



Valve  
阀门 ➤

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工恒阀门（上海）有限公司  
GongHeng Valve (ShangHai) CO.,LTD



## Brief Introduction 企业简介

工恒阀门（上海）有限公司核心领导人员出身于国内知名阀门厂，工恒阀门藉近多年的科研、发展创新和诚信经营，在阀门、自控阀门、执行器领域得到迅猛发展，公司集科研、产品开发、制造、销售、服务于一体的科技创新企业。公司拥有铸造、锻造、热处理、焊接、金切、装配、试验、无损检测等生产加工设备和试验检测设备，多年来形成了一套颇具特色的生产工艺，是具有较强专业化制造特征的企业。公司通过与国内外先进制造商进行技术引进和技术交流，结合公司的实际情况，通过上海各大学院校及科研院所的培训基地，建立公司的研发队伍，调整行业的组织结构、产品结构和技术结构，不断提高产品质量和技术水平、提高产品制造水平、提高行业经济效益。同时加快技术创新，建立健全现代化管理体制，发挥人才效益，提高企业核心竞争力。

工恒致力于打造专业化发展的科技企业，主要从事电动阀、气动阀、调节阀、蝶阀、闸阀、截止阀、止回阀、浆液阀、泥浆阀、美标阀、日标阀、德标阀等，主要材质有铸钢、碳钢、青铜、黄铜、不锈钢、合金钢、PVC、UPVC、球墨铸铁、铸铁、稀有金属等，产品使用温度-196 ~+1000℃，压力范围0.1Mpa~56Mpa，磅级150LB~3500LB，公称通径为DN3 ~ 3600mm。生产、销售的产品近千种型号，上万个规格，广泛应用于发电厂、热电厂、化工、天然气、冶金、轻工纺织、造纸、市政、建筑、自来水、环保、液压、冷藏等行业，产品覆盖全国31个省、市、自治区、直辖市，并出口俄罗斯、巴基斯坦、越南、印度、苏丹等国家和地区，深受国内外用户欢迎和好评。

“提高全员的质量意识，强化科学的质量管理，生产让顾客满意的产品，提供全面的优质服务”是工恒坚定不移的方针，公司将充分发挥企业优势，持续改进质量，全面提升产品技术水平和服务水平，向用户提供高质量的产品和完善的服务，为社会作出更大的贡献。

展望未来，我们激情高昂，工恒精神将继续渗透在与众不同的创新产品和服务之中。工恒竭诚欢迎国内外客商、各界用户和友仁前来考察、洽谈贸易，展望未来。工恒人愿与您在成功的道路上携手合作，再创辉煌。工恒的口号是“工匠精神、品质永恒”。期待您的访问与咨询。

精益求精，源于每个细节 . . . . .

## General valve series 部分常用通用阀门产品总汇





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- 1 常用材料对照表 Comparison list of regular valve material
- 2 压力-温度等级 pressure temperature ratings

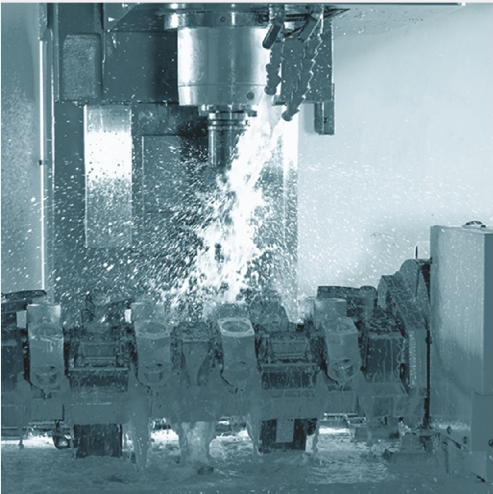
## 闸阀概述

Overview of gate valve



闸阀具有流体阻力小，密封面受介质的冲刷和侵蚀小，启闭较省力，介质流向不受限制，不扰流、不降低压力，结构长度短，制造工艺性好和适用的压力、温度范围广等特点。是一种最常用的截断阀，用于截断或接通管路中的介质。

本公司多年来不断消化吸收ANSI、API、JIS、BS、DIN等国外先进的阀门技术，在设计、制造和质量控制等方面积累了丰富的经验，开发出具有如下特点的法兰连接钢制闸阀。



- ①产品符合国内外先进标准的要求，结构合理、密封可靠、性能优良、造型美观。
- ②产品材料品种齐全，填料、垫片可根据实际工况或用户要求合理选配能适用于各种压力、温度及介质工况。
- ③高温阀门承压部件选用优质耐热合金钢制造，密封面采用Stellite 钴基硬质合金，密封可靠、性能稳定、使用寿命长。
- ④高温阀门阀杆采用耐热合金钢，经调质及表面氮化处理，具有良好的综合力学性能和抗腐蚀性、抗擦伤性。
- ⑤产品采用倒密封结构，可在不停机工况下进行维修和更换密封填料。
- ⑥可采用ANSI、GB、JB、HG、SH等多种配管法兰标准和法兰密封面型式，满足各种工程需要及用户要求。
- ⑦开发了PN1.0Mpa的低压碳钢闸阀，可替代铁制闸阀，有效的解决了铸铁闸阀壳体易冻裂、闸板易脱落、阀杆易锈蚀，密封性能不可靠等问题。
- ⑧可根据用户要求选配IQ、2SA35、SMC、RA、STK 等系列引进型智能一体化电动装置，具有功能全，精度高，可与程控电脑配套使用等特点。



# Overview of gate valve

Gate valve is characteristic of low fluid resistance, limited scouring of and erosion onto sealing face by medium, labor saving in opening and shutdown, unlimited flow direction, non-disturbance, zero pressure drop, small structural length, fine manufacturing process and wide scope of pressure, wide scope of temperature, etc. It is a kind of most frequently used intercepting valve for cutting off or connecting medium in pipeline.

The company has learned from leading valve technologies and techniques from overseas on ANSI, API, JIS, BS, DIN, etc. for years and has rich experience in the design, manufacturing and quality control. The company has designed flange-connected steel gate valves with following characteristics.

1. The product meets latest Chinese and overseas standards, with reasonable structure, reliable sealing performance, superior performance and pleasant appearance.
2. The products provide a variety of materials and the filling and cushion could be supplied based on actual work condition or customer requirement reasonably, suitable for various pressures, temperatures and medium work conditions.
3. The pressure retaining parts of high temperature valve are made of quality temperature resistant steel alloy and the sealing face is made from Stellite and cobalt-based hard alloy, extending reliability of sealing, stable performance and long service life.
4. The high temperature valve stem is made of temperature resistant steel alloy through hardening and tempering and surface nitrogen treatment, provided with favorable comprehensive mechanical properties, corrosion resistance and scratch resistance.
5. The product applies back seal structure, allowing maintenance and replacement of sealing fillings provided the frame not shut down.
6. It is allowed to use a variety of piping flange standards and flange sealing face types such as ANSI, GB, JB, HG, SH, etc., meeting diversified engineering requirement and customer needs.
7. The company provides low pressure carbon steel gate valve with PN1.0Mpa, which can substitute iron gate valves, solving problems of traditional cast iron gate valve including frost crack of valve casing, easily loosening gate plate, stem rusting, unreliable sealing performance, etc.
8. The company supplies optional imported integrated, intelligent electric devices including 1Q, 2SA35, SMC, RA, STK and other series according to user requirement. Those devices feature full functionality, high accuracy and compatibility to program-controlled computer.



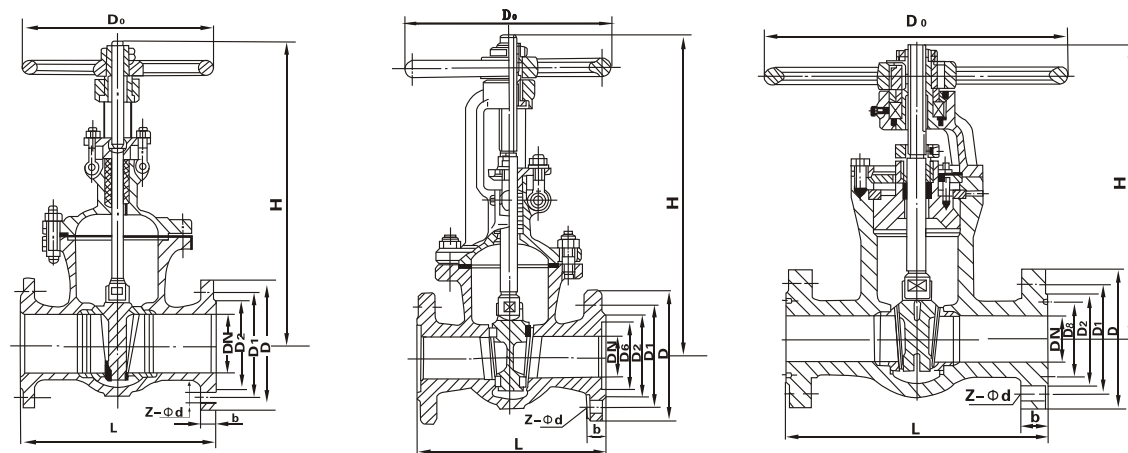
## 用途 Purpose:

法兰连接钢制闸阀适用于公称压力PN1.0~42.0Mpa, 工作温度-196~+600℃的各种管路上, 用于截断或接通管路中的介质。通过选用不同的材质, 可适用于水、蒸气、油品、硝酸、醋酸、强氧化性介质及尿素等多种介质, 驱动方式有手动、电动、气动、齿轮传动等。

The flange-connected steel gate valve is applicable for pipelines with PN1.0~42.0Mpa nominal pressure and -196~+600℃ operating temperature, cutting off or connecting medium inside. Using different valve materials can adapt to various mediums including water, vapor, oil, nitric acid, acetic acid, strong oxidizer, etc. The means of driving include manual, electric, pneumatic, gear-driven, etc.



**结构图** Structural diagram



## 标准与规范 Standards and specifications

设计与制造 Design and manufacturing	结构长度 Structural length	压力-温度等级 Pressure-temperature rating	连接法兰 Connecting flange	试验与检验 Test and inspection
GB/T12234	GB/T12221	GB/T9131 JB/T74 HG20604	GB/T9113 GB/T9115 JB/T79 HG20592~20635	JB/T9092 GB/T13927

性能规范 Performance norms

公称压力 Nominal pressure PN ( Mpa )	试 验 压 力 ( Mpa )      Test pressure (Mpa)			
	强 度 Strength	密 封 ( 液 ) Sealing (hydraulic)	密 封 ( 气 ) Sealing (pneumatic)	上 密 封 Upper sealing
1.0	1.5	1.1	0.6	1.1
1.6	2.4	1.8		1.8
2.5	3.8	2.8		2.8
4.0	6.0	4.4		4.4
6.4	9.6	7.1		7.1
10.0	15.0	11.0		11.0
16.0	24.0	18.0		18.0

适用范围	Scope of application
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壳体材料 Casing material	适用介质 Applicable medium	适用温度℃ Applicable temperature
WCB	水、蒸汽、油品 Water, steam, oil	≤425
WC1		≤450
WC6		≤550
WC9		≤570
ZGCr5Mo ZG15CrMo		≤550
ZG1Cr18Ni9Ti ZG1Cr18Ni12Mo2Ti	硝酸类 Nitric acid	≤200
	酸酸类 Acetic acid	≤200

### 主要零件材料 Key parts material

阀体、阀盖、闸板 Valve body, valve cap, gate plate	阀杆 Stem	密封面 Sealing face	垫片 Cushion	填料 Filling
WCB	2Cr13	13Cr	增强柔性石墨	
WC1	25 Cr2Mo 1V	STL	柔性石墨/1Cr13	增强柔性石墨 Reinforced flexible graphite
WC6		本体材料 Principal material	0Cr18Ni9Ti 0Cr17Ni12Mo2Ti	柔性石墨/1Cr13 Flexible graphite/1Cr13
WC9		PTFE		PTFE
ZGCr5Mo ZG15CrMo		尼龙 Nylon		
ZG1Cr18Ni9Ti	1Cr18Ni9Ti			
ZG1Cr18Ni12Mo2Ti	1Cr18Ni12Mo2Ti			

### 主要尺寸和重量 Primary dimension and weight

GB/T9113.1-2000

1.6Mpa	DN	L	D	D1	D2	b	Z-Φd	H	Do	重量 ( kg ) Weight(kg)
凸面法兰 Convex flange RF Z40H Z40Y Z40W Z40F Z40N Z41H Z41Y Z41W Z41F Z41N	15	130	95	65	46	14	4-14	170	120	5
	20	150	105	75	56	16	4-14	190	140	6.5
	25	160	115	85	65	16	4-14	205	160	9
	32	180	140	100	76	18	4-18	270	180	12
	40	200	150	110	84	18	4-18	310	200	26.5
	50	250	165	125	99	20	4-18	358	240	29
	65	265	185	145	118	20	4-18	373	240	33
	80	280	200	160	132	20	8-18	435	280	45
	100	300	220	180	156	22	8-18	500	300	63
	125	325	250	210	184	22	8-18	614	320	108
	150	350	285	240	211	24	8-22	674	360	134
	200	400	340	295	266	24	12-22	818	400	192
	250	450	405	355	319	26	12-26	969	450	273
	300	500	460	410	370	28	12-26	1145	560	379
	350	550	520	470	429	30	16-26	1280	640	590
	400	600	580	525	480	32	16-30	1452	640	850
	450	650	640	585	548	40	20-30	1541	720	907
	500	700	715	650	609	44	20-33	1676	720	958
600	800	840	770	720	48	20-36	1874	800	1112	

### 主要尺寸和重量 Primary dimension and weight

GB/T9113.1-2000

2.5Mpa	DN	L	D	D1	D2	b	Z-Φd	H	Do	重量 (kg) Weight(kg)
凸面法兰 Convex flange	15	130	95	65	46	14	4-14	170	120	5.5
	20	150	105	75	56	16	4-14	190	140	7
	25	160	115	85	65	16	4-14	205	160	11
RF	32	180	140	100	76	18	4-18	270	180	14
	40	200	150	110	84	18	4-18	310	200	30
Z40H	50	250	165	125	99	20	4-18	358	240	34
Z40Y	65	265	185	145	118	22	8-18	373	240	36
Z40W	80	280	200	160	132	24	8-18	435	280	50
Z40F	100	300	235	190	156	24	8- 22	500	300	69
Z40N	125	325	270	220	184	26	8- 26	614	320	116
Z41H	150	350	300	250	211	28	8- 26	674	360	141
Z41Y	200	400	360	310	274	30	12-26	818	400	192
Z41W	250	450	425	370	330	32	12-30	969	450	207
Z41F	300	500	485	430	389	34	16-30	1145	560	400
Z41N	350	550	555	490	448	38	16-33	1280	640	631
	400	600	620	550	503	40	16-36	1452	640	900
	450	650	670	600	548	46	20-36	1541	720	1013
	500	700	730	660	609	48	20-36	1676	720	1166
	600	800	845	770	720	58	20-39	1874	800	1258

注：阀门驱动方式有电动、气动、齿轮传动等，根据用户要求选配。以上数据仅供参考，可根据用户要求选用其它法兰标准。

Note: The means of valve drive has electric, pneumatic, gear-driven, etc. and it is optional according to user requirement.

Above datais for yourreference only. Other flange standards may be applied based oncustomer requirement.



### 主要尺寸和重量 Primary dimension and weight

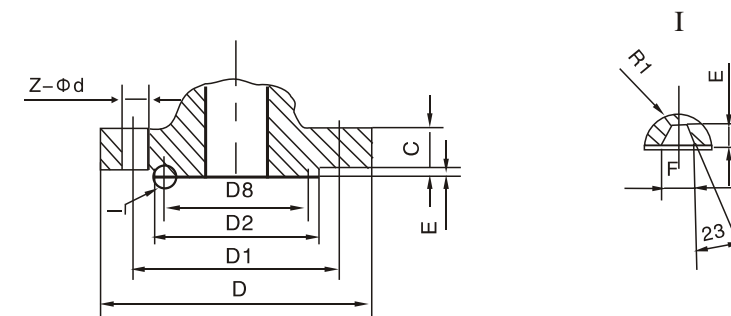
4.0Mpa	DN	L	D	D1	D2	D6	b	Z-Φd	H	Do	重量 ( kg )
凹凸法兰 Male and female facing flange MFM Z40H Z40Y Z40W Z40F Z40N Z41H Z41Y Z41W Z41F Z41N	15	130	95	65	46	40	14	4-14	135	120	6
	20	150	105	75	56	51	16	4-14	190	140	8
	25	160	115	85	65	58	16	4-14	205	160	12
	32	180	140	100	76	66	18	4-18	270	180	16
	40	200	150	110	84	76	18	4-18	310	200	31
	50	250	165	125	99	88	20	4-18	371	280	34
	65	280	185	145	48	110	22	8-18	391	280	40
	80	310	200	160	132	121	24	8-18	455	320	52
	100	350	235	190	156	150	24	8-22	551	360	80
	125	400	270	220	184	176	26	8-26	628	400	125
	150	450	300	250	211	204	28	8-26	708	400	154
	200	550	375	320	284	260	34	12-30	885	450	261
	250	650	450	385	345	313	38	12-33	906	560	386
	300	750	515	450	409	364	42	16-33	1203	640	543
	350	850	580	510	465	422	46	16-36	1341	640	679
400	950	660	585	535	474	50	16-39	1492	720	951	
6.4Mpa	15	170	105	75	46	40	20	4-14	140	100	7
凹凸法兰 Male and female facing flange MFM Z40H Z40Y Z40W Z40N-64 Z41H Z41Y Z41w	20	190	130	90	56	51	20	4-18	140	100	9
	25	210	140	100	65	58	24	4-18	215	180	12
	32	230	155	110	76	66	24	4-22	270	180	16
	40	240	170	125	84	76	26	4-22	345	200	32
	50	250	180	135	99	88	26	4-22	470	200	39
	65	280	205	160	118	110	26	8-22	520	250	43
	80	310	215	170	132	121	28	8-22	570	300	60
	100	350	250	200	156	150	30	8-26	700	300	89
	125	400	295	240	184	176	34	8-30	780	350	140
	150	450	345	280	211	204	36	8-33	850	350	207
	200	550	415	345	284	260	42	12-36	1035	400	325
	250	650	470	400	345	313	46	12-36	1050	560	467
	300	750	530	460	409	364	52	16-36	1470	640	590

### 主要尺寸和重量 Primary dimension and weight

10.0Mpa	DN	L	D	D1	D2	D6	b	Z-Φd	H	Do	重量 ( kg )
凹凸法兰	25	210	140	100	65	58	24	4-18	310	200	18
Male and female facing flange	32	230	155	110	76	66	24	4-22	320	240	20
MFM	40	240	170	125	84	76	26	4-22	360	280	40
Z40H	50	250	195	145	99	88	28	4-26	490	360	50
Z40Y	65	280	220	170	118	110	30	8-26	540	400	70
Z40W	80	310	230	180	132	121	32	8-26	573	400	100
Z41H	100	350	265	210	156	150	36	8-30	575	400	110
Z41Y	125	400	315	250	184	176	40	8-33	744	560	180
Z41W	150	450	355	290	211	204	44	12-33	800	560	250
	200	550	430	360	264	260	52	12-36	800	560	360
16.0Mpa	15	170	105	75	46	40	26	4-14	230	200	7
凹凸法兰	20	190	130	90	56	51	30	4-18	260	200	10
Male and female facing flange	25	210	140	100	65	58	32	4-18	280	280	14
	32	230	155	110	76	66	34	4-22	312	320	21
MFM	40	260	170	125	84	76	36	4-22	350	320	26
	50	300	195	145	99	88	38	4-26	512	360	73
Z40H	65	340	220	170	118	110	42	8-26	560	360	110
Z40Y	80	390	230	180	132	121	46	8-26	585	400	141
Z40W	100	450	265	210	156	150	52	8-30	631	450	185
Z41H	125	525	315	250	184	176	56	8-33	723	560	320
Z41Y	150	600	355	290	211	204	62	12-33	820	640	462
Z41W	200	750	430	360	284	260	66	12-36	990	720	711

注：阀门驱动方式有电动、气动、齿轮传动等，根据用户要求选配。以上数据仅供参考，可根据用户要求选用其它法兰标准。

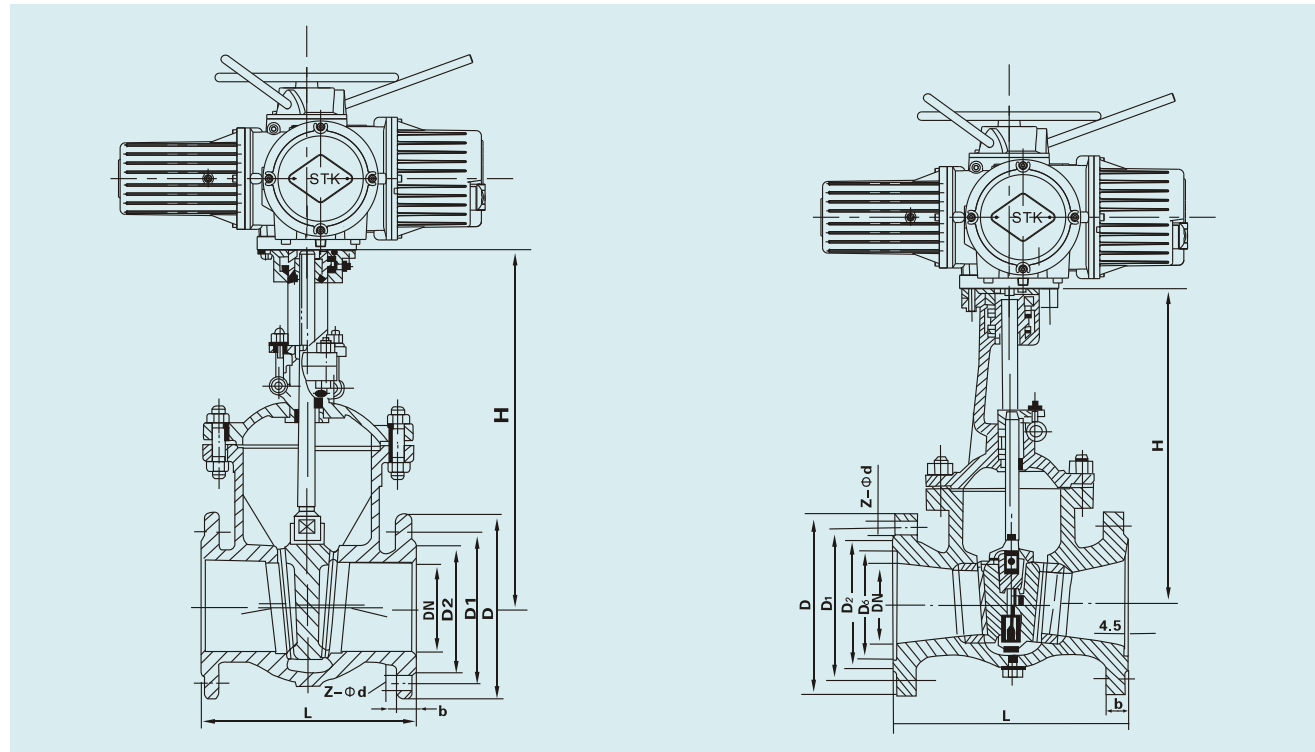
Note: The means of valvedrive has electric, pneumatic, gear-driven, etc. and it is optional according to user requirement.  
Above data is for your reference only. Other flange standards may be applied based on customer requirement.



### 高压法兰连接主要尺寸 Key dimensions of high pressure flange connection

15.0MPa	DN	L	D	D1	D2	D8	Z-Φd	C	E	F
环槽法兰 Ring joint flange RTJ Z40H C Z40Y P Z40W <sup>-150</sup> R Z41H Z41Y Z41W I	25	254	150	101.5	71.5	50.8	4-Φ26	29	6.35	8.74
	32	279	160	111	81	60.32	4-Φ26	29	6.35	8.74
	40	305	180	124	92	68.28	4-Φ29.5	32	6.35	8.74
	50	368	215	165	124	95.25	8-Φ26	38.5	7.92	11.91
	65	419	245	190.5	137	107.95	8-Φ29.5	41.5	7.92	11.91
	80	381	240	190.5	156	123.82	8-Φ26	38.5	7.92	11.91
	100	457	290	235	181	149.22	8-Φ32.5	44.5	7.92	11.91
	125	559	350	279.5	216	180.98	8-Φ35.5	51	7.92	11.91
	150	610	380	317.5	241	211.12	12-Φ32.5	56	7.92	11.91
	200	737	470	393.5	308	269.88	12-Φ39	63.5	7.92	11.91
26.0MPa	25	254	150	101.5	71.5	50.8	4-Φ26	29	6.35	8.74
环槽法兰 Ring joint flange RTJ Z40H C Z40Y P Z40W <sup>-260</sup> R Z41H Z41Y Z41W I	32	279	160	111	81	60.32	4-Φ26	29	6.35	8.74
	40	305	180	124	92	68.28	4-Φ29.5	32	6.35	8.74
	50	368	215	165	124	95.25	8-Φ26	38.5	7.92	11.91
	65	419	245	190.5	137	107.95	8-Φ29.5	41.5	7.92	11.91
	80	470	265	203	168	136.52	8-Φ32.5	48	7.92	11.91
	100	546	310	241.5	194	161.92	8-Φ35.5	54	7.92	11.91
	125	673	375	292	229	193.68	8-Φ42	73.5	7.92	11.91
	150	705	395	317.5	248	211.12	12-Φ39	83	9.52	13.49
	200	832	485	393.5	318	269.88	12-Φ45	92	11.13	16.66
	42.0MPa	15	264	135	89	65	42.88	4-Φ22	30.5	6.35
环槽法兰 Ring joint flange RTJ Z40H C Z40Y P Z40W <sup>-420</sup> R Z41H Z41Y Z41W I	20	273	140	95	73	50.8	4-Φ22	32	6.35	8.74
	25	308	160	108	82.5	60.32	4-Φ26	35	6.35	8.74
	32	349	185	130	102	72.24	4-Φ29.5	38.5	7.92	11.91
	40	384	205	146	114	82.55	4-Φ32.5	44.5	7.92	11.91
	50	451	235	171.5	133	101.6	8-Φ29.5	51	7.95	11.91
	65	508	265	197	149	111.12	8-Φ32.5	57.5	9.52	13.49
	80	578	305	228.5	168	127	8-Φ35.5	67	9.52	13.49
	100	673	355	273	203	157.18	8-Φ42	76.5	11.13	16.66
	125	794	420	324	241	190.5	8-Φ48	92.5	12.7	19.84
	150	914	485	368.5	279	228.6	8-Φ55	108	12.7	19.84
	200	1022	550	438	340	279.4	12-Φ55	127	14.27	23.01





电装型号 规格 主要尺寸和重量 Electric Actuator Code Size Main Dimensions and Weight JB/T79.1

1.6Mpa	DN	L	D	D1	D2	b	Z-φd	电装型号 Electric type model	H	重量 W(kg) Weight (kg)
凸面法兰 Convex flange RF	40	200	145	110	85	16	4-18	DZW10	630	87.5
	50	250	160	125	100	16	4-18	DZW10	678	90
Z940H	65	265	180	145	120	18	4-18	DZW15	693	96
Z940Y	80	280	195	160	135	20	8-18	DZW20	755	108
Z940W	100	300	215	180	155	20	8-18	DZW20	820	126
Z940F	125	325	245	210	185	22	8-18	DZW20	934	173
Z941H	150	350	280	240	210	24	8-23	DZW30	994	199
Z941Y	200	400	335	295	265	26	12-23	DZW30	1138	254
Z941W	250	450	405	355	320	30	12-25	DZW45	1409	310
Z941F	300	500	460	410	375	30	12-25	DZW60	1588	391
16C	350	550	520	470	430	34	16-25	DZW60	1755	729
16P	400	600	580	525	485	36	16-30	DZW90	1902	992
16R	450	650	640	585	545	40	20-30	DZW90	2141	1168
16I	500	700	705	650	608	44	20-34	DZW120	2276	1222
Z942H	600	800	840	770	718	48	20-41	DZW180	2474	1376
Z942Y	700	900	910	840	788	50	24-41	DZW250	3046	1401
Z942W										
Z942F										

注：阀门驱动方式有电动、气动、齿轮传动等，根据用户要求选配。以上数据仅供参考，可根据用户要求选用其它法兰标准。

Note: The means of valve drive has electric, pneumatic, gear-driven, etc. and it is optional according to user requirement. Above data is for your reference only. Other flange standards may be applied based on customer requirement.

电装型号 规格 主要尺寸和重量 Electric Actuator Code Size Main Dimensions and Weight JB/T79.1

2.5Mpa	DN	L	D	D1	D2	b	Z-φd	电装型号 Electric type model	H	重量W(kg) Weight (kg)
凸面法兰 Convex flange RF	40	200	145	110	85	18	4-18	DZW10	630	91
	50	250	160	125	100	20	4-18	DZW10	678	95
	65	265	180	145	120	22	8-18	DZW15	693	99
	80	280	195	160	135	22	8-18	DZW20	755	113
Z940H	100	300	230	190	160	24	8-23	DZW20	820	132
Z940Y	125	325	270	220	188	28	8-25	DZW30	934	181
Z940W	150	350	300	250	218	30	8-25	DZW30	994	206
Z940F	200	400	360	310	278	34	12-25	DZW45	1138	257
Z940H	250	450	425	370	332	36	12-30	DZW60	1409	317
Z941H	300	500	485	430	390	40	16-30	DZW60	1588	412
Z941Y	350	550	550	490	448	44	16-34	DZW90	1755	750
Z941W	400	600	610	550	505	48	16-34	DZW90	1902	1042
Z941F	450	650	660	600	555	50	20-34	DZW120	2141	1274
	500	700	730	660	610	52	20-41	DZW180	2276	1420
	600	800	840	770	718	56	20-41	DZW250	2474	1522
	700	900	955	875	815	60	20-41	DZW250	3046	1617

电装型号 规格 主要尺寸和重量 Electric Actuator Code Size Main Dimensions and Weight JB/T79.2

4.0MPa	DN	L	D	D1	D2	D6	b	Z-φd	电装型号 Electric type model	H	重量 Weight
凹凸法兰 Male and female facing flange	40	200	145	110	85	76	18	4-18	DZW15	630	92
	50	250	160	125	100	88	20	4-18	DZW20	691	95
	65	280	180	145	120	110	22	8-18	DZW20	711	102
	80	310	195	160	135	121	22	8-18	DZW30	775	115
MFM	100	350	230	190	160	150	24	8-23	DZW45	871	163
	125	400	270	220	188	176	28	8-25	DZW60	948	190
Z940H	150	450	300	250	218	204	30	8-25	DZW90	1028	219
Z940Y	200	550	375	320	282	260	38	12-30	DZW90	1325	373
Z940W	250	650	445	385	345	313	42	12-34	DZW120	1400	480
Z941H	300	750	510	450	408	364	46	16-34	DZW180	1653	686
Z941Y	350	850	570	510	465	422	52	16-34	DZW180	1791	821
Z941W	400	950	655	585	535	474	58	16-41	DZW250	2092	1214
	500	1150	755	670	612	576	62	20-48	DZW350	2465	2150
	600	1350	890	795	730	678	62	20-54	DZW500	2499	
	700	1450	995	900	835	768	68	24-54	DZW800	3582	



## 截止阀概述

截止阀具有结构紧凑，密封面不易磨损、擦伤，密封性能好，制造与维修方便，启闭时阀瓣行程小，启闭时间短，阀门高度小，工艺性能好和适用范围广等特点，是一种广泛使用的截断阀，用于截断或接通管路中的介质，一般不用于调节流量。

本公司多年来不断消化吸收ANSI、API、JIS、BS、DIN等国外先进的阀门技术，在设计、制造和质量控制等方面积累了丰富的经验，开发出具有如下特点的法兰连接钢制截止阀



- ① 产品符合国内外先进标准的要求，结构合理、密封可靠、性能优良、造型美观。
- ② 产品材料品种齐全，填料、垫片可根据实际工况或用户要求合理选配适用于各种压力、温度及介质工况。
- ③ 高温阀门承压部件选用优质耐热合金钢制造，密封面采用Stellite 钴基硬质合金，密封可靠、性能稳定、使用寿命长。
- ④ 高温阀门阀杆采用耐热合金钢，经调质及表面氮化处理，具有良好的综合力学性能和抗腐蚀性、抗擦伤性。
- ⑤ 产品采用倒密封结构，可在不停机工况下进行维修和更换密封填料。
- ⑥ 可采用ANSI、GB、JB、HG、SH等多种配管法兰标准和法兰密封面型式，满足各种工程需要及用户要求。
- ⑦ 可根据用户要求选配IQ、2SA35、SMC、RA、STK等系列智能一体化电动装置，具有功能全，精度高，可与程控电脑配套使用等特点。

用途：

法兰连接连接钢制截止阀适用于公称压力PN1.6~16.0MPa，工作温度-29~550℃的石油、化工、制药、化肥、电力行业等各种工况的管路上，切断或接通管路中的介质。

适用介质为水、油品、蒸汽、酸性介质等。

操作方式有：手动、齿轮传动、电动、气动等。

电装型号 规格 主要尺寸和重量 Electric Actuator Code Size Main Dimensions and Weight JB/T79.2

6.4Mpa	DN	L	D	D1	D2	D6	b	Z-Φd	电装型号 Electric type model	H	重量 Weight
凹凸法兰 Male and female facing flange  MFM  Z940H Z940Y Z940W Z941H Z941Y Z941W	40	240	165	125	95	76	24	4-23	DZW15	665	93
	50	250	175	135	105	88	26	4-23	DZW20	790	102
	65	280	200	160	130	110	28	8-23	DZW30	840	106
	80	310	210	170	140	121	30	8-23	DZW30	890	123
	100	350	250	200	168	150	32	8-25	DZW30	1020	154
	125	400	295	240	202	176	36	8-30	DZW30	1100	205
	150	450	340	280	240	204	38	8-34	DZW45	1290	317
	200	550	405	345	300	260	44	12-34	DZW60	1470	437
	250	650	470	400	352	313	48	12-41	DZW90	1500	606
	300	750	530	460	412	364	54	16-41	DZW120	1820	732
	350	850	595	525	475	422	60	16-36	DZW180	2216	1110
	400	950	670	585	525	474	66	16-48	DZW250	2838	1540
	500	1150	800	705	640	576	70	20-54	DZW350	3320	2011
	600	1350	930	820	750	678	76	20-58	DZW500	3684	

电装型号 规格 主要尺寸和重量 Electric Actuator Code Size Main Dimensions and Weight JB/T79.2

10.0Mpa	DN	L	D	D1	D2	D6	b	Z-φd	电装型号 Electric type model	H	重量W(kg) Weight (kg)		
凹凸法兰 Male and female facing flange MFM	50	250	195	145	112	88	28	4-25	DZW20	781	105		
	65	280	220	170	138	110	32	8-25	DZW20	830	120		
	80	310	230	180	148	121	34	8-25	DZW30	865	151		
	Z940H Z940Y Z940W Z941H Z941Y Z941W	C	100	350	265	210	172	150	38	8-30	DZW30	1179	202
	P	150	450	350	290	250	204	46	12-34	DZW60	1201	310	
	R	200	550	430	360	312	260	54	12-41	DZW90	1611	429	
	I	250	650	500	430	382	313	60	12-41	DZW90	1903	599	
		300	750	585	500	442	364	70	16-48	DZW120	2054	730	
		350	850	655	560	498	422	76	16-54	DZW180	2132	1100	
		400	950	715	620	558	474	80	16-54	DZW250	2321	1519	
16.0Mpa	50	300	215	165	132	88	36	8-25	DZW20	905	124		
凹凸法兰 Male and female facing flange MFM	65	340	245	190	152	110	44	8-30	DZW20	968	158		
	80	390	260	205	168	121	46	8-30	DZW30	978	196		
	100	450	300	240	200	150	48	8-34	DZW30	1043	249		
	Z940H Z940Y Z940W Z941H Z941Y Z941W	P	125	525	355	285	238	176	60	8-41	DZW60	1248	413
	R	150	600	390	318	270	204	66	12-41	DZW90	1394	528	
	I	200	750	480	400	345	260	78	12-48	DZW120	1621	819	

注：以上数据仅供参考，可根据用户要求采用其它标准设计与制造。

Note: Above data is for your reference only. Other standards may also be applied to the design and manufacturing based on customer requirement.



## 截止阀概述

The Globe valve is featured by its compact structure, invulnerability to wear and scratching for its sealing surface, good sealability, easy manufacture and maintenance, small disc travel in opening/closing, short opening/closing time, small valve height, good processing property, wide application scope and so on. It's an extensively used intercepting valve, which is used to intercept or connect the medium in the pipeline. Generally it's not used for flow control.

The company has learned from leading valve technologies and techniques from overseas on ANSI, API, JIS, BS, DIN, etc. for years and has rich experience in the design, manufacturing and quality control. The company has designed flange-connected steel Globe valves with following characteristics.



1. The product meets latest Chinese and overseas standards, with reasonable structure, reliable sealing performance, superior performance and pleasant appearance.
2. The products provide a variety of materials and the filling and cushion could be supplied based on actual work condition or customer requirement reasonably, suitable for various pressures, temperatures and medium work conditions.
3. The pressure retaining parts of high temperature valve are made of quality temperature resistant steel alloy and the sealing face is made from Stellite and cobalt-based hard alloy, extending reliability of sealing, stable performance and long service life.
4. The high temperature valve stem is made of temperature resistant steel alloy through hardening and tempering and surface nitrogen treatment, provided with favorable comprehensive mechanical properties, corrosion resistance and scratch resistance.
5. The product applies back seal structure, allowing maintenance and replacement of sealing fillings provided the frame not shut down.
6. It is allowed to use a variety of piping flange standards and flange sealing face types such as ANSI, GB, JB, HG, SH, etc., meeting diversified engineering requirement and customer needs.
7. The company supplies optional imported integrated, intelligent electric devices including 1Q, 2SA35, SMC, RA, STK and other series according to user requirement. Those devices feature full functionality, high accuracy and compatibility to program-controlled computer.

**Purpose:**

The steel Globe valve with flange connection is applicable for pipelines of different work conditions with PN1.6~16.0Mpa nominal pressure and -29~+550℃ operating temperature in such industries like petroleum, chemical industry, pharmaceuticals, chemical fertilizer, electricity, etc. It is used for cutting off or connecting medium in pipeline.

The applicable mediums including water, oil, steam, acidic medium, etc.

The means of operation include manual, gear-driven, electric, pneumatic, etc.

**执行标准** Administer Standard

设计与制造 Design And Manufacture	结构长度 Face to face	法兰尺寸 Flange Dimension	压力--温度 Pressure Temperature	试验--检验 Inspection And Test
GB/T12235	GB/T12221	GB/9113 JB/T79	GB/T9131	GB/T13927 JB/T9092

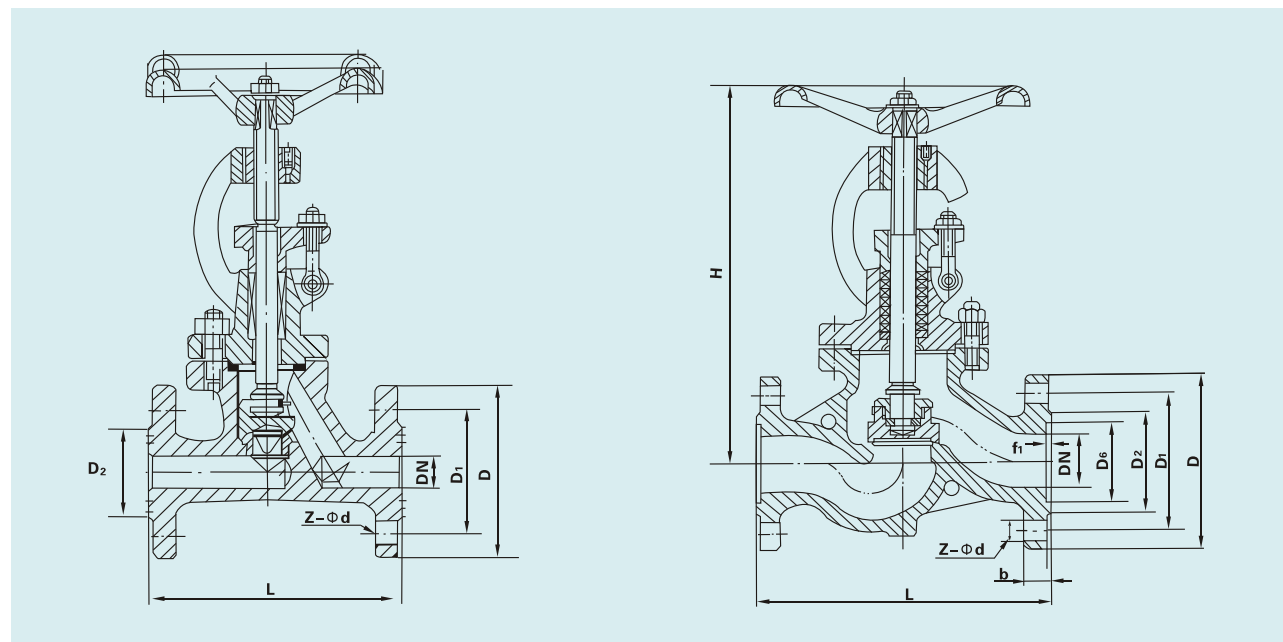
**压力试验 Mpa Pressure Test**

公称压力 Mpa Nominal Pressore	1.6	2.5	4.0	6.4	10.0	16.0
强度试验 Mpa Sliell Test	2.4	3.8	6.0	9.6	15.0	24.0
水密封试验 Mpa Water Seal Test	1.8	2.8	4.4	7.0	11.0	18.0
上密封试验 Mpa Back Seal Test	1.8	2.8	4.4	7.0	11.0	18.0
气密封试验 Mpa Air Seal Test	0.5—0.7					

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

体盖板 Body Cover Disc	阀杆 Stem	密封面 Sealing Face	垫片（环） Sealing Shim	填料 Packing	工作温度 Working Temperature	适用介质 Suitable Medium
WCB	2Cr13	13Cr  STL  本体材料 With Body Material	增强柔性石墨 Enhanced Flexible Graphite 08软钢 08 Soft Steel 0Cr18Ni9Ti 0Cr18Ni12Mo2Ti	柔性石墨 增强柔性石墨 Flexible Graphite  Enhanced Flexible Graphite SFB/260 SFP/260 PTFE	≤425℃	水 蒸 汽 油 品 Water Steam Petroleum Products
WC1	25Cr2Mo 1V				≤450℃	
WC6					≤540℃	
WC9					≤570℃	
ZGCr5Mo					≤540℃	
ZG1Cr18Ni9Ti	1Cr18Ni9Ti	尼 龙 Nylon	XS550F(T) PTFE	≤200℃	硝酸类 Nitric Acid	
ZG1Cr18Ni12Mo2Ti	1Cr18Ni12Mo2Ti				≤200℃	醋酸类 Acetic Acid





手动截止阀主要尺寸和重量 Key dimensions of flange connection for Hand movement Globe valve JB/T 79.1

1.6Mpa	DN	L	D	D <sub>1</sub>	D <sub>2</sub>	b	Z-φd	H	重量W(kg) Weight(kg)
凸面法兰 Male and female facing flange RF	10	130	90	60	40	14	4-14	198	4.9
	15	130	95	65	45	14	4-14	218	5.3
	20	150	105	75	55	14	4-14	258	7.0
	25	160	115	85	65	14	4-14	275	7.4
	32	180	135	100	78	16	4-18	280	8.3
	40	200	145	110	85	16	4-18	330	12.6
	50	230	160	125	100	16	4-18	350	14
	65	290	180	145	120	18	4-18	400	22.7
	80	310	195	160	135	20	8-18	355	29
	100	350	215	180	155	20	8-18	415	32.8
	125	400	245	210	185	22	8-18	460	79.5
	150	480	280	240	210	24	8-23	510	93
	200	600	335	295	265	26	12-23	710	179
	250	622	405	355	320	30	12-25	786	441
	300	698	460	410	375	30	12-25	925	646

注：阀门驱动方式有电动、气动、齿轮传动等，根据用户要求选配。

法兰标准GB/T9113、JB/T79 等、可根据用户要求制造。

Note: The driving means of the valve includes electric, pneumatic, gear-driven, etc. and it is optional based on customer requirement.  
The flange standards include GB/T9113, JB/T79, etc. and flange could be manufactured based on customer requirement.

手动截止阀主要尺寸和重量 Key dimensions of flange connection for Hand movement Globe valve JB/T 79.1

2.5Mpa	DN	L	D	D <sub>1</sub>	D <sub>2</sub>	b	Z-φd	H	Do	重量 W(kg)
凸面法兰 Convex flange therefore RF	10	130	90	60	40	16	4-14	198	120	4.9
	15	130	95	65	45	16	4-14	218	120	5.3
	20	150	105	75	55	16	4-14	258	140	7.0
	25	160	115	85	65	16	4-14	275	160	7.4
	32	180	140	100	78	18	4-18	280	180	8.3
	40	200	150	110	85	18	4-18	330	200	12.6
	50	230	165	125	100	20	4-18	350	240	16
	65	290	185	145	120	22	8-18	400	280	25
	80	310	200	160	135	22	8-18	355	280	30
	100	350	230	190	160	24	8-23	415	320	34.8
	125	400	270	220	188	28	8-25	460	360	89.5
	150	480	300	250	218	30	8-25	510	400	99
	200	600	360	310	278	34	12-25	710	400	181
	250	622	425	370	332	36	12-30	786	450	445
	300	698	485	430	390	40	16-30	925	500	651

手动截止阀主要尺寸和重量 Key dimensions of flange connection for Hand movement Globe valve JB/T79.2

4.0Mpa	DN	L	D	D <sub>1</sub>	D <sub>2</sub>	D <sub>6</sub>	b	f <sub>1</sub>	Z-φd	H	重量 W(kg)
凹凸法兰 Male and female facing flange MFM	20	150	105	75	55	51	16	4	4-14	275	7
	25	160	115	85	65	58	16	4	4-14	285	9
	32	180	135	100	78	66	18	4	4-18	302	12
	40	200	145	110	85	76	18	4	4-18	355	17
	50	230	160	125	100	88	20	4	4-18	373	24
	65	290	180	145	120	110	22	4	8-18	408	33
	80	310	195	160	135	121	22	4	8-18	436	44
	100	350	230	190	160	150	24	4.5	8-23	480	60
	125	400	270	220	188	176	28	4.5	8-25	588	90
	150	480	300	250	218	204	30	4.5	8-25	611	100
	200	533	375	320	282	260	38	4.5	12-30	720	190
	6.4Mpa										
	25	210	135	100	78	58	22	4	4-18	275	15
	32	230	150	110	82	66	24	4	4-23	325	19
	40	260	165	125	95	76	24	4	4-23	360	25
	50	300	175	135	105	88	26	4	4-23	410	35
	65	340	200	160	130	110	28	4	8-23	450	48
	80	380	210	170	140	121	30	4	8-23	485	56
	100	430	250	200	168	150	32	4.5	8-25	537	125
	125	500	295	240	202	176	36	4.5	8-30	631	130
	150	550	340	280	240	204	38	4.5	8-34	646	160
	200	650	405	345	300	260	44	4.5	12-34	813	285



手动截止阀主要尺寸和重量 Key dimensions of flange connection for Hand movement Globe valve

10.0Mpa	DN	L	D	D1	D2	D6	b	f1	Z-Φd	H	重量 W(kg)
凹凸法兰 Male and female facing flange  MFM  J41H C J41Y -100 P J41W R I	15	170	105	75	55	40	20	4	4-14	202	11
	20	190	125	90	68	51	22	4	4-18	228	13
	25	210	135	100	78	58	24	4	4-18	250	14
	32	230	150	110	82	66	24	4	4-23	326	16
	40	260	165	125	95	76	26	4	4-23	359	30
	50	300	195	145	112	88	28	4	4-25	414	50
	65	340	220	170	138	110	32	4	8-25	434	65
	80	380	230	180	148	121	34	4	8-25	547	100
	100	430	265	210	172	150	38	4.5	8-30	621	116
	125	500	310	250	210	176	42	4.5	8-34	732	150
	150	550	350	290	250	204	46	4.5	12-34	840	300
	200	650	430	360	312	260	54	4.5	12-41	925	600
16.0Mpa	15	170	110	75	52	40	24	4	4-18	148	12
凹凸法兰 Male and female facing flange MFM  J41H C J41Y -160 P J41W R I	20	190	130	90	62	51	26	4	4-23	156	15
	25	210	140	100	72	58	28	4	4-23	175	17
	32	230	165	115	85	66	30	4	4-25	200	21
	40	260	175	125	92	76	32	4	4-27	231	31
	50	300	215	165	132	88	36	4	8-25	262	53
	65	340	245	190	152	110	44	4	8-30	303	70
	80	380	260	205	168	121	46	4	8-30	341	100
	100	430	300	240	200	150	48	4.5	8-34	485	120

电动截止阀 主要尺寸和重量 Key dimensions of flange connection for electric Globe valve

1.6Mpa	DN	L	D	D1	D2	b	Z-Φd	电装型号 Electric type model	H	重量 W(kg)
凸面法兰 Convex flange RF  J941H C J941Y -16 P J941W -16 R J941F I J941N I	50	230	160	125	100	16	4-18	DZW10	590	48
	65	290	180	145	120	18	4-18	DZW10	590	60
	80	310	195	160	135	20	8-18	DZW10	590	65
	100	350	215	180	155	20	8-18	DZW15	590	71
	125	400	245	210	185	22	8-18	DZW20	590	120
	150	480	280	240	210	24	8-23	DZW30	590	210
	200	600	335	295	265	26	12-23	DZW45	810	320
	250	622	405	355	320	30	12-25	DZW60	810	550
	300	698	460	410	375	30	12-25	DZW90	830	785
	300	698	460	410	375	30	12-25	DZW90	830	785
2.5Mpa	50	230	160	125	100	20	4-18	DZW10	590	51
凸面法兰 Convex flange  J941H C J941Y -25 P J941W R I	65	290	180	145	120	22	8-18	DZW10	590	63
	80	310	195	160	135	22	8-18	DZW15	590	70
	100	350	230	190	160	24	8-23	DZW20	590	75
	125	400	270	220	188	28	8-25	DZW30	590	128
	150	480	300	250	218	30	8-25	DZW45	810	218
	200	600	360	310	278	34	12-25	DZW60	810	326
	250	622	425	370	332	36	12-30	DZW90	830	580
	300	698	485	430	390	40	16-30	DZW120	830	795

电动截止阀 主要尺寸和重量 Key dimensions of flange connection for electric Globe valve

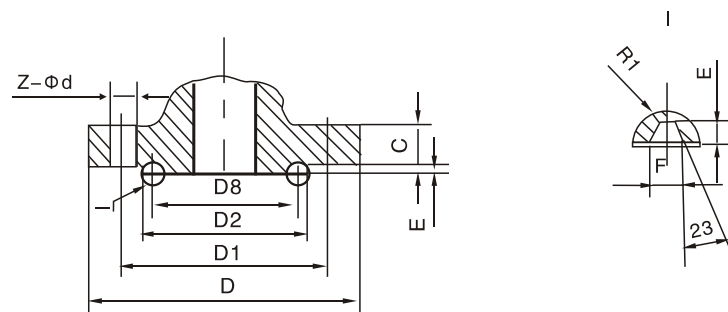
4.0Mpa	DN	L	D	D1	D2	D6	b	Z-Φd	电装型号	H	重量 W(kg)
凹凸法兰 Male and female facing flange  MFM J941H -40 C J941Y P J941W R I	50	230	160	125	100	88	20	4-18	DZW10	590	60
	65	290	180	145	120	110	22	8-18	DZW10	590	74
	80	310	195	160	135	121	22	8-18	DZW20	590	84
	100	350	230	190	160	150	24	8-23	DZW30	590	100
	125	400	270	220	188	176	28	8-25	DZW45	810	210
	150	480	300	250	218	204	30	8-25	DZW60	810	230
	200	533	375	320	282	260	38	12-30	DZW90	830	400
	200	533	375	320	282	260	38	12-30	DZW90	830	400
6.4Mpa	50	300	175	135	105	88	26	4-23	DZW10	590	65
凹凸法兰 Male and female facing flange  MFM J941H -64 C J941Y P J941W R I	65	340	200	160	130	110	28	8-23	DZW15	590	75
	80	380	210	170	140	121	30	8-23	DZW30	590	86
	100	430	250	200	168	150	32	8-25	DZW45	810	170
	125	500	295	240	202	176	36	8-30	DZW60	810	245
	150	550	340	280	240	204	38	8-34	DZW90	830	300
	200	650	405	345	300	260	44	12-34	DZW120	830	421
	200	650	405	345	300	260	44	12-34	DZW120	830	421

电动截止阀 主要尺寸和重量 Key dimensions of flange connection for electric Globe valve

10.0Mpa	DN	L	D	D1	D2	D6	b	Z-Φd	电装型号	H	重量 W(kg)
凹凸法兰 Male and female facing flange MFM J941H -100 C J941Y P J941W R I	50	300	195	145	112	88	28	4-25	DZW20	714	82
	65	340	220	170	135	110	32	8-25	DZW30	734	101
	80	380	230	180	148	121	34	8-25	DZW45	847	171
	100	430	265	210	172	150	38	8-30	DZW60	950	198
	125	500	310	250	210	176	42	8-34	DZW90	1142	285
	150	550	350	290	250	204	46	12-34	DZW120	1240	449
	200	650	430	360	312	260	54	12-41	DZW180	1425	850
	200	650	430	360	312	260	54	12-41	DZW180	1425	850

16.0Mpa	DN	L	D	D1	D2	D6	b	Z-Φd	电装型号	H	重量 W(kg)
凹凸法兰 Male and female facing flange MFM J941Y C J941W -160 P I	50	300	215	165	132	88	36	8-25	DZW30	562	91
	65	340	245	190	152	110	44	8-30	DZW45	743	166
	80	380	260	205	168	121	46	8-30	DZW90	820	215
	100	430	300	240	200	150	48	8-34	DZW120	935	240
	125	500	355	285	238	176	60	8-41	DZW180	1180	500
	150	550	390	318	270	204	66	12-41	DZW250	1290	670
	150	550	390	318	270	204	66	12-41	DZW250	1290	670





电动截止阀高压法兰连接主要尺寸 Key dimensions of high pressure flange connection for electric Globe valve JB/T 79.4

10.0Mpa	DN	L	D	D1	D2	D8	Z-Φd	C	E	F
环槽法兰 Ring joint flange  RTJ  J41H C J41Y-100 P J41W R I	15	210	105	75	55	35	4-Φ14	20	6.5	9
	20	230	125	90	68	45	4-Φ18	22	6.5	9
	25	230	135	100	78	50	4-Φ18	24	6.5	9
	32	260	150	110	82	65	4-Φ23	24	6.5	9
	40	260	165	125	95	75	4-Φ23	26	6.5	9
	50	300	195	145	112	85	4-Φ26	28	8	12
	65	340	220	170	138	110	8-Φ26	32	8	12
	80	380	230	180	148	115	8-Φ26	34	8	12
	100	430	265	210	172	145	8-Φ30	38	8	12
	125	500	310	250	210	175	8-Φ34	42	8	12
	150	550	350	290	250	205	12-Φ34	46	8	12
	200	650	430	360	312	265	12-Φ36	54	8	12
	16.0Mpa	20	229	130	90	62	45	4-Φ23	26	6.5
环槽法兰 Ring joint flange  RTJ  J41H C J41Y-160 P J41W R I	25	254	140	100	72	50	4-Φ23	28	6.5	9
	32	279	165	110	85	65	4-Φ25	30	6.5	9
	40	305	175	125	92	75	8-Φ27	32	6.5	9
	50	368	215	165	132	95	8-Φ25	36	8	9
	65	419	245	190	152	110	8-Φ30	44	8	12
	80	381	260	205	168	130	8-Φ30	46	8	12
	100	457	300	240	200	160	8-Φ34	48	8	12
	125	559	355	285	238	190	8-Φ41	60	8	12
	150	610	390	318	270	205	12-Φ41	66	10	14
	200	737	480	400	345	275	12-Φ48	73	11	17
	20.0Mpa	20	229	130	90	62	45	4-Φ23	28	6.5
环槽法兰 Ring joint flange  RTJ  J41H C J41Y-200 P J41W R I	25	254	150	102	72	50	4-Φ25	30	6.5	9
	32	279	160	115	85	65	4-Φ25	32	6.5	9
	40	305	170	124	90	75	4-Φ27	34	6.5	9
	50	368	210	160	128	95	8-Φ25	40	8	12
	65	419	260	203	165	110	8-Φ30	48	8	12
	80	381	290	230	190	160	8-Φ34	54	8	12
	100	457	360	292	245	190	8-Φ41	66	8	12
	125	559	385	318	270	205	12-Φ41	76	10	14
	150	610	440	360	305	240	12-Φ48	82	11	17
	200	737	535	440	380	305	12-Φ54	92	11	17

## 法兰连接钢制止回阀

## 止回阀概述

止回阀能自动阻止流体倒流，止回阀的阀瓣在流体压力作用下开启，流体从进口侧流向出口侧。当进口侧压力低于出口侧时，阀瓣在流体压差、本身重力等因素作用下自动关闭以防止流体倒流。

本公司多年来不断消化吸收ANSI、API、JIS、BS、DIN等国外先进的阀门技术，在设计、制造和质量控制等方面积累了丰富的经验，开发出具有如下特点的法兰连接钢制止回阀。



- 1、符合GB、JB、ANSI、JIS、BS、DIN、API等国内外先进标准的要求，结构合理、密封可靠、性能优良、造型美观。
- 2、材料品种齐全，填料、垫片可根据用户不同要求合理选配，能适用于各种压力、温度及介质工况。
- 3、高温阀门耐压部件选用优质耐热合金钢制造，密封面采用司太立（Stellite）。钴基硬质合金，密封可靠、性能稳定、使用寿命长。
- 4、阀体、阀盖结构设计合理，壁厚经严格控制及检测符合国家标准GB/T12235、GB/T12236及美国标准ANSI B16.34要求，强度高、刚性好、流阻小。
- 5、高压止回阀中腔采用压力自紧式密封，介质压力越高，密封性能越好。
- 6、旋启式止回阀销轴采用内装式结构，不存在泄漏点，使用性能优良。
- 7、升降式止回阀阀瓣在阀体内导向作升降运动，介质倒流时借介质压力自动将阀瓣关闭
- 8、根据用户或工程要求合理选择连接形式，多种结构可满足不同的使用要求。

用途：

钢制法兰连接旋启式止回阀适用于公称压力PN1.6~25Mpa, 工作温度-29~550℃的石油、化工制药、化肥、电力行业等各种工况的管路上, 适用介质为水、油品、蒸汽、酸性介质等。

升降式止回阀适用于公称压力PN1.6~16.0Mpa, 工作温度-29~550℃的石油、化工、火力电站等各种工况的管路上, 切断或接通介质, 适用介质为水、油品、蒸汽等。



## Overview of check valve

Check valve can automatically prevent medium backflow. The valve flap is opened under effect of fluid pressure and the fluid flows from inlet side to outlet side. When inlet side pressure is smaller than outlet side pressure, the flap is closed down automatically under the effect of fluid differential pressure and dead weight to prevent fluid backflow.

The company has learned from leading valve technologies and techniques from overseas on ANSI, API, JIS, BS, DIN, etc. for years and has rich experience in the design, manufacturing and quality control. The company has designed flange-connected steel check valves with following characteristics.



1. The product meets latest Chinese and overseas standards, such as GB, JB, ANS, JIS, BS, DIN, API, etc, with reasonable structure, reliable sealing performance, superior performance and pleasant appearance.
2. The products provide a variety of materials and the filling and cushion could be supplied based on actual work condition or customer requirement reasonably, suitable for various pressures, temperatures and medium work conditions.
3. The pressure retaining parts of high temperature valve are made of quality temperature resistant steel alloy and the sealing face is made from Stellite and cobalt-based hard alloy, extending reliability of sealing, stable performance and long service life.
4. The structure of the valve body and bonnet is designed reasonably; the wall thickness has gone through strict control and testing, which conforms to GB/T12235, GB/T12236 and ANSI B16.34, with high strength, strong rigidity and small flow resistance.
5. The high-pressure check valve's middle chamber adopts the pressure self-tightening seal, that is, the higher the medium pressure is, and the better the sealability will be.
6. The swing check valve's shaft pin adopts a built-in structure with no leakage points and excellent operating performance.
7. The life check valve disc is piloted and makes up-and-down movements inside the body; when the medium flows back, the disc will be closed automatically under the medium pressure.
8. The connection mode can be chosen reasonably as required by users or projects; and many kinds of structures are available to meet different operating requirements.

## Purpose

The steel flange-connected swing check valve is applicable for pipelines with PN1.6~25Mpa nominal pressure and -29~550℃ operating temperature in such industries including petroleum, chemical industry, pharmaceuticals, chemical fertilizer, electricity, etc. The applicable mediums including water, oil, steam, acidic medium, etc. The lift check valve is applicable for pipelines with PN1.6~16.0Mpa nominal pressure and -29~550℃ operating temperature in such industries like petroleum, chemical industry, thermal power generation, etc. for cutting off or connecting medium.. The applicable mediums include water, oil, steam, etc.

### 执行标准 Administer Standard

种 类 Type	设计与制造 Design And Manufacture	结 构 长 度 Face to face	法 兰 尺 寸 Flange Dimension	压 力-温 度 Pressure-Temperature Lating	试验-检验 Znspection AndTest
旋启式止回阀 Swing Check Valve	GB/12236	GB/12221	GB/T9113 JB/T79	GB/T9131 JB/T3595	GB/T13927 JB/T9092
升降式止回阀 Lift Check Valve	GB/T12235				

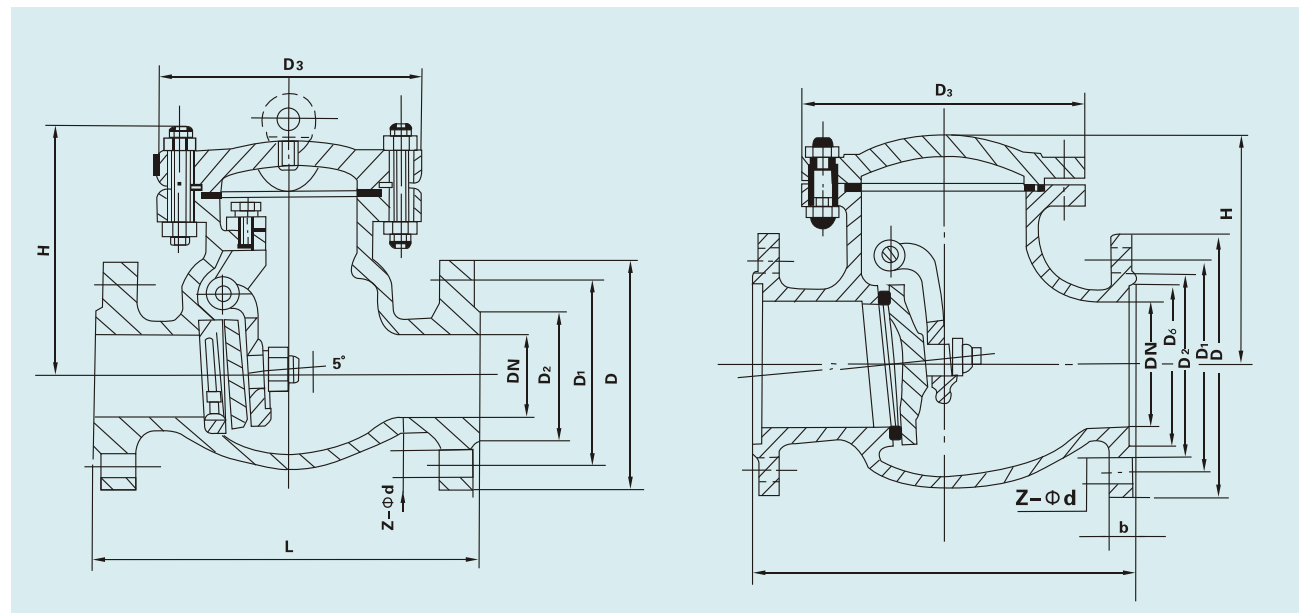
## 压力试验 Pressure Test

公称压力(Mpa) Nominal Pressure	1.6	2.5	4.0	6.4	10.0	16.0	25.0
强度试验(Mpa) Shell Test	2.4	3.8	6.0	9.6	15.0	24.0	37.0
水密封试验(Mpa) Water Seal Test	1.8	2.8	4.4	7.0	11.0	18.0	27.5
气密封试验(Mpa) Air Seal Test	0.5-0.7						

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

体 盖 板 Body Cover Disc	导 向 套 Slide Way Bush	销 轴 Hinge Pin	垫 片 Sealing Shin	密 封 面 Sealing Face	工 作 温 度 Suitable Temperature	适 用 介 质 Suitable Medium
WCB	WCB	1Cr13	增强柔性石墨 1Cr13/柔性石墨 不锈钢/耐酸石棉 PTFE 齿型垫片 Enhanced Flexible Graphite 1Cr13/Flexible Graphite Stainless Steel/Acid- proof Asbestos Tooth profile gasket	13Cr	≤425℃	水蒸气油品 Water Steam Oil Goods
WC6	WC6			STL	≤540℃	
WC9	WC9			本体材料 With Body Material	≤570℃	
ZGCr5Mo	ZGCr5Mo			PTFE	≤550℃	
ZG1Cr18Ni9Ti	ZG1Cr18Ni9Ti	1Cr18Ni9Ti		尼龙 Nylon	≤200℃	硝酸类 Nitric Acid
ZG1Cr18Ni12Mo2Ti	ZG1Cr18Ni12Mo2Ti	1Cr18Ni12Mo2Ti		≤200℃	醋酸类 Acetic Acid	





主要外形尺寸及连接尺寸 Key external dimensions and connection dimensions

JB/T79.1

公称压力 PN(Mpa)	公称通径 DN(mm)	主要外形尺寸及连接尺寸(mm)							质量(kg)	
		L	D	D1	D2	b	Z-Φd	H		
1.6MPa	50	230	160	125	100	16	4-18	160	22	
	65	290	180	146	120	18	4-18	177	26	
	80	310	195	160	135	20	8-18	187	33	
	100	350	215	180	155	20	8-18	202	39	
	125	400	245	210	185	22	8-18	227	57	
	150	480	280	240	210	24	8-23	263	80	
	200	550	335	295	265	26	12-23	293	95	
	250	650	405	355	320	30	12-25	330	175	
	300	750	460	410	375	30	12-25	382	260	
	350	850	520	470	435	34	16-25	430	360	
2.5MPa	50	230	160	125	100	20	4-18	177	22	
	65	290	180	145	120	22	8-18	192	30	
	80	310	195	160	135	22	8-18	192	35	
	100	350	230	190	160	24	8-23	217	52	
	125	400	270	220	188	28	8-25	250	73	
	150	480	300	250	218	30	8-25	270	103	
	200	550	360	310	278	34	12-25	350	135	
	250	650	425	370	332	36	12-30	410	196	
	300	750	485	430	390	40	16-30	430	285	
	350	850	550	490	448	44	16-34	450	388	
H44H H44W-16 H44Y	C P R I	400	950	580	525	485	36	16-30	480	496
		500	1150	705	650	608	44	20-34	560	588

主要外形尺寸及连接尺寸 Key external dimensions and connection dimensions

JB/T79.2

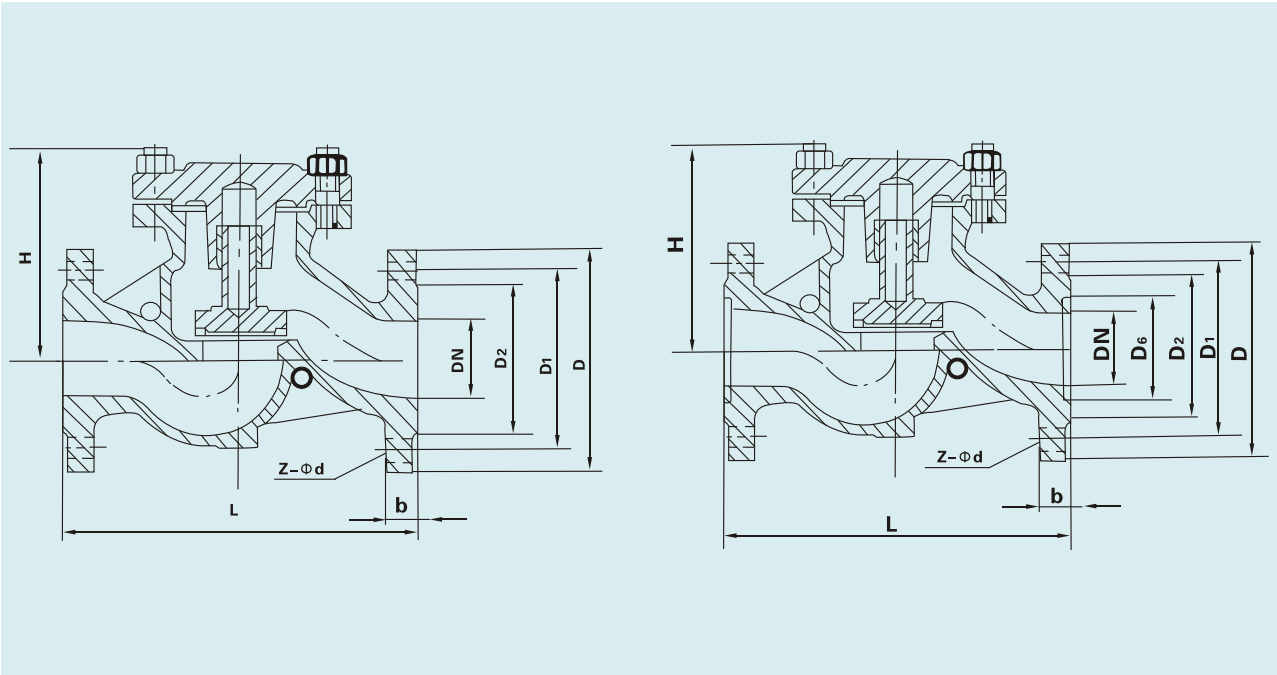
公称压力 PN(Mpa)	公称通径 DN(mm)	主要外形尺寸及连接尺寸(mm)									质量(kg)	
		L	D	D1	D2	D6	b	Z-Φd	D3	H		
4.0MPa  MFM  H44H H44W-40 H44Y	C P R I	50	230	160	125	100	88	20	4-18	185	177	22
		65	290	180	145	120	110	22	8-18	210	192	30
		80	310	195	160	135	121	22	8-18	235	192	34
		100	350	230	190	160	150	24	8-23	260	217	52
		125	400	270	220	188	176	28	8-25	295	259	73
		150	480	300	250	218	204	30	8-25	330	270	103
		200	550	375	320	282	260	38	12-30	450	340	212
		250	650	445	385	345	313	42	12-34	445	401	297
		300	750	510	450	408	364	46	16-34	545	423	362
		350	850	570	510	465	422	52	16-34	570	460	450
6.4MPa  MFM  H44H H44W-64 H44Y	C P R I	50	300	175	125	105	88	26	4-23	210	192	30
		65	340	200	160	130	110	28	8-23	235	207	41
		80	380	210	170	140	121	30	8-23	235	207	48
		100	430	250	200	168	150	32	8-25	270	235	72
		125	500	295	240	202	176	36	8-30	315	265	108
		150	550	340	280	240	204	38	8-34	360	297	155
		200	650	405	345	300	260	44	12-34	420	357	217
		250	775	470	400	352	313	48	12-41	480	405	341
		300	900	530	460	412	364	54	16-41	560	465	472
		350	1025	595	525	475	422	60	16-41	615	514	627
10.0MPa  MFM  H44H H44W-100 H44Y	C P R I	400	1150	670	585	525	474	66	16-48	675	568	882
		500	1400	800	705	640	576	70	20-54	735	620	1027
		50	300	195	145	112	88	28	4-25	210	192	41
		65	340	220	170	138	110	32	8-25	235	207	48
		80	380	230	180	148	121	34	8-25	260	235	72
		100	430	265	210	172	150	38	8-30	295	265	108
		125	500	310	250	210	176	42	8-34	335	313	130
		150	550	350	290	250	204	46	12-34	425	360	217
		200	650	430	360	312	260	54	12-41	450	420	341
		250	775	500	430	382	313	60	12-41	535	480	472

主要外形尺寸及连接尺寸 Key external dimensions and connection dimensions

JB/T79.2

公称压力 PN(Mpa)	公称通径 DN(mm)	主要外形尺寸及连接尺寸(mm)								质量(kg)	
		L	D	D1	D2	D6	b	Z-Φd	H		
16.0MPa MFM  H44H H44W-160 H44Y	C P R I	50	300	215	165	132	88	36	8-25	251	49
		65	340	245	190	152	110	44	8-30	282	58
		80	380	260	205	168	121	46	8-30	320	110
		100	430	300	240	200	150	48	8-34	356	162
		125	500	355	285	238	175	60	8-41	393	214
		150	550	390	318	270	204	66	12-41	430	267
		200	650	480	400	345	260	78	12-48	470	318
		250	750	580	485	425	313	88	12-54	514	370
20.0MPa MFM  H44H H44W-200 H44Y	C P R I	50	368	210	160	128	70	40	8-25	310	63
		65	419	260	203	165	97	48	8-30	346	78
		80	470	290	230	190	116	54	8-34	385	92
		100	546	360	292	245	138	66	8-41	406	168
		125	673	385	318	270	170	76	12-41	534	220
		150	705	440	360	305	190	82	12-48	560	270
		200	832	535	440	380	245	92	12-54	618	320
		250	991	670	572	508	319	110	16-58	673	390





主要外形尺寸及连接尺寸 Key external dimensions and connection dimensions

JB/T79.1

公称压力 PN(Mpa)	公称通径 DN(mm)	主要外形尺寸及连接尺寸(mm)								质量(kg)	
		L	D	D <sub>1</sub>	D <sub>2</sub>	b	Z-Φd	D <sub>3</sub>	H		
1.6MPa RF  H41H H41W-16 H41Y	C P R I										
		50	230	160	125	100	16	4-18	160	115	19
		65	290	180	145	120	18	4-18	175	140	24
		80	310	195	160	135	20	8-18	200	170	29
		100	350	215	180	155	20	8-18	235	200	40
		125	400	245	210	185	22	8-18	285	230	58
		150	480	280	240	210	24	8-23	300	255	83
		200	550	335	295	265	26	12-23	400	285	100
2.5MPa RF  H41H H41W-25 H41Y	C P R I	50	230	160	125	100	20	4-18	160	115	19
		65	290	180	145	120	22	8-18	175	140	24
		80	310	195	160	135	22	8-18	200	170	29
		100	350	230	190	160	24	8-23	235	200	40
		125	400	270	220	188	28	8-25	285	232	72
		150	480	300	250	218	30	8-25	320	262	104
		200	550	360	310	278	34	12-25	400	285	145

主要外形尺寸及连接尺寸 Key external dimensions and connection dimensions

JB/T79.2

公称压力 PN(Mpa)	公称通径 DN(mm)	主要外形尺寸及连接尺寸(mm)								质量(kg)	
		L	D	D1	D2	D6	b	Z-Φd	H		
4.0MPa 凹凸法兰 Male and female facing flange MFM  H41H H41W-40 H41Y	C	32	180	135	100	78	66	18	4-18	120	9
	P	40	200	145	110	85	76	18	4-18	140	12
	R	50	230	160	125	100	88	20	4-18	150	15
	I	65	290	180	145	120	110	22	8-18	160	20
		80	310	195	160	135	121	22	8-18	175	33
		100	350	230	190	160	150	24	8-23	200	41
		125	400	270	220	188	176	28	8-25	225	73
		150	480	300	250	218	204	30	8-25	262	104
6.4MPa 凹凸法兰 Male and female facing flange MFM  H41H H41W-64 H41Y	C	200	600	375	320	282	260	38	12-30	315	147
	P	32	230	150	110	82	66	24	4-23	162	12
	R	40	260	165	125	95	76	24	4-23	168	20
	I	50	300	175	135	105	88	26	4-23	170	29
		65	340	200	160	130	110	28	8-23	188	35
		80	380	210	170	140	121	30	8-23	205	47
		100	430	250	200	168	150	32	8-25	230	68
		125	500	295	240	202	176	36	8-30	265	100
10.0MPa 凹凸法兰 Male and female facing flange MFM  H41H H41W-100 H41Y	C	150	550	340	280	240	204	38	8-34	310	142
	P	200	600	405	345	300	260	44	12-34	350	195
	R	32	230	150	110	82	66	24	4-23	140	12
	I	40	260	165	125	95	76	26	4-23	155	20
		50	300	195	145	112	88	28	4-25	170	29
		65	340	220	170	138	110	32	8-25	190	42
		80	380	230	180	148	121	34	8-25	235	63
		100	430	265	210	172	150	38	8-30	265	88
16.0MPa 凹凸法兰 Male and female facing flange MFM  H41H H41W-160 H41Y	C	125	500	310	250	210	176	42	8-34	310	100
	P	150	550	350	290	250	204	46	12-34	350	120
	R	200	600	430	360	312	260	54	12-41	400	145
	I	32	260	165	115	85	66	30	4-25		
		40	260	175	125	92	76	32	4-27		
		50	300	215	165	132	88	36	8-25		
		65	340	245	190	152	110	44	8-30		
		80	380	260	205	168	121	46	8-30		
	100	430	300	240	200	150	48	8-34			



## 闸阀特点 Characteristics of gate valve

- 1、产品的设计制造符合美国国家标准ANSI B16.34，美国石油协会标准API600和API6D要求。

1. The product design and manufacturing meet the U.S. national standard ANSI B16.34, API600 standard of American Petroleum Institute and API6D.

- 2、结构紧凑、体积小、钢性好、完全可靠。

2. The product is provided compact construction, small volume, fine rigidity and high security and reliability.

- 3、关闭件（闸阀）采用弹性结构，在工作中能自动补偿由于异常负荷或温度引起的阀体变形。因此，密封可靠，并且不会产生闸板楔死。

3. The closing members (gate valve) adopt elastic structure that can make up automatically during service the valve body deformation as a result of abnormal load or temperature. Therefore, the sealing performance is reliable without blocking of gate plate.

- 4、阀座可为更换式阀座，可以任意组合与关闭件密封面材质的配对，以满足工况要求，处长使用寿命。

4. Valve seat could be replaceable and match sealing face material of closing members upon optional combinations, meeting work conditions with extended service life.

**采用标准** Applicable standards

设计标准 Design standard	API6D或API600、JIS B2073-2083
结构长度 Structural length	ANSI B16.10、JIS B2002
配管法兰 Piping flange	ANSI B16.5、JIS B2212-2214
对焊端尺寸 Butt-welded end size	ANSI B16.25
检验与实验 Test and experiment	API6D或API598、JIS B2003
传动方式 Driving method	手动、电动、齿轮传动 manual, electric, gear-driven

## 试压规范 Pressure test norms

压力等级或公称压力 Pressure rating or nominal pressure	壳体实验 Casing test (MPa)	密封实验 (MPa) Sealing test	
		高压液密封 High pressure hydraulic sealing	低压气密封 Low pressure pneumatic sealing
150Lb,PN2.0MPa	3.1	2.2	0.6
300Lb,PN5.0MPa	7.8	5.6	
600Lb,PN10.0MPa	15.3	11.2	
JIS10K	2.1	1.6	
JIS20K	5.1	3.8	

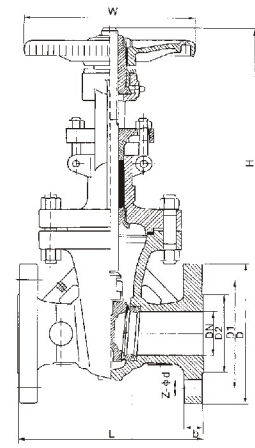
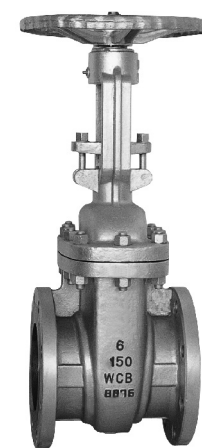
### 主要零件材料及性能规范

零件名称 Part name				材 料 Material										
阀体  阀盖 闸板 Body,bonnet Disc				ASTM  A216 WCB		ASTM  A351 CF8		ASTM  A351 CF8M		ASTM  A351 CF3		ASTM  A351 CF3M		
阀杆 Stem				1Cr13		0Cr18Ni9		0Cr17Ni 12Mo2		00Cr19Ni11		00Cr17Ni 14Mo2		
				F6a		304		316		304L		316L		
上密封座 Upper sealing seat				1Cr13(F6a)		本  体 Principal								
闸板  密封面 Gate plate  Sealing face 阀座 Valve seat				13Cr	13Cr	STL	本  体 Principal		本  体 Principal		STL			
				13Cr	STL	STL	本  体 Principal		STL		STL			
填料  Filling				柔性石墨环+YS450F		≤200℃聚四氟乙烯或聚四氟乙烯编织填料，>200℃柔性石墨环+柔性石墨编织填料 ≤200℃ Teflon or woven Teflon filling, 200 flexible graphite ring+Woven flexible graphite filling								
垫片Cushion				柔性石墨复合垫（芯板：碳钢或不锈钢）不锈钢带/柔性石墨缠绕垫 Flexible graphite composite cushion (core board: carbon steel or stainless steel) Stainless steel strip/flexible graphite wrapped cushion										
中法兰螺栓 Medium flange bolt				35CrMo ASTMA193 B7		0Cr18Ni9    ASTM A193   B8								
中法兰螺母 Medium flange nut				45 ASTMA194 2H		0Cr18Ni9    ASTM A194   B8								
阀杆螺母 Stem nut				ZCuAL10Fe3    ASTM  A439   D-2										
手轮 Hand wheel				可锻铸铁、球墨铸铁、铸钢 Forgeable cast iron, spheroidal cast iron, cast steel										
适用 工况 Applicable work condition	使用介质 Applicable medium	水、蒸汽、油品等 Water, steam, petroleum product, etc.		硝酸等腐蚀介质 Corrosive medium such as nitric acid		醋酸等腐蚀介质 Corrosive medium such as acetic acid		强氧化性介质 Strong oxidizing medium		尿素等腐蚀性介质 Corrosive medium such as urea				
	使用温度(℃) Service temperature	-29~425		-40~200(超出该温度范围、请在订货时注明) -40~200 (Please specify in your purchase order if the temperature scope will be exceeded)										

注：如法兰密封面采用凸面以外的型式，请在订货时注明。

Note: Please specify in your purchase order if flange sealing face uses types other than convex.

**API钢制闸阀**  
API steel gate valve



### 主要外形尺寸及连接尺寸 Key external dimensions and connection dimensions

**Z40H ( Y、W )**

磅级 Class	公称通径(DN) Nominal through diameter		凸面法兰(RF)主要连接尺寸 Key connection dimension of convex flange (RF)						Z40外形尺寸 Z40 external dimension	
	in	mm	L	D	D1	D2	b	Z- φ d	H(全开) H (fully opened)	W
150Lb	1	25	127	108	79.5	51	15	4-16	200	120
	1 1/4	32	140	117	89	64	16	4-16	235	140
	1 1/2	40	165	127	98.5	73	18	4-16	285	180
	2	50	178	152	120.5	92	20	4-19	409	200
	2 1/2	65	190	178	139.5	105	23	4-19	450	200
	3	80	203	190	152.5	127	24	4-19	570	250
	4	100	229	229	190.5	157	24	8-19	590	250
	5	125	254	254	216.0	186	24	8-22	725	250
	6	150	267	279	241.5	216	26	8-22	630	300
	8	200	292	343	298.5	270	29	8-22	960	350
	10	250	330	406	362	324	31	12-25	1158	400
	12	300	356	483	432	381	32	12-25	1378	450
	14	350	381	533	476.5	413	35	12-29	1543	500
	16	400	406	597	539.5	470	37	16-29	1738	600
	18	450	432	635	578	533	40	16-32	1959	600
	20	500	457	698	635	584	43	20-32	2214	680
24	600	508	813	749.5	692	48	20-35	2599	760	

注：如法兰密封面采用凸面以外的型式，请在订货时注明。

Note: Please specify in your purchase order if flange sealing face uses types other than convex.



主要外形尺寸及连接尺寸 Key external dimensions and connection dimensions

Z40H ( Y、W )

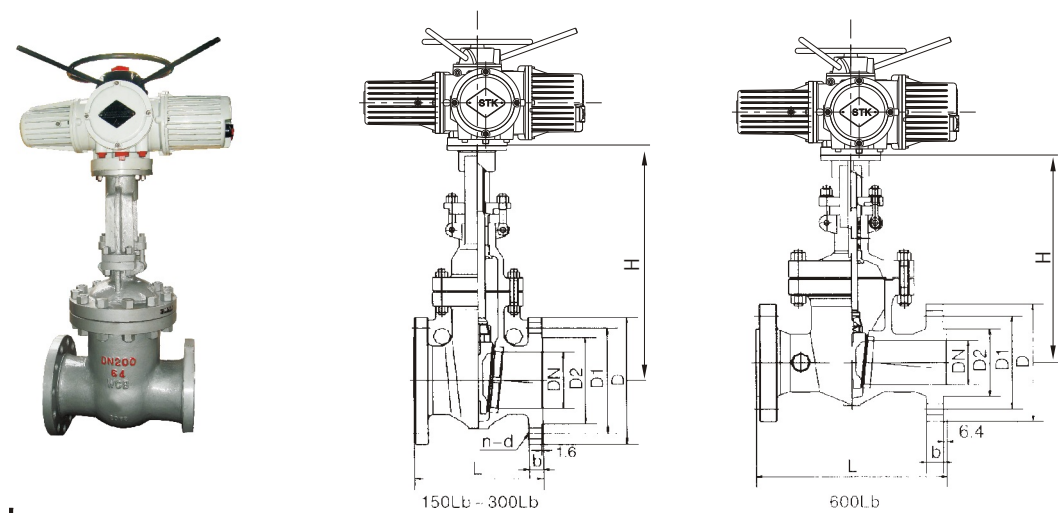
磅级 Class	公称通径(DN) Nominal through diameter		凸面法兰 (RF) 主要连接尺寸 Key connection dimension of convex flange (RF)						Z40外形尺寸	
	in	mm	L	D	D1	D2	b	Z- φ d	H(全开) H (fully opened)	W
300Lb	1	25	165	124	89	50.8	18	4-19	215	140
	1 1/4	32	178	133	98.6	63.5	20	4-19	255	180
	1 1/2	40	190	156	114.5	73	21	4-22	320	200
	2	50	216	165	127	92	23	8-19	424	200
	2 1/2	65	241	190	149	105	26	8-22	460	250
	3	80	283	210	168	127	29	8-22	550	250
	4	100	305	254	200	157.2	32	8-22	615	250
	5	125	381	279	235	186	36	8-22	760	350
	6	150	403	318	270	216	37	12-22	795	350
	8	200	419	381	330	270	42	12-25	1012	400
	10	250	457	445	387.4	324	48	16-29	1231	450
	12	300	502	521	451	381	51	16-32	1450	500
	14	350	762	584	514.4	413	54	20-32	1645	600
	16	400	838	648	571.5	470	58	20-35	1841	600
	18	450	914	711	628.7	533	61	24-35	1943	680
	20	500	991	775	686	584	64	24-35	2151	760
	24	600	1143	914	813	692	70	24-41	2553	915
600Lb	1	25	216	124	89	50.8	18	4-19	215	180
	1 1/4	32	229	133	98.5	63.5	21	4-19	270	200
	1 1/2	40	241	156	114.5	73.2	23	4-22	345	200
	2	50	292	165	127	92	26	8-19	458	250
	2 1/2	65	330	190	149	105	29	8-22	520	250
	3	80	356	210	168	127	32	8-22	570	250
	4	100	432	273	216	157	39	8-25	690	350
	5	125	508	330	266.5	186	45	8-29	780	350
	6	150	559	356	292	216	48	12-29	910	450
	8	200	660	419	349	270	56	12-32	1064	500

主要外形尺寸及连接尺寸 Key external dimensions and connection dimensions

Z40H ( Y、W )

磅级 Class	公称通径(DN)		环槽法兰(RL)主要连接尺寸 Key connection dimension of ring joint flange						Z40外形尺寸 Z40 external dimension	
	in	mm	L	D	D1	P	b	Z- φ d	H(全开) H (fully opened)	W
900Lb	2	50	371.2	216	165	95.25	38.5	8-26	521	300
	2 1/2	65	422.2	244	190.5	107.95	41.5	8-29	584	350
	3	80	384.2	241	190.5	123.83	38.5	8-26	648	350
	4	100	460.2	292	235	149.23	45	8-32	750	400
	5	125	562.2	349	279.5	180.98	51	8-35	780	400
	6	150	613.2	381	317.5	211.14	56	12-32	800	500
	8	200	740.2	470	394	269.88	64	12-39	940	600
	10	250	841.2	545	470	323.85	70	16-39	1130	600
	12	300	968.2	610	533.5	381.00	79.5	20-39	1340	650
	14	350	1032.5	640	559	419.10	86	20-42	1543	700
1500Lb	2	50	371.2	216	165	95.25	38.5	8-26	614	250
	2 1/2	65	422.2	244	190.5	107.95	41.5	8-29	680	300
	3	80	473.2	267	203	136.52	48	8-32	705	350
	4	100	549.2	311	241	161.92	54	8-35	927	450
	6	150	711.4	394	317.5	211.12	83	12-39	1191	600
	8	200	841.5	483	393.5	269.88	92	12-45	1524	700
	10	250	1000.5	585	482.5	232.85	108	12-54	1854	800
	12	300	1146	675	571.5	384.00	124	16-54	2184	900
	14	350	1276.5	750	635	419.10	133.5	16-61	2216	900
	2	50	454	235	171.5	101.60	51	8-29	523	350
2500Lb	2 1/2	65	514.5	267	197	111.12	57.5	8-32	631	350
	3	80	584	305	228.5	127.00	67	8-35	735	450
	4	100	682.5	356	273	157.18	76.5	8-42	891	500
	6	150	927	483	368.5	228.60	108	8-54	1144	600
	8	200	1038	550	438	279.40	127	12-54	1392	700
	10	250	1292	675	539.5	342.90	165.5	12-67	1614	800
	2	50	454	235	171.5	101.60	51	8-29	523	350
	2 1/2	65	514.5	267	197	111.12	57.5	8-32	631	350





主要连接尺寸

Z940H ( Y、W )

压力级 Class	公称通径(DN) Nominal through diameter		凸面法兰 ( RF ) 主要连接尺寸 Key connection dimension of convex flange (RF)							
	in	mm	L	D	D1	D2	b	n-d	电装型号 Electric type model	D0
150Lb	2	50	178	152	120.5	92	20	4-19	DZW10	678
	2 1/2	65	190	178	139.5	105	23	4-19	DZW10	693
	3	80	203	190	152.5	127	24	4-19	DZW10	755
	4	100	229	229	190.5	157	24	8-19	DZW10	820
	6	150	267	279	241.5	216	26	8-22	DZW20	994
	8	200	292	343	298.5	270	29	8-22	DZW20	1138
	10	250	330	406	362	324	31	12-25	DZW30	1409
	12	300	356	483	432	381	32	12-25	DZW45	1588
	14	350	381	533	476.5	413	35	12-29	DZW60	1750
	16	400	406	597	540	470	37	16-29	DZW90	1920
	18	450	432	635	578	533	40	16-32	DZW120	2140
	20	500	457	698	635	584	43	20-32	DZW180	2275
	24	600	508	813	749.5	692	48	20-35	DZW350	2475
	26	650	559	870	806.5	749	68.5	20-35	DZW350	2713
	28	700	610	927	863.5	800	71.5	28-35	DZW500	3045
	30	750	610	984	914.5	857	75	28-35	DZW500	3250

主要连接尺寸

磅级 Class	公称通径(DN) Nominal through diameter		凸面法兰(RF)主要连接尺寸 Key connection dimension of convex flange (RF)							
	in	mm	L	D	D1	D2	b	n-d	电装型号 Electric type model	H
300Lb	2	50	216	165	127	92	23	8-19	DZW15	691
	2 1/2	65	241	190	149	105	26	8-22	DZW20	711
	3	80	283	210	168.5	127	29	8-22	DZW20	775
	4	100	305	254	200	157	32	8-22	DZW20	871
	6	150	403	318	270	216	37	12-22	DZW45	1028
	8	200	419	381	330	270	42	12-25	DZW45	1325
	10	250	457	445	387.5	324	48	16-29	DZW60	1400
	12	300	502	521	451	381	51	16-32	DZW120	1653
	14	350	762	584	514.5	413	54	20-32	DZW180	1791
	16	400	838	648	571.5	470	58	20-35	DZW200	2092
	20	500	991	775	686	584	64	24-35	DZW500	2465
	24	600	1143	914	813	692	70	24-41	DZW800	3240
600Lb	2	50	292	165	127	92	26	8-19	DZW20	810
	2 1/2	65	330	190	149	105	29	8-22	DZW20	860
	3	80	356	210	168	127	32	8-22	DZW30	892
	4	100	432	273	216	157	38	8-25	DZW30	1013
	6	150	559	356	292	216	48	12-29	DZW60	1250
	8	200	660	419	349	270	56	12-32	DZW90	1450
	10	250	787	508	432	324	64	16-35	DZW120	1650
	12	300	838	559	489	381	67	20-35	DZW180	1800
	14	350	889	603	527	413	70	20-38	DZW250	2030
	16	400	991	686	603	470	77	20-41	DZW350	2250

磅级 Class	公称通径(DN) Nominal through diameter		凸面法兰 ( RF ) 主要连接尺寸 Key connection dimension of convex flange (RF)							
	in	mm	L	D	D1	D2	b	n-d	电装型号 Electric type model	H
900Lb	2	50	368	216	165	92	38.5	8-26	DZW20	832
	2 1/2	65	419	244	190.5	104.7	41.5	8-29	DZW30	880
	3	80	381	241	190.5	127	38.5	8-26	DZW30	905
	4	100	457	292	235	157.2	44.5	8-32	DZW45	1070
	6	150	610	381	317.5	215.9	56	12-32	DZW90	1170
	8	200	737	470	394	269.8	63.5	12-39	DZW120	1440
	10	250	838	545	470	323.9	70	16-39	DZW180	1930
	12	300	965	610	533.5	381	79.5	20-39	DZW250	2259



## 概述 Overview

低温阀门主要在制冷、液化天然气、化工、石油等-46℃~-196℃的低温工程中使用。因其处于低温或超低温环境中，故低温阀门具有独特的外形和内部结构，选材严格。

Low temperature valve is mainly used in low temperature projects of -46?--196? in such sectors including refrigeration, liquefied natural gas, chemical industry, petroleum, etc. Since it always work in low temperature or ultra-low temperature environment, low temperature valve has unique appearance and internal structure and the material is well chosen.

- 1、阀门主体零部件在低温环境下,要保持良好的冲击韧性,不脆裂;并具有良好的磨性,耐擦伤和耐腐蚀性,保证不会因温度变化而产生永久性变形。

The key parts and components should maintain favorable impact tenacity without frost crack under low temperature and should have favorable wear resistance, scratch resistance and corrosive protection. They should refrain from permanent deformation resulting from temperature fluctuations.

- 2、阀杆要镀硬铬或表面氮化处理，以防擦伤；同时要求螺钉螺母不会在低温下咬死，填料在低温下要有良好的自润滑性。

The stem should be hard-chrome plated or subject to surface nitrogen treatment.. Meanwhile, the screws and nuts should not seize under low temperature and the filling must have favorable self-lubricating performance under low temperature.

- 3、低温阀细长的阀盖脖颈促使填料函远离低温介质，保证其工作环境温度在0℃以上，从而保证阀杆在上下运动时不被擦伤。

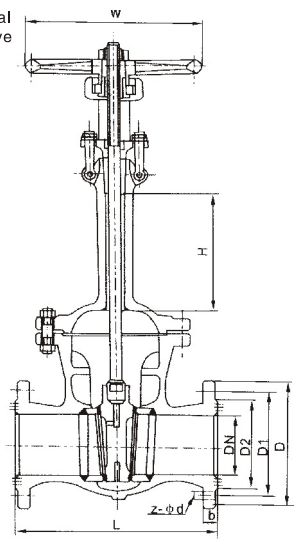
The thin, long cap sleeve of low temperature valve keeps filling away from low temperature medium, ensuring the work environment temperature above 0°. This will ensure zero scratch of stem during upward and downward movement.

## 标准 Standard

设计与制造 Design and manufacturing	结构长度 Structural length	法兰尺寸 Flange size	压力-温度 Pressure-temperature	试验-检验 Test-inspection
API600/API 6D	ANSI B16.10	ANSI B16.5	ANSI B16.34	API 598

### 主要零件材料及性能 Key parts material and performance

体、盖、瓣 Valve body, cap, flap	阀杆 Stem	密封面 Sealing face	垫片(环) Cushion (ring)	填料 Filling	工作温度℃ Operating temperature (°C)	适用介质 Applicable medium
LCB	420STL/STL	1Cr13/flexible graphite 1Cr13/柔性石墨 低温石棉 Low temperature asbestos	Flexible graphite 柔性石墨 PTFE 浸聚四氟乙烯石棉绳 Teflon-immersed asbestos rope	-46	丙烷 Propane	
LC1	431			-60	丙烯 Methanol	
LC2				-73	甲醇 Ethane	
LC3	321			-101	乙烷 Coal gas	
LC4				-115	煤气	
CF8				-196	液氨 Liquid ammonia	

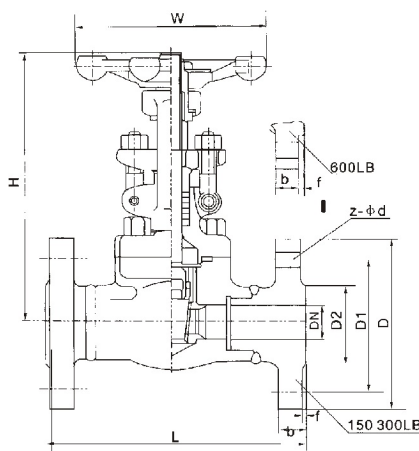


### 主要连接尺寸 Key connection dimension

压力级 Class	公称通径(DN) Nominal through diameter		凸面法兰 (RF) 主要连接尺寸 Key connection dimension of convex flange (RF)									
	in	mm	L	D	D1	D2	b	Z- φd	W	H		
										-46℃	-101℃	-196℃
150Lb	1 1/2	40	165	127	98.5	73	18	4-16	160	110	130	160
	2	50	178	152	120.5	92	20	4-19	200	110	130	170
	2 1/2	65	190	178	139.5	105	23	4-19	250	120	150	190
	3	80	203	190	152.5	127	24	4-19	250	120	150	190
	4	100	229	229	190.5	157	24	8-19	300	130	160	200
	5	125	254	254	216	186	24	8-22	300	140	170	220
	6	150	267	279	241.5	216	26	8-22	350	140	170	220
	8	200	292	343	298.5	270	29	8-22	350	140	170	220
	10	250	330	406	362	324	31	12-25	400	150	180	240
	12	300	356	483	432	381	32	12-25	450	150	180	240
	14	350	381	533	476.5	413	35	12-29	500	160	190	250
	16	400	406	597	540	470	37	16-29	600	160	190	250
	18	450	432	635	578	533	40	16-32	650	170	190	250
	20	500	457	699	635	584	43	20-32	650	170	200	260
24	600	508	813	749.5	692	48	20-35	700	170	200	260	
300Lb	1 1/2	40	190	156	114.5	73	21	4-22	160	110	130	160
	2	50	216	165	127	92	23	8-19	220	110	130	170
	2 1/2	65	241	190	149	105	26	8-22	220	120	150	190
	3	80	283	210	168.5	127	29	8-22	250	120	150	190
	4	100	305	254	200	157	32	8-22	300	130	160	200
	5	125	381	279	235	186	35	8-22	350	140	170	220
	6	150	403	318	270	216	37	12-22	350	140	170	220
	8	200	419	381	330	270	42	12-22	400	140	170	220
	10	250	457	445	387.5	324	48	16-29	500	150	180	240
	12	300	502	521	451	381	51	16-32	600	150	180	250
	14	350	762	584	514.5	413	54	20-32	600	160	190	250
	16	400	838	648	571.5	470	58	20-35	650	160	190	250
	18	450	914	711	628.5	533	61	24-35	800	160	190	250
	20	500	991	775	686	584	64	24-35	900	170	200	260
24	600	1143	914	813	692	70	24-41	1000	170	200	260	

## API锻钢闸阀

API forged-steel gate valve

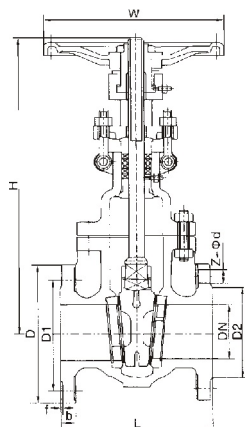


### 主要连接尺寸 Key connection dimension

**Z41H ( Y、 W ) -150、 300、 600Lb**

规格NPS (in)	凸面法兰 (RF) 主要连接尺寸 Key connection dimension of convex flange (RF)									
	DN	L	D	D1	D2	b	f	Z-φd	H	W
150Lb										
1/2	13	108	89	60.5	35	11.5	1.6	4-16	166	100
3/4	19	117	98	70.0	43	13	1.6	4-16	169	100
1	25	127	108	79.5	51	14.5	1.6	4-16	193	125
1 1/4	32	140	117	89.0	63.5	16	1.6	4-16	230	160
1 1/2	38	165	127	98.5	73	17.5	1.6	4-16	246	160
2	51	178	152	120.5	92	19.5	1.6	4-19	290	180
300Lb										
1/2	13	140	95	66.5	35	15	1.6	4-16	166	100
3/4	19	152	117	82.5	43	16	1.6	4-19	169	100
1	25	165	124	89	51	18	1.6	4-19	193	125
1 1/4	32	178	133	98.5	63.5	19	1.6	4-19	230	160
1 1/2	38	190	156	114.5	73	21	1.6	4-22	246	160
2	51	216	165	127	92	23	1.6	8-19	290	180
600Lb										
1/2	16	165	95	66.5	35	15	6.4	4-16	166	100
3/4	19	190	117.5	82.5	43	16	6.4	4-19	169	100
1	25	216	124	89	51	18	6.4	4-19	193	125
1 1/4	32	229	133	98.5	63.5	21	6.4	4-19	230	160
1 1/2	38	241	156	114.5	73	23	6.4	4-22	246	160
2	51	292	165	127	92	26	6.4	8-19	290	180





### Z40H ( Y、W ) -10K、20K主要连接尺寸 Key connection dimension

JIS B2214-1999

10K										
公称通径DN		凸面法兰 (RF) 主要连接尺寸 Key connection dimension of convex flange (RF)								
mm	in	L	D	D1	D2	b	f	Z-φd	H≈	W
50	2	178	155	120	100	16	2	4-φ19	435	200
65	2 1/2	190	175	140	120	18	2	4-φ19	435	200
80	3	203	185	150	130	18	2	8-φ19	520	250
100	4	229	210	175	155	18	2	8-φ19	630	250
125	5	254	250	210	185	20	2	8-φ23	785	300
150	6	267	280	240	215	22	2	12-φ23	850	300
200	8	292	330	290	265	22	2	12-φ23	1060	355
250	10	330	400	355	325	24	2	12-φ25	1295	400
300	12	356	445	400	370	24	3	16-φ25	1485	500
350	14	381	490	445	415	26	3	16-φ25	1685	560
400	16	406	560	510	475	28	3	16-φ27	1830	600
450	18	432	620	565	530	30	3	20-φ27	2010	650
500	20	457	675	620	585	30	3	20-φ27	2230	650
600	24	508	795	730	690	32	3	24-φ33	2580	700
20K										
50	2	216	155	120	100	18	2	8-φ19	480	200
65	2 1/2	241	175	140	120	20	2	8-φ19	510	200
80	3	283	200	160	135	22	2	8-φ23	580	250
100	4	305	225	185	160	24	2	8-φ23	700	250
125	5	381	270	225	195	26	2	8-φ25	830	300
150	6	403	305	260	230	28	2	12-φ25	940	355
200	8	419	350	305	275	30	2	12-φ25	1190	450
250	10	457	430	380	345	34	2	12-φ27	1390	560
300	12	502	480	430	395	35	3	16-φ27	1600	600
350	14	762	540	480	440	40	3	16-φ33	1750	650
400	16	838	605	540	495	46	3	16-φ33	1900	650
450	18	914	675	605	560	48	3	20-φ33	2320	840
500	20	991	730	660	615	50	3	20-φ33	2510	890
600	24	1143	845	770	720	54	3	24-φ39	2960	1100

## API钢制截止阀

API steel globe valve

## 产品概述 Product overview

- 1、产品的设计制造符合美国国家标准ANSIB16.34，英国国家标准BS1873等国外先进标准要求。  
The product design and manufacturing meet the U.S. national standard ANSIB16.34, U.K. national standard BS1873 and other leading overseas standards.
- 2、阀体外型为桶形或流线形，造型美观，流道形状为直通式，流体阻力小。  
The valve body is in barrel or streamlined shape with pleasant appearance. The flow channel is through type with limited fluid resistance.
- 3、关闭件（阀瓣）与阀座密封面采用锥面密封，关闭力小、耐冲刷、密封可靠。  
The closing members (valve flap) and valve seat sealing face use conical surface sealing, characteristic of small closing force, scouring resistance and reliability of sealing.
- 4、阀座可为更换式阀座，可以任意组合与关闭件密封面材质的配对，以满足各种工况要求，延长使用寿命。  
The valve seat is replaceable and can be combined to match sealing face material of closing members, thus meeting requirement of diverse work conditions with extended service life.

**采用标准 Applicable standards**

设计标准 Design standard	BS1873、JIS B2071-2081
结构长度 Structural length	ANSI B16.10、JIS B2002
配管法兰 Piping flange	ANSI B16.5、JIS B2212-2214
对焊端尺寸 Butt-welded end size	ANSI B16.25
检验与实验 Test and experiment	API598、JIS B2003
传动方式	手动、电动、齿轮传动

## 试压规范 Pressure test norms

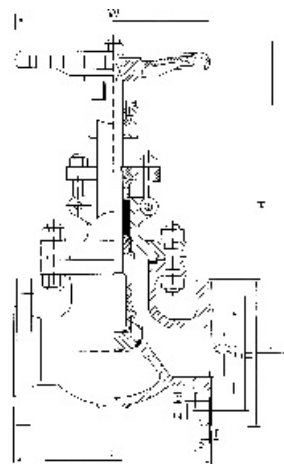
压力等级或公称压力 Pressure rating or nominal pressure	壳体实验 Casing test (MPa)	密封实验(MPa) Sealing test	
		高压液密封 High pressure hydraulic sealing	低压气密封 Low pressure pneumatic sealing
150Lb,PN2.0MPa	3.1	2.2	0.6
300Lb,PN5.0MPa	7.8	5.6	
600Lb,PN10.0MPa	15.3	11.2	
JIS10K	2.1	1.6	
JIS20K	5.1	3.8	

### 主要零件材料及性能规范 Key parts material and performance specification

零件名称 Part name				材 料 Material:										
阀体 阀盖 闸板 Body,bonnet Disc				ASTMA216 WCB		ASTMA351 CF8		ASTMA351 CF8M		ASTMA351 CF3		ASTMA351 CF3M		
阀杆 Stem				1Cr13		0Cr18Ni9		0Cr17Ni 12Mo2		00Cr19Ni11		00Cr17Ni 14Mo2		
				F6a		304		316		304L		316L		
上密封座 Upper sealing seat				1Cr13(F6a)			本 体 Principal							
闸板 密封面 Gate plate Sealing face 阀座 Valve seat				13Cr	13Cr	STL	本 体 Principal			本 体 Principal			STL	
				13Cr	STL	STL	本 体 Principal			STL			STL	
填料 Filling				柔性石墨环+YS450F			≤200℃聚四氟乙烯或聚四氟乙烯编织填料, >200℃柔性石墨环+柔性石墨编织填料 ≤200℃ Teflon or woven Teflon filling, 200 flexible graphite ring+Woven flexible graphite filling							
垫片 Cushion				Flexible graphite composite			柔性石墨复合垫 (芯板: 碳钢或不锈钢) 不锈钢带/柔性石墨缠绕垫 Flexible graphite composite cushion (core board: carbon steel or stainless steel) Stainless steel strip/flexible graphite wrapped cushion							
中法兰螺栓 Medium flange bolt				35CrMo ASTMA193 B7			0Cr18Ni9			ASTMA193 B				
中法兰螺母 Medium flange nut				45 ASTMA194 2H			0Cr18Ni9			ASTMA194 B8				
阀杆螺母 Stem nut				ZCuAl10Fe3										
手轮 Hand wheel				可锻铸铁、球墨铸铁、铸钢 Forgeable cast iron, spheroidal cast iron, cast steel										
适用 工况 Applicable work condition	使用介质 Applicable medium	水、蒸汽、油品等 Water, steam, petroleum product, etc.		硝酸等腐蚀介质 Corrosive medium such as nitric acid		醋酸等腐蚀介质 Corrosive medium such as acetic acid		强氧化性介质 Strong oxidizing medium		尿素等腐蚀性介质 Corrosive medium such as urea				
	使用温度(℃) Service temperature	-29~425		-40~200 (超出该温度范围、请在订货时注明) -40~200 (Please specify in your purchase order if the temperature scope will be exceeded)										

注:如法兰密封面采用凸面以外的型式,请在订货时注明。  
Note: Please specify in your purchase order if flange sealing face uses types other than convex.





主要外形尺寸及连接尺寸 Key external dimensions and connection dimensions J41H ( Y、W )

磅级 Class	公称通径(DN) Nominal through diameter									J41外形尺寸	
	in	mm	L	D	D1	D2	b	f	Z-φd	H(全开)	W
150Lb	1/2	15	108	89	60.5	35	12	1.6	4-16	241	125
	3/4	20	117	98	70	43	13	1.6	4-16	241	125
	1	25	127	108	79.5	51	15	1.6	4-16	242	125
	1 1/4	32	140	117	89	63	16	1.6	4-16	280	160
	1 1/2	40	165	127	98.5	73	18	1.6	4-16	283	160
	2	50	203	152	120.5	92	20	1.6	4-19	368	200
	2 1/2	65	216	178	139.5	105	23	1.6	4-19	387	200
	3	80	241	190	152.5	127	24	1.6	4-19	411	250
	4	100	292	229	190.5	157	24	1.6	8-19	454	250
	5	125	356	254	216	186	24	1.6	8-22	455	355
	6	150	406	279	241.5	216	26	1.6	8-22	541	355
	8	200	495	343	298.5	270	29	1.6	8-22	651	450
	10	250	622	406	362	321	31	1.6	12-25	800	450
	12	300	698	483	432	381	32	1.6	12-25	1231	500
300Lb	14	350	787	533	476.5	413	35	1.6	12-29	1450	600
	16	400	914	597	539.5	470	37	1.6	16-29	1645	600

注：如法兰密封面采用凸面以外的型式，请在订货时注明。  
Note: Please specify in your purchase order if flange sealing face uses types other than convex.

主要外形尺寸及连接尺寸 Key external dimensions and connection dimensions J41H ( Y、W )

磅级 Class	公称通径(DN) Nominal through diameter		凸面法兰(RF)主要连接尺寸 Key connection dimension of convex flange (RF)							J41外形尺寸	
	in	mm	L	D	D1	D2	b	f	Z-φd	H(全开)	W
300Lb	1/2	15	152	95	66.5	35	15	1.6	4-16	241	125
	3/4	20	178	117	82.5	43	16	1.6	4-19	241	125
	1	25	203	124	89	51	18	1.6	4-19	283	160
	1 1/4	32	216	133	98.5	63	19	1.6	4-19	320	200
	1 1/2	40	229	156	114.5	73	21	1.6	4-22	322	200
	2	50	267	165	127	92	23	1.6	8-19	399	200
	2 1/2	65	292	190.5	149	105	26	1.6	8-22	438	250
	3	80	318	210	168.5	127	29	1.6	8-22	464	280
	4	100	356	254	200	157	32	1.6	8-22	565	355
	5	125	400	279	235	186	35	1.6	8-22	614	400
	6	150	444	318	270	216	37	1.6	12-22	717	450
	8	200	559	381	330	270	42	1.6	12-25	930	500
	10	250	622	444.5	387.5	324	47.7	1.6	16-29	1012	450
	12	300	711	520.7	451	381	50.8	1.6	13-32	1231	500
600Lb	2	50	292	165	127	92	26	6.4	8-19	430	250
	2 1/2	65	330	190	149	105	29	6.4	8-22	480	300
	3	80	356	210	168	127	32	6.4	8-22	530	350
	4	100	432	273	216	157	38	6.4	8-25	650	400
	5	125	508	330	266.5	186	45	6.4	8-29	750	450
	6	150	559	356	292	216	48	6.4	12-29	850	560
	8	200	660	419	349	270	56	6.4	12-32	1050	640



## 概述 Overview

低温阀门主要在制冷、液化天然气、化工、石油等 $-46^{\circ}\text{C}\sim-196^{\circ}\text{C}$ 的低温工程中使用。因其处于低温或超低温环境中,故低温阀门具有独特的外形和内部结构,选材严格。

Low temperature valve is mainly used in low temperature projects of  $-46^{\circ}\text{C} \sim -196^{\circ}\text{C}$  in such sectors including refrigeration, liquefied natural gas, chemical industry, petroleum, etc. Since it always work in low temperature or ultra-low temperature environment, low temperature valve has unique appearance and internal structure and the material is well chosen.

1、阀门主体零部件在低温环境下,要保持良好的冲击韧性,不脆裂;并具有良好的磨性,耐擦伤和耐腐蚀性,保证不会因温度变化而产生永久性变形。

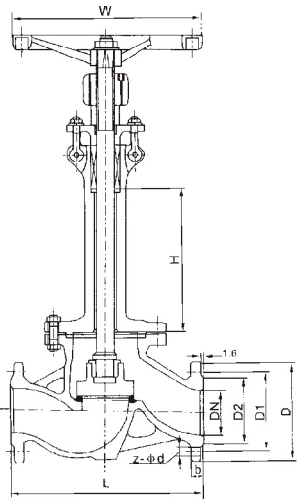
The key parts and components should maintain favorable impact tenacity without frost crack under low temperature and should have favorable wear resistance, scratch resistance and corrosive protection. They should refrain from permanent deformation resulting from temperature fluctuations.

2、阀杆要镀硬铬或表面氮化处理，以防擦伤；同时要求螺钉螺母不会在低温下咬死，填料在低温下要有良好的自润滑性。

The stem should be hard-chrome plated or subject to surface nitrogen treatment.. Meanwhile, the screws and nuts should not seize under low temperature and the filling must have favorable self-lubricating performance under low temperature.

3、低温阀颈长的阀盖脖颈促使填料函远离低温介质，保证其工作环境温度在0℃以上，从而保证阀杆在上下运动时不被擦伤。

The thin, long cap sleeve of low temperature valve keeps filling away from low temperature medium, ensuring the work environment temperature above 0°. This will ensure zero scratch of stem during upward and downward movement.



### 主要零件材料及性能 Key parts material and performance

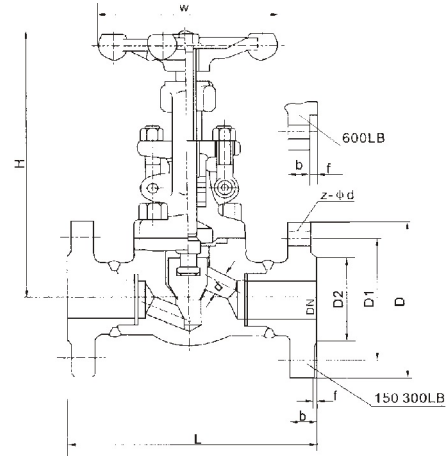
体、盖、瓣 Valve body, Cap, Flap	阀杆 Stem	密封面 Sealing face	垫片(环) Cushion (ring)	填料 Filling	工作温度℃ Operating temperature (°C)	适用介质 Applicable medium
LCB	420	STL/STL	1Cr13/flexible graphite 1Cr13(柔性石墨) 低温石棉 Low temperature asbestos	Flexible graphite 柔性石墨 PTFE 浸聚四氟乙烯石棉绳 Teflon-immersed asbestos rope	-46	丙烷 Propane
LC1	431				-60	丙烯 Methanol
LC2					-73	甲醇 Ethane
LC3					-101	乙炔 Coal gas
LC4	321				-115	煤气
CF8					-196	液氨 Liquid ammonia

### 主要连接尺寸 Key connection dimension

压力级 Class	公称通径(DN)		凸面法兰(RF)主要连接尺寸    Key connection dimension of convex flange (RF)									
	in	mm	L	D	D1	D2	b	Z- φd	W	H		
										-46℃	-101℃	-196℃
150Lb	1 1/2	40	165	127	98.5	73	18	4-16	160	110	130	160
	2	50	203	152	120.5	92	20	4-19	200	110	130	160
	2 1/2	65	216	178	139.5	105	23	4-19	200	110	130	170
	3	80	241	190	152.5	127	24	4-19	250	120	150	190
	4	100	292	229	190.5	157	24	8-19	300	120	150	200
	5	125	356	254	216	186	24	8-22	350	130	160	220
	6	150	406	279	241.5	216	26	8-22	350	140	170	220
	8	200	495	243	298.5	270	29	8-22	450	140	170	220
	10	250	622	406	362	324	31	12-25	450	140	170	220
	12	300	698	483	432	381	32	12-25	500	150	180	240
	14	350	787	533	476	416	35	12-29	600	150	180	240
	16	400	914	597	540	470	37	16-29	700	160	190	250
	300Lb	1 1/2	40	229	156	114.5	73	21	4-22	200	160	190
2		50	267	165	127	92	23	8-19	200	110	130	160
2 1/2		65	292	190	149	105	26	8-22	250	110	130	170
3		80	318	210	168.5	127	29	8-22	300	120	150	190
4		100	356	254	200	157	32	8-22	350	120	150	190
6		150	444	318	270	216	37	12-22	450	130	160	200
8		200	559	381	330	270	42	12-25	500	140	170	220
10		250	622	445	387.5	324	48	16-29	600	140	170	220
12		300	711	521	451	381	51	16-32	850	140	170	220

# ANSI/API锻钢截止阀

ANSI / API Forged-steel globe valve



### 主要连接尺寸 Key connection dimension

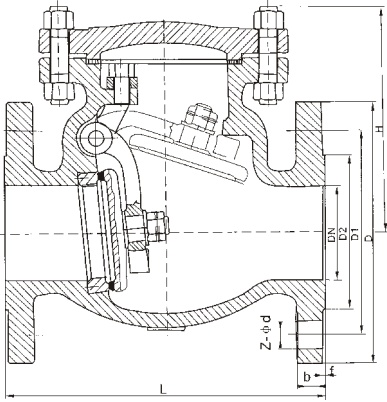
**J41H ( Y、 W ) -150、 300、 600Lb**

公称通径(DN)		凸面法兰(RF)主要连接尺寸 Key connection dimension of convex flange (RF)								
in	mm	L	D	D1	D2	b	f	Z-φd	H	W
150Lb										
1/2	10	108	89	60.5	35	11.5	1.6	4-16	176	100
3/4	13	117	98	70.0	43	13	1.6	4-16	176	100
1	17	127	108	79.5	51	14.5	1.6	4-16	212	125
1 1/4	23	140	117	89.0	63.5	16	1.6	4-16	230	160
1 1/2	30	165	127	98.5	73	17.5	1.6	4-16	254	160
2	37	203	152	120.5	92	19.5	1.6	4-19	294	180
300Lb										
1/2	10	152	95	66.5	35	15	1.6	4-16	176	100
3/4	13	178	117	82.5	43	16	1.6	4-19	176	100
1	17	203	124	89	51	18	1.6	4-19	212	125
1 1/4	23	216	133	98.5	63.5	19	1.6	4-19	230	160
1 1/2	30	229	156	114.5	73	21	1.6	4-22	254	160
2	37	267	165	127	92	23	1.6	8-19	294	180
600Lb										
1/2	12	165	95	66.5	35	15	6.4	4-16	176	100
3/4	13	190	117.5	82.5	43	16	6.4	4-19	176	100
1	17	216	124	89	51	18	6.4	4-19	212	125
1 1/4	23	229	133	98.5	63.5	21	6.4	4-19	230	160
1 1/2	30	241	156	114.5	73	23	6.4	4-22	254	160
2	37	292	165	127	92	26	6.4	8-19	294	180









主要外形尺寸及连接尺寸 Key external dimensions and connection dimensions

H44H ( Y、W )

磅级 Class	公称通径 DN		凸面法兰(RF)主要连接尺寸 Key connection dimension of convex flange (RF)						H44外形尺寸	
	in	mm	L	D	D1	D2	b	f	Z-φd	H
150Lb	2	50	203	152	120.5	92	20	1.6	4-19	165
	2 1/2	65	216	178	139.5	105	23		4-19	175
	3	80	241	190	152.5	127	24		4-19	190
	4	100	292	229	190.5	157	24		8-19	215
	5	125	356	254	216	186	24		8-22	245
	6	150	406	279	241.5	216	25.5		8-22	265
	8	200	495	343	298.5	270	29		8-22	320
	10	250	622	406	362	324	30.5		12-25	365
	12	300	698	483	432	381	32		12-25	415
	14	350	787	533	476	413	35		12-29	460
	16	400	914	597	540	470	37		16-29	495
	20	450	978	697	635	584	43		20-32	590
	24	600	1295	813	749.5	692	48		20-35	650
	28	700	1448	927	863.5	800	71.5		28-35	
300Lb	2	50	267	165	127	92	22.5		8-19	190
	2 1/2	65	292	190	149	105	25.5		8-22	205
	3	80	318	210	168	127	28.5		8-22	220
	4	100	356	254	200	157	32		8-22	245
	5	125	400	279	235	186	35		8-22	275
	6	150	444.5	318	270	216	36.5		12-22	295
	8	200	559	381	330	270	41.5		12-25	330
	10	250	622	444.5	387.5	324	48		16-29	420
	12	300	711	521	451	381	51		16-32	480
	14	350	838	584	514.5	413	54		20-32	535
	16	400	864	648	571.5	470	57.5		20-35	585
	20	500	1016	778	686	584.5	63.5		24-35	685
	24	600	1364	914.5	813	692.5	70		24-41	785

注：如法兰密封面采用凸面以外的型式，请在订货时注明。  
Note: Please specify in your purchase order if flange sealing face uses types other than convex.

主要外形尺寸及连接尺寸 Key external dimensions and connection dimensions

H44H ( Y、W )

磅级 Class	公称通径 DN		凸面法兰(RF)主要连接尺寸 Key connection dimension of convex flange (RF)						H44外形尺寸	
	in	mm	L	D	D1	D2	b	f	Z-φd	H
600Lb	2	50	292	165	127	92	26	6.4	8-19	210
	2 1/2	65	330	190	149	105	29		8-22	230
	3	80	356	210	168	127	32		8-22	255
	4	100	432	273	216	157	38		8-25	295
	5	125	508	330	266.5	186	45		8-29	310
	6	150	559	355.5	292	216	47.5		12-29	365
	8	200	660	419.5	349	270	56		12-32	420
	10	250	787	508	432	324	63.57		16-35	505
	12	300	838	559	489	381	66.5		20-35	545
	14	350	889	603.5	527	413	70		20-38	600
	16	400	991	686	603	470	76.5		20-41	650

主要外形尺寸及连接尺寸 Key external dimensions and connection dimensions

JIS-H44H ( Y、W ) -10K、20K

10K										
公称通径DN			主要尺寸(mm)							
mm	in	d	L	D	D1	D2	b	f	H	Z-φd
40	1 1/2	38	165	140	105	85	16	2	145	4-φ19
50	2	51	203	155	120	100	16	2	165	4-φ19
65	2 1/2	64	216	175	140	120	18	2	175	4-φ19
80	3	76	241	185	150	130	18	2	185	8-φ19
100	4	102	292	210	175	155	18	2	215	8-φ19
125	5	127	330	250	210	185	20	2	240	8-φ23
150	6	154	356	280	240	215	22	2	325	8-φ23
200	8	203	495	330	290	265	22	2	383	12-φ23
250	10	254	622	400	355	325	24	2	430	12-φ25
300	12	305	698	445	400	370	24	2	490	16-φ25
20K										
40	1 1/2	38	241	140	105	85	22	2	155	4-φ19
50	2	51	267	155	120	100	22	2	185	8-φ19
65	2 1/2	54	292	175	140	120	24	2	200	8-φ19
80	3	76	318	200	160	135	26	2	220	8-φ23
100	4	102	356	225	185	160	28	2	240	8-φ23
125	5	127	400	270	225	195	30	2	270	8-φ25
150	6	152	444	305	261	230	32	2	346	12-φ25
200	8	203	533	350	305	275	34	2	412	12-φ25
250	10	254	622	430	380	345	38	2	440	12-φ27
300	12	305	711	480	430	395	40	3	530	16-φ27

注：如法兰密封面采用凸面以外的型式，请在订货时注明。  
Note: Please specify in your purchase order if flange sealing face uses types other than convex.



**球阀特点:** Characteristics of ball valve:

- 1、产品的设计制造符合美国国家标准ANSI B16.34,英国国家标准BS1873等国外先进标准要求。

The product design and manufacturing meet the U.S. national standard ANSIB16.34, U.K. national standard BS1873 and other leading overseas standards.

- 2、所有阀类中流体阻力最小。

The valve has the lowest fluid resistance among like valve products.

- 3、开闭速度快，只旋转90°即可完成开关。

High turning-on/-off speed: turn it on or off by only 90° rotation.

- 4、阀座材料采用于聚四氟乙烯或增强聚四氟乙烯、摩擦系数小、密封可靠、启闭轻松。

Valve seat is made from Teflon or reinforced Teflon with small friction coefficient, reliability of sealing performance and the ease of turning on/off.

- 5、球体在阀座之间的运动带有擦拭作用，故可适用于带悬浮颗粒的介质。

The movement of the ball has wiping effect among valve seats, so the valve is suitable for medium containing suspending particles.

- 6、阀杆带有上密封，并采用倒装式接嘴，可防止在介质压力作用下阀杆冲出

The stem has upper seal and reversely mounted joint that prevents the stem from being ejected under medium pressure effect.

- 7、根据用户需要可设有防静电，耐火和防止误操作的锁定机构。

Lockup mechanism may be provided upon customer requirement against static, fire and mis-operation.

- 8、根据开闭里的需要球体可为浮动球或固定球。固定球球阀其阀座是浮动的，依靠介质压力在阀座上产生的活塞效应实现密封，减轻了开闭力。

The ball could be floating or fixed based on switching requirement. In a fixed ball valve, the valve seat is floating and sealing is achieved based on piston effect of medium pressure onto the seat, thus reducing the opening/closing force.

**采用标准 Applicable standard**

名称Name	球阀 Ball valve
设计标准 Design standard	API6D or API608
结构长度 Structural length	ANSI B16.10、JIS B2002
配管法兰 Piping flange	ANSI B16.5、JIS B2212-2214
对焊端尺寸 Butt-welded end size	ANSI B16.25
检验与实验 Test and experiment	API6D或API598、JIS B2003
传动方式 Driving method	手动、电动、齿轮传动 manual, electric, gear-driving
结构形式 Structural form	固定球阀、浮动球阀 fixed ball, floating ball

## 试压规范 Pressure test norms

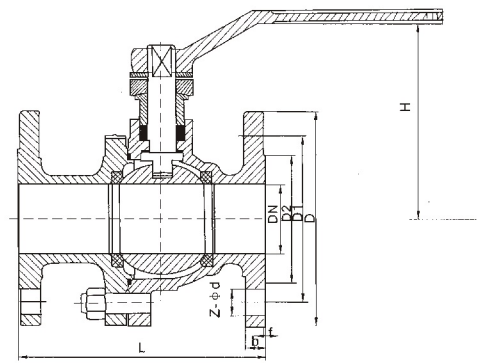
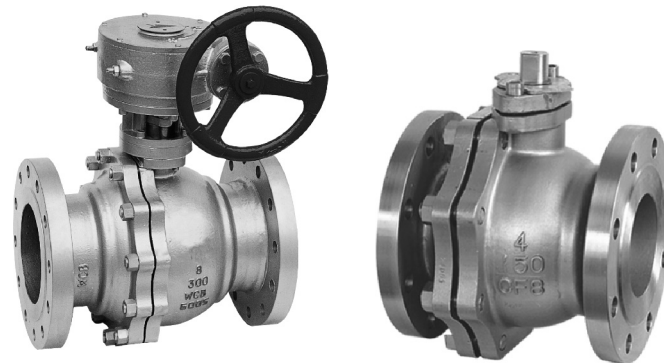
压力等级或公称压力 Pressure rating or nominal pressure	壳体实验 Casing test (MPa)	密封实验(MPa) Sealing test	
		高压液密封 High pressure hydraulic sealing	低压气密封 Low pressure pneumatic sealing
150Lb,PN2.0MPa	2.94	2.16	0.6
300Lb,PN5.0MPa	7.67	5.62	
600Lb,PN10.0MPa	15.3	11.23	
JIS10K	2.1	1.6	
JIS20K	5.1	3.8	

### 主要零件材料及性能规范 Key parts material and performance specification

零件名称 Part name		材 料 Material				
阀体 Valve body 阀盖 Valve cap		ASTMA216 WCB	ASTMA351 CF8	ASTMA351 CF8M	ASTMA351 CF3	ASTMA351 CF3M
阀杆 Stem		1Cr13	0Cr18Ni9	0Cr17Ni 12Mo2	00Cr19Ni11	00Cr17Ni 14Mo2
球体 Ball		F6a	304	316	304L	316L
阀座 Seat		增强聚四氟乙烯 对位聚苯 Reinforced Teflon Para-polyphenyl				
填料 Filling		聚四氟乙烯 对位聚苯 Teflon Para-polyphenyl				
垫片 Cushion		不锈钢带/聚四氟乙烯或柔性石墨缠绕垫 Stainless steel strip/Teflon or flexible graphite wrapped cushion				
弹簧 Spring		304	304	316	304L	316L
上密封 Upper sealing cushion		聚四氟乙烯 对位聚苯 Teflon Para-polyphenyl				
螺栓 Bolt		35CrMo ASTMA193 B7	0Cr18Ni9 ASTMA193 B8			
螺母 Nut		45 ASTMA194 2H	0Cr18Ni9 ASTMA194 B8			
适用 工况 Applicable work condition	使用介质 Applicable medium	水、蒸汽、油品等 Water, steam, petroleum product, etc.	硝酸等腐蚀介质 Corrosive medium such as nitric acid	醋酸等腐蚀介质 Corrosive medium such as acetic acid	强氧化性介质 Strong oxidizing medium	尿素等腐蚀性介质 Corrosive medium such as urea
	使用温度(℃) Service temperature	-29~200 (增强聚四氟乙烯)			-29~300 (对位聚苯)	

注：如法兰密封面采用凸面以外的型式，请在订货时注明。

Note: Please specify in your purchase order if flange sealing face uses types other than convex.



### 主要外形尺寸及连接尺寸 Key external dimensions and connection dimensions

磅级 Class	公称通径(DN) Nominal through diameter		主要连接尺寸 Key connection dimension							Q41外形尺寸 External dimension	
	in	mm	L	D	D1	D2	b	f	Z-φd	H	
150Lb	1/2	15	108	89	60.5	35	12	1.6	4-16	59	
	3/4	20	117	98	70	43	13		4-16	63	
	1	25	127	108	79.5	51	15		4-16	75	
	1 1/2	40	165	127	98.5	73	18		4-16	95	
	2	50	178	152	120.5	92	20		4-19	107	
	2 1/2	65	190	178	139.5	105	23		4-19	142	
	3	80	203	190	152.5	127	24		4-19	152	
	4	100	229	229	190.5	157	24		8-19	178	
	5	125	256	254	216	186	24		8-22	252	
	6	150	394	279	241.5	216	26		8-22	272	
	8	20	457	343	298.5	270	29		8-22	342	
	10	250	533	406	362	324	31		12-25	495	
	12	300	610	483	432	381	32		12-25	580	
	14	350	686	533	476	413	35		12-29	625	
	16	400	762	597	540	470	37		16-29	720	
	20	500	914	698	635	584	43		20-32	840	
	24	600	1067	813	749.5	692	48		20-35	1050	
	28	700	1245	927	863.5	800	71.5		28-35	1150	
300Lb	1/2	15	140	95	66.5	35	14.5	1.6	4-16	59	
	3/4	20	152	117	82.5	43	16		4-19	632	
	1	25	165	124	89	51	18		4-19	75	
	1 1/2	40	190	156	114.5	73	21		4-22	95	
	2	50	216	165	127	92	22.5		8-19	107	
	2 1/2	65	241	190	149	105	25.5		8-22	142	
	3	80	283	210	168	127	28.5		8-22	152	
	4	100	305	254	200	157	32		8-22	178	
	5	125	381	279	235	186	35		8-22	252	
	6	150	403	318	270	216	36.5		12-22	272	
	8	200	502	381	330	270	41.5		12-25	342	
	10	250	568	444.5	387.5	324	48		16-29	495	
	12	300	648	521	451	381	51		16-32	580	
	14	350	762	584	514.5	413	54		20-32	625	
	16	400	838	648	571.5	470	57.5		20-35	720	
	20	500	991	775	686	584.5	63.5		24-35	840	

注：如法兰密封面采用凸面以外的型式，请在订货时注明。

Note: Please specify in your purchase order if flange sealing face uses types other than convex.



### 主要外形尺寸及连接尺寸 Key external dimensions and connection dimensions

磅级 Class	公称通径(DN) Nominal through diameter		主要连接尺寸 Key connection dimension							Q41外形尺寸 External dimension
	in	mm	L	D	D1	D2	b	f	Z-φd	H
600Lb	1/2	15	165	95	66.5	35	14.5	6.4	4-16	59
	3/4	20	190	117	82.5	43	16		4-19	63
	1	25	216	124	89	51	17.5		4-19	75
	1 1/2	40	241	156	114.5	72	23		4-22	95
	2	50	292	165	127	92	26		8-19	107
	2 1/2	65	330	190	149	105	29		8-22	150
	3	80	356	210	168	127	32		8-22	160
	4	100	432	273	216	157	38		8-25	178
	5	125	508	330	266.5	186	45		8-28	265
	6	150	559	356	292	216	47.5		12-39	300
	8	200	660	419	349	270	56		12-32	374
	10	250	787	508	432	324	63.5		16-35	445
12	300	838	559	489	381	66.5	20-35	515		

**JIS-主要外形尺寸及连接尺寸 JIS-Key external dimensions and connection dimensions**

公称通径(DN) Nominal through diameter		标准值 Normal value											参考值 Reference value							
		L		d1		LJ*		D	D1	D2	b	f	Z-φd	H1	H2	H3	H4	重量(Kg)		
mm	缩径 Reducing diameter	全通径 Full through diameter	缩径 Reducing diameter	全通径 Full through diameter	缩径 Reducing diameter	全通径 Full through diameter	Q47											Q347	Q647	Q947
10K																				
100	229	-	100	-	-	-	210	175	155	18	2	8-φ19	179	-	416	470	33	-	78	85
125	356	254	125	100	-	-	250	210	185	20	2	8-φ23	252	-	542	520	58	-	107	117
150	394	267	150	125	-	-	280	240	215	22	2	8-φ23	272	305	572	539	93	117	145	180
200	457	292	200	150	-	-	330	290	265	22	2	12-φ23	342	398	736	580	160	185	220	246
250	533	330	250	200	-	-	400	355	325	24	2	12-φ25	-	495	890	637	-	245	280	300
300	610	356	300	250	-	-	445	400	370	24	3	16-φ25	-	580	910	684	-	395	450	444
350	686	381	350	300	-	-	490	445	415	26	3	16-φ25	-	625	1020	796	-	516	570	586
400	762	406	400	350	-	-	560	510	475	28	3	16-φ27	-	720	1080	842	-	756	920	860
450	864	432	450	350	-	-	620	565	530	30	3	20-φ27	-	770	1120	874	-	958	1140	1070
500	914	457	500	400	-	-	675	620	585	30	3	20-φ27	-	840	1150	904	-	1200	1360	1315
20K																				
100	305	-	100	-	-	-	225	185	160	24	2	8-φ23	178	-	479	480	60	-	85	105
125	381	384	125	100	-	-	270	225	195	26	2	8-φ25	252	-	646	542	95	-	110	125
150	403	403	150	12	-	-	305	260	230	28	2	12-φ25	272	305	666	568	110	138	148	190
200	502	419	200	150	-	-	350	305	275	30	2	12-φ25	-	398	814	594	-	230	245	268
250	568	457	250	200	-	-	430	380	345	34	2	12-φ27	-	495	890	638	-	390	480	505
300	648	502	300	250	-	-	480	430	395	36	3	16-φ27	-	580	910	737	-	560	775	680
350	762	572	350	300	-	-	540	480	440	40	3	16-φ33	-	625	1020	816	-	770	860	1010
400	838	610	400	350	-	-	605	540	495	46	3	16-φ33	-	720	1080	850	-	920	940	1120
450	914	660	450	350	-	-	675	605	560	48	3	20-φ33	-	760	1120	885	-	1150	1230	1630
500	991	711	500	400	-	-	730	660	615	50	3	20-φ33	-	840	1150	944	-	1560	1560	1880

注:1、缩径球阀重量约为全通径球阀重量的70-80%; 2、LJ\*为环连接面法兰球阀的结构长度。

Note: 1. The weight of reducing diameter ball valve is about 70~80% of full through diameter ball valve. 2. LJ represents structural length of the flange ball valve with ring connecting face.

## 换代型对焊式楔式闸阀

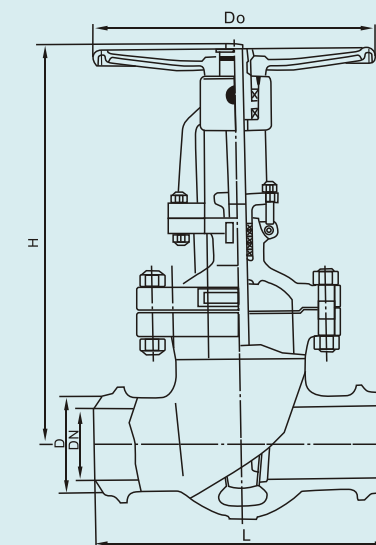
## New-generation butt-weld wedge gate valve

### 主要性能规范Chief property and specification

压 力 Pressure (Mpa)	试 验 压 力 (Mpa)		壳体材料Shell material							
	强 度 Strength	密 封 Seal	代 号 Symbol	C	P		R		V ( I )	
1.6	2.4	1.76	材 料 Material	25或WCB	CF8 304	CF3 304L	CF8M 316	CF3M 316L	WC 6	WC9
2.5	3.8	2.75								
4.0	6.0	4.4	工作温度 Working temperature	≤425℃	≤200℃		≤200℃		≤550℃	≤590℃
6.4	9.60	7.1								
10.0	15.0	11.0	适用介质 Applicable medium	水、汽、油品等 Water,Steam Oil goods	硝酸等腐蚀 性介质 Nitric acid	强氧化性介质 Strong oxidization introduction	醋酸等 Acetic acid	尿素等 Carbamide	水汽、油品等 water,Steam Oil goods	

Z61H系列闸阀是我公司在广泛调研基础上，应广大用户要求独立开发而成的具有独立知识产权产品。可广泛替代原Z41H系列闸阀。具有启闭迅速、密封可靠、寿命长、重量轻、铸造工艺性好以及安装不需要法兰、管件、垫片，并减少两个泄露点等一系列优点，可最大限度地满足各类用户的节能降耗、降本增盈及环保要求。

Z61H series gate valve is a product of independent intellectual property right as the company designs based on extensive research and investigation based on customers' requirement. It can substitute traditional Z41H series gate valve, characteristic of rapid startup/shutdown, reliability of sealing performance, long service life, limited weight, fine casting process, etc. Its installation needs no flange, pipe fittings and cushion and has favorably reduced two leak points. The product could maximize customer satisfaction about energy conservation and consumption reduction, cost reduction, higher return and environmental protection.



**PN1.6, 2.5MPa**

DN	D	L	H	D0
50	76	250	355	240
65	89	265	378	240
80	110	280	430	280
100	129	300	500	320
125	153	325	580	360
150	189	350	650	360
200	245	400	736	40
250	285	450	818	400
300	350	500	1080	450
350	410	550	1197	500
400	460	600	1332	600
500	570	700	1500	

**PN4.0MPa**

DN	D	L	H	D0
50	79	250	270	280
65	90	280	398	280
80	110	310	456	320
100	135	350	552	360
125	164	400	709	400
150	190	450	709	400
200	248	550	838	400
250	290	650	957	450
300	350	750	1118	500
350	410	850	1567	500
400	460	950	1778	500
500	570	1150	2050	500

**PN6.4,10.0MPa**

DN	D	L	H	D0
50	79	250	37	280
65	90	280	398	280
80	110	310	456	320
100	138	350	552	360
150	195	450	709	400
150	195	450	709	400
200	260	550	858	450
250	13	650	1015	560
300	364	750	1330	600
350	422	850	1589	600
400	474	950	1778	600
500	576	1150	2050	600

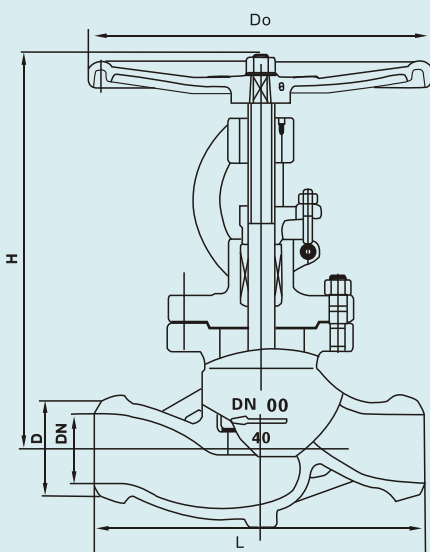


### 主要性能规范Chief property and specification

压力 Pressure (Mpa)	试验压力 (Mpa)		壳体材料Shell material							
	强度 Strength	密封 Seal	代号 Symbol	C	P		R		V (I)	
1.6	2.4	1.76	材料 Material	25或WCB	CF8 304	CF3 304L	CF8M 316	CF3M 316L	WC6	WC9
2.5	3.8	2.75								
4.0	6.0	4.4	工作温度 Working temperature	≤425 C	≤200℃		≤200℃		≤550℃	≤590℃
6.4	9.60	7.1								
10.0	15.0	11.0	适用介质 Applicable medium	水、汽、油品等 Water,Steam Oil goods	硝酸等腐 蚀性介质 Nitric acid	强氧化性介质 Strong oxidization introduction	醋酸等 Acetic acid	尿素等 Carbamide	水汽、油品等 water,Steam, Oil goods	

J61H系列截止阀是我公司在广泛调研基础上，应广大用户要求独立开发而成的具有独立知识产权产品。可广泛替代原Z41H系列截止阀。具有启闭迅捷、密封可靠、寿命长、重量轻、铸造工艺性好以及安装不需要法兰、管件、垫片，并减少两个泄露点等一系列优点，可最大限度地满足各类用户的节能降耗、降本增盈及环保要求。

Z61H series cut-off valve is a product of independent intellectual property right as the company designs based on extensive research and investigation based on customers' requirement. It can substitute traditional Z41H series cut-off valve, characteristic of rapid startup/shutdown, reliability of sealing performance, long service life, limited weight, fine casting process, etc. Its installation needs no flange, pipe fittings and cushion and has favorably reduced two leak points. The product could maximize customer satisfaction about energy conservation and consumption reduction, cost reduction, higher return and environmental protection.



**PN1.6, 2.5MPa**

DN	D	L	H	D0
15	25	130	236	120
20	29	150	242	120
25	32	160	280	160
32	45	180	290	160
40	60	200	330	200
50	78	230	350	240
65	90	290	400	280
80	110	310	430	320
100	136	350	465	360
120	164	400	526	400
150	190	480	605	400

**PN4.0MPa**

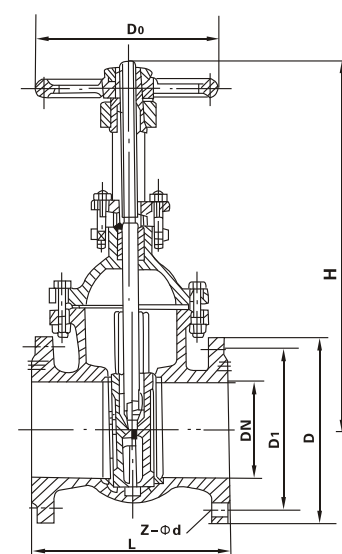
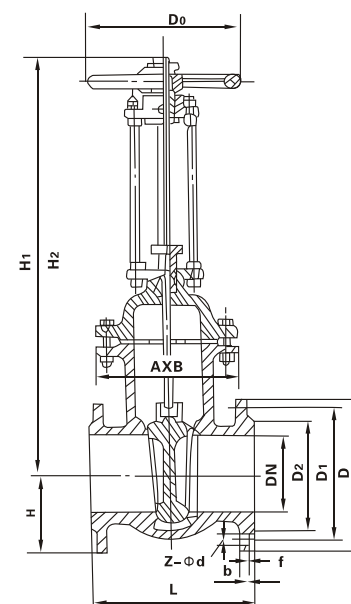
DN	D	L	H	D0
15	25	130	236	120
20	29	150	242	120
25	36	160	281	120
32	46	180	290	160
40	65	200	330	200
50	79	230	350	240
65	90	290	400	280
80	110	310	430	320
100	135	350	465	360
125	164	400	26	400
150	190	480	620	450

**PN6.4,10.0MPa**

DN	D	L	H	D0
15	29	170	195	100
20	32	190	228	120
25	38	210	250	160
32	48	230	326	200
40	70	260	359	240
50	79	300	418	280
65	90	340	448	320
80	110	380	519	400
100	138	430	630	450
125	168	500	660	480
150	195	550	683	500

## 低压闸阀

Low pressure gate valve



### 主要性能规范 Chief property and specification

工作温度 Working temperature(℃)		≤200
阀体材料 Body materials	灰铸铁 Grayly cast-iron	
适用介质 Applicable medium	Z41T-10型：水、蒸汽；Z41W-10型：油品 Z41T-10: Water,steam;Z41W-10: oil goods	

### 主要尺寸和重量 Main dimensions and weight

公称通径 DN(mm)	50	65	80	100	125	150	200	250	300	350	400	450
L	178	190	203	229	254	267	292	330	356	381	406	423
D	165	185	200	220	250	285	340	395	445	505	565	615
D1	125	145	160	180	210	240	295	350	400	460	515	565
D2	102	122	133	158	184	212	268	320	370	430	482	532
b	20	20	22	24	26	26	28	28	28	30	32	32
f	3	3	3	3	3	3	3	3	4	4	4	4
Z-d	4-17.5	4-17.5	8-17.5	8-17.5	8-17.5	8-22	8-22	12-22	12-22	16-22	16-26	20-2
A×B	180×156	196×166	218×178	240×190	272×212	320×243	380×265	440×295	510×322	580×338	636×364	706×3
H1	297	326	380	435	638	592	780	913	1060	1186	1348	1481
H2	363	400	470	546	768	760	1000	1188	1380	1560	1783	1956
H	82.5	92.5	100	110	125	142.5	170	197.5	222.5	252.5	287	307.
D0	180	180	200	200	240	240	320	320	400	400	500	500
重量(kg)	20	26	35	45	60	85	125	180	240	360	400	590

### Z44T-10型平行式双闸板低压闸阀

**Z44T-10 parallel double-gate plate low pressure gate valve**

### 主要性能规范 Chief property and specification

工作温度 Working temperature(℃)	≤200
阀体材料 Body materials	灰铸铁 Grayly cast-iron
适用介质 Applicabl medium	水、蒸汽：油品 Water, steam, oil goods

### 主要尺寸和重量 Main dimensions and weight

公称通径 Nominal diameter DN(mm)	尺寸 Dimensions (mm)						重 量 Weight(kg)
	L	D	D1	Z-Φd	H	D0	
50	180	160	125	4-18	268	180	15
65	195	180	145	4-18	305	180	22
80	210	195	160	4-18	345	200	28
100	230	215	180	8-18	395	200	35
125	255	245	210	8-18	478	240	62
150	267	285	240	8-23	555	240	66.5
200	330	335	295	8-23	716	320	103
250	380	390	350	12-23	850	320	195
300	420	440	400	12-23	980	400	245

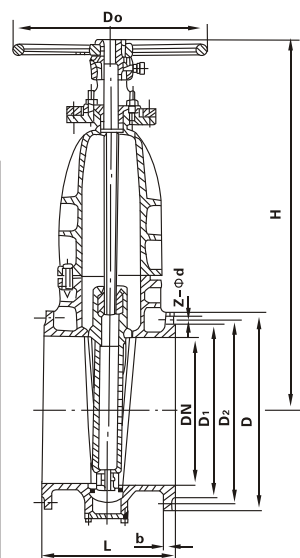


### 主要性能规范 Chief property and specification

工作温度 Working temperature(℃)	≤200
阀体材料 Body materials	灰铸铁 Grayly cast-iron
适用介质 Applicabel medium	Z45T-10型：水、蒸汽；Z45W-10型：油品、煤气 Z45T-10: Water,steam;Z45W-10: oil goods, Coal gas

### 主要尺寸和重量 Main dimensions and weight

公称 通径 DN(mm)	尺寸 Dimensions (mm)								重 量 Weight(kg)
	L	D	D1	D2	b	Z- Φd	H	D0	
50	178	165	125	102	20	4-17.5	345	180	17
65	190	185	145	122	20	4-17.5	376	180	20
80	203	200	160	133	22	8-17.5	417	200	27
100	229	220	180	158	24	8-17.5	460	200	50
125	254	250	210	184	26	8-17.5	525	240	70
150	267	285	240	212	26	8-22	567	240	95
200	292	340	295	268	28	8-22	705	320	150
250	330	395	350	320	28	12-22	800	320	200
300	356	445	400	370	28	12-22	930	400	280
350	450	500	460	428	30	16-23	974	400	360
400	480	565	515	482	32	16-25	1074	500	411
450	510	615	565	532	32	20-25	1182	500	590
500	540	670	620	585	34	20-25	1273	640	698
600	600	780	725	685	36	20-30	1514	640	948



**锥齿轮传动暗杆楔式低压闸阀 Z545T-6, Z545W-6 Z545T-10, Z545W-10 型**

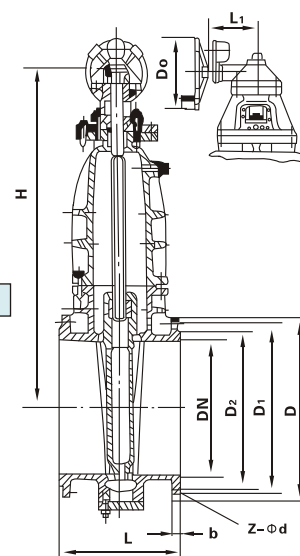
Z44T-10 parallel double-gate plate low pressure gate valve Z545T-6, Z545W-6 Z545T-10 Z545W-10

### 主要性能规范 Chief property and specification

工作温度 Working temperature(℃)	≤200
阀体材料 Body materials	灰铸铁 Grayly cast-iron
适用介质 Applicabel medium	水、蒸汽；油品 Water, steam, oil goods

### 主要尺寸和重量 Main dimensions and weight

公称口径 Nominal diameter DN(mm)	尺寸 Dimensions (mm)									重量 (kg)	
	L	D	D1	D2	b	Z-Φd	H	l <sub>1</sub>	D <sub>0</sub>		
PN0.6MPa(6bar)											
	1200	960	1400	1340	1295	40	32-34	2754	225	500	6500
	1400	1080	1620	1560	1510	44	36-34	3069	225	500	8000
PN1.0MPa(10bar)											
	500	540	670	620	585	34	20-25	1262	170	305	780
	600	600	780	725	685	36	20-30	1537	170	305	960
	700	660	895	840	800	40	24-30	1857	170	305	1900
	800	720	1010	950	905	44	24-34	2041	170	305	2200
	900	780	1110	1050	1005	46	28-34	2305	170	305	3000
	1000	840	1220	1160	1115	50	28-34	2445	170	305	3600

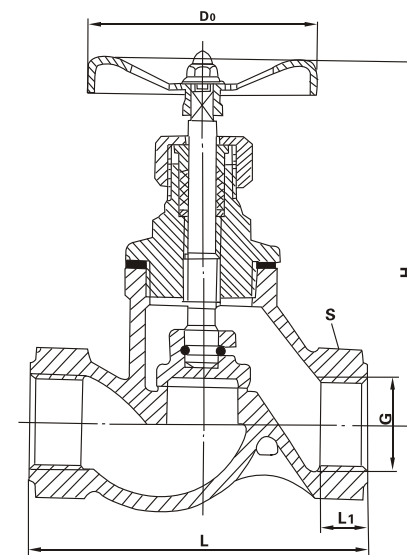


## 内螺纹截止阀

Female cut-off valve

### 主要零件材料 Material for main parts

零件名称 Part name	材料 Material
阀体、阀盖、阀瓣 Body, bonnet, Disc	灰铸铁 Grayly cast-iron
密封圈 Seal ring	黄铜、不锈钢 Brass stealers steel
阀杆 Stem	碳钢 Carbon steel
填料 Packing	油浸石棉盘根、石墨 Asbestos coil, Graphite
垫片 Seat	橡胶石棉板 Rubber assbestosplate



### 主要性能规范 Chief property and specification

型号 Type		公称压力 PN ( MPa ) Nominalpressure	试 验 压 力 Ps(MPa)Testpressure		工作压力 P ( MPa ) Workingpressure	工作温度 (℃) Workingtemperature	适用介质 Applicabel medium
			壳体Shell	密封Seal			
J11H-16 J11W16	1. 6	2. 4	1. 76	1. 6	≤200	水、蒸汽、油品 Water,steam,oil good	
J11T-16	1. 6	2. 4	1. 76	1. 6	≤200	水、蒸汽 Water,steam,	

### 主要尺寸及重量

公称通径DN ( mm ) Nominal diameter	管 螺 纹 G"	尺寸 dimensions (mm)					重量 ( kg ) Weight
		L	L1	S	H	D0	
15	1/2	90	14	32	117	55	0.9
20	3/4	100	16	36	142	80	1.8
25	1	120	18	46	142	80	1.8
32	1 1/4	140	20	55	168	100	2.5
40	1 1/2	170	22	65	182	100	3.7
50	2	200	24	80	200	120	5.5
65	2 1/2	260	26	95	223	146	9.3

公称通径DN ( mm ) Nominal diameter	管 螺 纹 G"	尺寸 dimensions (mm)					重量 ( kg ) Weight
		L	L1	S	H	D0	
15	1/2	65	12	30	87	60	0.6
20	3/4	75	13	36	94	60	0.8
25	1	90	15	46	107	80	1.1
32	1 1/4	105	16	55	122	90	2.1
40	1 1/2	120	18	62	137	100	2.8
50	2	140	20	75	155	100	4.4



## 应用规范 Ltse specifications

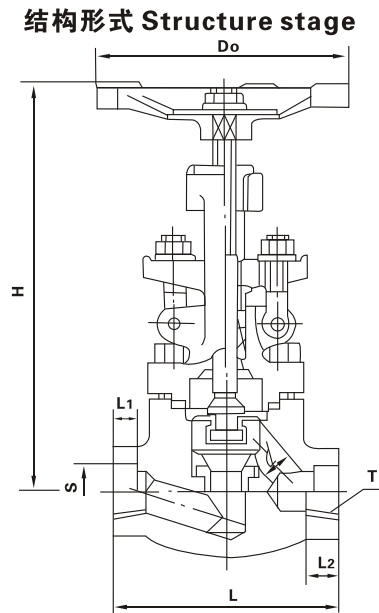
- 1.设计制造 Design  
按GB/T12224、GB/T12228、JB/T7746
2. 连接端尺寸 Connelting botten dimensions  
(1)承插孔尺寸按JB/T1751  
(2)螺纹端尺寸按GB/T7306
3. 阀门检验和试验 Valves inspect and test  
按GB/T13927、JB/T9092
4. 材料: Material:  
(1)碳钢按GB699的规定 Carbon steel as per GB699  
(2)不锈钢按GB1220的规定 Stainless steel as per Gb1220  
(3)耐热钢按GB1221的规定 Refractory steel as per Gb1221

### 主要零件材料 Materials for main parts

主要零件名称 Main Part name	材料 Material
阀体、阀盖 Body,bonnet	碳钢 Carbon steel
阀座 Sea tring	不锈钢 Stainless steel
阀瓣 Disc	不锈钢 Stainless steel
阀杆 Stem	不锈钢 Stainless steel
垫片 Seat	不锈钢+石墨 Stainless steel andgraphite
填料 Packing	柔性石墨 Flexibie grapnite

## 性能规范 Specifications

PN 试验项目 Test item	1.6	2.5	4.0	6.4	10.0	16.0
强度试验PS (Mpa) Sell strength test	2.4	3.8	6.0	9.6	15.0	24.0
密封试验 P (Mpa) Seal test	1.76	2.75	4.4	7.04	11.0	17.6
气密封试验 (Mpa) Leak-proofness test	0.6					
使用温度 Temperature of use	≤450℃					
适用介质 Applicable medium	水、蒸汽、油品 Water,steam、oil、Steam					



### 主要尺寸与重量 Main dimensions and weight

PN 代号	1.6,2.5,4.0Mpa						6 . 4 M P a						1 0 . 0 M P a						1 6 . 0 M p a					
	DN	15	20	25	32	40	50	15	20	25	32	40	50	15	20	25	32	40	50	15	20	25	32	40
L	90	100	120	140	170	200	90	100	120	140	170	210	90	100	120	140	170	210	90	100	120	140	170	210
S	22.5	28.5	34.5	43	49	61	22.5	28.5	34.5	43	49	61	22.5	28.5	34.5	43	49	61	22.5	28.5	34.5	43	49	61
L1	10	11	12	14	15	16	10	11	12	14	15	16	10	11	12	14	15	16	10	11	12	14	15	16
T	1/2	3/4	1	1 1/4	1 1/2	2	1/2	3/4	1	1 1/4	1 1/2	2	1/2	3/4	1	1 1/4	1 1/2	2	1/2	3/4	1	1 1/4	1 1/2	2
L2	15	17	19	21	21	25	15	17	19	21	21	25	15	17	19	21	21	25	15	17	19	21	21	25
d	13	18	23	29	36	46	13	18	23	29	36	46	13	18	23	29	36	46	13	18	23	29	36	46
H	159	190	208	216	247	290	159	190	208	227	258	405	159	190	208	227	258	405	159	190	208	227	258	405
D0	98	112	126	166	188	220	98	112	126	166	188	220	98	112	126	166	188	220	98	112	126	188	220	220
重量(kg)	3	4	5	7	12	18	3	4	5	8	14	20	3	4	5	8	14	20	3	4	5	8	14	20

说明：1. “H” 密封副其密封件材质为不锈钢。“Y” 密封件材质为堆焊钴基硬质合金。

2. 其它填料和垫片材料均可提供、满足用户要求。

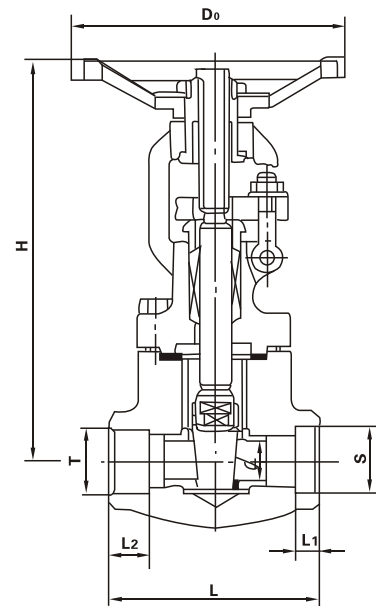
Note: 1. “H” sealing pairs have stainless steel sealing members. “Y” sealing pairs have butt-weld cobalt-based hard alloy sealing members.

2. Other fillings and cushions materials could all be customized.

## 锻钢闸阀

Forged-steel gate valve

### 结构形式 Structure stage



### 主要零件材料 Materials for main parts

主要零件名称 Main Part name	材料 Material
阀体、阀盖 Body,bonnet	碳钢 Carbon steel
阀座 Sea tring	不锈钢 Stainless steel
闸板	不锈钢 Stainless steel
阀杆 Stem	不锈钢 Stainless steel
垫片 Seat	不锈钢+石墨 Stainless steel andgraphite
填料 Packing	柔性石墨 Flexibie grapnite

## 性能规范 Specifications

试验项目 Test item	PN (Mpa)	1.6	2.5	4.0	6.4	10.0	16.0
强度试验PS(Mpa) Sell strength test		2.4	3.8	6.0	9.6	15.0	24.0
密封试验 P (Mpa) Seal test		1.76	2.75	4.4	7.04	11.0	17.6
气密封试验 (Mpa) Leak-proofness test		0.6					
使用温度 Temperature of use		≤450℃					
适用介质 Applicable medium		水、蒸汽、油品 Water,steam, oil					

### 主要尺寸与重量 Main dimensions and weight

PN 代号	1.6,2.5,4.0MPa						6 . 4 M P a						1 0 . 0 M P a						1 6 . 0 M p a					
DN	15	20	25	32	40	50	15	15	25	32	40	50	15	20	25	32	40	50	15	20	25	32	40	50
L	90	100	120	140	135	155	90	100	120	130	150	155	90	100	120	130	150	155	90	100	120	130	150	155
S	22.5	28.5	34.5	43	49	61	22.5	28.5	34.5	43	49	61	22.5	28.5	34.5	43	49	61	22.5	28.5	34.5	43	49	61
L1	10	11	12	14	15	16	10	11	12	14	15	16	10	11	12	14	15	16	10	11	12	14	15	16
T	1/2	3/4	1	1 1/4	1 1/2	2	1/2	3/4	1	1 1/4	1 1/2	2	1/2	3/4	1	1 1/4	1 1/2	2	1/2	3/4	1	1 1/4	1 1/2	2
L2	15	17	19	21	21	25	15	17	19	21	21	25	15	17	19	21	21	25	15	17	19	21	21	25
d	13	18	23	28	36	45	13	18	23	28	36	45	13	18	23	28	36	45	13	18	23	28	36	45
H	151	182	197	201	227	253	151	182	197	212	231	250	151	182	197	212	231	250	151	182	197	212	231	250
D0	118	30	150	166	180	180	118	130	150	180	180	180	118	130	180	180	180	180	118	118	150	180	180	280
重量(Kg)	3	4	5	7	11	17	3	4	5	8	12	18	3	4	8	8	12	18	3	4	5	8	12	18







### 结构特点 Structural characteristics

- 1、带蒸汽或空气保温装置，不受环境湿度影响减少动作频率，延长寿命。  
Auxiliary steam or air insulation device, not affected by ambient humidity;  
reduced action frequency and extended service life.
- 2、备有过滤网和排污阀。  
Filter screen and sewer valve attached.
- 3、该阀动作灵敏可靠，排水量大。  
Sensitivity and reliability of action, large drainage quantity.

### 工作原理 Principle of operation

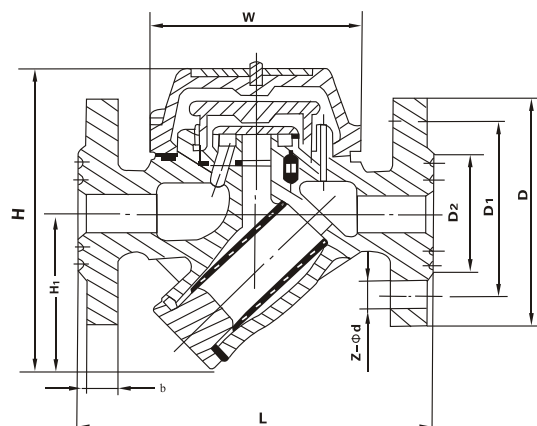
本疏水阀是利用热动力学特性当凝结水排到较低压力区时会发生二次蒸发，并在粘度、密度等方面与蒸汽存在差异驱动启闭件。

The drain valve takes advantage of thermokinetic properties in that condensate water has secondary evaporation when drained to a lower pressure zone. It drives closing members under the difference with steam in terms of viscosity and density.

**主要用途** Main purpose

本阀门适用于蒸汽管路及蒸汽设备上,起到阻止蒸汽泄漏,排除凝结水的作用,从而达到节能和防止水锤现象及其可能引起的故障。

The valve is applicable for steam pipeline and steam consumers to prevent steam leak and exhaust condensate water. Therefore, it can save energy and avoid water hammer and other possible faults.



## 主要性能规范 Chief property and Specifications

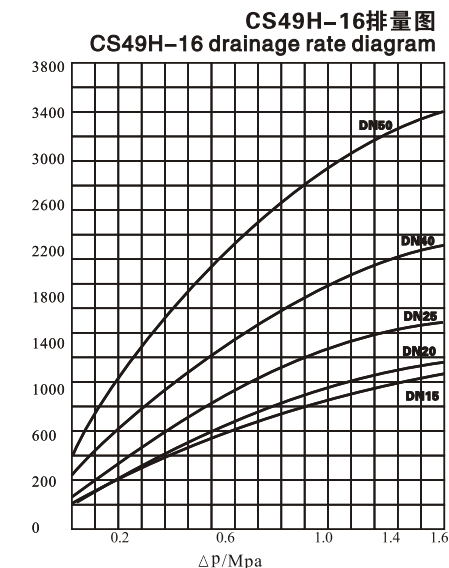
型号 Model	公称压力 PN/Mpa Nominal pressure	壳体试验压 P1/Mpa Casing test pressure	最高工作压力 /Mpa Max. operating pressure	最高工作温度 /℃ Max. operating temperature	最高允许温度 /℃ Max. permissible temperature	适用介质 Applicable medium
CS49H-16 S49H-16	1.6	2.4	1.5	203	200	蒸汽、凝结水
CS49H-16C					425	
CS49 H-25	2.5	3.8	2.5	210	425	
CS49H-40	4.0	6.0	3.8	247	425	

## 排水量 Drainage rate

型号 Model	公称通径 DN/mm Nominal through diameter	工作压差/MPa    Operating differential pressure						
		0.03	0.1	0.3	0.5	0.8	1.2	1.6
		排量/ ( kg/h )    Drainage rate						
CS49H-16	15、20、25	183	253	345	420	510	630	740
	40、50	460	690	1000	1200	1400	1600	1800

## 疏水阀

Drain valve



主要连接尺寸 Key connection dimension

型号	公称通径 DN/mm	尺寸/mm							重量/Kg
		L	H	D	D1	D2	b	Z-Φd	
CS49H-16	15	150	70	95	65	45	16	4-Φ13.5	4
	20	190	70	105	75	58	16	4-Φ13.5	4.2
	25	200	70	115	85	68	16	4-Φ13.5	4.5
	32	230	-	135	100	78	18	4-Φ17.5	6
	40	230	-	145	110	85	18	4-Φ17.5	8
	50	230	-	160	125	100	20	4-Φ17.5	9
	65	270	-	185	145	122	20	4-Φ17.5	13.5
	80	280	-	200	160	133	22	8-Φ17.5	17.5
	100	300	-	215	180	155	24	8-Φ17.5	20

型号	公称通径 DN/mm	尺寸/mm					重量 /Kg
		L	D	D1	H	Z-Φd	
CS49H-16C	15	150	95	65	105	4-Φ14	3
	20	150	105	75	105	4-Φ14	3.2
	25	160	115	85	110	4-Φ14	3.4
	32	230	135	100	110	4-Φ18	5.2
	40	230	150	110	125	4-Φ18	8.3
	50	230	165	125	135	4-Φ18	10.3
CS49H-25	15	150	95	65	105	4-Φ14	
	20	150	105	75	105	4-Φ14	
	25	160	115	85	110	4-Φ14	
	32	230	135	100	115	4-Φ18	
	40	230	150	110	125	4-Φ18	
	50	230	165	125	135	4-Φ18	

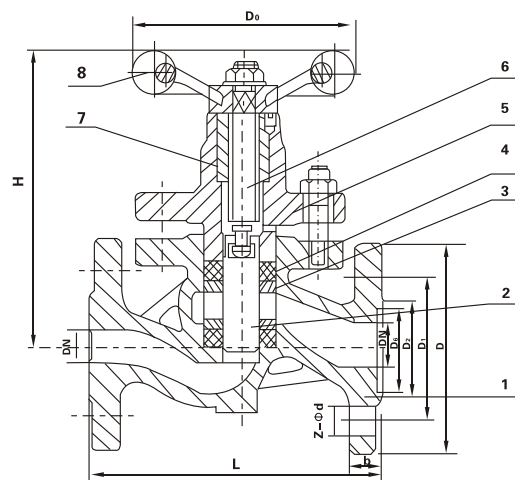
型号	公称通径 DN/mm	尺寸/mm						重量 /Kg
		L	D	D <sub>1</sub>	D <sub>2</sub>	D <sub>6</sub>	Z-Φd	
CS49H-40	15	150	95	65	46	40	4-Φ14	2.7
	20	190	105	75	56	51	4-Φ14	3.2
	25	200	115	85	65	58	4-Φ14	3.7
	40	230	150	110	84	76	4-Φ18	8.5
	50	230	165	125	99	88	4-Φ18	10.5

### 主要零件材料 Key parts material

<p><b>零件名称</b></p> <p>Part name</p>	<p><b>(材料) (material)</b></p> <p>CS49H-16、S49H-16 CS49H-16C、CS49H-25、 CS49H-40</p>
<p><b>阀体、阀盖</b></p> <p>Valvebody, valvecap</p>	<p><b>灰铸铁</b> Gray cast iron <b>碳素铸钢</b> Carbon cast steel</p>
<p><b>阀座、阀片、过滤网</b></p> <p>Valve seat, valve flap, filter screen</p>	<p><b>不锈钢</b></p> <p>Stainless steel</p>



1. 阀体 Valve body
2. 柱塞 Plunger
3. 孔架 Hole stand
4. 石墨密封环 Graphite sealing ring
5. 阀盖 Valve cap
6. 阀杆 Stem
7. 铜螺母 Copper screw
8. 手轮 Hand wheel



### 柱塞阀的阀体材料 Plunger valve body material

铸钢 Cast steel	铸铁 Cast iron	不锈钢 Stainless steel	含钼不锈钢 Molybdenum-bearing stainless steel
WCB	HT200	CF8 ( 304 )	CF8M ( 316 )

### 柱塞阀的密封圈材料 Plunger valve sealing ring material

上密封圈材料 Upper sealing ring material	下密封圈材料 Sealing ring material
四氟乙烯加柔性石墨 (PTFE) Teflon and flexible graphite	四氟乙烯加柔性石墨 (PTFE) Teflon and flexible graphite

### 结构及特点

柱塞阀由阀体、阀盖、阀杆、柱塞、孔架、密环、手轮等零件组成（如图）。当手轮旋转时，通过阀杆带动柱塞在导向套中上、下往复运动，使柱塞端面斜锥面与阀座锥面完成阀门与开启与关闭功能。

在阀门中柱塞与密封环间采用过盈配合,通过调节压盖中法兰螺栓,使密封压缩所产生的侧向力与阀体中孔面及柱塞外圆密封,从而保证了阀门的密封性,杜绝了内泄漏,同时阀门开启短小,能实现阀门的迅速开启和关闭。

由于密封环采用回弹性强，耐磨性高的无毒新型密封材料，具有经受长期高温，高压而不丧失弹性，所以密封性能可靠，经久耐用。

## 安装和维修

本公司生产的柱塞阀出厂前均按JB/T9092进行试验、验收、使用时只需外表及孔腔清洗干净，不必拆洗和更换。

本柱塞阀可在任意位置安装，介质流动方向见阀体上箭头所示。

经过一段时间的使用密封环如有磨损及渗漏必须先将阀门关闭后，再将中法兰螺栓均匀地略加旋紧以对不渗漏即可。同时更换时应防止柱塞和新装密封环裂痕和碰伤。

在短时间内，冷热交替温差较大的管道中，柱塞阀不能使用。

## Structure and characteristics

Plunger valve is composed of valve body, cap, stem, plunger, hole stand, sealing ring and hand wheel (shown in the figure). When the hand wheel is turned, the plunger is driven by stem to move upward and downward reciprocally in guiding sleeve, thus the end sloped conical surface of the plunger and the valve seat conical surface can open and close the valve.

Interference fit is applied between valve's plunger and sealing ring. The flange bolt in the gland is regulated to generate lateral force from the sealing compression, thus sealing up the valve body's medium hole face and plunger's outer ring. This can ensure sealing performance of the valve and eradicate internal leak. Meanwhile, small opening torque of the valve can bring about rapid opening and shutdown of the valve.

The sealing ring is made from a brand-new non-toxic sealing material with high elasticity and abrasive resistance and it will not loose elasticity upon long-term high temperature and high pressure service, the product is provided with reliability of sealing performance and durability.

## Installation and maintenance

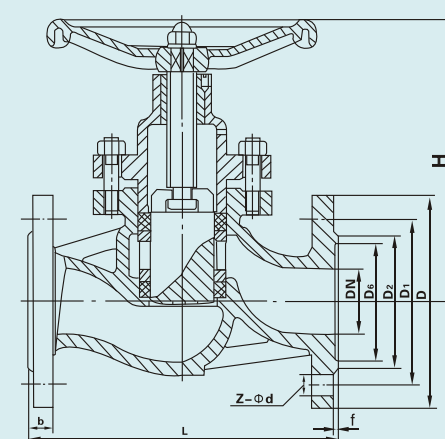
Plunger valves produced by the company will be subject to testing and acceptance in factory based on JB/T9092. The product will not be needed to be disassembled, cleaned or replaced during first service except that the outside and hole chamber will be cleaned.

The plunger valve could be mounted at any location. For medium flow direction, please see the arrow on the valve body.

After a period of service, if the sealing ring is found abraded or leaking, it is required to close down the valve first and then tighten a bit slowly the medium flange until there is no leak. Meanwhile, during replacement, prevent plunger and new sealing ring from cracking and collision damage.

The plunger valve should not be used in a pipeline with sharp temperature fluctuations for a short period of time.

柱塞阀  
Plunger valve



**U41SM-1.6 U41SM-1.6P U41SM-1.6R**

### 主要外形尺寸及连接尺寸 Key external dimensions and connection dimensions

JB/T791.1 单位: mm

DN	L	D	D1	D2	b	Z-Φd	f	H	重量 (kg)
15	130	95	65	45	14	4-14	2	116	2.8
20	150	105	75	55				142	5
25	160	115	85	65				163	5.5
32	180	135	100	78	16	4-18		182	8.5
40	200	145	110	85			3	210	12
50	230	160	125	100				230	15
65	290	180	145	120	18	250		22	
80	310	195	160	135	20	269		32	
100	350	215	180	155	20	8-18		278	43
125	400	245	210	185	22			332	65
150	480	280	240	210	24	8-23		434	85
200	600	335	295	265	26	12-23		498	150
250	650	405	355	320	30	12-25		4	540
300	750	460	410	375			650		285

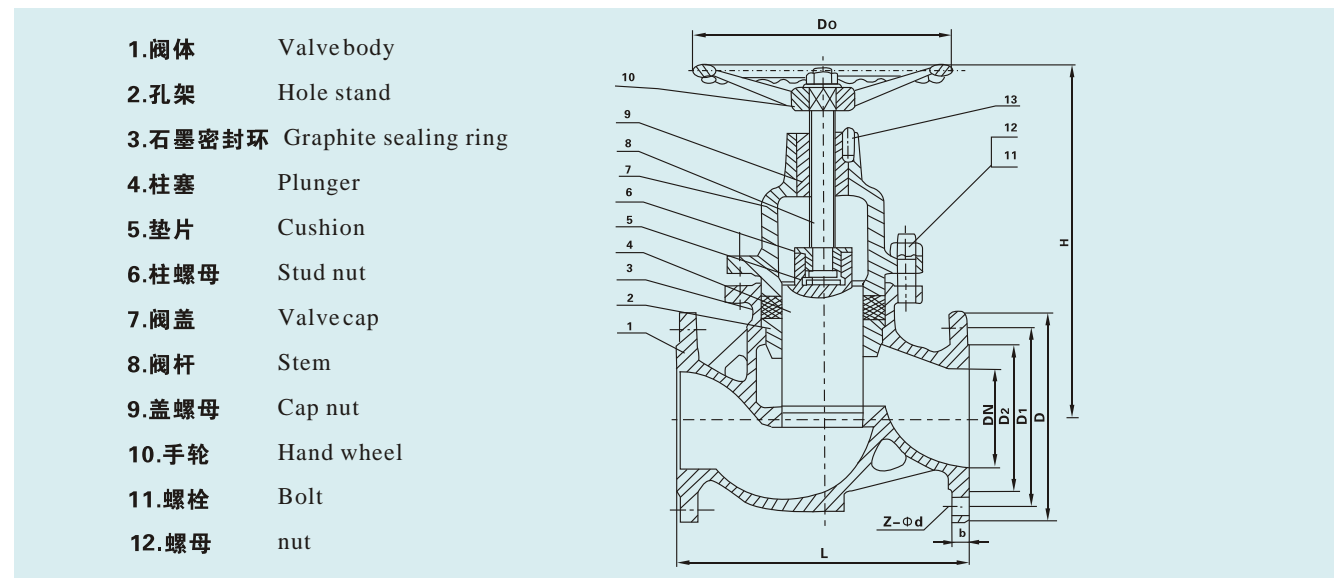
**U41SM-2.5C U41SM-2.5P U41SM-2.5R**

### 主要外形尺寸及连接尺寸 Key external dimensions and connection dimensions

单位: mm

DN	L	D	D1	D2	b	Z-Φd	f	H	重量 ( kg )	
15	130	95	65	45	16	4-14	2	116	3	
20	150	105	75	55				142	5.2	
25	160	115	85	65				163	5.5	
32	180	135	100	78	18	4-18	3	182	8.9	
40	200	145	110	85				210	12.4	
50	230	160	125	100	20	230		15		
65	290	180	145	120	22	8-18		250	22.6	
80	310	195	160	135		269		33		
100	350	230	190	160	24	8-23		278	45	
125	400	270	220	188	28	8-25		332	70	
150	480	300	250	218	30			434	95	
200	600	360	310	278	34	12-26		498	165	
250	650	425	370	332	36	12-30		540	235	
300	750	485	430	390	40	16-30		4	650	305





### 结构及特点 Structure and characteristics

柱塞阀由阀体、阀盖、阀杆、柱塞、孔架、密环、手轮等零件组成（如图）。当手轮旋转时，通过阀杆带动柱塞在导向套中上、下往复运动，使柱塞端部斜锥面与阀座锥面完成阀门与开启与关闭功能。

在阀门中柱塞与密封环间采用过盈配合, 通过调节中法兰螺栓预紧力, 使密封环压缩所产生的侧向力与阀体中孔面柱塞外圆密封, 从而保证了阀门的密封性, 杜绝了内泄漏。

由于密封环采用回弹性强，耐磨性高的无毒新型密封材料，所以密封性能可靠，经久耐用。从而提高了阀门的使用寿命。

本阀门结合柱塞阀的无泄漏优点和截止阀启闭快的特点，成为一种结构新颖，用途广泛的新产品。其优越性远胜于普通截止阀。

阀门设计、制造按: GB/T12235法兰连接钢截止阀升降式止回阀》的规定。

阀门的结构长度按: GB/T12221《法兰连接金属阀门长度》系列尺寸。API阀门结构长度按ANSI16110-86有关尺寸选用。

阀门连接法兰尺寸按: HGJ144-76-91《钢制管法兰、垫片、紧固件》及HG标准中的尺寸选用。

阀门检查的试验按：GB/T13927《阀门的试验和检验》及API598《阀门的试验和检验》要求。

## 安装和维修

本公司生产的柱塞截止阀出厂前均进行过严格试验、验收。使用时只需外表及孔腔清洗干净，不必拆洗和更换。

本柱塞阀可在任意位置安装，介质流动方向见阀体上箭头所示。

经过一段时间的使用，密封环如有磨损及渗漏必须先将阀门关闭后，再将中法兰螺栓均匀地略加旋紧以至不渗漏即可，不宜盲目

将螺栓拧得太紧。同时更换时应防止柱塞和新装密封环表面裂痕和碰伤。

在短时间内，冷热交替温差较大的管道中，柱塞阀不能使用。

Plunger valve is composed of valve body, cap, stem, plunger, hole stand, sealing ring and hand wheel (shown in the figure). When the hand wheel is turned, the plunger is driven by stem to move upward and downward reciprocally in guiding sleeve, thus the end sloped conical surface of the plunger and the valve seat conical surface can open and close the valve.

In the valve, plunger and sealing ring are press-fitted. The pretightening force of flange bolt is regulated to compress the sealing ring, producing lateral force to seal the outer ring of the valve body's middle hole surface plunger. Therefore, sealing performance of valve is ensured, eliminating internal leak.

The sealing ring uses non-toxic new sealing material with high elasticity and wear resistance, thus the sealing performance is reliable and the product is durable with enhanced service life.

The valve has combined the advantage of zero leak from plunger valve and the feature of Globe valve as fast opening and closing. It is a kind of new product with innovative design and wide applications. The performance has outreached regular Globe valves.

The valve is designed and manufactured as per GB/T12235 Flange-connected steel Globe valve and lift check valve. The structural length is as per the GB/T12221 Length of flange-connected metallic valves. The structural length of API valve is as per ANSI16110-86 specification.

The flange size of valve connection is as per HGJ144-76-91 Steel pipe flange, cushion and fastener and HG specifications.

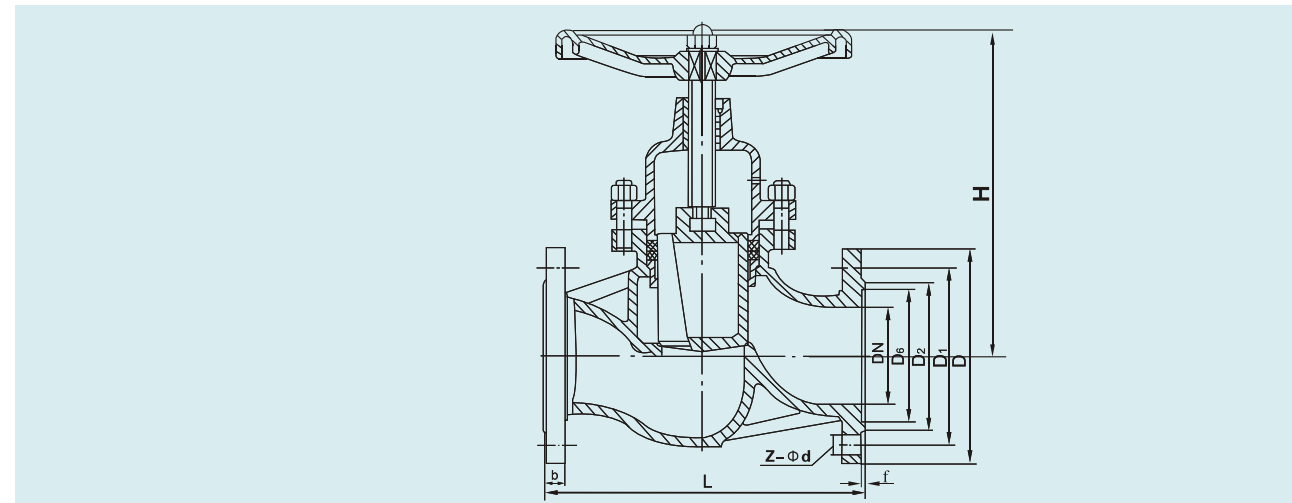
The valve check and test are as per the GB/T13927 Valve test and inspection and the API598 Valve test and inspection.

## Installation and maintenance

The plunger Globe valve of our company has been tested and inspected in factory based on rigorous specifications. Therefore, only cleaning outside and hole chamber is needed without disassembling and replacement.

The plunger valve could be mounted at any position. The medium flow direction will follow arrow on the valve body.

After a period of service, the valve must be closed first in case of any wear or leak. Then, tighten slightly and evenly the medium flange bolts until no leak is featured. It is not suggested to tighten the bolts securely. Meanwhile, prevent against crack and crash of plunger and new sealing ring during replacement.



主要外形尺寸和连接尺寸								(RP) 单位: mm	
Key external dimension and connection dimension				UJ41 <sup>H</sup> <sub>Y</sub> -16C UJ41W-16P UJ41W-16R				Unit: mm	
DN	L	D	D1	D2	b	Z-Φd	f	H≈	重量(kg)
15	130	95	65	45	14	4-14	2	145	3.5
20	150	105	75	55	14	4-14	2	149	4.4
25	160	115	85	65	14	4-14	2	166	5.6
32	180	135	100	78	16	4-18	2	187	8.5
40	200	145	110	85	16	4-18	3	208	11.0
50	230	160	125	100	16	4-18	3	234	15.0
65	290	180	145	120	18	4-18	3	284	21.0
80	310	195	160	135	20	8-18	3	314	30.0
100	350	215	180	155	20	8-18	3	365	41.0
125	400	245	210	185	22	8-18	3	401	60.0
150	480	280	240	210	24	8-23	3	415	82.0
200	600	335	295	265	26	12-23	3	508	147.0
250	650	405	355	320	30	12-25	3	590	220.0
300	750	460	410	375	30	12-25	4	1000	290
350	850	520	470	435	34	16-25	4	1040	450
400	914	580	525	485	36	16-30	4	1200	72.5

主要外形尺寸和连接尺寸						(RP) 单位: mm			
Key external dimension and connection dimension						Unit: mm			
DN	L	D	D1	D2	b	Z-Φd	f	H≈	重量(kg)
15	130	95	65	45	16	4-14	2	145	3.5
20	150	105	75	55	16	4-14	2	149	4.4
25	160	115	85	65	16	4-14	2	166	5.6
32	180	135	100	78	18	4-18	2	187	8.5
40	200	145	110	85	18	4-18	3	208	12.0
50	230	160	125	100	20	4-18	3	234	22.0
80	310	195	160	135	22	8-18	3	314	32.0
100	350	230	190	160	24	8-23	3	365	46.0
125	400	270	220	188	28	8-25	3	401	65.0
150	480	300	250	218	30	8-25	3	415	92.0
200	600	360	310	278	34	12-25	3	508	165.0
250	650	425	370	332	36	12-30	3	590	250.0
300	750	485	430	390	40	16-30	4	1000	305
350	850	550	490	448	44	16-34	4	1040	470
400	914	610	550	505	48	16-34	4	1200	780



公称通径(DN)

UJ41 <sup>H</sup> <sub>Y</sub> -40C    UJ41W -40P    UJ41W -40R (FM)											
公称通径DN(mm) Nominal through diameter	主要尺寸及连接尺寸(mm) Key connection dimension										重量(kg)
	L	D	D1	D2	D6	b	f	z- φ d	f1	H~	
15	130	95	65	45	40	16	2	4- φ 14	4	145	3.5
20	150	105	75	55	51	16	2	4- φ 14	4	149	4.4
25	160	115	85	65	58	16	2	4- φ 14	4	166	5.6
32	180	135	100	78	66	18	2	4- φ 18	4	187	8.5
40	200	145	110	85	76	18	3	4- φ 18	4	208	12.0
50	230	160	125	100	88	20	3	4- φ 18	4	234	16.0
65	290	180	145	120	110	22	3	8- φ 18	4	284	22.0
80	310	195	160	135	121	22	3	8- φ 18	4	314	32.0
100	350	230	190	160	150	24	3	8- φ 23	4.5	365	46.0
125	400	270	220	188	176	28	3	8- φ 25	4.5	401	70.0
150	480	300	250	218	204	30	3	8- φ 25	4.5	415	93.0
200	600	375	320	282	260	38	3	12- φ 30	4.5	508	182.0
250	650	445	385	345	313	42	3	12- φ 34	4.5	590	320.0
300	698	510	450	408	364	46	4	16- φ 34	4.5	1000	480.0
350	787	570	510	465	422	52	4	16- φ 41	5	1040	700.0
400	914	655	585	535	474	58	4	16- φ 34	5	1200	940.0

UJ41 <sup>H</sup> <sub>Y</sub> -63C    UJ41W -63P    UJ41W -63R (FM)									
公称通径DN(mm) Nominal through diameter	主要尺寸及连接尺寸(mm) Key connection dimension								
	L	D	D1	D2	D6	f	b	f	z- φ d
15	170	105	75	55	40	4	18	2	4- φ 14
20	190	125	90	68	51	4	20	2	4- φ 18
25	210	135	100	78	58	4	22	2	4- φ 18
32	230	150	110	82	66	4	24	2	4- φ 23
40	260	165	125	95	76	4	24	3	4- φ 23
50	300	178	135	105	88	4	26	3	4- φ 23
65	340	200	160	130	110	4	28	3	8- φ 23
80	380	210	170	140	121	4	30	3	8- φ 23
100	430	250	200	168	150	4.5	32	3	8- φ 25
125	500	295	240	202	176	4.5	36	3	8- φ 30
150	550	340	280	240	204	4.5	38	3	8- φ 34
200	650	405	345	300	260	4.5	44	3	12- φ 34
250	775	470	400	352	313	4.5	48	3	12- φ 41
300	900	530	460	412	364	4.5	54	4	16- φ 41

UJ41 <sup>H</sup> <sub>Y</sub> -100C    UJ41W -100P    UJ41W -100R (FM)									
公称通径DN(mm) Nominal through diameter	主要尺寸及连接尺寸(mm) Key connection dimension								
	L	D	D1	D2	D6	f1	b	f	z- φ d
15	170	105	75	55	40	4	20	2	4- φ 14
20	190	125	90	68	51	4	22	2	4- φ 18
25	210	135	100	78	58	4	24	2	4- φ 18
32	230	150	110	82	66	4	24	2	4- φ 23
40	260	165	125	95	76	4	26	3	4- φ 23
50	300	195	145	112	88	4	28	3	4- φ 25
65	340	220	170	138	110	4	32	3	8- φ 25
80	380	230	180	148	121	4	34	3	8- φ 25
100	430	265	210	172	150	4.5	38	3	8- φ 30
125	500	310	250	210	176	4.5	42	3	8- φ 34
150	550	350	290	250	204	4.5	46	3	12- φ 34
200	650	430	360	312	260	4.5	54	3	12- φ 41
250	775	500	430	382	313	4.5	60	3	12- φ 41
300	900	585	500	442	364	4.5	70	4	16- φ 48

常用阀体材料对照表 Comparison list of regular valve material

材料名称 Material name	材料牌号      Material trademark				适用工况 Applicable work condition	
	ANSI/ASTM标准		GB			
碳     钢 Carbon steel	铸件 Cast piece WCB	锻件 Forged piece A105	铸件 Cast piece ZG230—450	锻件 Forged piece 25、20Mn	使用温度℃ Service temperature ≤425	主要适用介质 Major applicable medium 水、蒸汽、空气、氮气、氨、氮及石油产品等 Water, steam, air, nitrogen gas, ammonia, nitrogen, petroleum product, etc.
	WC 1	F1	/	/	≤450	蒸 汽、石 油 产 品 等 Steam, petroleum product, etc.
合 金 钢 Steel alloy	C5	F5	ZGCr5Mo	2Cr5Mo	≤550	
	WC6	F11	ZG20CrMoV	15CrMo 12CrMoV	≤552	
	WC9	F22	ZG15Cr1Mo1V	12Cr1MoV 25Cr2MoV 20CrMoV	≤595	
低温用碳素钢 Low temperature carbon steel	LCB	LF1	/	/	-46～345	水、蒸汽、石油产品等 Water, steam, petroleum product, etc.
铬镍不锈钢 Chromium nickel stainless steel	CF8	304	ZG0Cr18Ni9Ti  ZG0Cr18Ni12Mo2Ti	0Cr19Ni9	-196～800	硝酸类等腐蚀性介质 Corrosive medium such as nitric acid
铬镍钼不锈钢 Ni-Cr-Mo stainless steel	CF8M	316		0Cr18Ni12Mo2Ti	-196～800	醋酸类及尿素等腐蚀性介质 Corrosive medium such as acetic acid and urea
铬镍超低碳不锈钢 Chromium nickel super-low carbon stainless steel	CF3	304L		00Cr19Ni11	-196～425	硝酸类等腐蚀性介质 Corrosive medium such as nitric acid
铬镍钼超低碳不锈钢 Ni-Cr-Mo super-low carbon stainless steel	CF3M	316L		00Cr17Ni14Mo2	-196～455	醋酸类及尿素等腐蚀性介质 Corrosive medium such as acetic acid and urea

钢制阀门压力-温度等级表 Steel valve pressure temperature ratings

钢 号 Steel No.	基准温度(℃) Benchmark temperature	工作温度(℃)    Operating temperature											
		250	300	350	400	425	435	445	455				
10、20、25、 ZG200、ZG250	200												
15CrMo ZG20CrMo	200	320	450	490	500	510	515	525	535	545			
12Cr1MoV 15CrMo1V ZG20CrMoV ZG15Cr1Mo1V	200	320	450	510	520	530	540	550	560	570			
1Cr5Mo ZG1Cr5Mo	200	325	390	430	450	470	490	500	510	520	530	540	
1Cr18Ni9Ti ZG1Cr18Ni9Ti 1Cr18Ni12Mo2Ti ZG1Cr18Ni12Mo2Ti	200	300	400	480	520	560	590	610	630	640	660	675	700

PN (MPa)	PS(MPa)	最大工作压力Ptmax(MPa)    Max. operating pressure											
1.6	2.4	1.6	1.4	1.25	1.1	1.0	0.90	0.80	0.70	0.64	0.56	0.50	0.45
2.5	3.8	2.5	2.2	2.0	1.8	1.6	1.4	1.25	1.1	1.0	0.9	0.80	0.70
4.0	6.0	4.0	3.6	3.2	2.8	2.5	2.2	2.0	1.8	1.6	1.4	1.25	1.1
6.4	9.6	6.4	5.6	5.0	4.5	4.0	3.6	3.2	2.8	2.5	2.2	2.0	1.8
10.0	15.0	10.0	9.0	8.0	7.1	6.4	5.6	5.0	4.5	4.0	3.6	3.2	2.8
16.0	24.0	16.0	14.0	12.5	11.2	10.0	9.0	8.0	7.1	6.4	5.6	5.0	4.5
20.0	30.0	20.0	18.0	16.0	14.0	12.5	11.2	10.0	9.0	8.0	7.1	6.4	5.6
25.0	38.0	25.0	22.5	20.0	18.0	16.0	14.0	12.5	11.2	10.0	9.0	8.0	7.1
32.0	48.0	32.0	28.0	25.0	22.5	20.0	18.0	16.0	14.0	12.5	11.2	10.0	9.0
40.0	56.0	40.0	36.0	32.0	28.5	25.0	22.5	20.0	18.0	16.0	14.0	12.5	11.2
50.0	70.0	50.0	45.0	40.0	36.0	32.0	28.0	25.0	22.5	20.0	18.0	16.0	14.0
64.0	90.0	64.0	56.0	50.0	45.0	40.0	36.0	32.0	28.0	25.0	22.5	20.0	18.0
80.0	110.0	80.0	71.0	64.0	56.0	50.0	45.0	40.0	36.0	32.0	28.0	25.0	22.5
100.0	130.0	100.0	90.0	80.0	71.0	64.0	6.0	50.0	45.0	40.0	36.0	32.0	28.0

注： 当工作温度为表中温度级之中间时，可用内 插法决定最大工作压力。  
说明： 按JB/T3595《电站阀门制造技术条件》的压力-温度等级表要求，碳钢阀门不 推荐在工作温度450 C 长期使用，但在我国96年劳动部颁发的《蒸汽锅炉安全技术监察规程》中，碳钢的铸件、锻钢允许使用到450? C。  
Note: When operating temperature is at a middle position in the table's temperature ratings, maximum operating pressure could be defined under interpolation method.  
Specification: As per the pressure-temperature rating table in the JB/T3595 Manufacturing technology conditions of power plant valve, it is not recommended carbon steel valve serves under 450? operating temperature for a long term. However, cast carbon steel and forged carbon steel are allowed to serve under 450? in the Safety technology supervisory regulation for steam boiler as promulgated by the Ministry of Labor in 1996 in China.