673	676	673	111	794	807	794	92	410	440	673	692
6	150	705	711	705	136	914	927	914	111	460	580	705	724
8	200	832	841	832	174	102							

Class150 ~ Class900



主要外形尺寸及重量 Main Outline Dimensions & Weight

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

规格 Size		Class 600						Class 900						重量 Weight (kg)	
NPS	DN	尺寸 Dimensions(mm)						尺寸 Dimensions(mm)							
		L			d	H	L			d	H	d	H		
		RF	RTJ	BW			RF	RTJ	BW						
2	50	292	295	292	51	152	32	368	371	368	50	180	50	50	
2 1/2	65	330	333	330	64	167	45	419	422	419	64	200	65	65	
3	80	356	359	356	76	178	68	381	384	381	74	235	88	88	
4	100	432	435	432	102	215	98	457	460	457	100	270	140	140	
5	125	508	511	508	125	240	155	559	562	559	125	300	210	210	
6	150	559	562	559	152	279	230	610	613	610	150	350	300	300	
8	200	660	664	660	200	328	300	737	740	737	200	400	390	390	

产品采用标准 Technical Specification

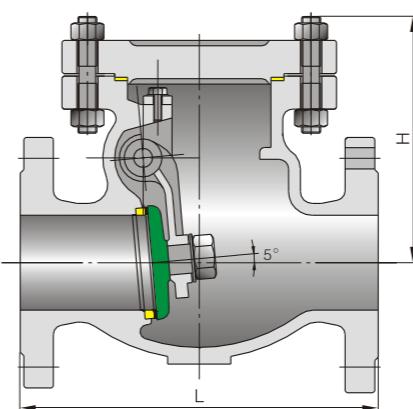
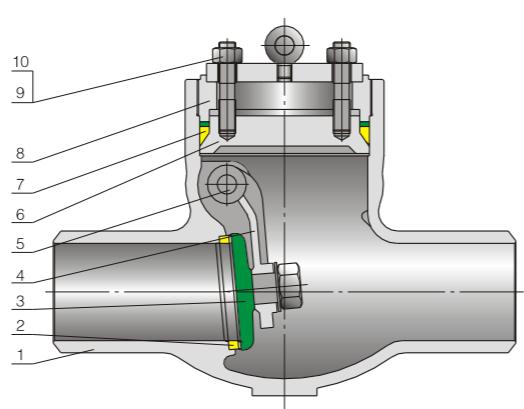
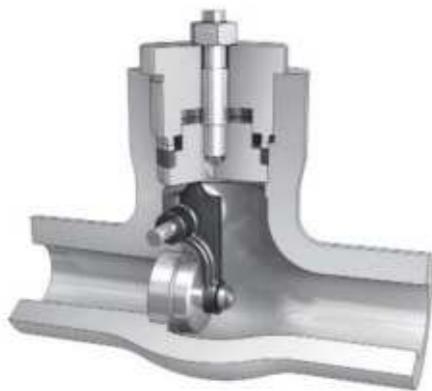
结构形式 Structural feature	栓接阀盖旋启式止回阀 Bolted bonnet swing type check valve
设计依据 Design reference	GB
设计标准 Design standard	GB/T 12236
结构长度 Face to face	GB/T 12221
连接法兰 Flanged ends	JB/T 79
试验和检验 Test & inspection	JB/T9092

注：阀门连接法兰及对焊端尺寸可根据用户要求设计制造。

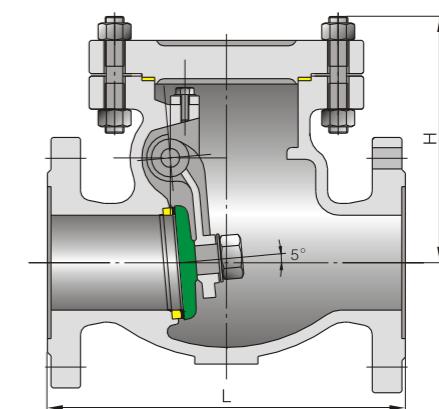
Notes: The dimensions of valve connecting flange and butt-welding ends can be designed according to customer's requirement.

主要零件材料 Major Parts Material Form

序号 No.	零件名称 Parts name	材质 Material
		GB
1	阀体 Body	WCB、WC1、WC6、WC9、C5、CF8、CF8M、CF8C、CF3、CF3M
2	阀座 Seat	25、1Cr13、2Cr13、1Cr18Ni9Ti、0Cr18Ni12Mo2Ti、20Cr1Mo1V、25Cr2MoV
3	阀瓣 Disc	WCB、WC1、WC6、WC9、C5、CF8、CF8M、CF8C、CF3、CF3M
4	摇杆 Rocker	WCB、WC1、WC6、WC9、C5、CF8、CF8M、CF8C、CF3、CF3M
5	销轴 Pin	1Cr13、2Cr13、1Cr18Ni9Ti、0Cr18Ni12Mo2Ti
6	连接架 Connecting shelf	WCB、WC1、WC6、WC9、C5、CF8、CF8M、CF8C、CF3、CF3M
7	双头螺柱 Stud	35CrMoA、25Cr2MoV、0Cr18Ni9、0Cr17Ni12Mo2
8	六角螺母 Hex. nuts	45、35CrMoA、25Cr2MoV、0Cr18Ni9、0Cr17Ni12Mo2
9	垫片 Gasket	柔性石墨+不锈钢 Graphite & stainless steel
10	阀盖 Bonnet	WCB、WC1、WC6、WC9、C5、CF8、CF8M、CF8C、CF3、CF3M



PN1.6、2.5MPa



PN4.0、6.4MPa

产品采用标准 Technical Specification

结构形式 Structural feature	压力密封旋启式止回阀 Pressure seal cover swing type check valve
设计依据 Design reference	GB
设计标准 Design standard	GB/T 12236
结构长度 Face to face	GB/T 12221
连接法兰 Flanged ends	JB/T 79、GB/T 9113、HG20594
对焊端 Butt-welding ends	GB/T 12224
试验和检验 Test & inspection	JB/T9092

注：阀门连接法兰及对焊端尺寸可根据用户要求设计制造。

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

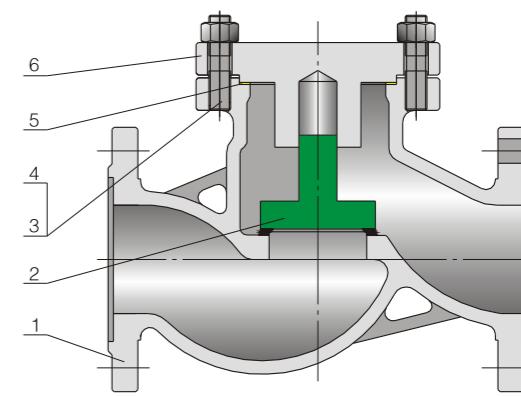
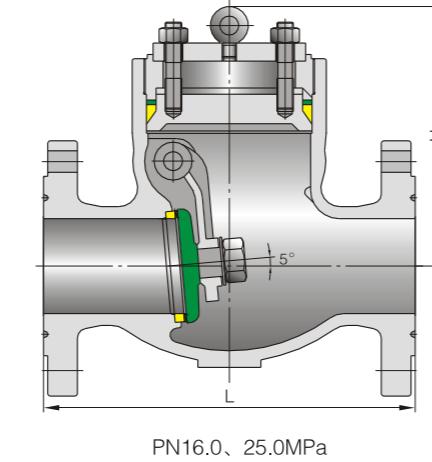
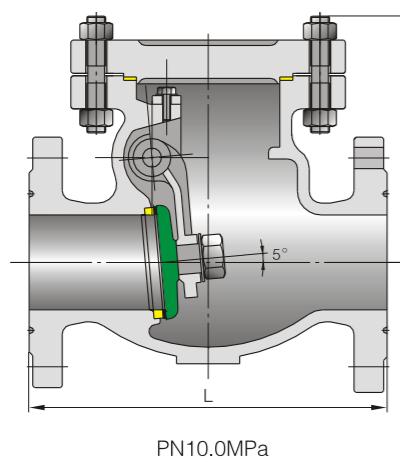
主要零件材料 Major Parts Material Form

序号 No.	零件名称 Parts name	材质 Material
		GB
1	阀体 Body	WCB、WC1、WC6、WC9、C5、CF8、CF8M、CF8C、CF3、CF3M
2	阀瓣 Disc	WCB、WC1、WC6、WC9、C5、CF8、CF8M、CF8C、CF3、CF3M
3	阀座 Seat	25、1Cr18Ni9Ti、0Cr18Ni12Mo2Ti、20Cr1Mo1V、25Cr2MoV
4	摇杆 Rocker	WCB、WC1、WC6、WC9、C5、CF8、CF8M、CF8C、CF3、CF3M
5	销轴 Pin	1Cr13、2Cr13、1Cr18Ni9Ti、0Cr18Ni12Mo2Ti
6	阀盖 Bonnet	25、1Cr18Ni9Ti、0Cr18Ni12Mo2Ti、20Cr1Mo1V、25Cr2MoV
7	密封圈 Sealing ring	柔性石墨 Graphite
8	压盖 Cover	WCB、WC1、WC6、WC9、C5、CF8、CF8M、CF8C、CF3、CF3M
9	双头螺柱 Stud	35CrMoA、25Cr2MoV、0Cr18Ni9、0Cr17Ni12Mo2
10	六角螺母 Hex. Nut	45、35CrMoA、25Cr2MoV、0Cr18Ni9、0Cr17Ni12Mo2

主要外形尺寸及重量 Main Outline Dimensions & Weight

型号 Model: H44H、H44Y

PN (MPa)	DN (mm)	尺寸 Dimensions(mm)		重量 Weight(kg)	PN (MPa)	DN (mm)	尺寸 Dimensions(mm)		重量 Weight(kg)
		L	H				L	H	
1.6	50	230	165	23	4.0	50	230	180	27
	65	290	180	28		65	290	195	33
	80	310	190	35		80	310	195	37
	100	350	208	40		100	350	220	56
	150	480	270	81		150	480	273	105
	200	600	295	96		200	600	352	140
	250	730	337	175		250	730	413	200
	300	850	386	265		300	850	432	392
	350	980	430	364		350	980	455	396
	400	1100	475	495		400	1100	562	502
2.5	500	1250	565	590	6.4	500	1250	620	645
	50	230	180	25		50	300	195	32
	65	290	195	32		65	340	213	45
	80	310	195	35		80	380	213	50
	100	350	220	55		100	430	240	75
	150	480	273	104		150	550	302	158
	200	600	352	138		200	650	362	220
	250	730	413	198		250	775	410	346
	300	850	432	388		300	900	468	476
	350	980	455	390		350	1025	520	630
400	1100	562	498	500	1150	572	886	625	1030
	500	1250	620						



主要外形尺寸及重量 Main Outline Dimensions & Weight

型号 Model: H44H、H44Y

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

产品采用标准 Technical Specification

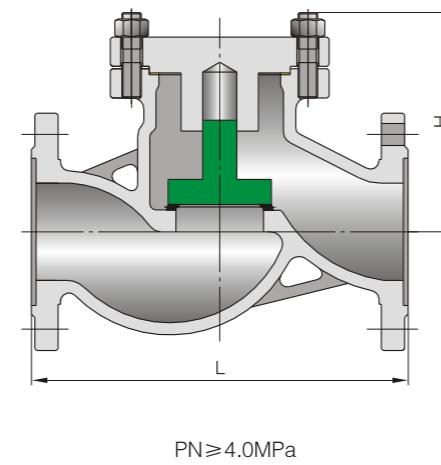
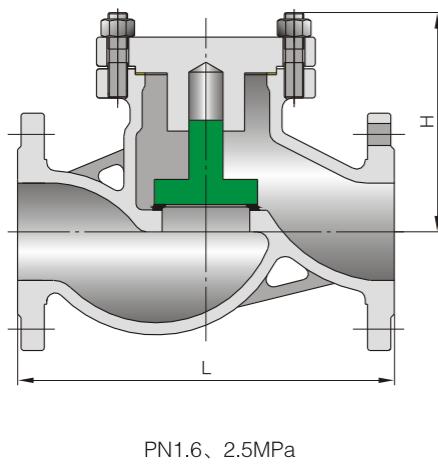
结构形式 Structural feature	螺柱阀盖升降式止回阀 Bolted bonnet lifting type check valve
设计依据 Design reference	GB
设计标准 Design standard	GB/T 12235
结构长度 Face to face	GB/T 12221
连接法兰 Flanged ends	JB/T 79
试验和检验 Test & inspection	JB/T9092

注：阀门连接法兰及对焊端尺寸可根据用户要求设计制造。

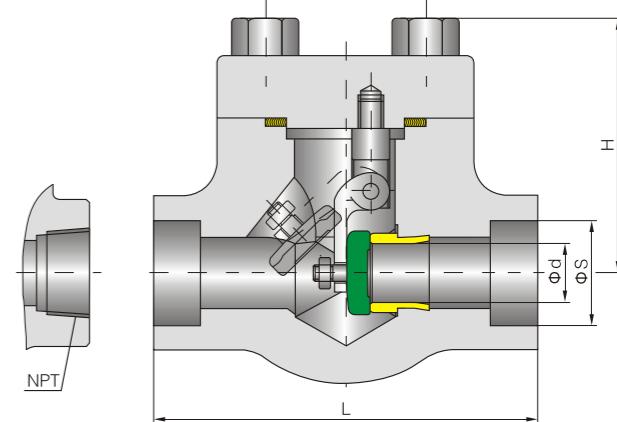
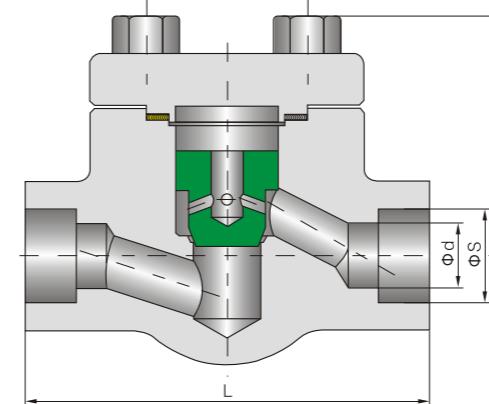
Notes: The dimensions of valve connecting flange and butt-welding ends can be designed according to customer's requirement.

主要零件材料 Major Parts Material Form

序号 No.	零件名称 Parts name	材质 Material
		GB
1	阀体 Body	WCB、LCB、WC1、WC6、WC9、C5、CF8、CF8M、CF8C、CF3、CF3M
2	阀瓣 Disc	WCB、LCB、WC1、WC6、WC9、C5、CF8、CF8M、CF8C、CF3M
3	双头螺柱 Stud	35CrMoA、25Cr2MoV、0Cr18Ni9、0Cr17Ni12Mo2
4	六角螺母 Six angle nuts	45、35CrMoA、25Cr2MoV、0Cr18Ni9、0Cr17Ni12Mo2
5	垫片 Gasket	柔性石墨+不锈钢 Graphite & stainless steel
6	阀盖 Bonnet	25、1Cr18Ni9Ti、0Cr18Ni12Mo2Ti、20Cr1Mo1V、25Cr2MoV



Class150 ~ Class1500



主要外形尺寸及重量 Main Outline Dimensions & Weight

型号 Model: H41H、H41Y

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

PN (MPa)	DN (mm)	尺寸 Dimensions (mm)		重量 Weight (kg)
		L	H	
6.4	50	300	175	30
	65	340	190	36
	80	380	208	48
	100	430	230	70
	125	500	265	102
	150	550	312	145
	200	650	353	198
10.0	50	300	175	30
	65	340	193	43
	80	380	238	65
	100	430	269	89
	125	500	313	102
	150	550	355	123
	200	800	403	148
16.0	50	300	175	32
	65	340	193	46
	80	380	238	240
	100	430	269	273

标准 Standards

设计和制造 Design and manufacture: API 602

检验和试验 Inspection and test: API 598

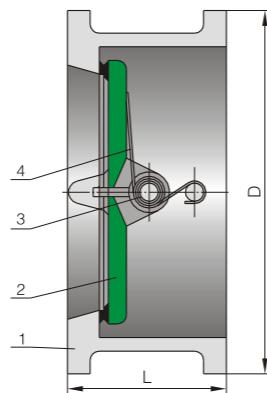
承插焊尺寸 Socket-weld dimension: ASME B16.11

螺纹端尺寸 End threads dimension: ASME B1.20.1.

温压等级 Pressure-temperature ratings: ASME B16.34

主要外形尺寸及重量 Main Outline Dimensions & Weight

Class	规格 Size		升降式止回阀 Lift check valve					旋启式止回阀 Swing check valve					重量 Weight (kg)	
	NPS	DN	尺寸 Dimensions(mm)					重量 Weight (kg)	尺寸 Dimensions(mm)					
			L	d	S	H	NPT		L	d	S	H	NPT	
150 ~ 800	1/2	15	79	9.5	21.8	61	1/2	1.2	79	9.5	21.8	61	1/2	1.0
	3/4	20	92	12.7	27.1	61	3/4	1.4	92	12.7	27.1	61	3/4	1.1
	1	25	111	17.5	33.8	78	1	2.3	111	17.5	33.8	78	1	1.9
	1 1/4	32	120	23.8	42.6	84	1 1/4	3.9	120	23.8	42.6	84	1 1/4	3.4
	1 1/2	40	152	28.6	48.7	103	1 1/2	5.6	120	28.6	48.7	101	1 1/2	4.5
	2	50	172	36.5	61.1	118	2	8.9	140	36.5	61.1	120	2	7.3
900	1/2	15	111	9.5	21.8	79	1/2	3.0	111	9.5	21.8	79	1/2	3.0
	3/4	20	111	12.7	27.1	79	3/4	3.4	111	12.7	27.1	79	3/4	3.6
	1	25	130	17.5	33.8	97	1	4.8	120	17.5	33.8	97	1	4.3
	1 1/4	32	152	23.8	42.6	104	1 1/4	6.9	140	23.8	42.6	105	1 1/4	6.1
	1 1/2	40	172	28.6	48.7	120	1 1/2	10.7	140	28.6	48.7	120	1 1/2	8.8
	2	50	220	36.5	61.1	139	2	14.6	162	36.5	61.1	140	2	12.6
1500	1/2	15	111	9.5	21.8	79	1/2	3.0	111	9.5	21.8	79	1/2	3.0
	3/4	20	111	12.7	27.1	79	3/4	3.4	111	12.7	27.1	79	3/4	3.6
	1	25	130	17.5	33.8	97	1	4.8	120	17.5	33.8	97	1	4.3
	1 1/4	32	152	23.8	42.6	104	1 1/4	6.9	140	23.8	42.6	105	1 1/4	6.1
	1 1/2	40	172	28.6	48.7	120	1 1/2	10.7	140	28.6	48.7	120	1 1/2	8.8
	2	50	220	36.5	61.1	139	2	14.6	162	36.5	61.1	140	2	12.6



产品采用标准 Technical Specification

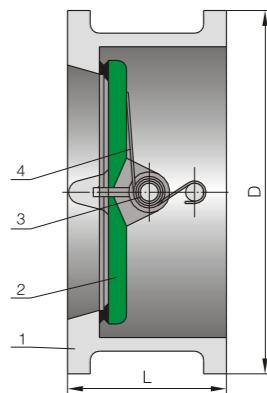
结构形式 Structural feature	双瓣旋启式止回阀 Dual-plate butterfly type check valve
设计标准 Design standard	GB/T 12224
结构长度 Face to face	GB/T 15188.2
连接法兰 Flanged ends	JB/T 79、GB/T9113、HG20592
试验和检验 Test & inspection	JB/T9092

注：阀门连接法兰及对焊端尺寸可根据用户要求设计制造。

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

主要零件材料 Major Parts Material Form

序号 No.	零件名称 Parts name	材质 Material																					
		尺寸 Dimensions (mm)		重量 Weight (kg)		PN (MPa)	DN (mm)	尺寸 Dimensions (mm)		重量 Weight (kg)		PN (MPa)	DN (mm)	尺寸 Dimensions (mm)		重量 Weight (kg)		PN (MPa)	DN (mm)	尺寸 Dimensions (mm)		重量 Weight (kg)	
		L	D	L	D			L	D	L	D			L	D	L	D			L	D	L	D
1	阀体 Body	WCB、LCB、CF8、CF8M、CF8C、CF3、CF3M						50	60	109	2			50	60	109	2			50	60	122	4
2	阀瓣 Disc	WCB、LCB、CF8、CF8M、CF8C、CF3、CF3M						65	67	129	3			65	67	129	3			65	67	147	6
3	销轴 Pivot	1Cr13、2Cr13、1Cr18Ni9Ti、0Cr18Ni12Mo2Ti						80	73	144	4.2			80	73	144	4.2			80	73	157	8
4	弹簧 Spring	4Cr13、60Si2Mn、1Cr18Ni9Ti、0Cr18Ni12Mo2Ti						100	73	164	6.2			100	73	170	6.2			100	73	183	12
5								125	86	194	7.5			125	86	197	9			125	105	220	21
6								150	98	220	11.5			150	98	227	12.5			150	136	260	34
7								200	127	275	20.2			200	127	287	23			200	165	324	48
8								250	146	330	31			250	146	332	32			250	213	394	77
9								300	181	380	48.2			300	181	387	51			300	229	458	112
10								350	184	440	72.5			350	184	447	73			350	70	143	7
11								400	190	492	104.5			400	198	498	108			400	83	163	10
12								450	203	542	151			450	203	558	160			450	83	178	15
13								500	219	597	180			500	219	620	200			500	102	210	25
14								600	222	698	300			600	222	734	320			600	110	249	30



产品采用标准 Technical Specification

结构形式 Structural feature	双瓣旋启式止回阀 Dual-plate butterfly type check valve
设计标准 Design standard	GB/T 12224
结构长度 Face to face	GB/T 15188.2
连接法兰 Flanged ends	JB/T 79、GB/T9113、HG20592
试验和检验 Test & inspection	JB/T9092

注：阀门连接法兰及对焊端尺寸可根据用户要求设计制造。

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

主要外形尺寸及重量 Main Outline Dimensions & Weight

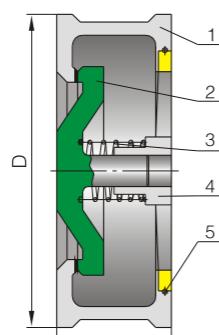
型号 Model: H76H、H76Y

PN (MPa)	DN (mm)	尺寸 Dimensions (mm)		重量 Weight (kg)	PN (MPa)	DN (mm)	尺寸 Dimensions (mm)		重量 Weight (kg)	PN (MPa)	DN (mm)	尺寸 Dimensions (mm)		重量 Weight (kg)
		L	D				L	D				L	D	
1.0	50	60	109	2	1.6	50	60	109	2	2.5	50	60	115	3.5
	65	67	129	3		65	67	129	3		65	67	140	5
	80	73	144	4.2		80	73	144	4.2		80	73	144	7.2
	100	73	164	6.2		100	73	170	6.2		100	73	170	9.3
	125	86	194	7.5		125	86	197	9		125	86	197	16
	150	98	220	11.5		150	98	227	12.5		150	98	227	18
	200	127	275	20.2		200	127	287	23		200	127	293	30
	250	146	330	31		250	146	332	32		250	146	343	40
	300	181	380	48.2		300	181	387	51		300	181	403	55
	350	184	440	72.5		350	184	447	73		350	184	460	82
	400	190	492	104.5		400	198	498	108		400	191	518	118
	450	203	542	151		450	203	558	160		450	203	568	212
	500	219	597	180		500	219	620	200		500	219	624	240
	600	222	698	300		600	222	734	320		600	222	734	412

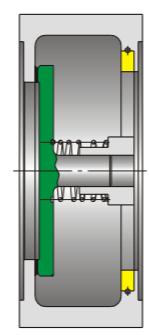
主要外形尺寸及重量 Main Outline Dimensions & Weight

型号 Model: H76H、H76Y

PN (MPa)	DN (mm)	尺寸 Dimensions (mm)		重量 Weight (kg)	PN (MPa)	DN (mm)	尺寸 Dimensions (mm)		重量 Weight (kg)	PN (MPa)	DN (mm)	尺寸 Dimensions (mm)		重量 Weight (kg)
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对夹式止回阀
Wafer check valve对夹式止回阀
Wafer check valve

PN1.0、2.5MPa



PN≥4.0MPa

产品采用标准 Technical Specification

结构形式 Structural feature	对夹升降立式止回阀 Wafer lifting vertical type check valve
设计标准 Design standard	GB/T 12224
结构长度 Face to face	GB/T 15188.2
连接法兰 Flanged ends	JB/T 79、GB/T9113、HG20592
试验和检验 Test & inspection	JB/T9092

注：阀门连接法兰及对焊端尺寸可根据用户要求设计制造。

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

主要零件材料 Major Parts Material Form

序号 No.	零件名称 Parts name	材质 Material
1	阀体 Body	WCB、LCB、CF8、CF8M、CF8C、CF3、CF3M
2	阀瓣 Disc	WCB、LCB、CF8、CF8M、CF8C、CF3、CF3M
3	弹簧 Spring	4Cr13、60Si2Mn、1Cr18Ni9Ti、0Cr18Ni12Mo2Ti
4	压板 Plate	WCB、CF8、CF8M、CF8C、CF3、CF3M
5	挡圈 Lock ring	4Cr13、60Si2Mn、1Cr18Ni9Ti、0Cr18Ni12Mo2Ti

主要外形尺寸及重量 Main Outline Dimensions & Weight

型号Model: H72H, H72Y

PN (MPa)	DN (mm)	尺寸 Dimensions(mm)		重量 (kg)	PN (MPa)	DN (mm)	尺寸 Dimensions(mm)		重量 (kg)	PN (MPa)	DN (mm)	尺寸 Dimensions(mm)		重量 (kg)
		L	D				L	D				L	D	
1.0 1.6	15	16	53	0.15	2.5	15	16	53	0.2	4.0	15	25	63	0.3
	20	19	63	0.25		20	19	63	0.3		20	31.5	74	0.4
	25	22	73	0.4		25	22	73	0.45		25	35.5	84	0.6
	32	28	84	0.55		32	28	84	0.6		32	40	90	1.0
	40	31.5	94	0.75		40	31.5	94	0.8		40	45	105	1.5
	50	40	109	1.2		50	40	109	1.2		50	60	115	2.0
	65	46	129	2.0		65	46	129	2.3		65	63	140	3.2
	80	50	144	2.6		80	50	144	3.0		80	71	150	7.2
	100	60	164	5.7		100	60	170	7.0		100	80	177	11
	125	90	194	10		125	90	197	12		125	110	213	18
	150	106	220	13		150	106	220	13		150	125	250	22

产品采用标准 Technical Specification

结构形式 Structural feature	对夹升降立式止回阀 Wafer lifting vertical type check valve
设计标准 Design standard	GB/T 12224
结构长度 Face to face	GB/T 15188.2
连接法兰 Flanged ends	JB/T 79、GB/T9113、HG20592
试验和检验 Test & inspection	JB/T9092

注：阀门连接法兰及对焊端尺寸可根据用户要求设计制造。

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

主要零件材料 Major Parts Material Form

序号 No.	零件名称 Parts name	材质 Material
1	阀体 Body	WCB、LCB、CF8、CF8M、CF8C、CF3、CF3M
2	阀瓣 Disc	WCB、LCB、CF8、CF8M、CF8C、CF3、CF3M
3	弹簧 Spring	4Cr13、60Si2Mn、1Cr18Ni9Ti、0Cr18Ni12Mo2Ti
4	压板 Plate	WCB、CF8、CF8M、CF8C、CF3、CF3M
5	挡圈 Retaining ring	4Cr13、60Si2Mn、1Cr18Ni9Ti、0Cr18Ni12Mo2Ti

GB/T9113-2010 突面整体钢制管法兰 Raise face integral steel pipe flange

GB/T9113-2010

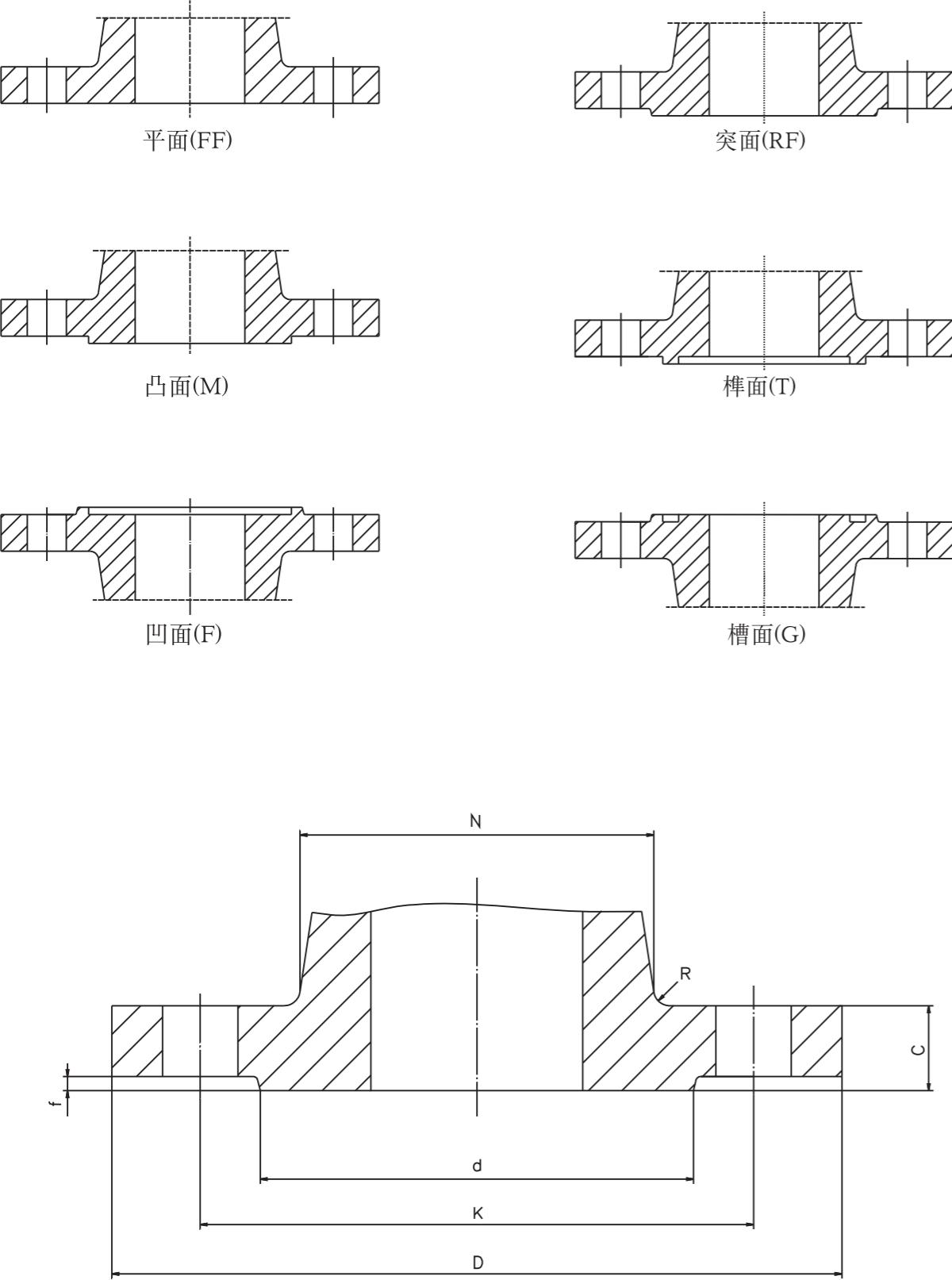


表1 PN0.6MPa(6bar)平面、凸面整体钢制管法兰

Table one PN0.6MPa(6bar)plate, raise face integral steel pipe flange

mm

公称通径 Nominal dimension DN	连接尺寸 Connecting dimension				密封面 Sealing face		法兰厚度 Flange thickness C	法兰颈 Flange neck			
	法兰 外径 Flange external diameter D	螺栓孔 中心圆 直径 Bolt hole centre circle diameter K	螺栓 孔径 Bolt hole diameter	螺栓 Bolt		d	f				
				数量 Number n	螺纹 规格 Screw norms						
10	75	50	11	4	M10	35	2	12	20		
15	80	55	11	4	M10	40	2	12	26		
20	90	65	11	4	M10	50	2	14	34		
25	100	75	11	4	M10	60	2	14	44		
32	120	90	14	4	M12	70	2	14	54		
40	130	100	14	4	M12	80	3	14	64		
50	140	110	14	4	M12	90	3	14	74		
65	160	130	14	4	M12	110	3	14	94		
80	190	150	18	4	M16	128	3	16	110		
100	210	170	18	4	M16	148	3	16	130		
125	240	200	18	8	M16	178	3	18	160		
150	265	225	18	8	M16	202	3	18	182		
200	320	280	18	8	M16	258	3	20	238		
250	375	335	18	12	M16	312	3	22	284		
300	440	395	22	12	M20	365	4	22	342		
350	490	445	22	12	M20	415	4	22	392		
400	540	495	22	16	M20	465	4	22	442		
450	595	550	22	16	M20	520	4	22	494		
500	645	600	22	20	M20	570	4	24	544		
600	755	705	26	20	M24	670	5	30	642		
700	860	810	26	24	M24	775	5	30(26)6	746		
800	975	920	30	24	M27	880	5	30(26)6	850		
900	1075	1020	30	24	M27	980	5	34(26)6	950		
1000	1175	1120	30	28	M27	1080	5	38(26)6	1050		
1200	1405	1340	33	32	M30	1295	5	42(26)6	1264		
1400	1630	1560	36	36	M33	1510	5	56(26)6	1480		
1600	1830	1760	36	40	M33	1710	5	63(26)6	1680		
1800	2045	1970	39	44	M36	1920	5	69(26)6	1878		
2000	2265	2180	42	48	M39	2125	5	74(26)6	2082		

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表1 PN1.0MPa(10bar)平面、凸面整体钢制管法兰

Table one PN1.0MPa(10bar)plate, raise face integral steel pipe flange mm

公称通径 Nominal dimension DN	连接尺寸 Connecting dimension				密封面 Sealing face		法兰厚度 Flange thickness C	法兰颈 Flange neck							
	法兰外径 Flange external diameter D	螺栓孔中心圆直径 Bolt hole centre circle diameter K	螺栓孔径 Bolt hole diameter	螺栓 Bolt		d	f	N	R						
				数量 Number n	螺纹规格 Screw norms										
10	使用PN4.0MPa法兰尺寸 Use PN4.0MPa flange dimension														
15	使用PN4.0MPa法兰尺寸 Use PN4.0MPa flange dimension														
20	使用PN4.0MPa法兰尺寸 Use PN4.0MPa flange dimension														
25	使用PN4.0MPa法兰尺寸 Use PN4.0MPa flange dimension														
32	使用PN4.0MPa法兰尺寸 Use PN4.0MPa flange dimension														
40	使用PN4.0MPa法兰尺寸 Use PN4.0MPa flange dimension														
50	使用PN4.0MPa法兰尺寸 Use PN4.0MPa flange dimension														
65	使用PN1.6MPa法兰尺寸 Use PN1.6MPa flange dimension														
80	使用PN1.6MPa法兰尺寸 Use PN1.6MPa flange dimension														
100	使用PN1.6MPa法兰尺寸 Use PN1.6MPa flange dimension														
125	使用PN1.6MPa法兰尺寸 Use PN1.6MPa flange dimension														
150	使用PN1.6MPa法兰尺寸 Use PN1.6MPa flange dimension														
200	340	295	22	8	M20	268	3	24	246	10					
250	395	350	22	12	M20	320	3	26	298	12					
300	445	400	22	12	M20	370	4	26	348	12					
350	505	460	22	16	M20	430	4	26	408	12					
400	565	515	26	16	M24	482	4	26	456	12					
450	615	565	26	20	M24	532	4	28	502	12					
500	670	620	26	20	M24	585	4	28	559	12					
600	780	725	30	20	M27	685	5	34	658	12					
700	895	840	30	24	M27	800	5	34	772	12					
800	1015	950	33	24	M30	905	5	36	876	12					
900	1115	1050	33	28	M30	1005	5	38	976	12					
1000	1230	1160	36	28	M33	1110	5	38	1080	16					
1200	1455	1380	39	32	M36	1330	5	44	1292	16					
1400	1675	1590	42	36	M39	1535	5	48	1496	16					
1600	1915	1820	48	40	M45	1760	5	52	1712	16					
1800	2115	2020	48	44	M45	1960	5	56	1910	16					
2000	2325	2230	48	48	M45	2170	5	60	2120	16					

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表1 PN1.6MPa(16bar)平面、凸面整体钢制管法兰

Table one PN1.6MPa(16bar)plate, raise face integral steel pipe flange mm

公称通径 Nominal dimension DN	连接尺寸 Connecting dimension				密封面 Sealing face		法兰厚度 Flange thickness C	法兰颈 Flange neck							
	法兰外径 Flange external diameter D	螺栓孔中心圆直径 Bolt hole centre circle diameter K	螺栓孔径 Bolt hole diameter	螺栓 Bolt		d	f	N	R						
				数量 Number n	螺纹规格 Screw norms										
10	使用PN4.0MPa法兰尺寸 Use PN4.0MPa flange dimension														
15	使用PN4.0MPa法兰尺寸 Use PN4.0MPa flange dimension														
20	使用PN4.0MPa法兰尺寸 Use PN4.0MPa flange dimension														
25	使用PN4.0MPa法兰尺寸 Use PN4.0MPa flange dimension														
32	使用PN4.0MPa法兰尺寸 Use PN4.0MPa flange dimension														
40	使用PN4.0MPa法兰尺寸 Use PN4.0MPa flange dimension														
50	使用PN4.0MPa法兰尺寸 Use PN4.0MPa flange dimension														
65	185	145	18	8	M16	122	3	18	104	6					
80	200	160	18	8	M16	138	3	20	120	6					
100	220	180	18	8	M16	158	3	20	140	8					
125	250	210	18	8	M16	188	3	22	170	8					
150	285	240	22	8	M20	212	3	22	190	10					
200	340	295	22	12	M20	268	3	24	246	10					
250	405	355	26	12	M24	320	3	26	296	12					
300	460	410	26	12	M24	378	4	28	350	12					
350	520	470	26	16	M24	438	4	30	410	12					
400	580	525	30	16	M27	490	4	32	458	12					
450	640	585	30	20	M27	550	4	40	516	12					
500	715	650	33	20	M30	610	4	44	576	12					
600	840	770	36	20	M33	725	5	54	690	12					
700	910	840	36	24	M33	795	5	40	760	12					
800	1025	950	39	24	M36	900	5	42	862	12					
900	1125	1050	39	28	M36	1000	5	44	962	12					
1000	1255	1170	42	28	M39	1115	5	46	1076	16					
1200	1485	1390	48	32	M45	1330	5	52	1282	16					
1400	1685	1590	48	36	M45	1530	5	58	1482	16					
1600	1930	1820	55	40	M52	1750	5	64	1696	16					
1800	2130	2020	55	44	M52	1950	5	68	1896	16					
2000	2345														

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表1 PN2.5MPa(25bar)平面、凸面整体钢制管法兰

Table one PN2.5MPa(25bar)plate, raise face integral steel pipe flange

mm

公称通径 Nominal dimension DN	连接尺寸 Connecting dimension				密封面 Sealing face		法兰厚度 Flange thickness C	法兰颈 Flange neck		
	法兰外径 Flange external diameter D	螺栓孔中心圆直径 Bolt hole centre circle diameter K	螺栓孔径 Bolt hole diameter	螺栓 Bolt		d	f	N	R	
				数量 Number n	螺纹规格 Screw norms					
使用PN4.0MPa法兰尺寸										
10	360	310	26	12	M24	278	3	30	252	10
15	425	370	30	12	M27	335	3	32	304	12
20	485	430	30	16	M27	395	4	34	364	12
25	555	490	33	16	M30	450	4	38	418	12
32	620	550	36	16	M33	505	4	40	472	12
40	670	600	36	20	M33	555	4	46	520	12
50	730	660	36	20	M33	615	4	48	580	12
60	845	770	39	20	M36	720	5	58	684	12
70	960	875	42	24	M39	820	5	50	780	12
80	1085	990	48	24	M45	930	5	54	882	12
90	1185	1090	48	28	M45	1030	5	58	982	12
100	1320	1210	56	28	M52	1140	5	62	1086	16
1200	1530	1420	56	32	M52	1350	5	70	1296	16
1400	1755	1640	62	36	M56	1560	5	76	1508	16
1600	1975	1860	62	40	M56	1780	5	84	1726	16
1800	2195	2070	70	44	M64	1985	5	90	1920	16
2000	2425	2300	70	48	M64	2210	5	96	2150	

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表1 PN4.0MPa(40bar)平面、凸面整体钢制管法兰

Table one PN4.0MPa(40bar)plate, raise face integral steel pipe flange

mm

公称通径 Nominal dimension DN	连接尺寸 Connecting dimension					密封面 Sealing face		法兰厚度 Flange thickness C	法兰颈 Flange neck		
	法兰外径 Flange external diameter D	螺栓孔中心圆直径 Bolt hole centre circle diameter K	螺栓孔径 Bolt hole diameter	螺栓 Bolt		d	f		N	R	
				数量 Number n	螺纹规格 Screw norms						
使用PN4.0MPa法兰尺寸											
10	90	60	14	4	M12	40	2	16	28	4	
15	95	65	14	4	M12	45	2	16	32	4	
20	105	75	14	4	M12	58	2	18	40	4	
25	115	85	14	4	M12	68	2	18	50	4	
32	140	100	18	4	M16	78	2	18	60	6	
40	150	110	18	4	M16	88	3	18	70	6	
50	165	125	18	4	M16	102	3	20	84	6	
65	185	145	18	8	M16	122	3	22	104	6	
80	200	160	18	8	M16	138	3	24	120	8	
100	235	190	22	8	M20	162	3	24	142	8	
125	270	220	26	8	M24	188	3	26	162	8	
150	300	250	26	8	M24	218	3	28	192	10	
200	375	320	30	12	M27	285	3	34	254	10	
250	450	385	33	12	M30	345	3	38	312	12	
300	515	450	33	16	M30	410	4	42	378	12	
350	580	510	36	16	M33	465	4	46	432	12	
400	660	585	39	16	M36	535	4	50	498	12	
450	685	610	39	20	M36	560	4	57	522	12	
500	755	670	42	20	M39	615	4	57	576	12	
600	890	795	48	20	M45	735	5	72	686		

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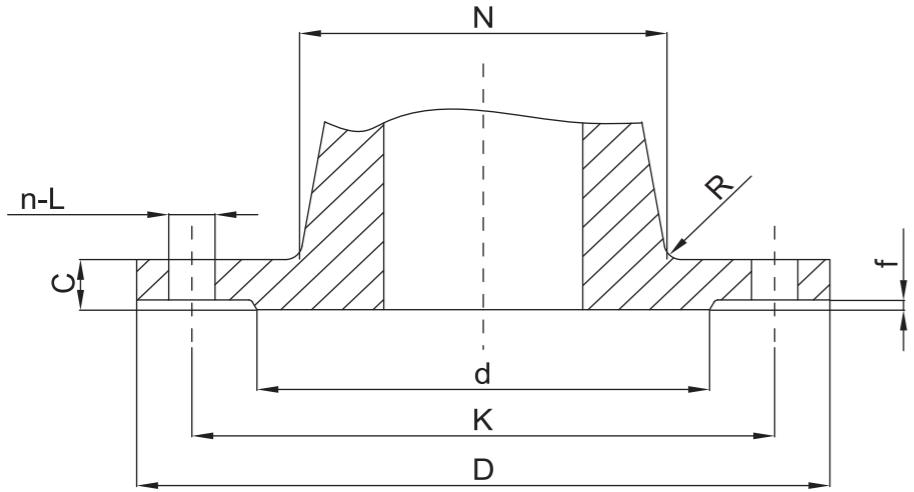
表1 PN6.4MPa(64bar)平面、凸面整体钢制管法兰

Table one PN6.4MPa(64bar)plate, raise face integral steel pipe flange

mm

公称通径 Nominal dimension DN	连接尺寸 Connecting dimension					密封面 Sealing face		法兰厚度 Flange thickness C	法兰颈 Flange neck		
	法兰外径 Flange external diameter D	螺栓孔中心圆直径 Bolt hole centre circle diameter K	螺栓孔径 Bolt hole diameter	螺栓 Bolt		d	f		N	R	
				数量 Number n	螺纹规格 Screw norms						
使用PN6.4MPa法兰尺寸											
10	100	70	14	4	M12	40	2	20	40	4	
15	105	75	14	4	M12	45	2	20	45	4	
20	130	90	18	4	M16	58	2	22	50	4	
25	140	100	18	4	M16	68	2	24	61	4	
32	155	110	22	4	M20	78	2	26	68	6	
40	170	125	22	4	M20	88	3	26	82	6	
50	180	135	22	4	M20	102	3	26	90	6	
65	205	160	22	8	M20	122	3	26	105	6	
80	215	170	22	8	M20	138	3	28	122	8	
100	250	200	26	8	M24	162	3	30	146	8	
125	295	240	30	8	M27	188	3	34	177	8	
150	345	280	33	8	M30						

HG/T 20592-2009 整体钢制管法兰CPN系列 Integral steel pipe flange

表1 PN6 整体钢制管法兰
Table one PN6 integral steel pipe flange mm

公称通径 Nominal dimension DN	连接尺寸 Connecting dimension				法兰厚度 Flange thickness C	法兰颈 Flange neck			
	法兰外径 Flange external diameter D	螺栓孔中心圆直径 Bolt hole centre circle diameter K	螺栓孔径 Bolt hole diameter	螺栓 Bolt		N	R	S ₀	S ₁
10	75	50	11	4	M10	12	20	4	3
15	80	55	11	4	M10	12	26	4	3
20	90	65	11	4	M10	14	34	4	3.5
25	100	75	11	4	M10	14	44	4	4
32	120	90	14	4	M12	14	54	6	4
40	130	100	14	4	M12	14	64	6	4.5
50	140	110	14	4	M12	14	74	6	5
65	160	130	14	4	M12	14	94	6	6
80	190	150	18	4	M16	16	110	8	7
100	210	170	18	4	M16	16	130	8	8
125	240	200	18	8	M16	18	160	8	9
150	265	225	18	8	M16	18	182	10	10
200	320	280	18	8	M16	20	238	10	11
250	375	335	18	12	M16	22	284	12	11
300	440	395	22	12	M20	22	342	12	12
350	490	445	22	12	M20	22	392	12	14
400	540	495	22	16	M20	22	442	12	15
450	595	550	22	16	M20	22	494	12	16
500	645	600	22	20	M20	24	544	12	16
600	755	705	26	20	M24	30	642	12	17
700	860	810	26	24	M24	24	746	12	17
800	975	920	30	24	M27	24	850	12	18
900	1075	1020	30	24	M27	26	950	12	18
1000	1175	1120	30	28	M27	26	1050	16	19
1200	1405	1340	33	32	M30	28	1264	16	20
1400	1630	1560	36	36	M33	32	1480	16	22
1600	1830	1760	36	40	M33	34	1680	16	24
1800	2045	1970	39	44	M36x3	36	1878	16	26
2000	2265	2180	42	48	M39x3	38	2082	16	28

表2 PN10 整体钢制管法兰
Table two PN10 integral steel pipe flange mm

公称通径 Nominal dimension DN	连接尺寸 Connecting dimension					法兰厚度 Flange thickness C	法兰颈 Flange neck			
	法兰外径 Flange external diameter D	螺栓孔中心圆直径 Bolt hole centre circle diameter K	螺栓孔径 Bolt hole diameter D	螺栓 Bolt			N	R	S ₀	
				Bolt hole centre circle diameter K	Bolt hole diameter D					
10	90	60	14	4	M12	16	28	4	6	
15	95	65	14	4	M12	16	32	4	6	
20	105	75	14	4	M12	18	40	4	6.5	
25	115	85	14	4	M12	18	50	4	7	
32	140	100	18	4	M16	18	60	6	7	
40	150	110	18	4	M16	18	70	6	7.5	
50	165	125	18	4	M16	18	84	5	8	
65	185	145	18	8	M16	18	104	6	8	
80	200	160	18	8	M16	20	120	6	8.5	
100	220	180	18	8	M16	20	140	8	9.5	
125	250	210	18	8	M16	22	170	8	10	
150	285	240	22	8	M20	22	190	10	11	
200	340	295	22	8	M20	24	246	10	12	
250	394	350	22	12	M20	26	298	12	14	
300	445	400	22	12	M20	26	348	12	15	
350	505	460	22	16	M20	26	408	12	16	
400	565	515	26	16	M24	26	456	12	18	
450	615	565	26	20	M24	28	502	12	20	
500	670	620	26	20	M24	28	559	12	21	
600	780	725	30	20	M27	34	658	12	23	
700	895	840	30	24	M27	34	772	12	24	
800	1015	950	33	24	M30	36	876	12	26	
900	1115	1050	33	28	M30	38	976	12	27	
1000	1230	1160	36	28	M33	38	1080	16	29	
1200	1455	1380	39	32	M36x3	44	1292	16	32	
1400	1675	1590	42	36	M39x3	48	1496	16	34	
1600	1915	1820	48	40	M45x3	52	1712	16	36	
1800	2115	2020	48	44	M45x3	56	1910	16	39	
2000	2325	2230	48	48	M45x3	60	2120	41	60	

表2 PN16 整体钢制管法兰
Table two PN16 integral steel pipe flange

公称通径 Nominal dimension DN	连接尺寸 Connecting dimension				法兰厚度 Flange thickness C	法兰颈 Flange neck				mm		
	法兰外径 Flange external diameter D	螺栓孔中心圆直径 Bolt hole centre circle diameter K	螺栓孔径 Bolt hole diameter	螺栓 Bolt		N	R	S ₀	S ₁			
				数量 Number n								
10	90	60	14	4	M12	16	28	4	6	10		
15	95	65	14	4	M12	16	32	4	6	11		
20	105	75	14	4	M12	18	40	4	6.5	12		
25	115	85	14	4	M12	18	50	4	7	14		
32	140	100	18	4	M16	18	60	6	7	14		
40	150	110	18	4	M16	18	70	6	7.5	14		
50	165	125	18	4	M16	18	84	5	8	15		
65	185	145	18	8	M16	18	104	6	8.5	17		
80	200	160	18	8	M16	20	120	6	9	18		
100	220	180	18	8	M16	20	140	8	10	18		
125	250	210	18	8	M16	22	170	8	12	23		
150	285	240	22	8	M20	22	190	10	11	27		
200	340	295	22	12	M20	24	246	10	12	32		
250	405	355	26	12	M24	26	296	12	14	40		
300	460	410	26	12	M24	28	350	12	15	45		
350	520	470	26	16	M24	30	410	12	16	50		
400	580	525	30	16	M27	32	458	12	18	55		
450	640	585	30	20	M27	40	516	12	20	60		
500	715	650	33	20	M30	44	576	12	21	65		
600	840	770	36	20	M33	54	690	12	23	70		
700	910	840	36	24	M33	42	760	12	24	75		
800	1025	950	39	24	M36x3	42	862	12	26	80		
900	1125	1050	39	28	M36x3	44	962	12	27	85		
1000	1255	1170	42	28	M39x3	46	1076	16	29	90		
1200	1485	1390	48	32	M45x3	52	1282	16	32	95		
1400	1685	1590	48	36	M45x3	58	1482	16	34	100		
1600	1930	1820	55	40	M52x4	64	1696	16	36	105		
1800	2130	2020	55	44	M52x4	68	1896	16	39	110		
2000	2345	2230	60	48	M56x4	70	2100	16	41	115		

表2 PN25 整体钢制管法兰
Table two PN25 integral steel pipe flange

公称通径 Nominal dimension DN	连接尺寸 Connecting dimension					法兰厚度 Flange thickness C	法兰颈 Flange neck				
	法兰外径 Flange external diameter D	螺栓孔中心圆直径 Bolt hole centre circle diameter K	螺栓孔径 Bolt hole diameter	螺栓 Bolt			N	R	S ₀	S ₁	
				数量 Number n	螺纹规格 Screw norms						
10	90	60	14	4	M12	16	28	4	6	10	
15	95	65	14	4	M12	16	32	4	6	11	
20	105	75	14	4	M12	18	40	4	6.5	12	
25	115	85	14	4	M12	18	50	4	7	14	
32	140	100	18	4	M16	18	60	6	7	14	
40	150	110	18	4	M16	18	70	6	7.5	14	
50	165	125	18	4	M16	20	84	6	8	15	
65	185	145	18	8	M16	22	104	6	8.5	17	
80	200	160	18	8	M16	24	120	8	9	18	
100	235	190	22	8	M20	24	142	8	10	18	
125	270	220	26	8	M24	26	162	8	11	20	
150	300	250	26	8	M24	28	192	10	12	21	
200	360	310	26	12	M24	30	252	10	12	23	
250	425	370	30	12	M27	32	304	12	14	24	
300	485	430	30	16	M27	34	364	12	15	26	
350	555	490	33	16	M30	38	418	12	16	29	
400	620	550	36	16	M33	40	472	12	18	30	
450	670	600	36	20	M33	46	520	12	19	31	
500	730	660	36	20	M33	48	580	12	21	33	
600	845	770	39	20	M36x3	58	684	12	23	35	
700	960	875	42	24	M36x3	50	780	12	24	38	
800	1085	990	48	24	M45x3	54	882	12	26	41	
900	1185	1090	48	28	M45x3	58	982	12	27	44	
1000	1320	1210	55	28	M52x4	62	1086	16	29	47	
1200	1530	1420	55	32	M52x4	70	1296	32	53	53	

表2 PN40 整体钢制管法兰
Table two PN40 integral steel pipe flange

公称通径 Nominal dimension DN	连接尺寸 Connecting dimension					法兰厚度 Flange thickness C	法兰颈 Flange neck				
	法兰外径 Flange external diameter D	螺栓孔中心圆直径 Bolt hole centre circle diameter K	螺栓孔径 Bolt hole diameter	螺栓 Bolt			N	R	S ₀	S ₁	
				数量 Number n	螺纹规格 Screw norms						
10	90	60	14	4	M12	16	28	4	6	10	
15	95	65	14	4	M12	16	32	4	6	11	
20	105										