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平板闸阀系列

Flat-plate gate valve series



自动补偿双闸板平板闸阀



高压平板闸阀



气动平板闸阀



双闸板平板闸阀



自动补偿双闸板平板闸阀



双闸板平板闸阀



无导流孔平板闸阀



电动平板闸阀



燃气闸阀



PE端燃气闸阀



高压平板闸阀



无导流孔平板闸阀



埋地式燃气闸阀



轻型带导流孔平板闸阀



带导流孔平板闸阀

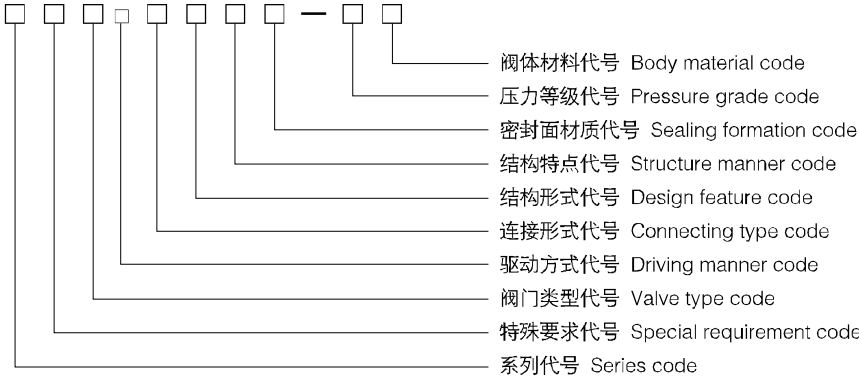


轻型无导流孔平板闸阀



无导流孔平板闸阀

● 型号编制说明 Model schedule illustration



- 系列代号：本公司系列代号为FY
Series code: The series code name of our company is FY
- 特殊要求代号：K—抗硫型 L—调节型 ZB—自动补偿
Special requirement code: K—Antisulphur model L—Adjustment type ZB—Auto compensation
- 阀门类型代号：Z—闸阀
Valve type code: Z—Gate valve
- 驱动方式代号：4—正齿轮传动 5—伞齿轮传动 6—气动 6s—气动带手动 7—液动 9—电动(手轮传动略) 9b—防爆电动
Driving manner code: 4—Spur gear transmission 5—Bevel gear transmission 6—Air driving 6s—Take pneumatically manually 7—Hydrodynamic driving 9—Electric driving (Hand wheel driving omitted) 9b—Explosion electric driving
- 连接形式代号：4—法兰连接 6—对焊连接
Connecting type code: 4—Flange-connecting 6—Butt welding connecting
- 结构形式代号：3—明杆平行式单闸板 4—明杆平行式双闸板
Design feature code: 3—Rising-stem parallel single-disc 4—Rising-stem parallel double-disc
- 结构特点代号：W—无导流孔(有导流孔省略) P—轻型
Structure manner code: W—Non-diversion hole type (Diversion hole type omitted) P—Light-duty
- 密封面材质代号：Y—硬质合金 H—合金钢 D—渗氮钢 F—增强聚四氟乙烯
Sealing formation code: Y—Hard alloy H—Alloy steel D—Nitriding steel F—Intensified polytetrafluoroethylene(PTFE)
- 压力等级代号：公称压力为MPa的10倍、磅级为实际数
Pressure grade code: The 10 times of the nominal pressure MPa, pound grade is practical number
- 阀门材料代号：C—WCB I—WC6、ZG1Cr5Mo V—WC9、ZG20CrMoV P—CF8、ZG1Cr18Ni9Ti
R—CF8M、ZG1Cr18Ni12Mo2Ti S—CF3 L—CF3M F—LCB N—LC3
Body material code: C—WCB I—WC6、ZG1Cr5Mo V—WC9、ZG20CrMoV P—CF8、ZG1Cr18Ni9Ti R—CF8M、ZG1Cr18Ni12Mo2Ti S—CF3 L—CF3M F—LCB N—LC3

例1: Z543WF-16C

注释：公称压力为1.6MPa、伞齿轮传动、法兰连接、无导流孔、明杆平行式单闸板闸阀，阀体材质为WCB，密封面材质为增强聚四氟乙烯。

Example 1: Z543WF-16C

Denoting 1.6MPa nominal rating pressure, bevel gear transmission, flange-connecting, nondiversion hole, Rising-stem parallel single-disc, WCB valve body material and the Intensified polytetrafluoroethylene(PTFE) as sealing material.

例2: KZ9b44Y-150Lb

注释：压力等级为Class150、防爆电动、法兰连接、有导流孔、抗硫明杆平行式双闸板闸阀，阀体材质为WCB，密封面材质为硬质合金。

Example 2: KZ9b44Y-150Lb

Denoting Class150 pressure grade, explosion electric driving, flange-connecting, diversion hole type, antisulphur rising-stem parallel double-disc gate valve, WCB valve body material and the hard alloy sealing material.

● 产品结构特点 Products Design Features

- 阀体有铸造和焊接两种结构。

Cast and weld two structures with the body

- 阀座采用O形密封圈密封和施加预紧力的浮动阀座结构，使阀门进出口双向密封；并且该结构的启闭力矩仅为普通阀门的1/2，能达到轻松开、关阀门。

The seat ring uses the floating seat ring structure with o-seal ring sealed and pre-tightening force applied to have inlet and outlet dual-way sealed; and the open-close moment with this structure is 1/2 that of the common valves only, able to lightly open and close valves.

- 阀座采用密封面上镶嵌PTFE，具有PTFE对金属和金属对金属的双重密封，PTFE密封面同时清除闸板脏物的作用。

The seat ring uses the sealing face inlaid with PTFE, so has dual seals of PTFE to metal and metal to metal, the PTFE sealing face also acts as removing the dirt on the wedge disc.

- 金属对金属密封的阀门，阀体外部设有注油脂结构，油脂通过注脂器、阀座进入阀门密封面，使阀门达到零泄漏。

For the valve with the metal to metal seal, there is grease injector outside of it, grease gets into the sealing face through the injector and the seat ring to have the valve up to null leak.

- 带导流孔阀门的闸板，无论是全开或是全关始终与密封面吻合，密封面得到保护不受介质直接冲刷，从而延长使用寿命。

The wedge disc of the valve with flow guide hole is always fitted with the sealing face whether in full open or full close status to have the sealing face protected without being directly eroded by the medium so as to extend the duration.

- 阀门在全开时，通道平滑为直线，流阻系数极小，无压力损失，可通毛球清扫管线。

When fully opened, the valve's channel is smooth and linear, with an extremely small flow resisting coefficient and no pressure loss, and the pipeline can be cleaned with hair-ball through it.

- 本阀门采用带自密封能力的填料结构，无需经常调节，开、关极为轻便，且密封性可靠，填料函处设有辅助密封油脂注入结构，密封性能绝对可靠，真正达到零泄漏；解决了通用阀门填料处最容易外漏的弊病。

This valve uses the packing structure with the ability of self-seal, needs no constant adjustment, features very light open and close and a reliable seal. An assisting sealing grease injection structure is set in the packing to have the sealing performance absolutely reliable and get a true null leak, settling the problem for the packing place of universal valves to be easiest leak outward.

- 阀门关闭时能自动卸掉内腔高压(详见工作原理图)，保证使用安全。

Automatic removal of the high pressure in the internal cavity when the valve is about to close (see the working principle diagram for the details) so as to ensure safety.

- 全封闭结构，防护性能好，可适应全天候要求。

Fully sealed structure leaves a good protective property, suitable for the requirement of 24-hour duty.

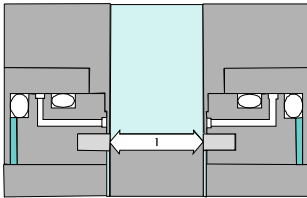
- 阀门设有指示杆或观察窗以表示阀门的启闭情况。

An indication rod or viewing window is set with the valve to show the open-close condition.

● 产品性能规范 Products Performance Specification

压力等级 Pressure	常温试验压力(MPa) Testing pressure at constant temperature (Mpa)					适用温度 Applicable temperature	适用介质 Applicable medium	
	壳体试验 The shell testing	左密封 The left sealing	右密封 Right sealing	低压气密封 Low pressure air tightness	普通型 Ordinary type		抗硫型 Antisulphur type	
公称压力 (MPa) Nominal rating pressure (PN)	1.6	2.4	1.76	1.76	0.6	-29 ~ 121°C 或按用户要求	石油、天然气、水等非腐蚀性介质	含H ₂ S、CO ₂ 的石油、天然气、水等腐蚀性介质
	2.5	3.75	2.75	2.75	0.6			
	4.0	6.0	4.4	4.4	0.6			
	6.4	9.6	7.04	7.04	0.6			
	10.0	15.0	11.0	11.0	0.6			
	16.0	24.0	17.6	17.6	0.6			
	25.0	37.8	27.5	27.5	0.6			
	42.0	63.0	46.2	46.2	0.6			
磅级(Lb) Pound grade (Class)	150	3.0	2.2	2.2	0.6	-29 ~ 121°C or upon the user requirement	Petroleum, natural gas, water etc. non-corrosive media	Petroleum, natural gas, water etc. containing H ₂ S, CO ₂ corrosive media
	300	7.5	5.5	5.5	0.6			
	400	9.6	7.04		0.6			
	600	15.0	11.0	11.0	0.6			
	900	22.5	17.5	17.5	0.6			
	1500	37.5	27.5	27.5	0.6			
2500	63.0	46.2	46.2	0.6				

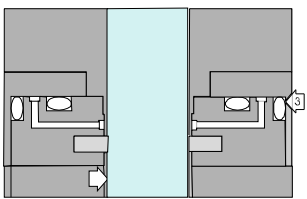
●工作原理 Working Principle



图(1)

1、阀门内部压力相当时(1)，闸板处于闭合状态，阀座表面PTFE密封环形成初始密封，每次阀门开或关时，阀座圈能清洁闸板两侧。(如图1)

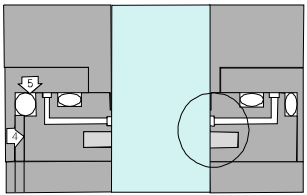
With equal pressure throughout the valve (and the gate in closed position), and initial seal (1) is formed with the raised PTFE ring on the faces of the seats. (The seat-inserts clean both sides of the gate each time the valve is opened or closed)



图(2)

2、对阀门施加管道压力时(2)，压力作用于闸板，迫使它贴近出口阀座上的PTFE环，压缩它直到闸板停在钢制阀座上，这样，就形成了双重密封，首先是PTFE对金属密封，然后是金属对金属密封，阀座也被牢固地推到凹槽，在这一点(3)，O形圈阻止任何后部介质流。(如图2)

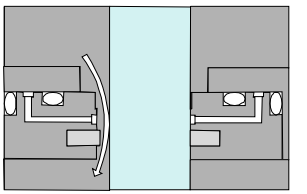
As line pressure (2) is applied to the valve, it acts on the gate, forcing it against the PTFE ring on the downstream seat, compressing it until the seat against the steel seat. Thus, a double seal is formed...first, a PTFE-to-metal seal; then, metal-to-metal. The seat is also forced firmly into its recess. The O-ring (3) prevents any downstream flow at this point.



图(3)

3、阀腔压力泄放后，形成进口密封，管道压力作用于进口阀座(4)，使其移向闸板，这时形成PTFE对金属的密封，同时，O形圈(5)与阀座凹槽形成紧密的密封。(如图3)

Upstream seal is provided when valve cavity pressure is bled off. This is caused by the force of line pressure acting against the upstream seat (4) moving the seat against the gate and providing a tight PTFE-to-metal seal at this point. At the same time, the O-ring (5) forms a tight seal with the seat recess.



图(4)

4、阀门自动泄放多余的压力，当阀腔压力大于管道压力时，由于热膨胀，进口阀座推向凹槽，阀腔内多余的压力在阀座与闸板之间泄放到管道中。(如图4)

Valve automatically relieves itself of excessive valve cavity pressure. When valve cavity pressure exceeds line pressure...from such causes as thermal expansion...the upstream seat is forced back into its recess and the excess pressure in the valve cavity is bled between the seat and the gate into the line.

●产品主要参数 Main Parameter of the Products

基本型号 Serial models	FY(K)Z43WF、FY(K)Z43WY、FY(K)Z43WD、FY(K)Z44WF、FY(K)Z44WY、FY(K)Z44WD FY(K)Z543WF、FY(K)Z543WY、FY(K)Z543WD、FY(K)Z544WF、FY(K)Z544WY、FY(K)Z544WD FY(K)Z643WF、FY(K)Z643WY、FY(K)Z643WD、FY(K)Z644WF、FY(K)Z644WY、FY(K)Z644WD FY(K)Z943WF、FY(K)Z943WY、FY(K)Z943WD、FY(K)Z944WF、FY(K)Z944WY、FY(K)Z944WD			
压力等级范围 Pressure grade range	PN1.6 ~ 15.0MPa		Class150 ~ 900	
通径范围 Drift diameter range	DN25 ~ 1200mm		1" ~ 48"	
驱动方式 Driving manner	手轮驱动 Hand wheel driving		齿轮动、气动、液动、电动 Gear driving, air-operating, hydrodynamic driving and electric driving	
适用范围 Scope of application	Class150 ~ 300 (PN1.6 ~ 4.0)	Class400 (PN6.4)	Class600 ~ 900 (PN10.0 ~ 15.0)	Class150 ~ 900
	1" ~ 40" (DN25 ~ 1200mm)	1" ~ 28" (DN25 ~ 1100mm)	1" ~ 12" (DN25 ~ 300mm)	1" ~ 48" (DN25 ~ 1200mm)

注：本公司可根据用户要求提供产品。

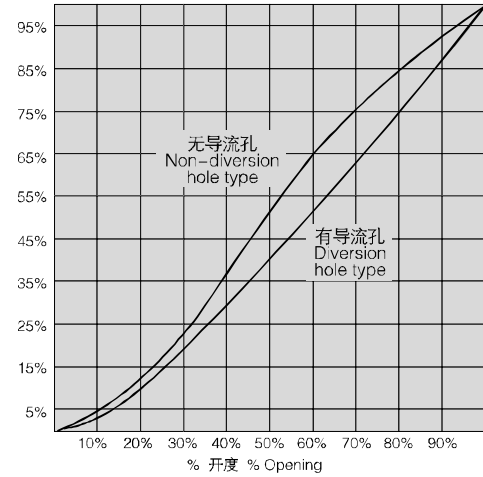
Note: Our company can provide products at customers' request.

● 流量特性分析

带导流孔的平板闸阀，其流量特性等同于同规格的管道，呈等百分比特性，不带导流孔的平板闸阀，其中腔跨度较楔式闸阀小，且属于规则的圆柱体，所以，基本上除压力损失较带导流孔的大外，其余特性基本接近。不带导流孔调节型的平板闸阀其对流量的调节特性优于普通不带导流孔的平板闸阀。

● Flow Characteristic

The flow characteristic of flat gate valves with a diversion hole is equal to that of pipelines of the same specification. The characteristic is shown in per centum form. As for valves without a diversion hole, its cavity fly span is smaller than that of wedge gate valves and it is a regular cylindrical object, therefore, characteristics of the valves are similar except that they have a larger pressure loss. Besides, their flux adjustment behavior is better than that of the ones with a diversion hole.

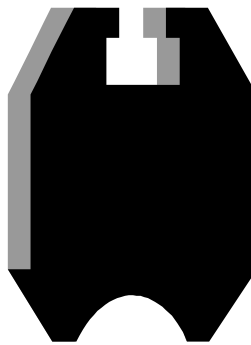


阀门开度—Cv特性曲线表
Valve-opening—Cv characteristic graph

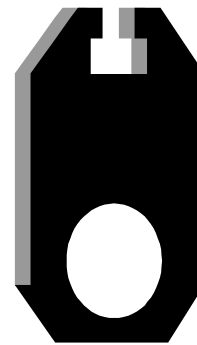
● 各类型闸板外形图 Outside Drawing of Different Types of Shutter



普通型闸板
Ordinary type

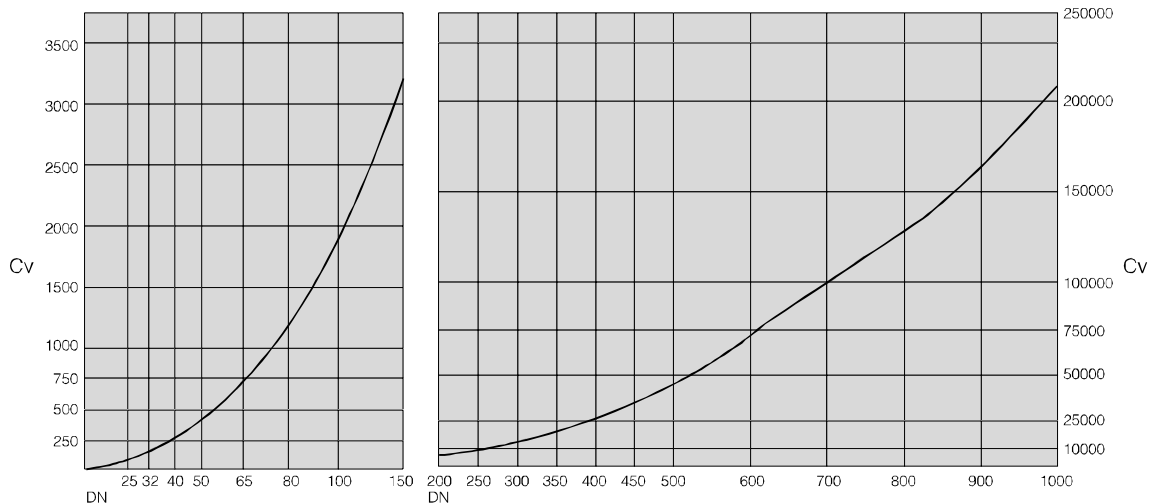


调节型闸板
Adjustment type



带导流孔型闸板
Type adiversion hole

● 带导流孔型平板闸阀的DN—Cv曲线图 DN—Cv Graph of Flat Valves with a Diversion Hole





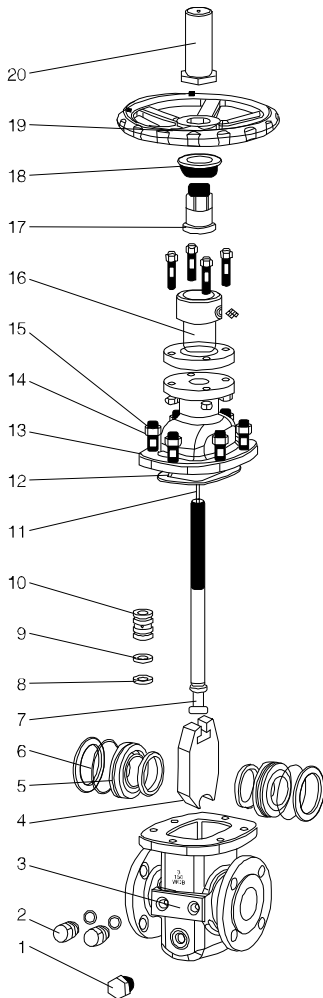
● 产品采用标准 Technical Specification

设计依据 Design reference		GB	API
设计标准 Design standard		JB/T5298 GB/T19672	API 6D ASME B16.34
结构长度 Structural length	法 兰 Flanged	GB/T 12221 GB/T19672、JB/T 5298	API 6D ASME B16.10
	焊 接 Welded connection	GB/T15188.1 GB/T19672	
连接法兰 Flanged ends		GB/T9113 JB/T 79	ASME B16.5 MSS SP44
对焊端 Butt-welding ends		GB/T 12224	ASME B16.25
试验和检验 Test & inspection		JB/T 9092	API 6D API 598

注：阀门连接法兰尺寸可根据用户要求设计制造。

Note: The sizes of valve connecting flange can be designed according to customers' requirement.

● 主要零件材料 Major Parts Material Form



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

注：阀门主要零部件材质可根据实际工况条件或用户特殊要求设计选用。

Notes: The major parts of the valves can be designed and selected according to actual work condition or customers' specific requirement.



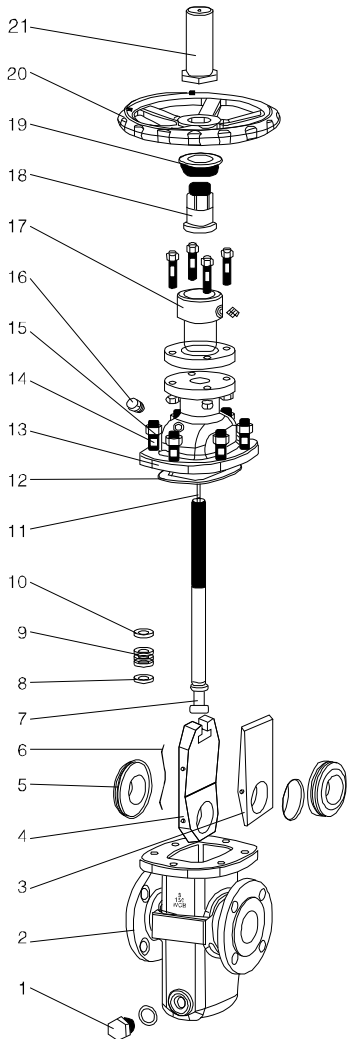
● 产品采用标准 Technical Specification

设计依据 Design reference		GB	API
设计标准 Design standard		JB/T5298 GB/T19672	API 6D ASME B16.34
结构长度 Structural length	法 兰 Flanged	GB/T 12221 GB/T19672、JB/T 5298	API 6D ASME B16.10
	焊 接 Welded connection	GB/T15188.1 GB/T19672	
连接法兰 Flanged ends		GB/T9113 JB/T 79	ASME B16.5 MSS SP44
对焊端 Butt-welding ends		GB/T 12224	ASME B16.25
试验和检验 Test & inspection		JB/T 9092	API 6D API 598

注：阀门连接法兰尺寸可根据用户要求设计制造。

Note: The sizes of valve connecting flange can be designed according to customers' requirement.

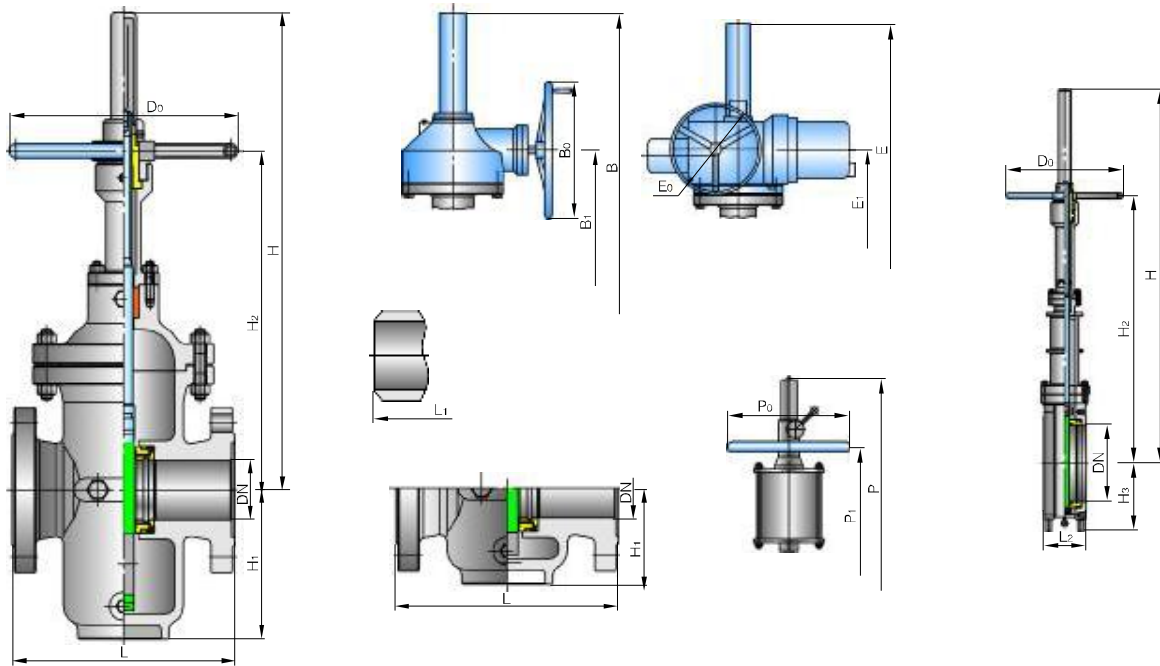
● 主要零件材料 Major Parts Material Form



序号 No.	零件名称 Accessory name	材 料 Material			
		普通型 Ordinary type		抗硫型 Antisulphur type	
		GB	ASTM	GB	ASTM
1	排污堵头 Blowdown stops	25+Zn	A105+Zn	1Cr18Ni9	A276-304
2	阀体 Body	WCB	A216-WCB	WCB	A216-WCB
3	副闸板 Disc	16Mn+STL-6	A105+STL-6	1Cr18Ni9+STL-6	A276-304+STL-6
4	主闸板 Disc	16Mn+STL-6	A105+STL-6	1Cr18Ni9+STL-6	A276-304+STL-6
5	阀座 Seat	16Mn+STL-6	A105+STL-6	1Cr18Ni9+STL-6	A276-304+STL-6
6	弹簧 Spring	65Mn	Inconel X-750	1Cr18Ni9	A276-304
7	阀杆 Stem	2Cr13	A276-420	1Cr18Ni9	A276-304
8	填料座 Packing seat	2Cr13	A276-420	2Cr13	A276-420
9	填料 Packing	柔性石墨 Graphite	柔性石墨 Graphite	柔性石墨 Graphite	柔性石墨 Graphite
10	上填料 Up Packing	2Cr13	A276-420	2Cr13	A276-420
11	指示杆 Indicating stem	1Cr18Ni9	A276-304	1Cr18Ni9	A276-304
12	垫片 Gasket	柔性石墨+1Cr18Ni9 Graphite+1Cr18Ni9	柔性石墨+304 Graphite+304	柔性石墨+1Cr18Ni9 Graphite+1Cr18Ni9	柔性石墨+304 Graphite+304
13	阀盖 Bonnet	WCB	A216-WCB	WCB	A216-WCB
14	螺柱 Stud	35CrMoA	A193-B7	35CrMoA	A193-B7
15	螺母 Nut	45	A194-2H	45	A194-2H
16	泄压阀 Relief valve	45	A105	45	1045 A105
17	支架 Yoke	WCB	A216-WCB	WCB	A216-WCB
18	阀杆螺母 Stem nut	ZQA19-4	C95500	ZQA19-4	C95500
19	压盖 Gland	25	A105	25	A105
20	手轮 Hand wheel	25	A536-60-40-18	25	A536-60-40-18
21	指示罩 Indicating cover	1Cr18Ni9	A276-304	1Cr18Ni9	A276-304

注：阀门主要零部件材质可根据实际工况条件或用户特殊要求设计选用。

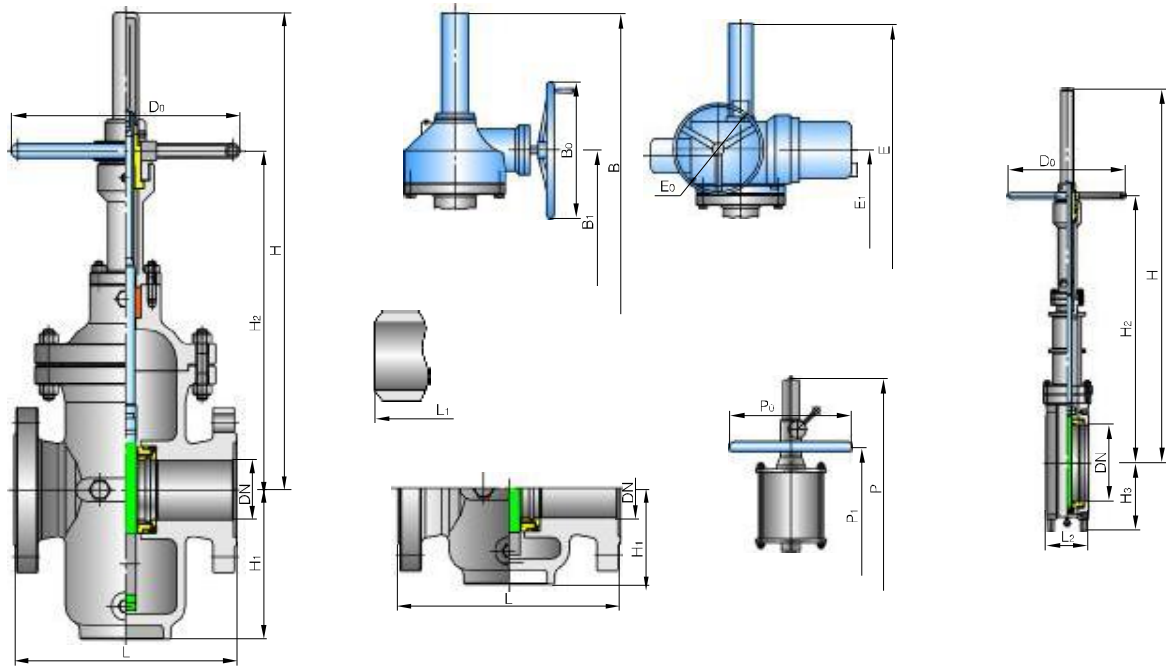
Notes: The major parts of the valves can be designed and selected according to actual work condition or customers' specific requirement.



● 主要外形尺寸 Main Size of Outside

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

DN (mm)	NPS (in)	法兰 Flange		对焊 Butt welding	手动 Hand-operated			齿 动 Geared driving			齿动装置 Geared driving	气动 液动 Air-operating and Fluid driving			电 动 Electric driving device			电动装置 Electric driving device	无导流孔 Non-diversion hole type	有导流孔 Diversion hole type
		L			H	H ₂	D ₀	B	B ₁	B ₀		P	P ₁	P ₀	E	E ₁	E ₀			
		GB	API	L ₁							H ₃							H ₁		
25	1	165	165	165	370	260	180	-	-	-	-	-	-	-	-	-	-	-	70	90
32	1 1/4	178	178	178	385	270	180	-	-	-	-	-	-	-	-	-	-	-	80	115
40	1 1/2	190	190	190	420	300	250	-	-	-	-	-	-	-	-	-	-	-	85	130
50	2	216	216	216	458	325	250	-	-	-	-	533	435	200	-	-	-	-	100	137
65	2 1/2	241	241	241	555	420	300	-	-	-	-	653	565	200	-	-	-	-	106	169
80	3	283	283	283	615	430	300	-	-	-	-	735	635	250	-	-	-	-	124	184
100	4	305	305	305	710	500	300	770	650	310	BA-0	860	730	250	912	790	200	SMC-04	146	218
150	6	403	403	403	900	625	350	965	800	310	BA-0	1125	925	350	1155	960	500	SMC-03	206	311
200	8	419	419	419	1135	790	350	1200	960	310	BA-0	1435	1165	350	1390	1120	305	SMC-00	241	382
250	10	457	457	457	1401	1040	400	1360	1090	310	BA-0	1776	1450	400	1543	1240	305	SMC-00	303	476
300	12	502	502	502	1580	1150	450	1560	1200	310	BA-1	2030	1620	450	1745	1400	305	SMC-0	372	545
350	14	762	762	762	-	-	-	1740	1350	460	BA-1	2305	1900	500	1945	1580	305	SMC-0	405	645
400	16	838	838	838	-	-	-	1930	1540	460	BA-1	2558	2100	600	2135	1640	305	SMC-0	450	728
450	18	914	914	914	-	-	-	2160	1700	460	BA-1	2835	2320	700	2385	1840	305	SMC-1	490	800
500	20	991	991	991	-	-	-	2420	1850	460	BA-2	3120	2510	800	2660	2050	305	SMC-1	520	930
600	24	1143	1143	1143	-	-	-	2800	2120	460	BA-2	3670	2980	900	3010	2310	305	SMC-1	600	1100
700	28	1346	1346	1346	-	-	-	3200	2460	460	BA-2	-	-	-	3480	2680	458	SMC-2	665	1260
800	32	1524	1524	1524	-	-	-	3640	2800	460	BA-2	-	-	-	3890	3020	458	SMC-2	720	1420
900	36	1727	1727	1727	-	-	-	4050	3080	600	BA-3	-	-	-	4260	3200	458	SMC-2	820	1580
1000	40	1880	1880	1880	-	-	-	4467	3400	600	BA-3	-	-	-	4677	3600	458	SMC-2	950	1720
1050	42	1981	1981	1981	-	-	-	4650	3550	600	BA-3	-	-	-	4670	3790	610	SMC-3	1070	1800

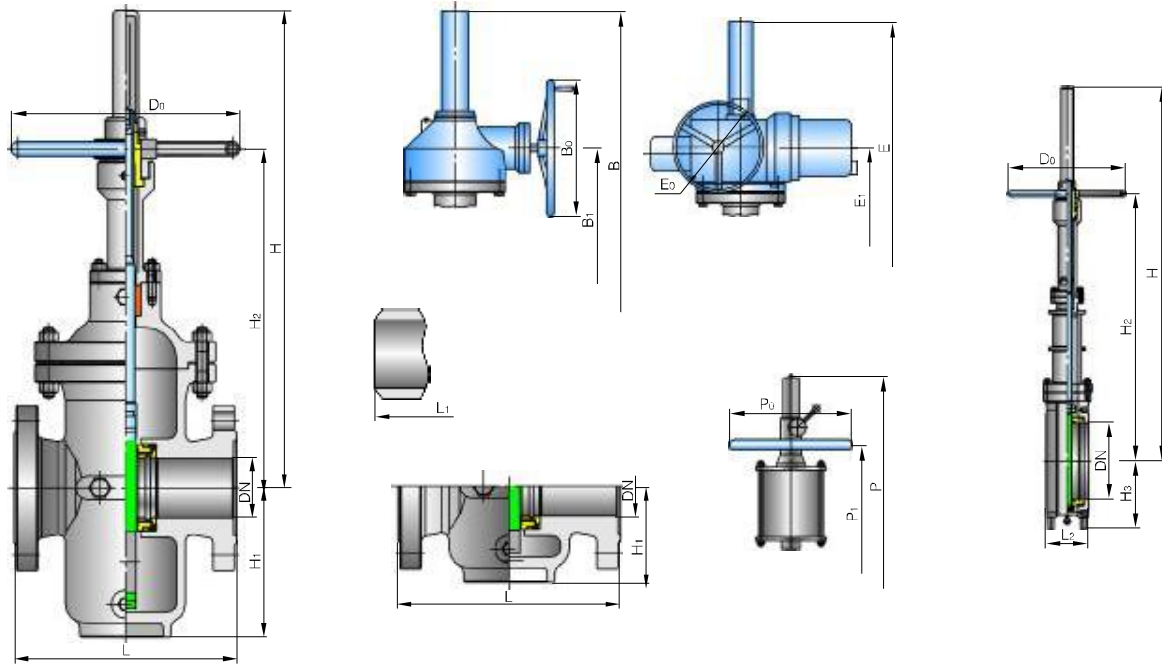

● 主要外形尺寸 Main Size of Outside

型号 Model: (K)Z5(6、9)4(6)3(4)W(F、Y、D)

PN6.4MPa

API 6D Class400

DN (mm)	NPS (in)	法兰 Flange		对焊 Butt welding	手动 Hand-operated			齿 动 Geared driving			齿动装置 Geared driving	气动 液动 Air-operating and Fluid driving			电 动 Electric driving device			电动装置 Electric driving device	无导流孔 Non-diversion hole type	有导流孔 Diversion hole type
		L			H ₁	H ₂	D ₀	B	B ₁	B ₀		P	P ₁	P ₀	E	E ₁	E ₀		H ₃	H ₁
		GB	API	L ₁																
50	2	216	292	292	458	325	300	505	430	310	BA-0	533	435	200	647	560	200	SMC-04	108	158
65	2 1/2	241	330	330	555	420	300	560	470	310	BA-0	653	565	200	702	610	200	SMC-04	125	190
80	3	283	356	356	615	430	350	610	510	310	BA-0	735	635	250	752	650	500	SMC-03	145	225
100	4	305	406	406	710	500	350	770	650	310	BA-0	860	730	250	912	790	500	SMC-03	165	255
150	6	403	495	495	900	625	400	965	800	310	BA-0	1125	925	350	1138	950	305	SMC-00	220	330
200	8	419	597	597	1135	790	500	1200	960	310	BA-0	1435	1165	350	1373	1100	305	SMC-00	280	410
250	10	457	673	673	1401	1040	500	1370	1090	460	BA-1	1776	1450	400	1575	1280	305	SMC-0	303	490
300	12	502	762	762	1580	1150	600	1560	1200	460	BA-1	2030	1620	450	1725	1390	305	SMC-0	372	570
350	14	762	826	826	-	-	-	1740	1350	460	BA-1	2305	1900	500	1930	1570	305	SMC-1	405	650
400	16	838	902	902	-	-	-	1970	1540	460	BA-2	2558	2100	600	2210	1700	305	SMC-1	450	735
450	18	914	978	978	-	-	-	2260	1700	460	BA-2	2835	2320	700	2500	1940	305	SMC-1	490	810
500	20	991	1054	1054	-	-	-	2420	1850	460	BA-2	3120	2510	800	2630	2020	458	SMC-2	520	935
600	24	1143	1232	1232	-	-	-	2800	2120	600	BA-3	-	-	-	3050	2350	458	SMC-2	600	1170
700	28	1346	1397	1397	-	-	-	3230	2460	600	BA-3	-	-	-	3480	2680	458	SMC-2	665	1330
800	32	1524	1524	1524	-	-	-	3640	2800	600	BA-3	-	-	-	3890	3020	458	SMC-2	720	1420
900	36	1727	1727	1727	-	-	-	4050	3080	600	BA-3	-	-	-	4260	3200	458	SMC-2	820	1580
1050	40	1880	1880	1880	-	-	-	4467	3400	600	BA-3	-	-	-	4677	3600	610	SMC-3	950	1720
1100	42	1981	1981	1981	-	-	-	4650	3550	600	BAA-3	-	-	-	4870	3790	610	SMC-3	1070	1800


● 主要外形尺寸 Main Size of Outside

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

DN (mm)	NPS (in)	法兰 Flange		对焊 Butt welding L ₁	手动 Hand-operated			齿 动 Geared driving			齿动装置 Geared driving	气动 液动 Air-operating and Fluid driving			电 动 Electric driving device			电动装置 Electric driving device	无导流孔 Non-diversion hole type H ₃	有导流孔 Diversion hole type H ₁
		L			H	H ₂	D ₀	B	B ₁	B ₀		P	P ₁	P ₀	E	E ₁	E ₀			
		GB	API																	
50	2	368	368	368	473	335	300	525	450	310	BA-0	548	450	250	647	560	500	SMC-03	108	158
65	2 1/2	419	419	419	570	435	300	585	490	310	BA-0	668	580	300	702	610	500	SMC-03	125	190
80	3	381	381	381	630	445	350	635	530	310	BA-0	750	650	350	752	650	305	SMC-00	145	225
100	4	457	457	457	725	515	350	800	680	310	BA-0	875	745	400	950	820	305	SMC-00	165	255
150	6	610	610	610	915	640	400	995	830	310	BA-1	1140	940	500	1138	950	305	SMC-0	220	330
200	8	737	737	737	1150	800	500	1250	1000	460	BA-1	1450	1180	550	1403	1130	305	SMC-0	280	410
250	10	838	838	838	1416	1055	500	1420	1140	460	BA-1	1791	1465	600	1575	1280	305	SMC-1	330	490
300	12	965	965	965	1595	1165	600	1600	1230	460	BA-2	2045	1635	700	1750	1410	305	SMC-1	380	570
350	14	1029	1029	1029	-	-	-	1890	1450	460	BA-2	-	-	-	1930	1570	305	SMC-1	-	690
400	16	1130	1130	1130	-	-	-	2175	1660	600	BA-3	-	-	-	2210	1700	458	SMC-2	-	800
450	18	1219	1219	1219	-	-	-	2355	1800	600	BA-3	-	-	-	2500	1940	458	SMC-2	-	890
500	20	1321	1321	1321	-	-	-	2520	1920	600	BA-3	-	-	-	2630	2020	610	SMC-3	-	985
600	24	1549	1549	1549	-	-	-	3050	2240	620	BA-4	-	-	-	3100	2450	610	SMC-3	-	1150

● 产品结构特点 Products Design Features

本公司ZF系列注水阀均为高压平板闸阀。结构合理，密封可靠，操作轻便。密封面均喷焊硬质合金，具有防腐、耐磨、耐冲蚀等优点，且可用于节流。尤其适用于工作压力≤42MPa，工作温度≤120℃的水、油、泥浆、天然气管线作控制介质流动的启闭及调节装置。

The ZF series water injecting valves are high pressure flat-plate gate valves. with a reasonable structure, a reliable seal and an easy operation and the sealing face is built-up welded with carbide alloy, features anti-corrosion, anti-wear and anti-erosion and can be used for throttle, especially suitable for the water, oil, mud pulpy, natural gas pipeline as the open-close and adjusting device to control the medium flowing.

● 产品采用标准 Technical Specification

设计标准 Design standard		GB/T19672、JB/T5298、API 6D
结构长度 Structural length	法兰 Flanged	GB/T 12221、GB/T19672、JB/T 5298
	焊接 Welded connection	GB/T15188.1、GB/T19672
连接法兰 Flanged ends		GB/T9113、JB/T 79、ANSI 16.5
对焊端 Butt-welding ends		GB/T 12224
试验和检验 Test & inspection		GB/T3927、JB/T 9092



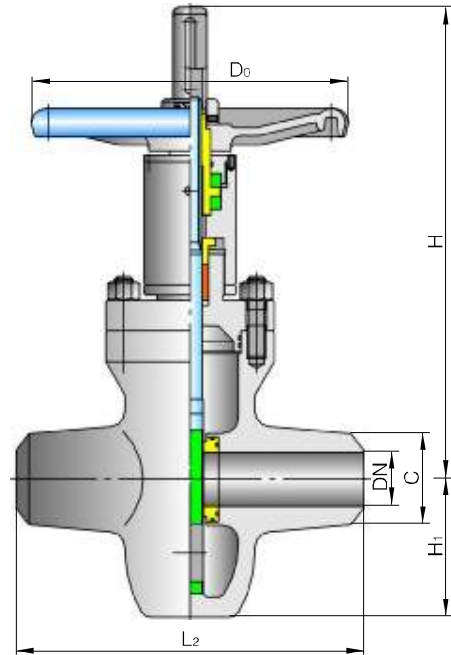
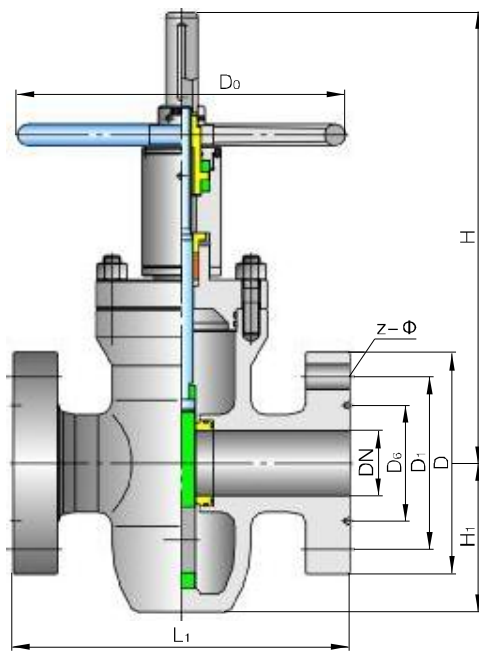
● 产品性能规范 Products Performance Specification

适用范围 Scope of application		PN10.0 ~ 42.0MPa	DN25 ~ 200mm
适用温度 Applicable temperature		-29 ~ 121℃	
适用介质 Applicable medium	普通型 Ordinary type	石油、天然气、成品油、水等 Petroleum, natural gas, readymade oil, water, etc.	
	抗硫型 Antisulphur type	含H ₂ S、CO ₂ 的石油、天然气等 Petroleum, natural gas etc. containing H ₂ S, CO ₂	
连接形式 Connecting type		法兰端、焊接端、卡箍端 Flange end, welded end, keeper end	
驱动方式 Driving manner		手动、电动、气动等 Manual, electric, pneumatic etc. actuations	



主要零件材料 Major Parts Material Form

零件名称 Accessory name	阀体、阀盖 Valve body, valve covering	闸板 Floodgate board	阀杆 Valve stem	阀座 Valve seat	阀杆螺母 Valve stem nut	填料 Packing
"Z" 型 "Z" Type	WCB、铬钼钢	合金钢(焊硬质合金) Alloy steel	不锈钢 Stainless steel	合金钢(焊硬质合金) Alloy steel	铝青铜	聚四氟乙烯、氟橡胶 PTFE, fluorine rubber
"KZ" 型 "KZ" Type	WCB, Cr Mo steel	(weld the hard alloy)	抗硫不锈钢 Sulfur resisting stainless steel	(weld the hard alloy)	Aluminium bronze	



● 主要外形尺寸 Main Size of Outside

型号 Model: ZF43Y、ZF63Y、Z83Y

公称压力 Nominal pressure PN(MPa)	DN (mm)	尺寸 Dimensions(mm)				
		L ₁	L ₂	D ₀	H ₁	H
10.0 16.0	25	225	254	180	85	350
	32	260	260	220	98	380
	40	260	260	260	110	400
	50	300	300	310	120	450
	65	340	340	350	133	510
	80	380	380	400	158	580
	100	472	430	460	198	650
	125	500	500	460	240	750
	150	550	550	470	260	846
	200	650	650	600	358	1045
	250	775	775	650	415	1225
20.0 25.0	25	230	230	180	87	350
	32	260	260	220	100	380
	40	260	260	260	112	400
	50	300	300	310	122	450
	65	340	340	350	135	510
	80	380	380	400	160	580
	100	430	430	460	198	650
	125	500	500	460	240	750
	150	550	550	470	260	846
	200	650	650	600	358	1045
	250	775	775	600	415	1225
300	900	900	650	462	1425	

公称压力 Nominal pressure PN(MPa)	DN (mm)	尺寸 Dimensions(mm)				
		L ₁	L ₂	D ₀	H ₁	H
32.0 35.0	25	230	254	180	90	350
	32	260	279	220	103	380
	40	260	305	260	115	400
	50	300	368	310	125	450
	65	340	419	350	137	510
	80	380	470	400	164	580
	100	430	546	460	198	650
	125	500	673	460	240	750
	150	550	705	470	260	846
	200	650	832	600	358	1045
	250	991	991	650	415	1225
40.0 42.0	25	230	254	180	92	350
	32	260	279	220	105	380
	40	260	305	260	117	400
	50	300	368	310	127	450
	65	340	419	350	139	510
	80	380	470	400	166	580
	100	430	546	460	198	650
	125	500	673	460	240	750
	150	550	705	470	260	846
	200	650	832	600	358	1045
	250	991	991	650	415	1225
300	1130	1130	700	462	1425	

● 产品结构特点 Products Design Features

自动补偿平衡式双平板闸阀是一种结构新颖的闸阀产品，它具有启闭力矩小、速度快、振动小、使用寿命长、操作安全可靠等特点，主要用于气、液体输送管道的切断或泄放。

Auto compensation balanced double parallel gate valve is a product with new structure, which has small open-and-close moment, high speed, little vibration, long performance life and reliable operation, It is mainly applied to cut-off or discharge of gas and liquid delivery pipelines.

系列平行式双闸阀结构特点为：

The structural features include:

- 阀门采用两块互相平行的闸板及其楔紧装置组成的密封结构取代传统的楔式闸阀结构。

A sealing structure consists of two parallel shutters and a wedge-tightening device it is taken to replace the traditional wedge shaped gate valve structure;

- 阀门密封机构各零件互相分离，即使在温度变化时引起变形也仍能保证密封，且不会因高温膨胀而使闸板挤住打不开。

The components of valve sealing mechanism are separated so the sealing can retain when transmuting caused by the temperature changes, and will not jam where swelling in high temperature;

- 阀门密封采用耐磨、耐腐蚀材料制成，延长了阀门的使用寿命。

The sealing surface of the valve adopts abrasion-resistant and anti-corrosive materials which can lengthen the performance life of the valve;

- 在高温、高压情况下，进口一侧闸板设计为可泄压方式，防止由于温度变化而引起的腔内压力异常升高的现象，保证使用安全。

In high temperature or pressure, the disc on inlet side can be designed in pressure relief style which can avoid abnormal pressure rising in cavity caused by temperature changes, thus to ensure used safety.

- 全封闭结构，防护性能好，可全天候使用。

The valve adopts full-shut structure which has good protection function and can be used in all weather.

● 产品主要参数 Main Parameter of the Products

基本型号 Serial models	FY(K)Z44WH(Y)、FY(K)Z544WH(Y)、FY(K)Z644WH(Y)、FY(K)Z744WH(Y)、FY(K)Z944WH(Y)			
	FY(K)Z64WH(Y)、FY(K)Z564WH(Y)、FY(K)Z664WH(Y)、FY(K)Z764WH(Y)、FY(K)Z964WH(Y)			
压力等级范围 Pressure grade range	PN1.6 ~ 10.0MPa			Class150 ~ 600
通径范围 Drift diameter range	DN50 ~ 900mm			2" ~ 36"
驱动方式 Driving manner	手轮驱动 Hand wheel driving			齿轮动、气动、液动、电动 Gear driving, air-operating, hydrodynamic driving and electric driving
适用范围 Scope of application	Class150 ~ 300 (PN1.6 ~ 4.0)	Class400 (PN6.4)	Class600 (PN10.0)	4" ~ 36" (DN100 ~ 900mm)
	2" ~ 36" (DN50 ~ 900mm)	2" ~ 36" (DN50 ~ 900mm)	2" ~ 32" (DN50 ~ 800mm)	

注：本公司可根据用户要求提供产品。

Notes: Our company can provide products at customers'request.

● 产品性能规范 Products Performance Specification

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



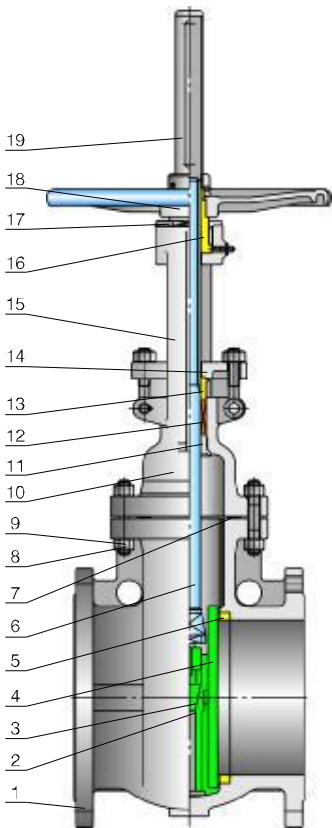
● 产品采用标准 Technical Specification

设计依据 Design reference		GB	API
设计标准 Design standard		JB/T5298 GB/T19672	API 6D ASME B16.34
结构长度 Structural length	法兰 Flanged	GB/T 12221 GB/T19672、JB/T 5298	API 6D ASME B16.10
	焊接 Welded connection	GB/T15188.1 GB/T19672	
连接法兰 Flanged ends		GB/T9113 JB/T 79	ASME B16.5 MSS SP44
对焊端 Butt-welding ends		GB/T 12224	ASME B16.25
试验和检验 Test & inspection		JB/T 9092	API 6D API 598

注：阀门连接法兰尺寸可根据用户要求设计制造。

Note: The sizes of valve connecting flange can be designed according to customers' requirement.

● 主要零件材料 Major Parts Material Form



序号 No.	零件名称 Accessory name	材料 Material			
		普通型 Ordinary type		抗硫型 Antisulphur type	
		GB	ASTM	GB	ASTM
1	阀体 Body	WCB	A216-WCB	WCB	A216-WCB
2	闸板架 Disc frame	WCB	A216-WCB	WCB	A216-WCB
3	楔块 Wedge block	WCB+STL	A216-WCB+STL	WCB+STL	A216-WCB+STL
4	闸板 Disc	25+STL	A105+STL	1Cr18Ni9+STL	A276-304+STL
5	阀座 Seat	25+STL	A105+STL	1Cr18Ni9+STL	A276-304+STL
6	阀杆 Stem	2Cr13	A276-410	1Cr18Ni9	A276-304
7	垫片 Gasket	柔性石墨+1Cr18Ni9 Graphite+1Cr18Ni9	柔性石墨+304 Graphite+304	柔性石墨+1Cr18Ni9 Graphite+1Cr18Ni9	柔性石墨+304 Graphite+304
8	螺柱 Stud	35CrMoA	A193-B7	35CrMoA	A193-B7
9	螺母 Nut	35	A194-2H	35	A194-2H
10	阀盖 Bonnet	WCB	A216-WCB	WCB	A216-WCB
11	上密封座 Back seat	1Cr13	A276-410	1Cr18Ni9	A276-304
12	填料 Packing	柔性石墨 Graphite			
13	填料压套 Packing press-sleeve	2Cr13	A276-420	2Cr13	A276-420
14	填料压盖 Packing gland	WCB	A276-WCB	WCB	A216-WCB
15	支架 Yoke	WCB	A216-WCB	WCB	A216-WCB
16	阀杆螺母 Stem nut	ZQA19-4	C95500	ZQA19-4	C95500
17	压盖 Gland	25	A105	25	A105
18	手轮 Hand wheel	QT400-17	A536-60-40-18	QT400-17	A536-60-40-18
19	指示罩 Indicating cover	25	A105	25	A105

注：阀门主要零部件材质可根据实际工况条件或用户特殊要求设计选用。

Notes: The major parts of the valves can be designed and selected according to actual work condition or customers' specific requirement.



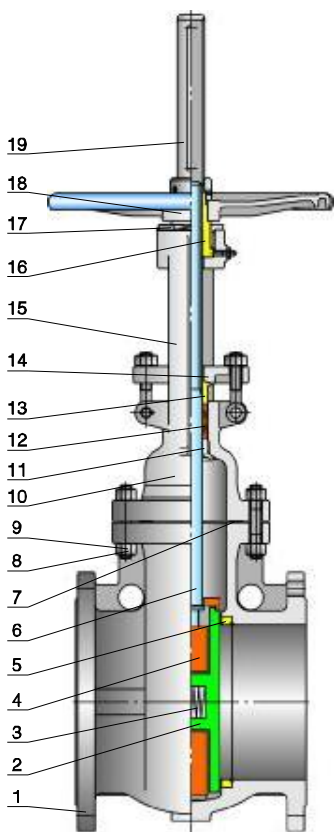
● 产品采用标准 Technical Specification

设计依据 Design reference		GB	API
设计标准 Design standard		JB/T5298 GB/T19672	API 6D ASME B16.34
结构长度 Structural length	法兰 Flanged	GB/T 12221 GB/T19672、JB/T 5298	API 6D ASME B16.10
	焊接 Welded connection	GB/T15188.1 GB/T19672	
连接法兰 Flanged ends		GB/T9113 JB/T 79	ASME B16.5 MSS SP44
对焊端 Butt-welding ends		GB/T 12224	ASME B16.25
试验和检验 Test & Inspection		JB/T 9092	API 6D API 598

注：阀门连接法兰尺寸可根据用户要求设计制造。

Note: The sizes of valve connecting flange can be designed according to customers' requirement.

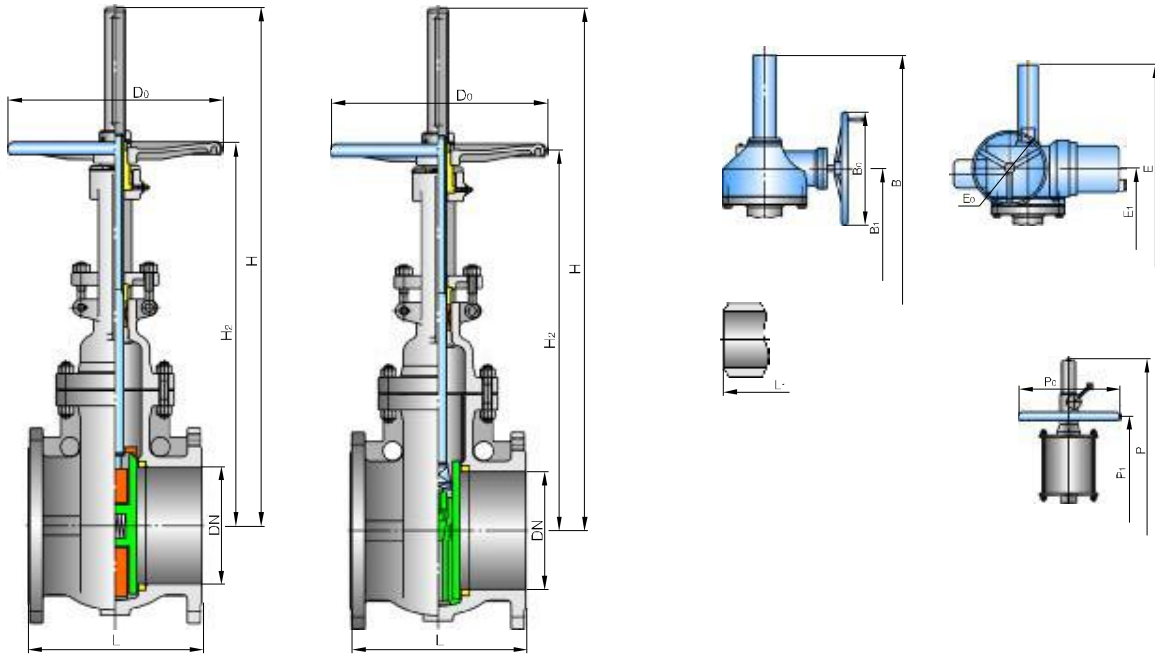
● 主要零件材料 Major Parts Material Form



序号 No.	零件名称 Accessory name	材料 Material			
		普通型 Ordinary type		抗硫型 Antisulphur type	
		GB	ASTM	GB	ASTM
1	阀体 Body	WCB	A216-WCB	WCB	A216-WCB
2	闸板 Disc	25+STL	A105+STL	1Cr18Ni9+STL	A276-304+STL
3	弹簧 Spring	Inconel X-750			
4	闸板架 Disc frame	WCB	A216-WCB	WCB	A216-WCB
5	阀座 Seat	25+STL	A105+STL	1Cr18Ni9+STL	A276-304+STL
6	阀杆 Stem	2Cr13	A276-410	1Cr18Ni9	A276-304
7	垫片 Gasket	柔性石墨+1Cr18Ni9 Graphite+1Cr18Ni9	柔性石墨+304 Graphite+304	柔性石墨+1Cr18Ni9 Graphite+1Cr18Ni9	柔性石墨+304 Graphite+304
8	螺柱 Stud	35CrMoA	A193-B7	35CrMoA	A193-B7
9	螺母 Nut	35	A194-2H	35	A194-2H
10	阀盖 Bonnet	WCB	A216-WCB	WCB	A216-WCB
11	上密封座 Back seat	1Cr13	A276-410	1Cr18Ni9	A276-304
12	填料 Packing	柔性石墨 Graphite			
13	填料压套 Packing press-sleeve	2Cr13	A276-420	2Cr13	A276-420
14	填料压盖 Packing gland	WCB	A276-WCB	WCB	A216-WCB
15	支架 Yoke	WCB	A216-WCB	WCB	A216-WCB
16	阀杆螺母 Stem nut	ZQA19-4	C95500	ZQA19-4	C95500
17	压盖 Gland	25	A105	25	A105
18	手轮 Hand wheel	QT400-17	A536-60-40-18	QT400-17	A536-60-40-18
19	指示罩 Indicating cover	25	A105	25	A105

注：阀门主要零部件材质可根据实际工况条件或用户特殊要求设计选用。

Notes: The major parts of the valves can be designed and selected according to actual work condition or customers' specific requirement.



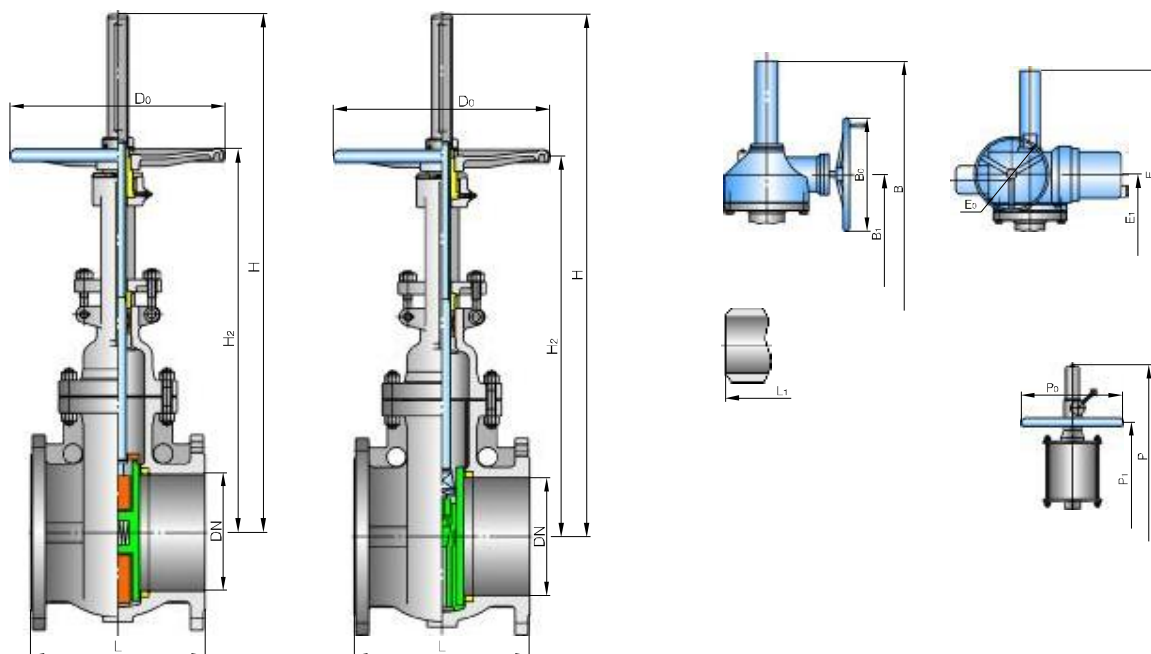
● 主要外形尺寸 Main Size of Outside

型号 Model: (K)Z5(6, 9)4(6)4W(F, Y, D)

PN1.6、2.5MPa PN2.0MPa

API 6D Class150

DN (mm)	NPS (in)	法兰 Flange		对焊 Butt welding L ₁	手 动 Hand-operated			齿 动 Geared driving			齿动装置 Geared driving	气动 液动 Air-operating and Fluid driving			电 动 Electric driving device			电动装置 Electric driving device
		GB	API		H	H ₂	D ₀	B	B ₁	B ₀		P	P ₁	P ₀	E	E ₁	E ₀	
50	2	250	178	216	475	360	250	-	-	-	-	-	-	-	690	572	200	SMC-04
65	2 1/2	280	190	241	535	425	300	-	-	-	-	-	-	-	747	637	200	SMC-04
80	3	310	203	283	600	460	300	-	-	-	-	1075	820	250	812	672	200	SMC-04
100	4	350	229	305	700	535	350	-	-	-	-	1240	945	250	960	795	508	SMC-03
150	6	450	267	403	910	685	350	-	-	-	-	1400	1065	300	1170	945	508	SMC-03
200	8	550	292	419	1095	815	350	1235	900	310	BA-0	1595	1210	300	1355	1075	508	SMC-03
250	10	650	330	457	1370	965	450	1510	1050	310	BA-0	1800	1370	350	1630	1095	305	SMC-00
300	12	750	356	502	1470	1100	500	1610	1185	310	BA-0	2090	1590	350	1730	1230	305	SMC-00
350	14	850	381	572	1730	1250	600	1890	1345	460	BA-1	2420	1845	350	2020	1417	305	SMC-00
400	16	950	406	610	1870	1375	650	2030	1470	460	BA-1	2615	1995	400	2160	1532	305	SMC-00
450	18	1050	432	660	2185	1485	700	2415	1625	460	BA-2	2895	2205	500	2500	1651	305	SMC-1
500	20	1150	457	711	2335	1575	800	2565	1715	460	BA-2	3160	2405	600	2650	1741	305	SMC-1
600	24	1350	508	813	2815	1995	1000	3045	2135	460	BA-2	3885	2955	650	3130	2161	457	SMC-2
700	28	1450	610	914	-	-	-	-	-	-	-	4065	3090	700	3630	2470	457	SMC-2
800	32	1650	660	965	-	-	-	-	-	-	-	-	-	-	4135	2933	610	SMC-3
900	36	1880	813	1016	-	-	-	-	-	-	-	+	+	+	4605	3260	610	SMC-3



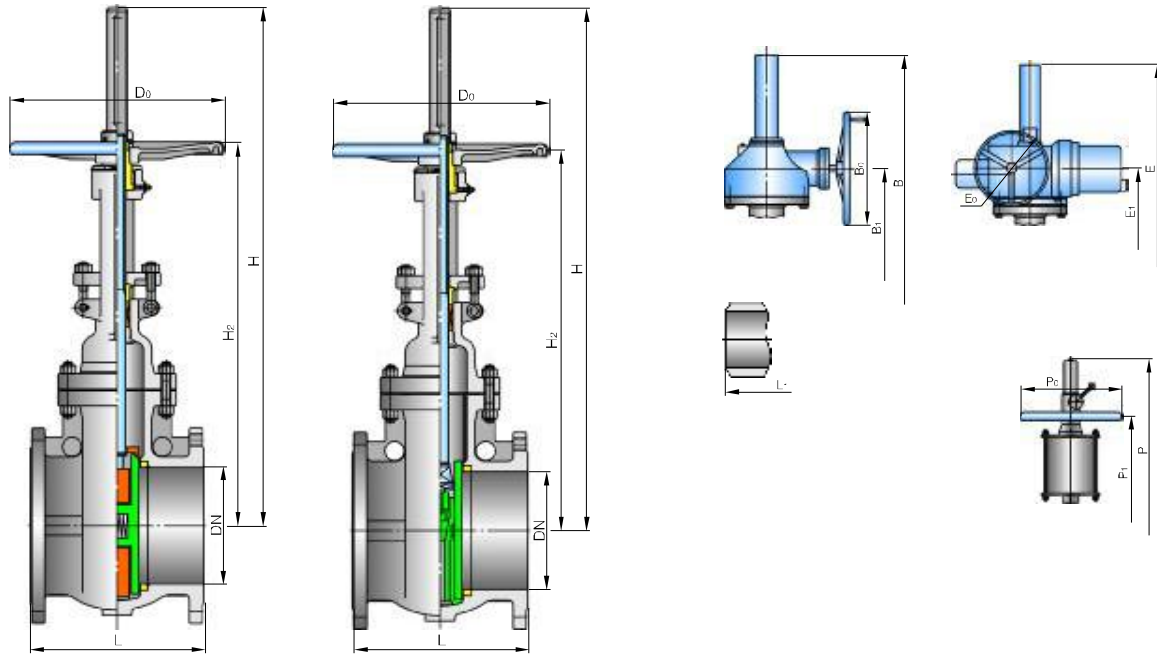
● 主要外形尺寸 Main Size of Outside

型号 Model: (K)Z5(6、9)4(6)4W(F、Y、D)

PN4.0MPa PN5.0MPa

API 6D Class300

DN (mm)	NPS (in)	法兰 Flange		对焊 Built welding L ₁	手 动 Hand-operated			齿 动 Geared driving			齿动装置 Geared driving	气动 液动 Air-operating and Fluid driving			电 动 Electric driving device			电动装置 Electric driving device
		L			H	H ₂	D ₀	B	B ₁	B ₀		P	P ₁	P ₀	E	E ₁	E ₀	
		GB	API															
50	2	250	216	216	475	360	250	-	-	-	-	-	-	-	690	572	200	SMC-04
65	2 1/2	280	241	241	535	425	300	-	-	-	-	-	-	-	747	637	200	SMC-04
80	3	310	283	283	600	460	300	-	-	-	-	1075	820	250	860	720	500	SMC-03
100	4	350	305	305	700	535	350	-	-	-	-	1240	945	250	960	795	500	SMC-03
150	6	450	403	403	910	685	350	-	-	-	-	1400	1065	300	1170	945	500	SMC-03
200	8	550	419	419	1095	815	350	1235	900	310	BA-0	1595	1210	300	1355	945	305	SMC-00
250	10	650	457	457	1370	965	450	1510	1050	310	BA-0	1800	1370	350	1630	1095	305	SMC-00
300	12	750	502	502	1470	1100	500	1610	1185	310	BA-0	2090	1590	350	1760	1257	305	SMC-0
350	14	850	762	762	1730	1250	600	1890	1345	460	BA-1	2420	1845	350	2020	1407	305	SMC-0
400	16	950	838	838	1870	1375	650	2030	1470	460	BA-1	2615	1995	400	2185	1541	305	SMC-1
450	18	1050	914	914	2185	1485	700	2415	1625	460	BA-2	2895	2205	500	2500	1651	305	SMC-1
500	20	1150	991	991	2335	1575	800	2565	1715	460	BA-2	3160	2405	600	2695	1757	457	SMC-2
600	24	1350	1143	1143	2815	1995	1000	3045	2135	460	BA-2	3885	2955	650	3175	2177	457	SMC-2
700	28	1450	1346	1346	-	-	-	-	-	-	-	4065	3090	700	3670	2606	610	SMC-3
800	32	1650	1524	1524	-	-	-	-	-	-	-	-	-	-	4136	2933	610	SMC-3
900	36	1880	1727	1727	-	-	-	-	-	-	-	+	+	+	4673	3317	610	SMC-4

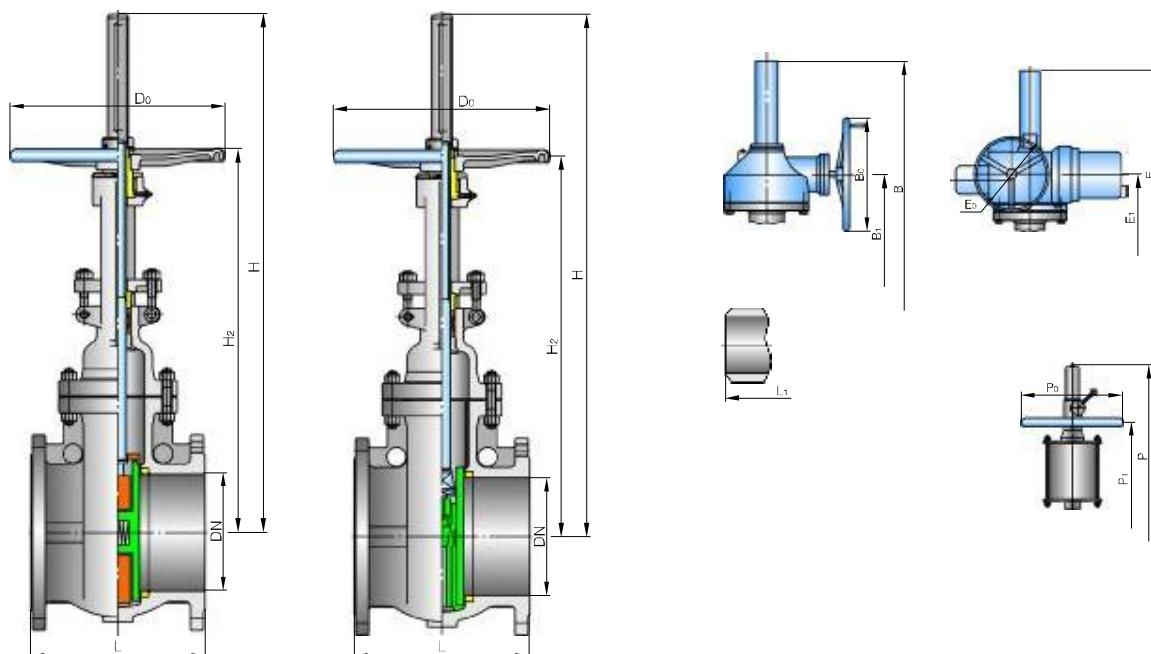


● 主要外形尺寸 Main Size of Outside

型号 Model: (K)Z5(6, 9)4(6)4W(F, Y, D)

PN6.4MPa

DN (mm)	NPS (in)	法兰 Flange		手动 Hand-operated			齿动 Geared driving			齿动装置 Geared driving	气动 液动 Air-operating and Fluid driving			电 动 Electric driving device			电动装置 Electric driving device
		L	L ₁	H	H ₂	D ₀	B	B ₁	B ₀		P	P ₁	P ₀	E	E ₁	E ₀	
50	2	250	292	499	378	250	-	-	-	-	-	-	-	723	601	200	SMC-04
65	2 1/2	280	330	562	446	300	-	-	-	-	-	-	-	785	670	200	SMC-04
80	3	310	356	630	483	300	-	-	-	-	1130	861	250	902	756	508	SMC-03
100	4	350	406	735	562	350	-	-	-	-	1302	992	250	1007	838	508	SMC-03
150	6	450	495	956	720	350	1096	805	305	BA-0	1470	1118	300	1216	848	305	SMC-00
200	8	550	597	1150	856	400	1290	941	305	BA-0	1675	1271	300	1440	1013	305	SMC-0
250	10	650	673	1439	1013	500	1580	1098	305	BA-0	1890	1440	350	1728	1170	305	SMC-0
300	12	750	762	1545	1155	600	1705	1250	458	BA-1	2195	1670	350	1833	1312	305	SMC-0
350	14	850	826	1817	1313	650	1977	1408	458	BA-1	2542	1937	350	2131	1480	305	SMC-1
400	16	950	902	1965	1445	700	2125	1540	458	BA-1	2746	2095	400	2278	1610	305	SMC-1
450	18	1050	978	2295	1560	800	2525	1700	458	BA-2	3040	2315	500	2655	1741	457	SMC-2
500	20	1150	1054	2452	1655	1000	2682	1795	458	BA-2	3318	2525	600	2812	1836	610	SMC-3
600	24	1350	1232	-	-	-	3186	2235	458	BA-2	4080	3103	650	3356	2413	610	SMC-3
700	28	1450	1397	-	-	-	-	-	-	-	4268	3245	700	3902	2777	610	SMC-4
800	32	1650	1651	-	-	-	-	-	-	-	-	-	-	4393	3121	610	SMC-4
900	36	1880	1880	-	-	-	-	-	-	-	-	-	-	4863	3428	760	SMC-5

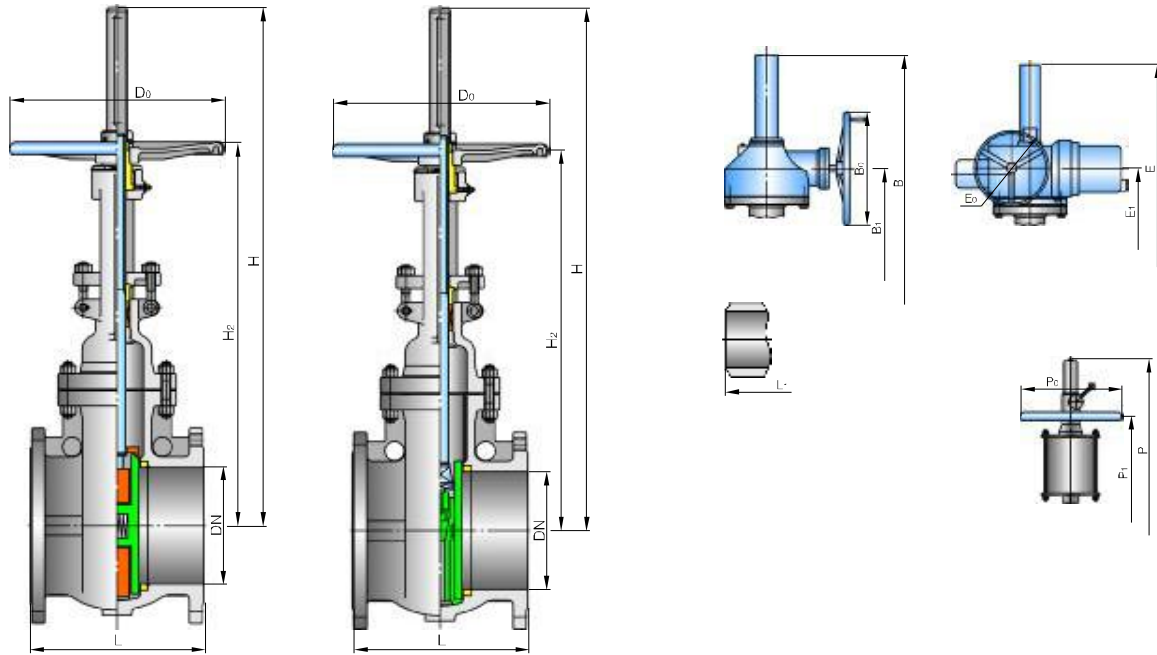


● 主要外形尺寸 Main Size of Outside

型号 Model: (K)Z5(6, 9)4(6)4W(F, Y, D)

API 6D Class400

DN (mm)	NPS (in)	法兰 Flange		手动 Hand-operated			齿动 Geared driving			齿动装置 Geared driving	气动 液动 Air-operating and Fluid driving			电 动 Electric driving device			电动装置 Electric driving device
		L	L ₁	H	H ₂	D ₀	B	B ₁	B ₀		P	P ₁	P ₀	E	E ₁	E ₀	
50	2	292	292	499	378	250	-	-	-	-	-	-	723	601	200	SMC-04	
65	2 1/2	330	330	562	446	300	-	-	-	-	-	-	785	670	200	SMC-04	
80	3	356	356	630	483	300	-	-	-	-	1130	861	250	902	756	508	SMC-03
100	4	406	406	735	562	350	-	-	-	-	1302	992	250	1007	838	508	SMC-03
150	6	495	495	956	720	350	1096	805	305	BA-0	1470	1118	300	1216	848	305	SMC-00
200	8	597	597	1150	856	400	1290	941	305	BA-0	1675	1271	300	1440	1013	305	SMC-0
250	10	673	673	1439	1013	500	1580	1098	305	BA-0	1890	1440	350	1728	1170	305	SMC-0
300	12	762	762	1545	1155	600	1705	1250	458	BA-1	2195	1670	350	1833	1312	305	SMC-0
350	14	826	826	1817	1313	650	1977	1408	458	BA-1	2542	1937	350	2131	1480	305	SMC-1
400	16	902	902	1965	1445	700	2125	1540	458	BA-1	2746	2095	400	2278	1610	305	SMC-1
450	18	978	978	2295	1560	800	2525	1700	458	BA-2	3040	2315	500	2655	1741	457	SMC-2
500	20	1054	1054	2452	1655	1000	2682	1795	458	BA-2	3318	2525	600	2812	1836	610	SMC-3
600	24	1232	1232	-	-	-	3186	2235	458	BA-2	4080	3103	650	3356	2413	610	SMC-3
700	28	1397	1397	-	-	-	-	-	-	-	4268	3245	700	3902	2777	610	SMC-4
800	32	1650	1650	-	-	-	-	-	-	-	-	-	-	4393	3121	610	SMC-4
900	36	1880	1880	-	-	-	-	-	-	-	-	-	-	4863	3428	760	SMC-5



● 主要外形尺寸 Main Size of Outside

型号 Model: (K)Z5(6, 9)4(6)4W(F, Y, D)

PN10.0MPa

API 6D Class600

DN (mm)	NPS (in)	法兰 Flange	对焊 Butt welding	手 动 Hand-operated			齿 动 Geared driving			齿动装置 Geared driving	气动 液动 Air-operating and Fluid driving			电 动 Electric driving device			电动装置 Electric driving device
		L	L ₁	H	H ₂	D ₀	B	B ₁	B ₀		P	P ₁	P ₀	E	E ₁	E ₀	
50	2	292	292	499	378	300	-	-	-	-	-	-	-	723	600	200	SMC-04
65	2½	330	330	562	446	350	-	-	-	-	-	-	-	821	705	508	SMC-03
80	3	356	356	630	483	350	-	-	-	-	1130	861	250	890	742	508	SMC-03
100	4	432	432	735	562	400	-	-	-	-	1302	992	250	995	690	305	SMC-00
150	6	559	559	956	720	500	1096	805	305	BA-0	1470	1118	300	1245	876	305	SMC-0
200	8	660	660	1150	856	600	1290	941	305	BA-0	1675	1271	300	1440	1013	305	SMC-0
250	10	787	787	1439	1013	650	1580	1098	458	BA-1	1890	1440	350	1753	1199	305	SMC-1
300	12	838	838	1545	1155	700	1705	1250	458	BA-1	2195	1670	350	1858	1321	305	SMC-1
350	14	889	889	1817	1313	800	1977	1408	458	BA-1	2542	1937	350	2177	1495	457	SMC-2
400	16	991	991	1965	1445	1000	2125	1540	458	BA-2	2746	2095	400	2365	1762	610	SMC-3
450	18	1092	1092	-	-	-	2525	1700	458	BA-2	3040	2315	500	2695	1877	610	SMC-3
500	20	1194	1194	-	-	-	2682	1795	458	BA-2	3318	2525	600	2922	2030	610	SMC-4
600	24	1397	1397	-	-	-	-	-	-	-	4080	3103	650	3426	2470	610	SMC-4
700	28	1549	1549	-	-	-	-	-	-	-	4268	3245	700	3983	2835	760	SMC-5
800	32	1778	1778	-	-	-	-	-	-	-	-	-	-	4485	3186	760	SMC-5