

GATE VALVE SERIES

闸阀系列



Industrial Piping System
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企业简介

Brief Introduction

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诚信立业、追求卓越
Setting Up Business
In Good Faith, Seeking
For Excellence

中国·九通集团有限公司是集研发、制造、销售各种阀门为一体的大型综合性阀门企业。是中国阀门协会会员，国家电力公司电站配件供应网络成员，中国工程建设推荐产品单位。公司先后通过了ISO9001(DNV)、环境管理ISO14001、职业健康安全OHSAS18001、美国石油协会API-6D认证、欧盟安全CE认证、压力管道安全注册TS认证。

公司总部占地62800平方米，建筑面积43960平方米，现有员工200多人，其中高级工程师16人，中级技术人员56名。公司依托国外先进的技术支持和高效的管理，为生产高品质的产品提供了强有力的保证。投资兴建的工业园内建有热模锻、精密铸造、焊接、热处理、机械加工、装配等车间；拥有数控加工中心、等离子焊接机、超频真空热处理设备、车球专用数控、高效加工专机、理化和探伤设备、无损探伤检测中心等各类加工检测设备300多套，设备配置齐全、加工检测手段完备。公司建立有CAD阀门设计中心，三维立体模拟制造实验设计系统、公司设备完备的质保系统，按照ISO9000的管理标准，从原材料进厂的产品出厂，实行道工序层层把关，确保产品质量。

公司产品按国际ISO、美国API、ANSI、英国BS、德国DIN、法国NF、日本JIS、JPI、及GB、JB标准组织生产，阀门主要

产品有电站阀、闸阀、截止阀、止回阀、球阀、蝶阀、水力控制阀、锻钢阀、疏水阀、船用阀门、机械铸造、机械锻造、试验及检验设备等；压力级：Class150-class4500，PN10-PN420；口径范围：NPS1/2-NPS80，DN10-DN3000；驱动方式：手动、齿轮传动、气动、电动、气液联动等；连接方式：法兰连接、对焊连接、承插连接、对夹连接、螺纹连接、卡套连接等；主要材料（铸件）：WCB、WCC、LCB、LCC、LC1、LC2、LC3、CF8、CF3、CF8M、CF3M、CF8C、CN7M、CA15、C5、WC5、WC6、WC9等；主要材料（锻件）：A105、LF1、LF2、F304、F304L、F316、F316L、F11、F22、F6、F51、F316H、F321、F347等。并根据客户特殊要求进行冶炼和制造。多年来为电力、石油、化工、化肥、冶金、制药等行业引进装置进行阀门配置，产品畅销2000多家大中型企业，并致力开拓国际市场，已出口阀门数万（台）套，远销欧美、中东、东南亚等十多个国际和地区，得到用户的广泛赞誉和信赖。

展望未来，我们将与时俱进，锐意创新，时刻满怀创业的豪情和无限憧憬，昂首阔步，纵横千里，实行着又一个新的跨越。同时竭诚期待各界销售精英加盟，共建九通经销商网络，我们将以最优性价比的产品和服务，最富竞争的商务政策、回馈销售网络，与经销商朋友共谋发展，共赢未来。

China Jiutong Group Corporation is a large-scale comprehensive enterprise integrating R&D, manufacturing and sales of various valve, and one of the members of China Valve Association, State Power Corporation Power Station Accessories Supply Network and the recommending products list of Chinese engineering construction. It has passed successively the following certifications like ISO9001(DNV), Environmental Management ISO14001 and Occupational Health and Safety OHSAS18001, API-6D, CE and TS for Pressure Pipeline Safety Registration.

The corporation covers an area of 62800 sq.m, and a floorage of 43960 sq.m with a staff of more than 200 involving 16 senior engineers and 56 middle-grade technicians. A powerful assurance is offered to produce high quality products based upon foreign advanced technical support and high efficient management, the industry park invested has constructed the workshops of hot-press forging, precision casting, welding, heat treatment, mechanical processing, assembling and so on and has complete equipments and testing measures in possession of over 300 sets of various processing and testing equipments like CNC processing center, plasma welding machine, ultra-frequency vacuum heat treatment machine, ball-purpose CNC and efficient processor, physical & chemical detection machine, nondestructive inspection machine and so on. It has established CAD valve design center, three-dimensional Analogue manufacturing experimental design system and complete quality control system with armed equipments. The quality of products is guaranteed in each work procedure from the entrance of raw materials to the delivery of products in accordance with the standards of ISO9000.

The products, produced in accordance with ISO, API, ANSI, BS, DIN, NF, JIS, JPI, GB and JB, include power station valve,

gate valve, globe valve, check valve, ball valve, butterfly valve, hydraulic valve, forged steel valve, drainage valve, boat-purpose valve, mechanical forging, mechanical casting, testing and examination equipments etc., under the pressure classes from Class150 to class 4500 (PN10-PN420), the diameter ranging from NPS 1/2 to NPS80 (DN10-DN3000), they are driven by the modes of manually, gears, pneumatically, electrically, pneumatically-hydraulically and the connection modes like flange, butt-welding, socket, wafer, threads, sleeve and so on, and made of the following materials (casting parts): WCB, WCC, LCB, LCC, LC1, LC2, LC3, CF8, CF3, CF8M, CF3M, CF8C, CN7M, CA15, C5, WC5, WC6, WC9 and so on, and main materials (forging parts): A105, LF1, LF2, F304, F304L, 316, F316L, F11, F22, F6, F51, F316H, F321, F347 and so on, furthermore, the products can be melt and manufactured as per special requirements of clients, which are used to configure the valves of the introducing device in the fields like power supply, petroleum, chemicals, fertilizer, metallurgy and pharmacy, and are well sold to more than 2000 large and middle-scale enterprises and strive for exploiting international markets by exporting ten thousands of valves to ten odd nations and regions including Western countries, Middle East and Southeast Asia, and are widely trusted and appraised by clients.

Looking forward to the future, we will keep pace to the times and innovation, take a leap of new summit with full ambition and expectation of enterprising, moreover, we are sincerely looking forward to the joining of sales elite in various cycles to commonly develop dealer network of Jiutong, we will commonly make development and win-win policies with friends of dealers on the basis of products and service of best cost performance and most competitive business policies and the feedback of sales network.

品质保障 Quality Guarantee

品质，是核心理念！

我们将品质融入企业运行的每一环节，赋予现实的表现。

品质之路，积跬步，至千里，济天下，

立志成为值得人们信赖的阀门品牌企业。

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Quality, the Kernel Concept.

We have inoculated the quality into each step of enterprise management, not a slogan only.

The way of quality development, is accumulated step by step, then it can glow up long time,

win the world market.

We aspired to become the reliable brand of valve appliances.

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我们珍惜用多年汗水铸造的品牌，珍惜每一份来之不易的荣誉。面对掌声我们没有眷恋徘徊，也不曾犹豫不决，我们把它化作前进的动力，一步一脚印、不断锐意进取、超越自我……
We cherish the brand casted by sweat and every hard-earned honor. Facing applause, We never wandered and hesitated. We turn it into the power pushing us forward step by step……

完善的检测保障系统 Completed Inspection Guarantee System



生产装备 Production Equipment

我们拥有先进的生产装备，运用崭新的管理概念及强大的专业技术力量，生产出符合国际标准的高品质产品。

We Own Advanced Producing Equipment ,make Sure Of Completely New Managing Concept An Strong Professional Technology Force To Produce High Quality Products That Confirm With International Standard.

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先进的加工设备，可靠的质量保证。一流的检测设备，一丝不苟的检测手段，确保产品的稳定和可靠。细致是监测产品质量的保证。不让质量问题损害我们的品牌是我们的宗旨。有序的生产程序，有效的工作效率是取胜于一切的必要基础。

Advanced processing equipment, reliable quality guaranty best checking equipment, earnest checking measures, making sure of the steadiness and reliane of our products. Meticulous monitoring is the assurance of product quality. We never allow quality defect injuring our brand. Orderly production process and effective working efficiency is quitecrucial for making success.

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产品目录

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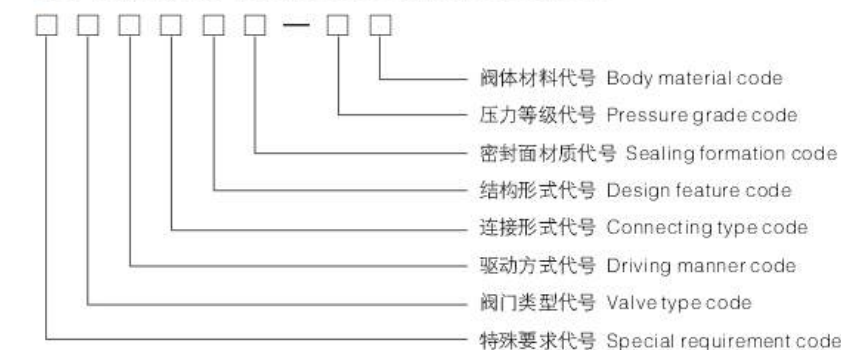
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闸阀 Gate Valve



● 型号编制说明 Model schedule illustration



特殊要求代号: 体、盖栓接结构(默认) Hs—体、盖焊接结构 Ps—压力密封结构 D—低温阀门 B—波纹管阀门 E—阀体延长端阀门
Special requirement code: Body, bonnet bolt-jointed structure (default) Hs—body, bonnet welded structure
Ps—pressure sealed structure D—low temperature valve B—bellows valve E—body extended-end valve

阀门类型代号: Z—闸阀
Valve type code: Z—Gate valve

驱动方式代号: 4—正齿轮传动 5—伞齿轮传动 6—气动 6s—气动带手动 7—液动 9—电动(手轮传动略) 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: 1—内螺纹 2—外螺纹 4—法兰 6—焊接 8—承插焊
Connecting type code: 1—Interior whorl 2—Other whorl 4—Flange 6—Welding 8—Bear and insert welding

结构形式代号: 1—单闸板 2—双闸板
Design feature code: 1—Single-disc 4—Double-disc

密封面材质代号: Y—硬质合金 H—合金钢
Sealing formation code: Y—Hard alloy H—Alloy steel

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

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

● 产品结构特点 Products design features

法兰连接铸钢闸阀适用于公称压力PN1.6~42.0MPa(Class150~4500), 工作温度≤600℃的石油、化工、火力电站等各种工况的管路上, 切断或接通管路介质。

Flanged ends cast steel gate valve are used to cut or connect the pipe media under nominal pressure between PN1.6~42.0MPa(Class150~4500), working temperatures ≤600℃. in oil industry, chemical industry, fossil-fired power plants.

其主要结构特点有 The main structure features include:

- 设计制造严格GB/T12234, API600, API602标准。产品结构合理、密封可靠、性能优良、造型美观。
Both design and manufacture are carried out strictly following GB/T12234, API600 and API602. The products feature a reasonable structure, reliable seal, good performance and nice modeling.
- 密封面堆焊Co基硬质合金, 耐磨、耐蚀、抗擦伤性能好, 使用寿命长。
Co hard alloy welded sealing surface, which is wearing resistant, erosion proof, abrasion proof and long-lived.

3、阀杆经调质及表面氮化处理，有良好的抗腐蚀性及抗擦伤性。

The surface and the adjusting media of the valve shaft are nitrogenized so that it is erosion and abrasion resistant.

4、公称压力 $\geq 15.0\text{MPa}$ (Class900)中腔采用自紧密封式结构，密封性能随压力升高而增强，保证了密封性能。

$\text{PN}\geq 15.0\text{Mpa}$ (class900), the middle cavity uses a self-tightening sealing structure to have the sealing performance reinforced along with the pressure rise so as to ensure the sealing performance.

5、阀门设有倒密封结构，密封可靠。

There is no backward sealing structure in the valve, so the sealing is reliable.

6、零件材质及法兰、对焊端尺寸可根据实际工况或用户要求合理选配，满足各种工程需要。

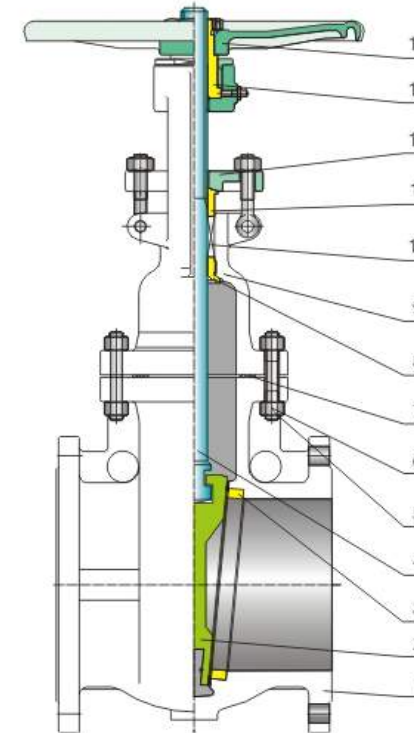
The material of the filling and the flange size can be chosen and matched according to the applications and the requirements of the user's. That can satisfies all kinds of working requirements.

● 产品主要参数 Main parameter of the products

基本型号 Serial models	(Hs, Ps)Z11H, (Hs, Ps)Z11Y, (Ps)Z41H, (Ps)Z41Y, (Ps)Z441H, (Ps)Z441Y, (Ps)Z541H, (Ps)Z541Y, (Ps)Z941H, (Ps)Z941Y		
压力等级范围 Pressure grade range	PN1.6~42.0MPa (Class150~4500)		
口径范围 Drift diameter range	DN15~1000mm(1"~40")		
驱动方式 Driving manner	手轮驱动 Hand wheel driving		齿轮驱动、电动 Gear driving and electric driving
适用范围 Scope of application	Class150~300 (PN1.6~4.0)	Class400~600 (PN6.4~10.0)	Class900~2500 (PN15.0~42.0)
	1/2"~24" (DN15~600mm)	1/2"~12" (DN15~300mm)	1/2"~10" (DN15~250mm)

● 产品性能规范 Products performance specification

压力等级 Pressure	常温试验压力(MPa) Testing pressure at constant temperature (Mpa)			适用温度 Applicable temperature	适用介质 Applicable medium
	壳体试验 The shell testing	密封试验 Seal and test	上密封试验 Have and seal testing		
公称压力 (MPa) Nominal rating pressure (PN)	1.6	2.4	1.76	-196~600℃	水、油品、蒸汽等 Water, oil, steam, etc.
	2.5	3.8	2.75		
	4.0	6.0	4.4		
	6.4	9.6	7.04		
	10.0	15.0	11.0		
	16.0	24.0	17.6		
	25.0	37.5	27.5		
磅级(Lb) Pound grade (Class)	150	3.0	2.2		
	300	7.5	5.5		
	600	15.0	11.0		
	900	22.5	16.5		
	1500	37.5	27.5		
	2500	63.0	46.2		



● 产品采用标准 Technical specification

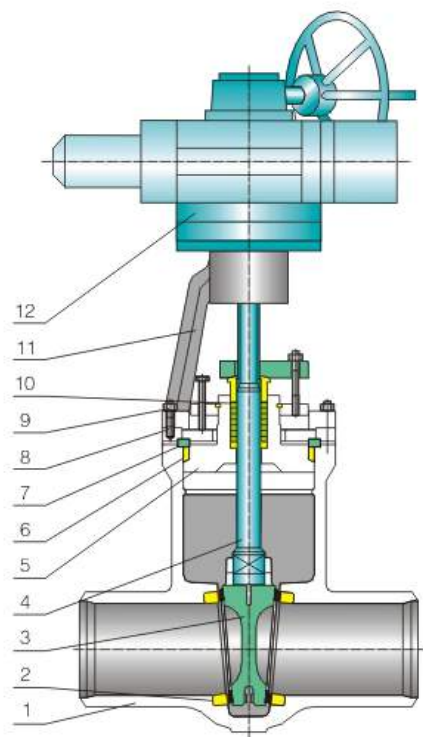
结构形式 Structural formation	栓接阀盖明杆支架结构 Bolt-jointed bonnet outside stem yoke structure
驱动方式 Driving manner	手动、齿轮驱动、电动 Hand-operated, Gear-operated and Electric-driving
设计标准 Design standard	API600, API6D
结构长度 Face to face	ASME B16.10
连接法兰 Flanged ends	ASME B16.15
试验和检验 Test & inspection	API 598

注：阀门连接法兰及对焊端尺寸可根据用户要求设计制造。

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

● 主要零件材料 Major parts material form

序号 No.	零件名称 Part name	材质 Material
1	阀体 Body	ASTM A216-WCB, ASTM A217-WC1, WC6, WC9, C5, ASTM A351-CF8, CF8M, CF8C, CF3, CF3M
2	闸板 Gate disc	ASTM A216-WCB, ASTM A217-WC1, WC6, WC9, C5, ASTM A351-CF8, CF8M, CF8C, CF3, CF3M
3	阀座 Seat	ASTM A105, ASTM A182-F11, F22, F5, F9
4	阀杆 Stem	ASTM A182Gr.F6a, ASTM A182F22, ASTM A182-F304, F316, F321, F304L, F316L
5	双头螺栓 Stud	ASTM A193-B7, A320-B8, A193-B8M
6	六角螺母 Six angle nuts	ASTM A194-2H, A194-8, A194-8M
7	垫片 Gasket	柔性石墨+不锈钢 Graphite & stainless steel
8	上密封座 Back seat	ASTM A182Gr.F6a, ASTM A182F22, ASTM A182-F304, F316, F321, F304L, F316L
9	阀盖 Bonnet	ASTM A216-WCB, ASTM A217-WC1, WC6, WC9, C5, ASTM A351-CF8, CF8M, CF8C, CF3, CF3M
10	填料 Packing	柔性石墨 Graphite
11	填料压套 Packing press-sleeve	ASTM A182Gr.F6a, ASTM CHI A182-F304, F316, F321, F304L, F316L
12	填料压盖 Packing gland	ASTM A216-WCB, ASTM A351-CF8, CF8M, CF8C, CF3, CF3M
13	阀杆螺母 Valve stem nut	铜合金 Copper alloy
14	手轮 Handwheel	ASTM A47-32510



● 产品采用标准 Technical specification

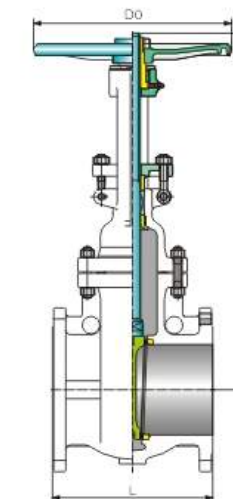
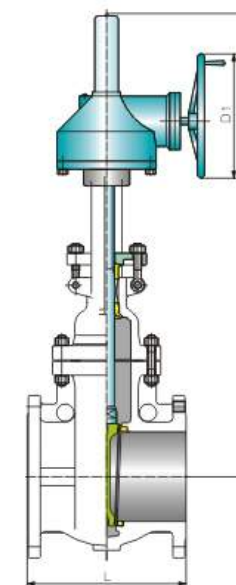
结构形式 Structural formation	压力密封阀盖明杆支架结构 Pressure sealed bonnet outside stem yoke structure
驱动方式 Driving manner	手动、齿轮动、电动 Hand-operated, Gear-operated and Electric-driving
设计标准 Design standard	API600、API6D
结构长度 Face to face	ASME B16.10
连接法兰 Flanged ends	ASME B16.15
试验和检验 Test & inspection	API 598

注：阀门连接法兰及对焊端尺寸可根据用户要求设计制造。

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

● 主要零件材料 Major parts material form

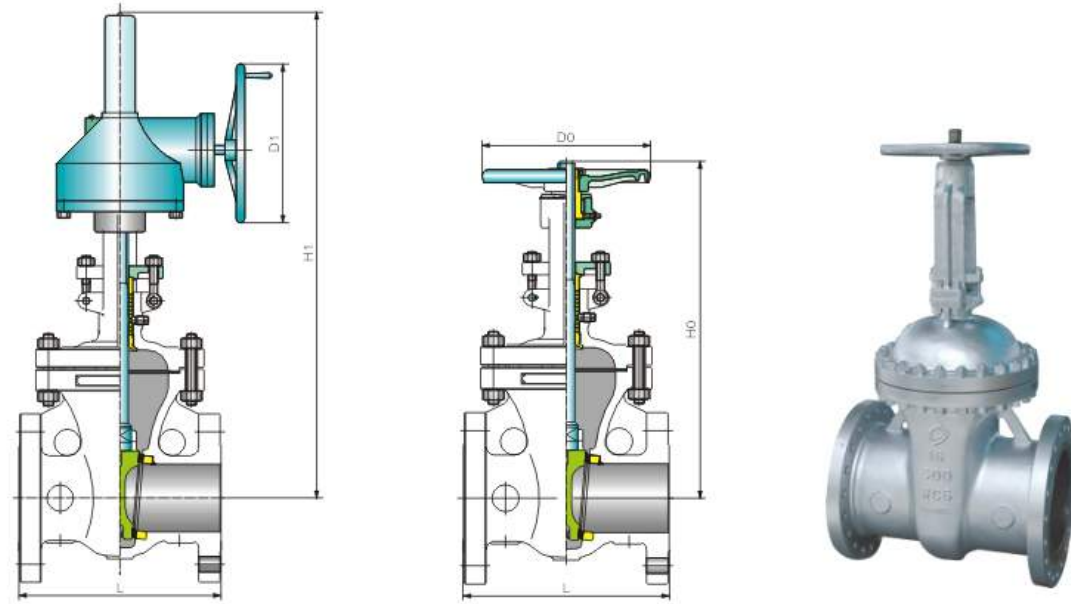
序号 No.	零件名称 Part name	材质 Material
1	阀体 Body	ASTM A216-WCB ASTM A217-WC1、WC6、WC9、C5 ASTM A351-CF8、CF8M、CF8C、CF3、CF3M
2	阀座 Seat	ASTM A105 ASTM A182-F11、F22、F5、F9
3	闸板 Gate disc	ASTM A216-WCB ASTM A217-WC1、WC6、WC9、C5 ASTM A351-CF8、CF8M、CF8C、CF3、CF3M
4	阀杆 Stem	ASTM A182GrF6a、ASTM A182F22 ASTM A182-F304、F316、F321、F304L、F316L
5	阀盖 Bonnet	ASTM A216-WCB ASTM A217-WC1、WC6、WC9、C5 ASTM A351-CF8、CF8M、CF8C、CF3、CF3M
6	密封圈 Seal ring	柔性石墨 Graphite
7	四合环 Tetracyclic ring	ASTM A182Gr.F6a、ASTM A182F22
8	双头螺栓 Stud	ASTM A193-B7、A320-B8、A193-B8M
9	六角螺母 Six angle nuts	ASTM A194-2H、A194-8、A194-8M
10	填料 Packing	柔性石墨 Graphite
11	支架 Yoke	ASTM A216-WCB ASTM A351-CF8、CF8M、CF8C、CF3、CF3M
12	驱动装置 Driving device	电动 Electric driving



● 主要外形尺寸及重量 Main size of outside & weight

型号 Model: Z41H、Z41Y、Z541H、Z541Y、Z941H、Z941Y

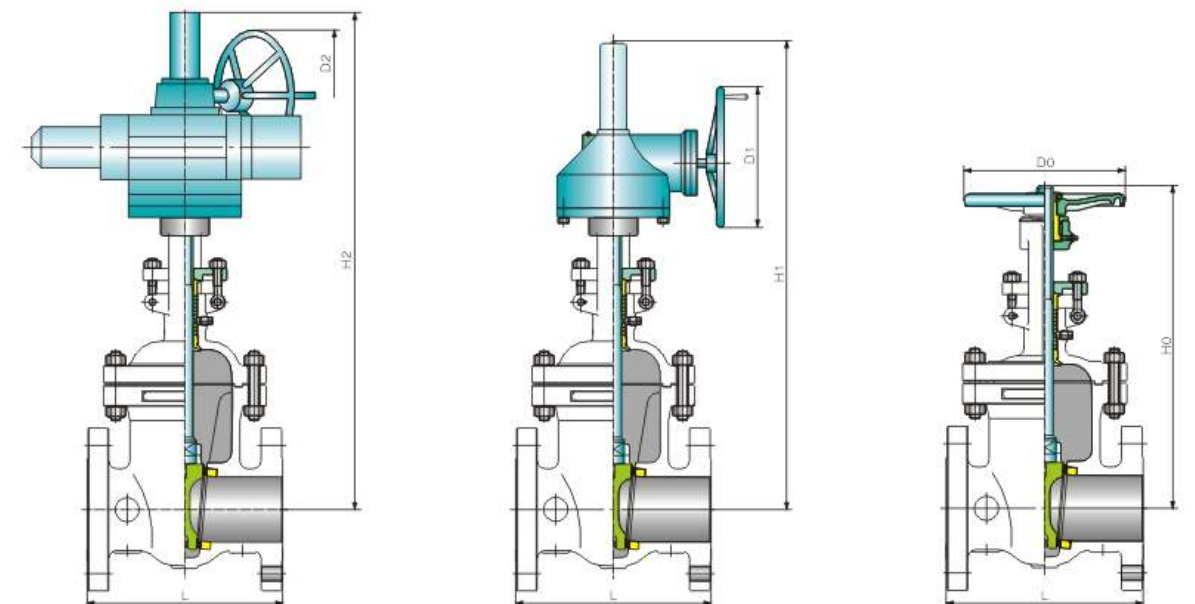
传动方式 Driving			手动 Hand operated			齿轮动 Gear operated			
Class	NPS (in)	L	H0	D0	重量 Weight (kg)	H1	D1	齿轮装置 Gear device	重量 Weight (kg)
150	2	178	360	200	22	-	-	-	-
	2 1/2	190	410	200	31	-	-	-	-
	3	203	440	250	45	-	-	-	-
	4	229	500	250	61	-	-	-	-
	5	254	580	300	89	-	-	-	-
	6	267	660	300	121	-	-	-	-
	8	292	775	350	134	-	-	-	-
	10	330	925	450	280	-	-	-	-
	12	356	1100	500	321	-	-	-	-
	14	381	1295	600	450	1651	310	BA-0	455
	16	406	1435	600	605	1879	460	BA-1	645
	18	432	1626	650	810	2184	460	BA-1	850
	20	457	1829	650	880	2431	610	BA-2	950
	24	508	2175	700	1490	2873	610	BA-2	1460
	26	559	2235	750	1750	3086	610	BA-2	1830
300	28	610	2310	750	2010	3327	610	BA-2	2080
	30	610	2695	800	2268	3606	610	BAA-3	2565
	32	660	-	-	-	3708	610	BAA-3	3100
	36	711	-	-	-	3924	610	BAA-3	3950
	40	812	-	-	-	4318	610	BAA-3	4650
	42	812	-	-	-	4546	610	BAA-3	5100
	48	1066	-	-	-	5181	610	BAA-3	6500



● 主要外形尺寸及重量 Main size of outside & weight

型号 Model: Z41H, Z41Y, Z541H, Z541Y, Z941H, Z941Y

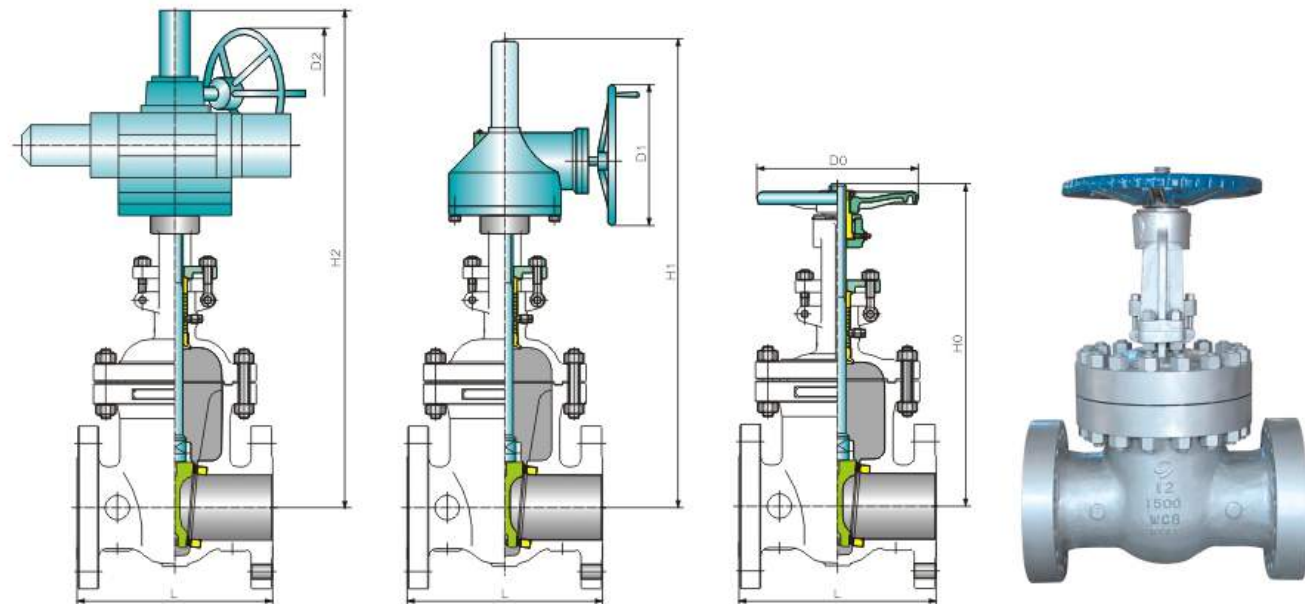
传动方式 Driving			手动 Hand operated			齿轮动 Gear operated			
Class	NPS (in)	L	H0	D0	重量 Weight (kg)	H1	D1	齿轮装置 Gear device	重量 Weight (kg)
300	2	216	380	200	24	-	-	-	-
	2 1/2	241	410	250	34	-	-	-	-
	3	283	450	250	49	-	-	-	-
	4	305	530	300	70	-	-	-	-
	5	381	700	300	115	-	-	-	-
	6	403	730	350	133	-	-	-	-
	8	419	820	450	231	-	-	-	-
	10	457	1010	500	329	-	-	-	-
	12	502	1130	560	530	-	-	-	-
	14	762	1489	600	730	1790	460	BA-1	850
	16	838	1580	650	930	1968	460	BA-1	1105
	18	914	2017	700	1250	2273	610	BA-2	1300
	20	991	2228	700	1520	2482	610	BA-2	1625
	24	1143	2650	750	2340	3054	610	BA-2	2800
	26	1245	-	-	-	3219	610	BA-2	3100
	28	1346	-	-	-	3378	610	BAA-3	3600
	30	1397	-	-	-	3530	610	BAA-3	4200
	32	1524	-	-	-	3695	610	BAA-3	4850
	36	1727	-	-	-	3987	610	BAA-3	5900
	40	1955	-	-	-	4445	610	BAA-3	8100
	42	2032	-	-	-	4699	610	BAA-3	9750
	48	2286	-	-	-	5435	610	BAA-3	13050



● 主要外形尺寸及重量 Main size of outside & weight

型号 Model: Z41H, Z41Y, Z541H, Z541Y, Z941H, Z941Y

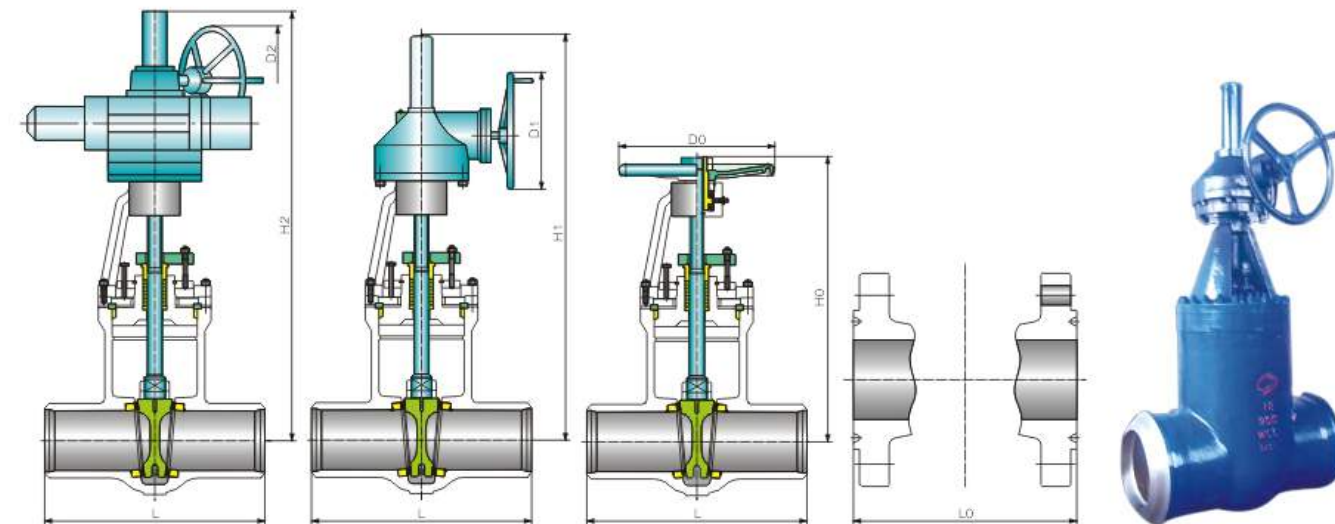
传动方式 Driving			手动 Hand operated			齿轮动 Gear operated				电动 Electric driving			
Class	NPS (in)	L	H0	D0	重量 Weight (kg)	H1	D1	齿轮装置 Gear device	重量 Weight (kg)	H2	D2	电动装置 Electric driving	重量 Weight (kg)
300	2	292	425	250	42	-	-	-	-	550	590	DZW20A	112
	2 1/2	330	485	300	62	-	-	-	-	600	590	DZW20A	135
	3	356	510	300	85	-	-	-	-	660	590	DZW30A	194
	4	432	610	400	120	-	-	-	-	780	590	DZW45A	223
	5	508	700	450	176	-	-	-	-	850	810	DZW60A	296
	6	559	820	500	230	840	310	BA-0	255	990	830	DZW90	385
	8	660	920	600	390	930	310	BA-0	418	1130	830	DZW120	541
	10	787	1080	600	620	1105	460	BA-1	674	1360	870	DZW180	816
	12	838	1220	650	880	1220	460	BA-1	935	1520	870	DZW250	1090
	14	889	1473	700	1350	1380	610	BA-2	1440	1730	1170	DZW350	1560
	16	991	1651	800	1700	1435	610	BA-2	1790	1840	1170	DZW500	1950
	18	1092	1727	800	2140	1915	610	BA-2	2230	2370	1060	DZW800	2390
	20	1194	2019	800	2450	2095	610	BAA-3	2540	2600	1060	DZW800	2580
	24	1397	-	-	-	2155	610	BAA-3	4550	3160	1060	DZW1000	4580
	26	1448	-	-	-	2271	610	BAA-3	5260	-	-	-	-
	28	1549	-	-	-	2436	610	BAA-3	5960	-	-	-	-
	30	1651	-	-	-	2577	610	BAA-3	6700	-	-	-	-
	32	1778	-	-	-	2781	610	BAA-3	8312	-	-	-	-
	36	2083	-	-	-	3113	610	BAA-3	10125	-	-	-	-
	40	2149	-	-	-	3241	610	BAA-3	14300	-	-	-	-
	42	2260	-	-	-	3572	610	BAA-3	16460	-	-	-	-
	48	2667	-	-	-	4261	610	BAA-3	22900	-	-	-	-



● 主要外形尺寸及重量 Main size of outside & weight

型号 Model: Z41H, Z41Y, Z541H, Z541Y, Z941H, Z941Y

传动方式 Driving			手动 Hand operated			齿轮动 Gear operated				电动 Electric driving			
Class	NPS (in)	L	H0	D0	重量 Weight (kg)	H1	D1	齿轮装置 Gear device	重量 Weight (kg)	H2	D2	电动装置 Electric driving	重量 Weight (kg)
900	2	372	540	300	65	-	-	-	-	832	590	DZW20A	145
	2 1/2	422	555	350	83	-	-	-	-	880	590	DZW30A	200
	3	384	625	350	115	-	-	-	-	910	590	DZW30A	300
	4	460	730	400	195	-	-	-	-	1020	590	DZW45A	325
	6	613	860	600	410	895	460	BA-1	440	1060	830	DZW90	570
	8	740	930	600	720	1070	460	BA-1	720	1150	830	DZW120	885
	10	841	1090	650	1090	1290	610	BA-2	1140	1320	870	DZW180	1300
	12	968	1245	700	1625	1540	610	BA-2	1720	1580	870	DZW250	1870
	14	1038	-	-	-	1620	610	BAA-3	2400	1660	1170	DZW350	2370
	16	1140	-	-	-	1730	610	BAA-3	3040	1780	1170	DZW500	3010
	3	473	-	-	-	-	-	-	-	960	590	DZW45A	335
	4	549	-	-	-	-	-	-	-	1040	810	DZW60A	445
1500	6	711	-	-	-	1250	460	BA-1	640	1250	830	DZW120	785
	8	841	-	-	-	1600	460	BA-1	990	1600	870	DZW180	1140
	10	1000	-	-	-	-	-	-	-	1860	870	DZW250	1790
	12	1146	-	-	-	-	-	-	-	2150	1170	DZW350	2810
	14	1276	-	-	-	-	-	-	-	2380	1170	DZW500	4190
	16	1407	-	-	-	-	-	-	-	2580	1060	DZW800	4970



● 主要外形尺寸及重量 Main size of outside & weight

型号 Model: PsZ41H, PsZ41Y, PsZ541H, PsZ541Y, PsZ941H, PsZ941Y

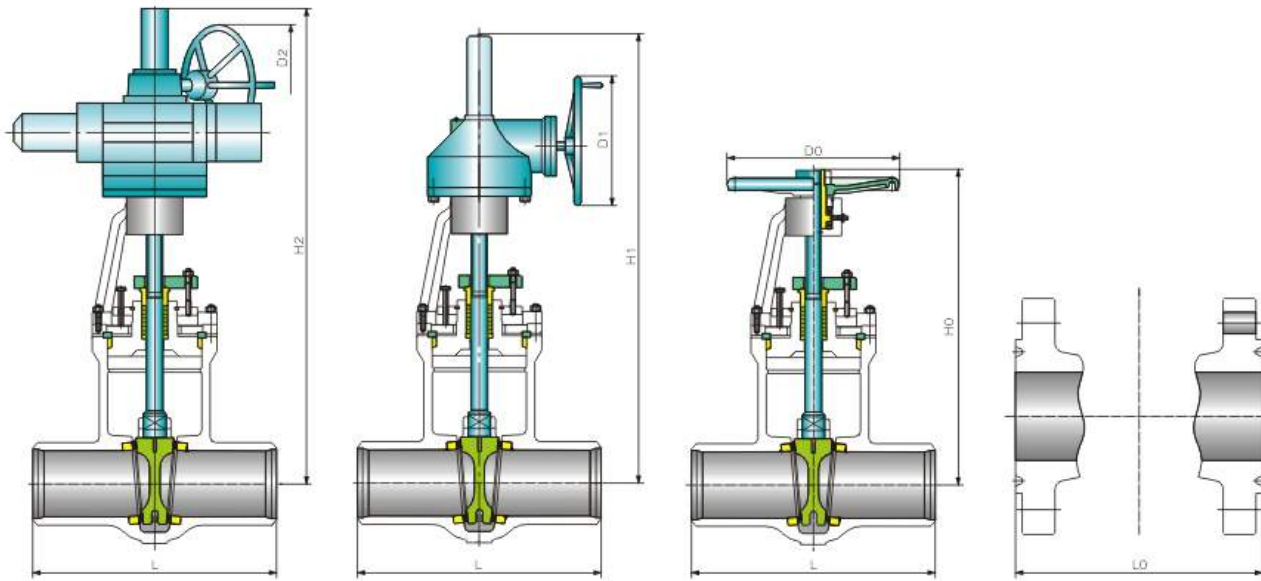
法兰连接 Flanged ends (RTJ)

传动方式 Driving			手动 Hand operated			齿轮动 Gear operated				电动 Electric driving			
Class	NPS (in)	L0	H0	D0	重量 Weight (kg)	H1	D1	齿轮装置 Gear device	重量 Weight (kg)	H2	D2	电动装置 Electric driving	重量 Weight (kg)
900	2	371	550	250	88	-	-	-	-	835	590	DZW20A	130
	3	384	605	350	105	-	-	-	-	975	590	DZW30A	142
	4	460	750	400	140	-	-	-	-	1200	590	DZW45A	204
	6	613	840	500	300	895	460	BA-1	350	1280	830	DZW90	356
	8	740	-	-	-	1370	460	BA-1	530	1372	830	DZW120	530
	10	841	-	-	-	1495	610	BA-2	950	1495	870	DZW180	950
	12	968	-	-	-	1830	610	BA-2	1400	1830	870	DZW250	1400
	14	1038	-	-	-	2145	610	BA-2	2010	2144	1170	DZW350	1800
	16	1140	-	-	-	2405	610	BAA-2	2700	2406	1170	DZW500	3000
	20	1334	-	-	-	2750	610	BAA-2	4400	2800	1060	DZW800	3800

型号 Model: PsZ61H, PsZ61Y, PsZ561H, PsZ561Y, PsZ961H, PsZ961Y

对焊连接 Butt welding ends

传动方式 Driving			手动 Hand operated			齿轮动 Gear operated				电动 Electric driving			
Class	NPS (in)	L	H0	D0	重量 Weight (kg)	H1	D1	齿轮装置 Gear device	重量 Weight (kg)	H2	D2	电动装置 Electric driving	重量 Weight (kg)
900	2	368	550	250	68	-	-	-	-	835	590	DZW20A	120
	3	381	605	350	85	-	-	-	-	975	590	DZW30A	135
	4	457	750	400	102	-	-	-	-	1200	590	DZW45A	202
	6	610	840	500	200	895	460	BA-1	280	1280	830	DZW90	293
	8	737	-	-	-	1370	460	BA-1	460	1372	830	DZW120	472
	10	838	-	-	-	1495	610	BA-2	820	1495	870	DZW180	844
	12	965	-	-	-	1830	610	BA-2	1150	1830	870	DZW250	1184
	14	1029	-	-	-	2145	610	BA-2	1500	2144	1170	DZW350	1579
	16	1130	-	-	-	2405	610	BAA-2	2100	2406	1170	DZW500	2136
	20	1321	-	-	-	2750	610	BAA-2	3400	2800	1060	DZW800	3485



● 主要外形尺寸及重量 Main size of outside & weight

型号Model: PsZ41H, PsZ41Y, PsZ541H, PsZ541Y, PsZ941H, PsZ941Y

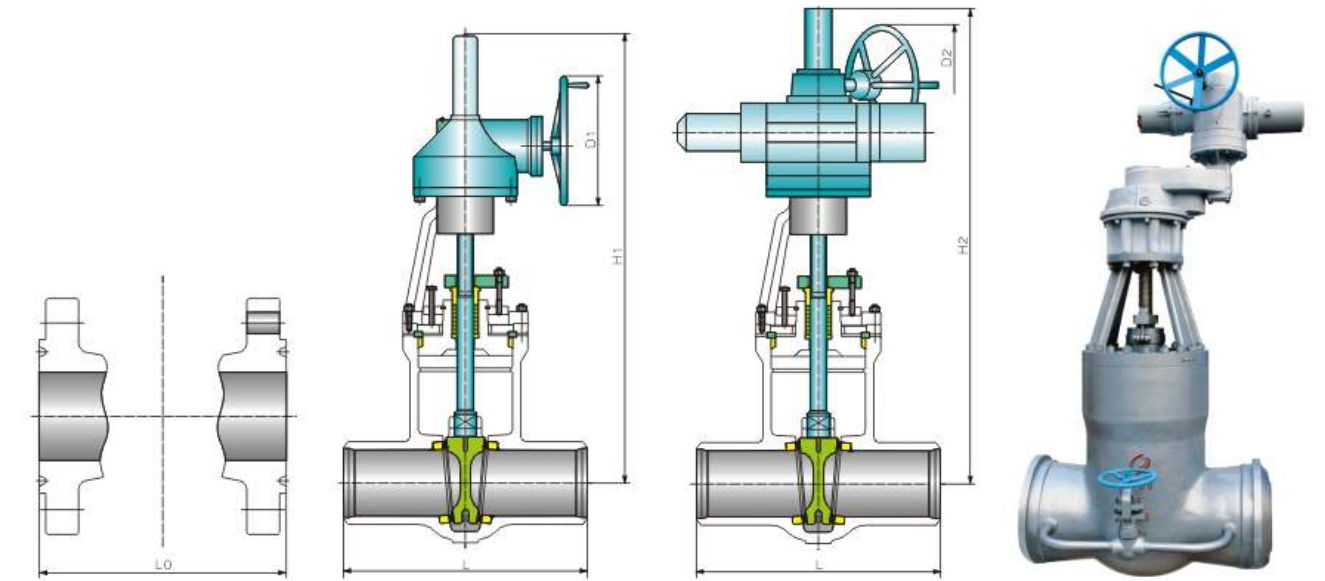
法兰连接 Flanged ends (RTJ)

传动方式 Driving			手动 Hand operated			齿轮传动 Gear operated				电动 Electric driving			
Class	NPS (in)	L0	H0	D0	重量 Weight (kg)	H1	D1	齿轮装置 Gear device	重量 Weight (kg)	H2	D2	电动装置 Electric driving	重量 Weight (kg)
1500	2	371	590	300	100	-	-	-	-	715	590	DZW30A	-
	3	473	711	350	130	-	-	-	-	736	590	DZW45A	210
	4	549	774	450	200	-	-	-	-	831	810	DZW60A	290
	6	711	-	-	-	1170	610	BA-2	544	1054	830	DZW120	560
	8	841	-	-	-	1370	610	BA-2	825	1422	870	DZW180	980
	10	1000	-	-	-	1655	610	BA-2	1375	1714	870	DZW250	1470
	12	1146	-	-	-	1810	610	BA-2	2085	1905	1170	DZW350	2220
	14	1276	-	-	-	1981	610	BAA-2	2940	1990	1170	DZW500	2970
	16	1407	-	-	-	2108	610	BAA-2	3790	2210	1060	DZW800	3900
	20	1686	-	-	-	2387	610	BAA-2	5130	2432	1060	DZW1000	5250

型号Model: PsZ61H, PsZ61Y, PsZ561H, PsZ561Y, PsZ961H, PsZ961Y

对焊连接 Butt welding ends

传动方式 Driving			手动 Hand operated			齿轮传动 Gear operated				电动 Electric driving			
Class	NPS (in)	L	H0	D0	重量 Weight (kg)	H1	D1	齿轮装置 Gear device	重量 Weight (kg)	H2	D2	电动装置 Electric driving	重量 Weight (kg)
1500	2	368	550	250	89	-	-	-	-	715	590	DZW30A	-
	3	470	620	350	110	-	-	-	-	736	590	DZW45A	185
	4	546	750	400	180	-	-	-	-	831	810	DZW60A	268
	6	705	-	-	-	1170	610	BA-2	370	1054	830	DZW120	472
	8	832	-	-	-	1370	610	BA-2	610	1422	870	DZW180	754
	10	991	-	-	-	1655	610	BA-2	1300	1714	870	DZW250	1411
	12	1130	-	-	-	1810	610	BA-2	2000	1905	1170	DZW350	2133
	14	1257	-	-	-	1981	610	BAA-2	2900	1990	1170	DZW500	2912
	16	1384	-	-	-	2108	610	BAA-2	3490	2210	1060	DZW800	3516
	20	1664	-	-	-	2387	610	BAA-2	4800	2432	1060	DZW1000	4922



● 主要外形尺寸及重量 Main size of outside & weight

型号Model: PsZ41H, PsZ41Y, PsZ541H, PsZ541Y, PsZ941H, PsZ941Y

法兰连接 Flanged ends (RTJ)

传动方式 Driving			手动 Hand operated			齿轮传动 Gear operated				电动 Electric driving			
Class	NPS (in)	L	H0	D0	重量 Weight (kg)	H1	D1	齿轮装置 Gear device	重量 Weight (kg)	H2	D2	电动装置 Electric driving	重量 Weight (kg)
2500	2	454	570	450	185	-	-	-	-	-	-	-	-
	3	584	596	500	215	-	-	-	-	654	830	DZW90	315
	4	683	698	600	335	-	-	-	-	781	830	DZW120	445
	6	927	-	-	-	876	610	BAA-2	890	977	870	DZW180	970
	8	1038	-	-	-	1493	610	BAA-2	1420	1523	870	DZW250	1520
	10	1292	-	-	-	1600	610	BAA-2	2560	1645	1170	DZW350	2630
	12	1445	-	-	-	1752	610	BAA-2	3740	1802	1170	DZW500	3823

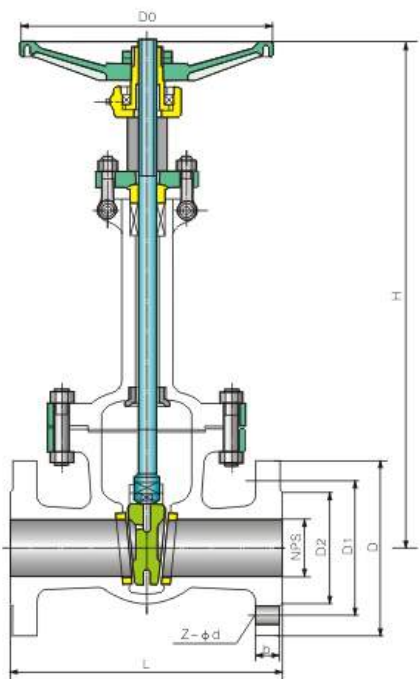
型号Model: PsZ61H, PsZ61Y, PsZ561H, PsZ561Y, PsZ961H, PsZ961Y

对焊连接 Butt welding ends

传动方式 Driving			手动 Hand operated			齿轮传动 Gear operated				电动 Electric driving			
Class	NPS (in)	L	H0	D0	重量 Weight (kg)	H1	D1	齿轮装置 Gear device	重量 Weight (kg)	H2	D2	电动装置 Electric driving	重量 Weight (kg)
2500	2	451	502	450	110	-	-	-	-	-	-	-	-
	3	578	596	500	135	654	610	BA-2	203	683	830	DZW90	199
	4	673	698	600	215	781	610	BA-2	305	806	830	DZW120	294
	6	914	-	-	-	977	610	BAA-2	650	1024	870	DZW180	664
	8	1022	-	-	-	1493	610	BAA-2	900	1508	870	DZW250	924
	10	1270	-	-	-	1600	610	BAA-2	1600	1620	1170	DZW350	1674
	12	1422	-	-	-	1752	610	BAA-2	2300	1790	1170	DZW500	2312

● 产品规范 Product Specification

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



● 主要特点

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

● Chief features

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

● 主要零件材料 Major parts material form

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

● 主要外形尺寸 Main size of outside

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

● 产品结构特点 Products design features

- 1、操作传动方式有：手动、电动、正、伞齿轮传动、气动等，订货时应注明传动方式。
- 2、焊接连接的闸阀、截止阀适用于公称压力 Class1500~4500 的石油、化工、火力、水力各种系统的管路上，切断和接通管路介质。适用介质为：水、蒸汽、油品、酸性介质等。
- 3、符合国内外先进标准的要求，阀门中腔采用压力自紧式密封结构，支管两端采用焊接结构，焊接坡口可按标准或用户要求配接，密封可靠、性能良好、造型美观。
- 4、阀瓣、阀座密封面根据不同的要求采用铁基合金堆焊或司太立(Stellite)钴基硬质合金堆焊而成耐磨、耐高温、耐腐蚀、抗摩擦性能好，使用寿命长。
- 5、阀杆经调质及表面氮化处理，有良好抗摩擦性和抗腐蚀性，具有倒密封结构，保证阀门在运行时开启不经阀杆外漏，同时可更换阀杆填料。
- 6、中大口径可采用内旁通结构并设置滚动轴承与推力轴承，开关灵活，启闭轻松。
- 7、电动截止阀配有SMC阀门电动装置，具有壳体小，重量轻，功能全，外形美等特点，并可与程控电脑配套使用，也可按用户要求选配电动装置。

- 1、Actuation modes: manual, electric, spur and bevel gear, pneumatic actuations, please make it clear at order.
- 2、Weld-connected gate valve and stop valve are suitable for the pipeline of Class1500~4500 In various systems of petroleum, chemical industry, steam power, hydraulic etc. to cut off and get through the medium. The suitable media are: water, steam, oil goods, acid media and so on.
- 3、Conforms with the requirements of the domestic and foreign advanced standards. The middle cavity of the valve uses the pressure selftightening sealing structure, the two ends of the branch pipe use welded structure and the welded groove can be connected per either the standard or the required one by users. Of a reliable seal, good performance and nice modeling.
- 4、The sealing faces of both disc and seat ring are made by means of built-up welding with either iron-based alloy or Stellite Co-based carbide alloy upon different requirements, wearable, high temperature resisting, corrosion resisting, good friction resisting and long duration.
- 5、The stem, after the modified and surface nitriding treatment, has a good friction and corrosion resistance and a back-seal structure to ensure the valve no leak outward from the stem when opened during running and able to replace the stem packing.
- 6、The valves with a large or a middle apertures can use the internal by-pass structure and be set with a rolling bearing and a thrust bearing, resu-lting in flexible open-close.
- 7、The electric stop valve is fitted with SMC valve electric actuator, features a small casing, light weight, full functions and a nice outlook and canbe used either with a program controlled computer or an electric actuator upon the user requirement.

● 产品主要参数 Main parameter of the products

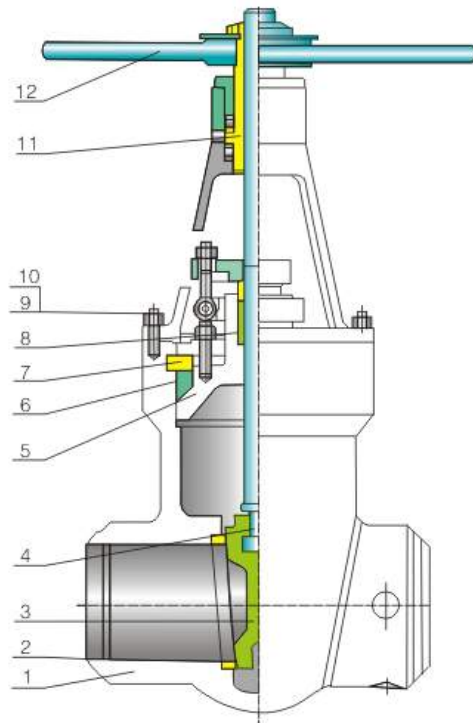
基本型号 Serial models	闸阀 Gate valve		Z60Y、Z560Y、Z960Y			
	截止阀 Globe valve		J61Y、J561Y、J961Y、J65Y、J565Y、J965Y、			
	止回阀 Check valve		H64Y			
压力等级范围 Pressure grade range			Class1500 ~ 4500			
通径范围 Drift diameter range			2 1/2" ~ 22"			
驱动方式及 适用范围 Driving manner & scope of application	闸阀 Gate valve	手轮驱动 Hand wheel driving	Class1500	Class2000 ~ 2500	Class3500	
			2 1/2" ~ 8"	2 1/2" ~ 6"	3" ~ 4"	
		伞齿轮 Bevel gear	Class1500	Class2000 ~ 2500	Class3500	
			8" ~ 22"	6" ~ 16"	5" ~ 12"	
		电 动 Electric driving	Class1500	Class2000 ~ 2500	Class3000	Class3500
			2 1/2" ~ 22"	2 1/2" ~ 16"	10" ~ 22"	3" ~ 18"
	截止阀 Globe valve	手轮驱动 Hand wheel driving	Class1500	Class2000 ~ 2500	Class3500	
			2 1/2" ~ 6"	2" ~ 4"	2 1/2" ~ 3"	
		伞齿轮 Bevel gear	Class1500	Class2000 ~ 2500	Class3500	
			5" ~ 8"	4" ~ 12"	3" ~ 6"	
		电 动 Electric driving	Class1500		Class2000 ~ 3500	
			3" ~ 8"		2 1/2" ~ 6"	
	Y型 截止阀 Y type globe valve	手轮驱动 Hand wheel driving	Class1500		Class2500	
			2 1/2" ~ 6"		2" ~ 4"	
		伞齿轮 Bevel gear	Class1500	Class2000	Class2500	Class3500
			5" ~ 8"	4" ~ 12"	3" ~ 14"	3" ~ 6"
		电 动 Electric driving	Class1500	Class2500	Class2500	Class3500
			3" ~ 8"	4" ~ 12"	2" ~ 14"	3" ~ 6"
	止回阀 Check valve	—	Class1500 ~ 2000		Class2500	
			2 1/2" ~ 14"		3" ~ 8"	

● 产品性能规范 Products performance specification

压力级 Pressure class	材 料 Material	强度试验(MPa) Shell test	密封试验与上密封试验(MPa) Seat test & back seat test	工作压力 (MPa) Working pressure	工作温度 (°C) Working temperature
1500Lb	WCB	39.20	28.60	26.00/14.50	-30 ~ 427
	WC1	36.70	26.85	24.40/17.10	-30 ~ 454
	WC6	39.50	8.20	26.40/6.30	-30 ~ 552
	WC9	39.60	10.10	26.40/6.55	-30 ~ 570
2000Lb	WCB	52.20	38.15	34.70/19	-30 ~ 427
	WC1	48.90	35.75	32.50/22.80	-30 ~ 454
	WC6	52.80	11.00	35.20/8.45	-30 ~ 552
	WC9	52.80	13.60	35.20/8.70	-30 ~ 570
2500Lb	WCB	65.20	47.75	43.40/24.10	-30 ~ 427
	WC1	61.20	44.75	40.70/28.50	-30 ~ 454
	WC6	65.90	13.80	43.90/10.60	-30 ~ 552
	WC9	65.90	16.92	43.90/10.60	-30 ~ 570
3000Lb	WCB	78.20*	57.30	52.10/28.90	-30 ~ 427
	WC1	73.40*	53.80	48.90/34.30	-30 ~ 454
	WC6	79.10*	16.50	48.90/13.00	-30 ~ 552
	WC9	79.10*	20.30	52.70/13.10	-30 ~ 570
3500Lb	WCB	91.20*	66.75	60.70/33.70	-30 ~ 427
	WC1	85.50*	62.70	57.00/40.00	-30 ~ 454
	WC6	92.30*	19.30	61.50/14.80	-30 ~ 552
	WC9	92.30*	23.65	61.50/15.25	-30 ~ 570

注：带**号的强度试验压力与用户商定为1.5倍设计压力。

Note: the shell test pressure with**mark can be negotiated with user and specified as 1.5 times design pressure.



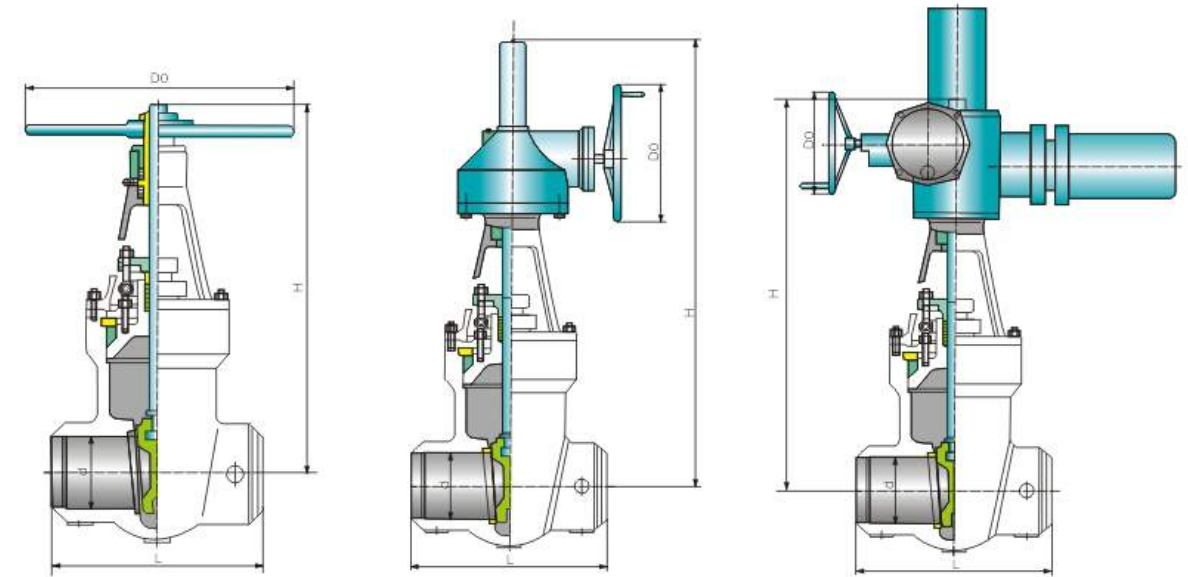
● 产品采用标准 Technical specification

设计标准 Design standard	JB/T 3593
结构长度 Structural length	JB/T 2788、GB/T 15188.1
对焊连接 Welded connection	JB/T 2788、GB/T 15188.1
压力与温度 Pressure and temperature	JB/T 3593
试验和检验 Test & inspection	JB/T 3593
焊接坡口 Weld the slope mouth	JB/T 3593、ASME 16.25

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

● 产品采用标准 Technical specification

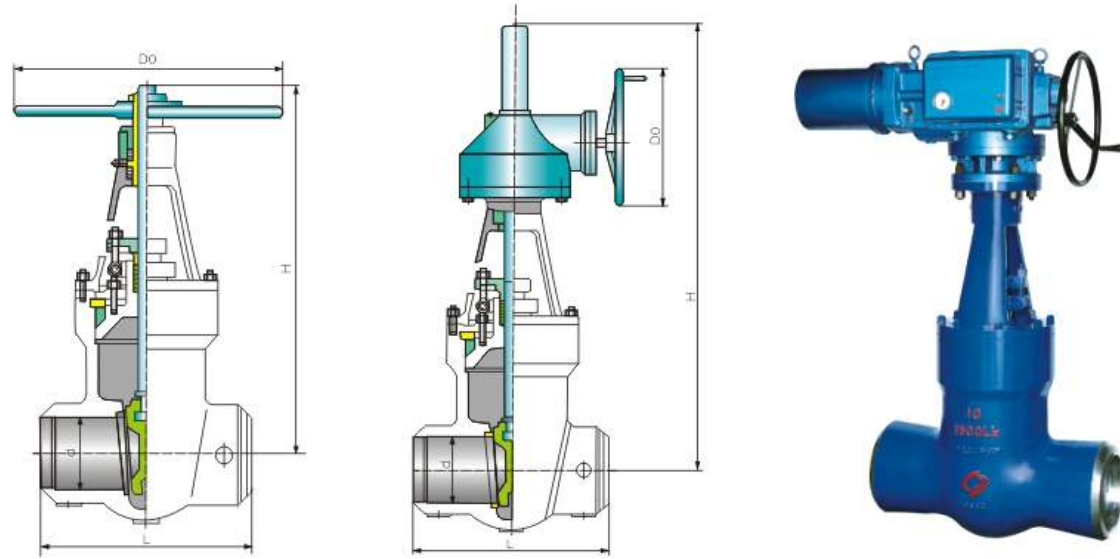
序号 No.	零件名称 Part name	材质 Material
1	阀体 Body	WCB、WC1、WC6、WC9、C12A
2	阀座 Seat	25、15CrMoA、12CrMoVA
3	闸板 Floodgate board	WCB、WC1、WC6、WC9、C12A
4	阀杆 Stem	1Cr17Ni12、2Cr13、20Cr1MoV、25Cr2Mo1V
5	阀盖 Bonnet	WCB、WC1、WC6、WC9、C12A
6	密封圈 Sealing ring	柔性石墨 Graphite
7	四开环 Quarto ring	1Cr13、2Cr13
8	填料 Packing	柔性石墨 Graphite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



● 主要外形尺寸及重量 Main size of outside & weight

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

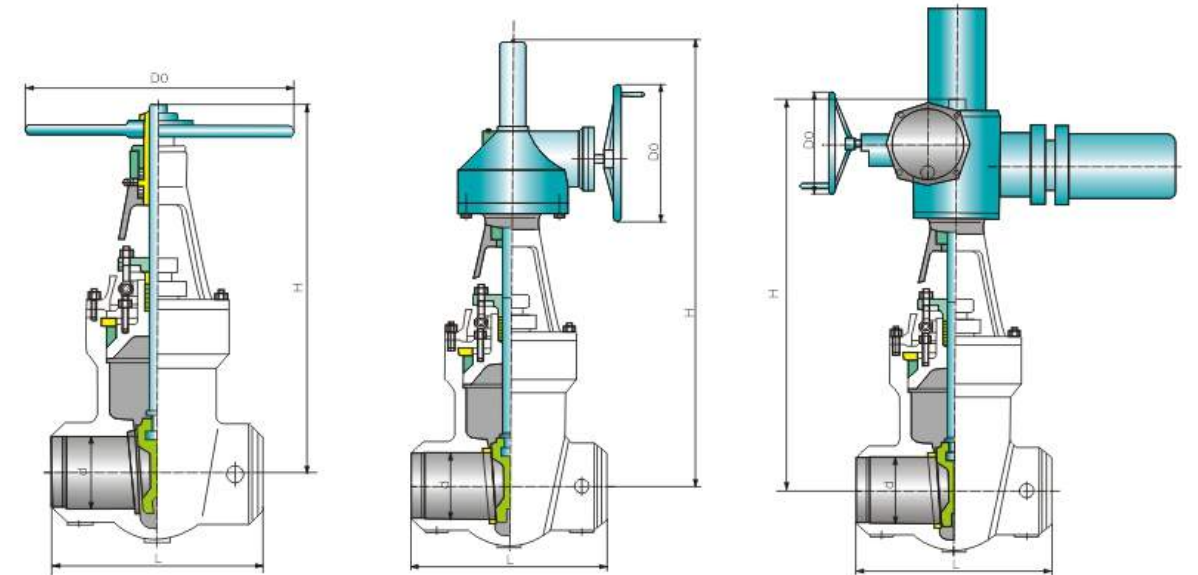
NPS (in)	L	d	手动 Hand-operated			齿动 Geared driving			齿动装置 Geared driving	电动 Electric driving device			电动装置 Electric driving device
			H	D0	重量(kg) Weight	H	D0	重量(kg) Weight		H	D0	重量(kg) Weight	
2 1/2	254	56	670	200	50	-	-	-	-	887	200	93	SMC-04
3	305	64	692	200	65	-	-	-	-	887	200	110	SMC-04
4	406	84	790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



● 主要外形尺寸及重量 Main size of outside & weight

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

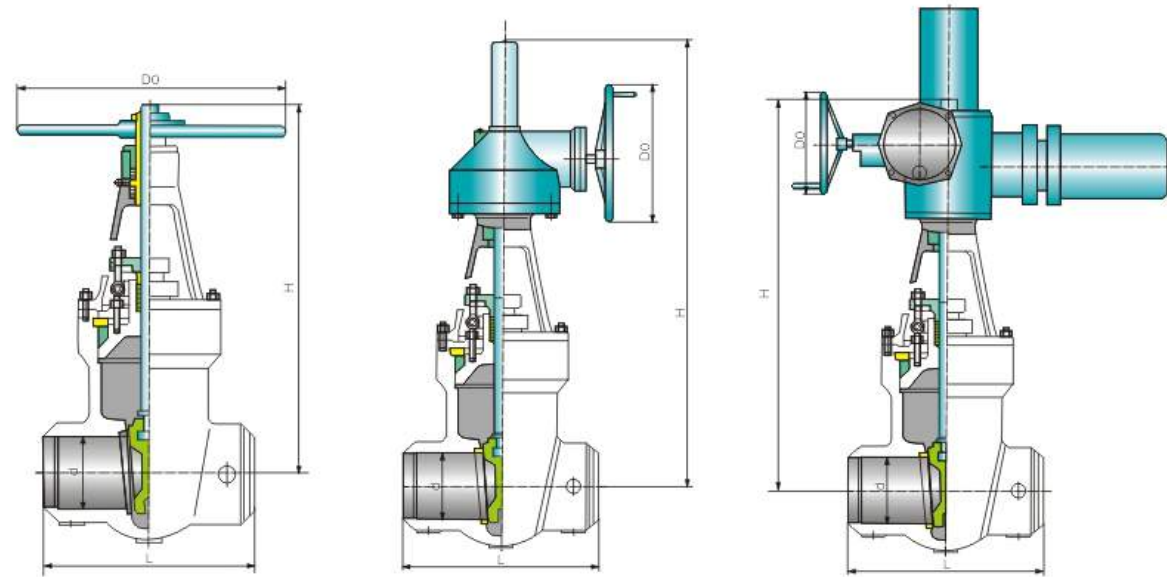
NPS (in)	L	d	手动 Hand-operated			齿动 Geared driving			齿动装置 Geared driving	电动 Electric driving device			电动装置 Electric driving device
			H	D0	重量(kg) Weight	H	D0	重量(kg) Weight		H	D0	重量(kg) Weight	
2 1/2	330	50	640	200	70	-	-	-	-	802	200	202	SMC-04
3	368	60	690	230	90	-	-	-	-	852	508	149	SMC-03
4	457	80	850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



● 主要外形尺寸及重量 Main size of outside & weight

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

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



● 主要外形尺寸及重量 Main size of outside & weight

型号 Model: Z960Y-3000Lb

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

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

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

● 产品主要参数 Main parameter of the products

基本型号 Serial models	(Hs, Ps)Z11H, (Hs, Ps)Z11Y, (Ps)Z41H, (Ps)Z41Y, (Ps)Z441H, (Ps)Z441Y, (Ps)Z541H, (Ps)Z541Y, (Ps)Z941H, (Ps)Z941Y			
压力等级范围 Pressure grade range	PN 1.6 ~ 42.0MPa (Class 150 ~ 4500)			
通径范围 Drift diameter range	DN15 ~ 1000mm (1" ~ 40")			
驱动方式 Driving manner	手轮驱动 Hand wheel driving			齿轮动、电动 Gear driving and electric driving
适用范围 Scope of application	Class150 ~ 300 (PN1.6 ~ 4.0)	Class400 ~ 600 (PN6.4 ~ 10.0)	Class900 ~ 4500 (PN15.0 ~ 42.0)	2" ~ 40" (DN50 ~ 1000mm)
	1/2" ~ 24" (DN15 ~ 600mm)	1/2" ~ 12" (DN15 ~ 300mm)	1/2" ~ 10" (DN15 ~ 250mm)	

● 产品性能规范 Products performance specification

压力等级 Pressure	常温试验压力(MPa) Testing pressure at constant temperature (Mpa)			适用温度 Applicable temperature	适用介质 Applicable medium
	壳体试验 The shell testing	密封试验 Seal and test	上密封试验 Have and seal testing		
公称压力 (MPa) Nominal rating pressure (PN)	1.6	2.4	1.76	-196 ~ 600℃	水、油品、蒸汽等 Water, oil, steam, etc.
	2.5	3.8	2.75		
	4.0	6.0	4.4		
	6.4	9.6	7.04		
	10.0	15.0	11.0		
	16.0	24.0	17.6		
磅级(Lb) Pound grade (Class)	25.0	37.5	27.5		
	150	3.0	2.2		
	300	7.5	5.5		
	600	15.0	11.0		
	900	22.5	16.5		
	1500	37.5	27.5		
	2500	63.0	46.2		

● 产品结构特点 Products design features

法兰连接铸钢闸阀适用于公称压力PN 1.6 ~ 42.0MPa(Class 150 ~ 4500), 工作温度≤600℃的石油、化工、火力电站等各种工况的管路上, 切断或接通管路介质。

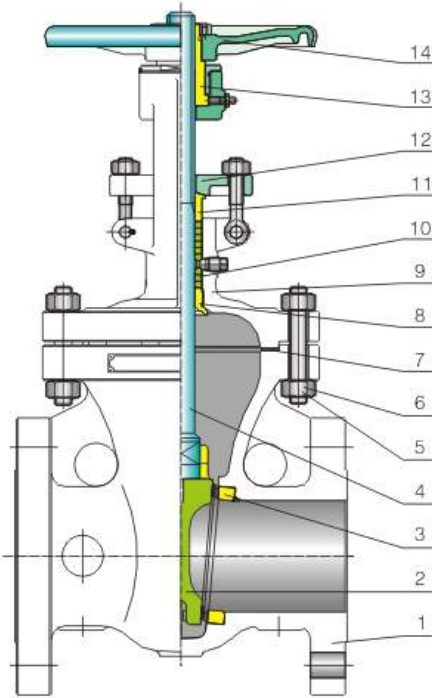
其主要结构特点有:

- 1、设计制造严格GB/T 12234, API600, API602标准。产品结构合理、密封可靠、性能优良、造型美观。
- 2、密封面堆焊Co基硬质合金, 耐磨、耐蚀、抗擦伤性能好, 使用寿命长。
- 3、阀杆经调质及表面氮化处理, 有良好的抗腐蚀性及抗擦伤性。
- 4、公称压力≥15.0MPa(Class 900)中腔采用自紧密封式结构, 密封性能随压力升高而增强, 保证了密封性能。
- 5、阀门设有倒密封结构, 密封可靠。
- 6、零件材质及法兰、对焊端尺寸可根据实际工况或用户要求合理选配, 满足各种工程需要。

Flanged ends cast steel gate valve are used to cut or connect the pipe media under nominal pressure between PN 1.6 ~ 42.0MPa(Class 150 ~ 4500), working temperatures ≤600℃, in oil industry, chemical industry, fossil-fired power plants.

The main structure features include:

- 1、Both design and manufacture are carried out strictly following GB/T 12234, API600 and API602. The products feature a reasonable structure, reliable seal, good performance and nice modeling.
- 2、Co hard alloy welded sealing surface, which is wearing resistant, erosion proof, abrasion proof and long-lived.
- 3、The surface and the adjusting media of the valve shaft are nitrogenized so that it is erosion and abrasion resistant.
- 4、PN≥15.0Mpa (class900), the middle cavity uses a self-tightening sealing structure to have the sealing performance reinforced along with the pressure rise so as to ensure the sealing performance.
- 5、There is no backward sealing structure in the valve, so the sealing is reliable.
- 6、The material of the filling and the flange size can be chosen and matched according to the applications and the requirements of the use's. That can satisfies all kinds of working requirements.



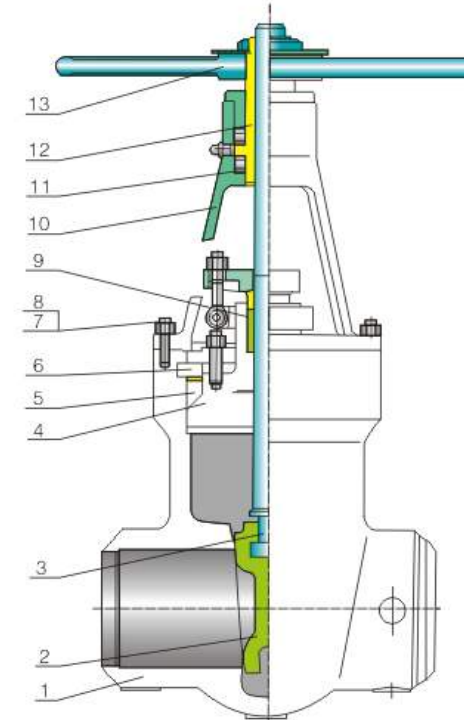
● 产品采用标准 Technical specification

结构形式 Structural formation	栓接阀盖明杆支架结构 Bolt-jointed bonnet outside stem yoke structure
驱动方式 Driving manner	手动、齿轮动、电动 Hand-operated, Gear-operated and Electric-driving
设计标准 Design standard	GB/T 12234
结构长度 Face to face	GB/T 12221
连接法兰 Flanged ends	GB/T 9113, JB/T 79, HG20592
试验和检验 Test & inspection	JB/T 9092

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

● 主要零件材料 Major parts material form

序号 No.	零件名称 Part name	材质 Material
1	阀体 Body	WCB, WC1, WC6, WC9, C5, CF8, CF8M, CF8C, CF3, CF3M
2	闸板 Gate disc	WCB, WC1, WC6, WC9, C5, CF8, CF8M, CF8C, CF3, CF3M
3	阀座 Seat	A105, 304, 1Cr5Mo, 12Cr1MoV
4	阀杆 Stem	1Cr13, 2Cr13, 1Cr18Ni9, 0Cr18Ni12Mo2Ti, 20Cr1Mo1V, 25Cr2Mov
5	双头螺柱 Stud	35CrMoA, 0Cr18Ni9, 0Cr17Ni12Mo2, 25Cr2MoV
6	六角螺母 Six angle nuts	45, 35CrMoA, 25Cr2MoV, 0Cr18Ni9, 0Cr17Ni12Mo2
7	垫片 Gasket	柔性石墨+不锈钢 Graphite & stainless steel
8	上密封座 Back seat	1Cr13, 2Cr13, 1Cr18Ni9, 0Cr18Ni12Mo2Ti, 20Cr1Mo1V, 25Cr2Mov
9	阀盖 Bonnet	WCB, WC1, WC6, WC9, C5, CF8, CF8M, CF8C, CF3, CF3M
10	填料 Packing	柔性石墨 Graphite
11	填料压套 Packing press-sleeve	1Cr13, 2Cr13, 1Cr18Ni9, 0Cr18Ni12Mo2Ti
12	填料压盖 Packing gland	WCB, CF8, CF8M, CF8C, CF3, CF3M
13	阀杆螺母 Valve stem nut	铜合金 Copper alloy
14	手轮 Handwheel	KTH330, QT400-17



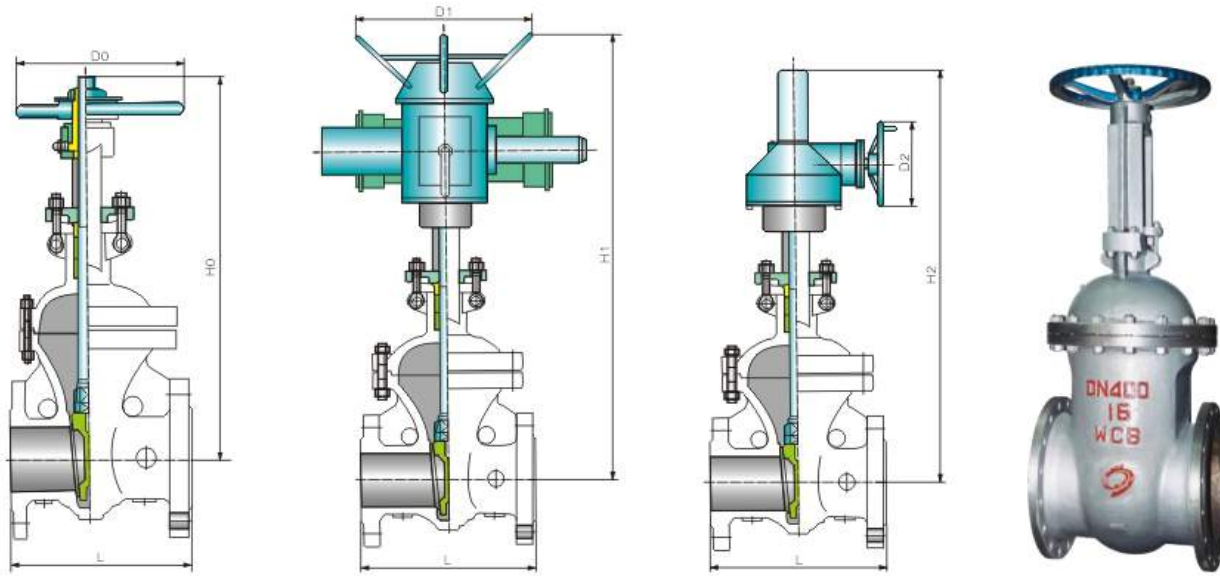
● 产品采用标准 Technical specification

结构形式 Structural formation	压力密封阀盖明杆支架结构 Pressure sealed bonnet outside stem yoke structure
驱动方式 Driving manner	手动、齿轮动、电动 Hand-operated, Gear-operated and Electric-driving
设计标准 Design standard	GB/T 12234
结构长度 Face to face	GB/T 12221
连接法兰 Flanged ends	GB/T 9113, JB/T 79, HG20592
试验和检验 Test & inspection	JB/T 9092

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

● 主要零件材料 Major parts material form

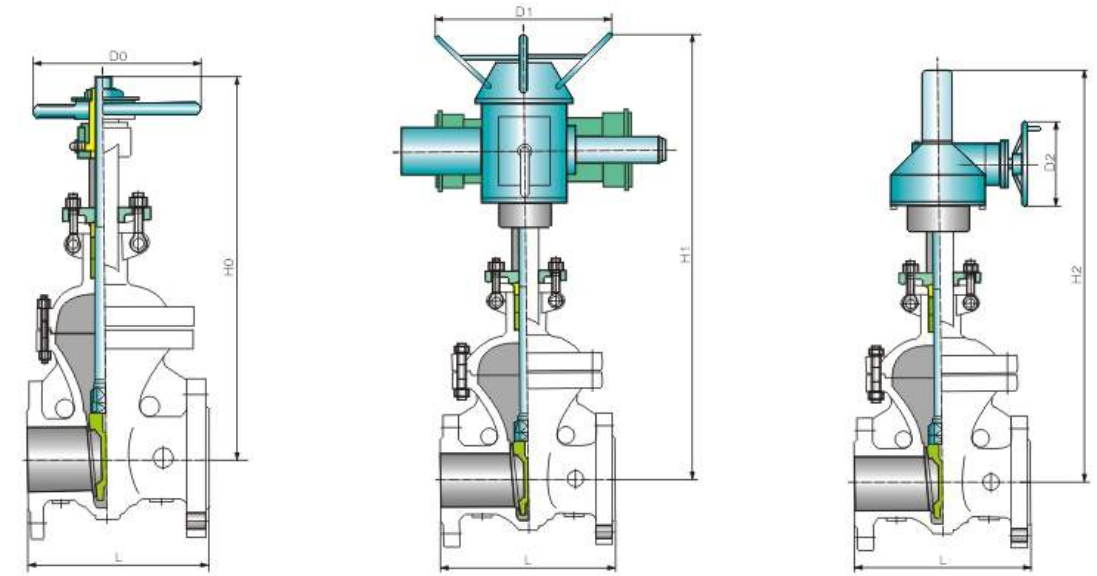
序号 No.	零件名称 Part name	材质 Material
1	阀体 Body	WCB, WC1, WC6, WC9, C5, CF8, CF8M, CF8C, CF3, CF3M
2	闸板 Gate disc	WCB, WC1, WC6, WC9, C5, CF8, CF8M, CF8C, CF3, CF3M
3	阀杆 Stem	1Cr13, 2Cr13, 1Cr18Ni9, 0Cr18Ni12Mo2Ti, 20Cr1Mo1V, 25Cr2Mov
4	阀盖 Bonnet	WCB, WC1, WC6, WC9, C5, CF8, CF8M, CF8C, CF3, CF3M
5	密封圈 Seal ring	柔性石墨 Graphite
6	四合环 Tetracyclic ring	1Cr13, 2Cr13, 38CrMoAl
7	双头螺柱 Stud	35CrMoA, 0Cr18Ni9, 0Cr17Ni12Mo2, 25Cr2MoV
8	六角螺母 Six angle nuts	45, 35CrMoA, 25Cr2MoV, 0Cr18Ni9, 0Cr17Ni12Mo2
9	填料 Packing	柔性石墨 Graphite
10	支架 Yoke	WCB, CF8, CF8M, CF8C, CF3, CF3M
11	轴承 Bearing	外购件 Purchasing parts
12	阀杆螺母 Valve stem nut	铜合金 Copper alloy
13	手轮 Handwheel	KTH330, QT400-17



● 主要外形尺寸及重量 Main size of outside & weight

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

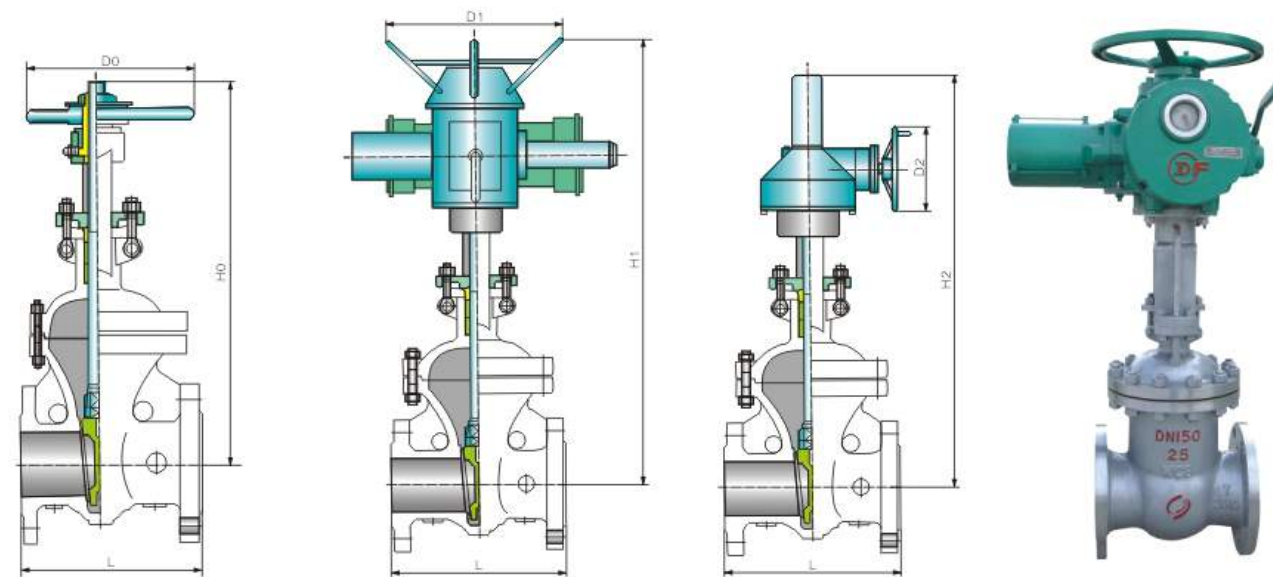
传动方式 Driving			手动 Hand operated			电动 Electric driving				齿轮传动 Gear operated			
PN (MPa)	DN (mm)	L	H0	D0	重量 Weight (kg)	H1	D1	电动装置 Electric driving	重量 Weight (kg)	H2	D2	齿轮装置 Gear device	重量 Weight (kg)
1.6	15	130	170	120	5	-	-	-	-	-	-	-	-
	20	150	190	140	6.5	-	-	-	-	-	-	-	-
	25	160	205	160	9	-	-	-	-	-	-	-	-
	32	180	270	180	12	-	-	-	-	-	-	-	-
	40	200	310	200	26.5	630	590	DZW10A	87.5	-	-	-	-
	50	250	358	240	29	678	590	DZW10A	90	-	-	-	-
	65	265	373	240	33	693	590	DZW15A	96	-	-	-	-
	80	280	435	280	45	755	590	DZW20A	108	-	-	-	-
	100	300	500	300	62	820	590	DZW20A	126	-	-	-	-
	125	325	614	320	106	934	590	DZW30A	173	-	-	-	-
	150	350	674	360	135	994	590	DZW30A	199	-	-	-	-
	200	400	818	400	193	1138	590	DZW30A	254	-	-	-	-
	250	450	969	450	273	1409	810	DZW45A	310	-	-	-	-
	300	500	1145	560	380	1588	810	DZW60A	391	1310	310	BA-0	504
	350	550	1280	640	590	1755	830	DZW90	729	1468	310	BA-0	674
	400	600	1452	640	850	1902	830	DZW120	992	1780	460	BA-1	950
	450	650	1541	720	910	2141	870	DZW180	1168	1880	460	BA-1	1300
	500	700	1676	720	960	2276	870	DZW250	1222	2110	460	BA-2	1530
	600	800	1874	800	1115	2474	870	DZW250	1376	2410	460	BA-2	2140
	700	900	-	-	-	3046	1170	DZW350	-	2600	460	BA-2	3270
	800	1000	-	-	-	3250	1170	DZW500	-	2860	610	BAA-3	3920
	900	1100	-	-	-	3509	1060	DZW800	-	3170	610	BAA-3	4435
	1000	1200	-	-	-	3873	1060	DZW1000	-	-	-	-	-



● 主要外形尺寸及重量 Main size of outside & weight

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

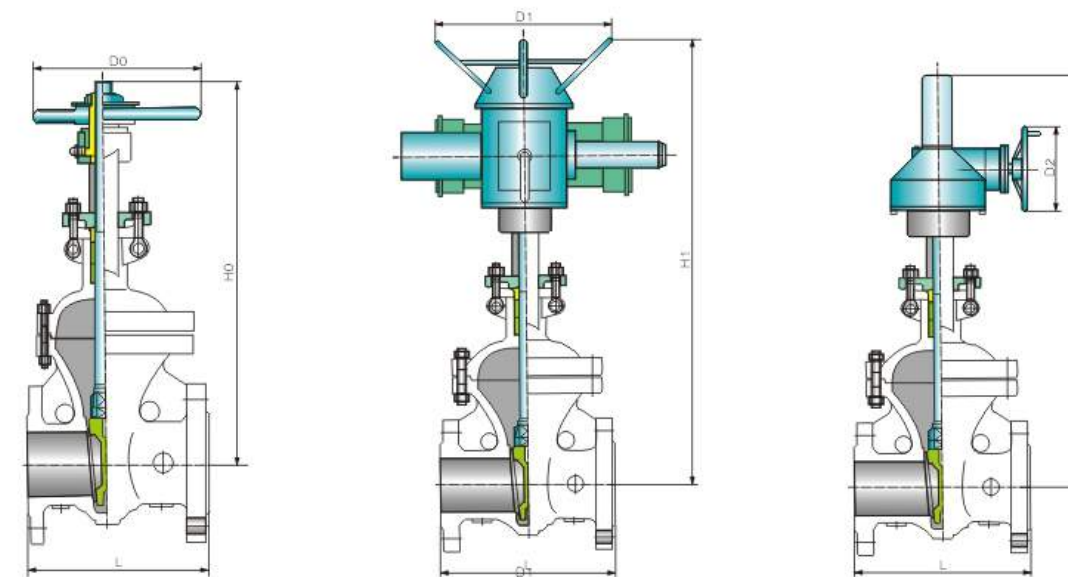
传动方式 Driving			手动 Hand operated			电动 Electric driving				齿轮传动 Gear operated			
PN (MPa)	DN (mm)	L	H0	D0	重量 Weight (kg)	H1	D1	电动装置 Electric driving	重量 Weight (kg)	H2	D2	齿轮装置 Gear device	重量 Weight (kg)
2.5	15	130	170	120	5.5	-	-	-	-	-	-	-	-
	20	150	190	140	7	-	-	-	-	-	-	-	-
	25	160	205	160	11	-	-	-	-	-	-	-	-
	32	180	270	180	14	-	-	-	-	-	-	-	-
	40	200	310	200	30	630	590	DZW10A	91	-	-	-	-
	50	250	358	240	34	678	590	DZW10A	95	-	-	-	-
	65	265	373	240	36	693	590	DZW15A	99	-	-	-	-
	80	280	435	280	50	755	590	DZW20A	113	-	-	-	-
	100	300	500	300	69	820	590	DZW20A	132	-	-	-	-
	125	325	614	320	116	934	590	DZW30A	181	-	-	-	-
	150	350	674	360	141	994	590	DZW30A	206	-	-	-	-
	200	400	818	400	192	1138	590	DZW30A	257	-	-	-	-
	250	450	969	450	207	1409	810	DZW45A	317	-	-	-	-
	300	500	1145	560	400	1588	810	DZW60A	412	1310	310	BA-0	504
	350	550	1280	640	631	1755	830	DZW90	750	1468	310	BA-0	674
	400	600	1452	640	900	1902	830	DZW120	1042	1780	460	BA-1	950
	450	650	1541	720	1013	2141	870	DZW180	1274	1880	460	BA-1	1300
	500	700	1676	720	1166	2276	870	DZW250	1420	2110	460	BA-2	1530
	600	800	1874	800	1258	2474	870	DZW250	1522	2410	460	BA-2	2140
	700	900	-	-	-	3046	1170	DZW350	-	2600	460	BA-2	3275
	800	1000	-	-	-	3250	1170	DZW500	-	2860	610	BAA-3	3924
	900	1100	-	-	-	3509	1060	DZW800	-	3170	610	BAA-3	4435
	1000	1200	-	-	-	3873	1060	DZW1000	-	-	-	-	-



● 主要外形尺寸及重量 Main size of outside & weight

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

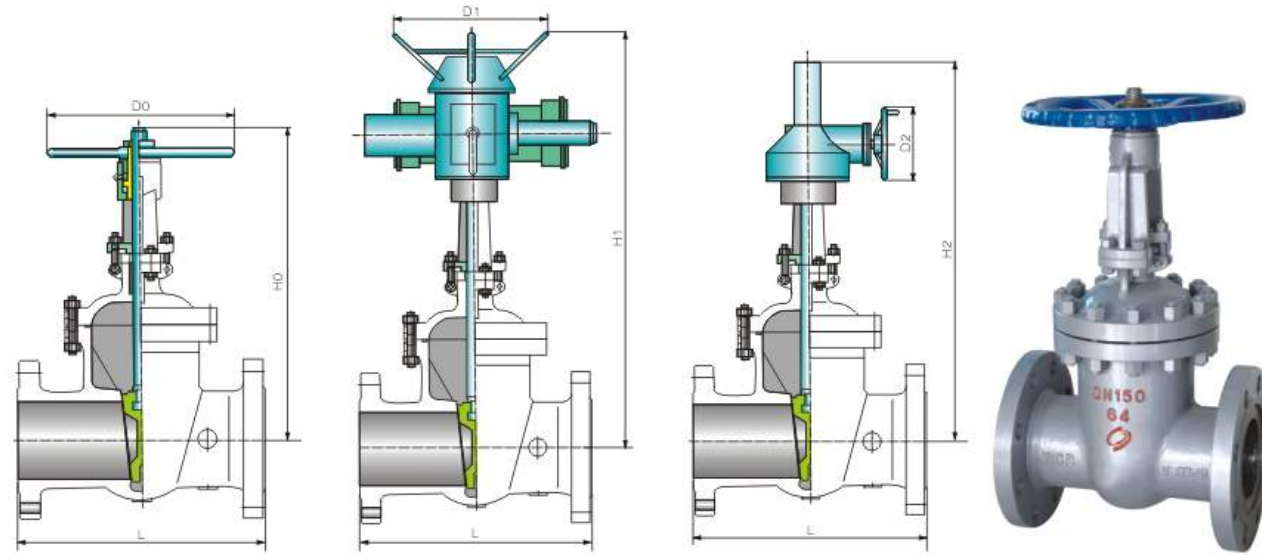
传动方式 Driving			手动 Hand operated			电动 Electric driving				齿轮传动 Gear operated			
PN (MPa)	DN (mm)	L	H0	D0	重量 Weight (kg)	H1	D1	电动装置 Electric driving	重量 Weight (kg)	H2	D2	齿轮装置 Gear device	重量 Weight (kg)
4.0	15	130	135	120	6	-	-	-	-	-	-	-	-
	20	150	190	140	8	-	-	-	-	-	-	-	-
	25	160	205	160	12	-	-	-	-	-	-	-	-
	32	180	270	180	15	-	-	-	-	-	-	-	-
	40	240	310	200	31	630	590	DZW10A	92	-	-	-	-
	50	250	371	280	34	670	590	DZW10A	95	-	-	-	-
	65	290	391	280	39	712	590	DZW15A	102	-	-	-	-
	80	310	455	320	52	775	590	DZW20A	115	-	-	-	-
	100	350	551	360	80	875	590	DZW20A	163	-	-	-	-
	125	400	628	400	127	948	590	DZW20A	190	-	-	-	-
	150	450	708	400	154	1030	590	DZW30A	219	-	-	-	-
	200	550	885	460	263	1325	590	DZW45A	373	-	-	-	-
	250	650	906	560	368	1400	810	DZW60A	480	-	-	-	-
	300	750	1203	640	547	1655	830	DZW90	686	1500	460	BA-1	630
	350	850	1341	640	679	1795	830	DZW120	821	1960	460	BA-1	985
	400	950	1492	720	953	2093	870	DZW180	1214	2170	460	BA-1	1430
6.4	500	1150	-	-	-	2645	870	DZW250	2150	2450	610	BA-2	2040
	600	1350	-	-	-	2865	1170	DZW350	-	2940	610	BA-2	3050
	700	1550	-	-	-	3450	1170	DZW500	-	-	-	-	-
	800	1750	-	-	-	3920	1060	DZW800	-	-	-	-	-



● 主要外形尺寸及重量 Main size of outside & weight

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

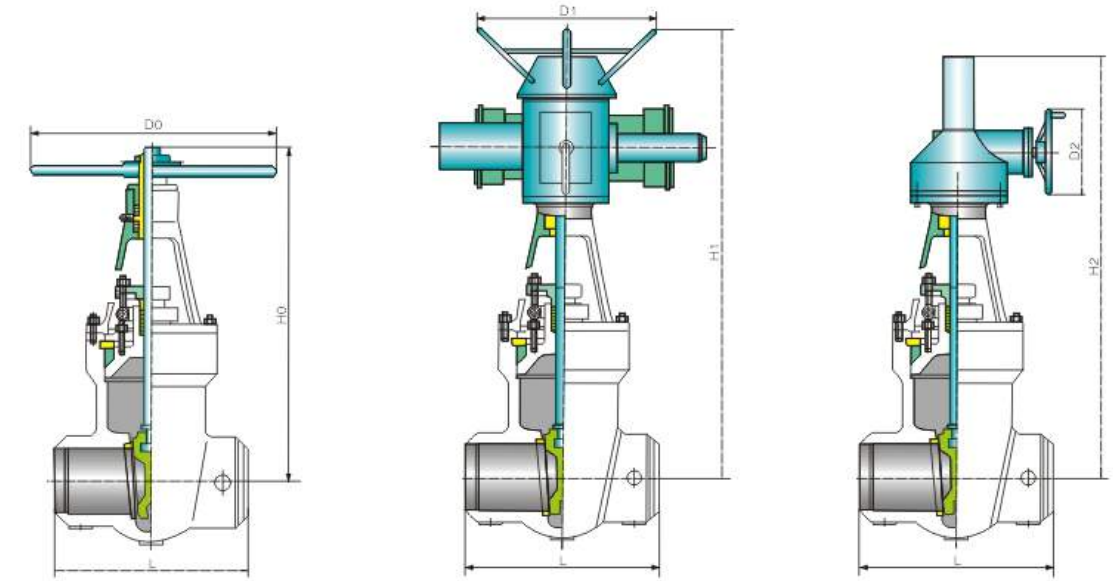
传动方式 Driving			手动 Hand operated			电动 Electric driving				齿轮传动 Gear operated			
PN (MPa)	DN (mm)	L	H0	D0	重量 Weight (kg)	H1	D1	电动装置 Electric driving	重量 Weight (kg)	H2	D2	齿轮装置 Gear device	重量 Weight (kg)
4.0	15	170	140	100	7	-	-	-	-	-	-	-	-
	20	190	140	100	9	-	-	-	-	-	-	-	-
	25	210	215	180	12	-	-	-	-	-	-	-	-
	32	230	270	180	16	-	-	-	-	-	-	-	-
	40	240	345	200	32	665	590	DZW10A	93	-	-	-	-
	50	250	470	200	39	790	590	DZW15A	102	-	-	-	-
	65	290	520	250	43	840	590	DZW20A	106	-	-	-	-
	80	310	570	300	60	890	590	DZW20A	123	-	-	-	-
	100	350	700	300	89	1020	590	DZW30A	154	-	-	-	-
	125	400	780	350	140	1100	590	DZW30A	205	-	-	-	-
	150	450	850	350	207	1290	590	DZW45A	317	-	-	-	-
	200	550	1035	400	325	1475	810	DZW60A	437	1420	310	BA-0	430
	250	650	1050	560	467	1500	830	DZW90	606	1580	460	BA-1	530
	300	750	1470	640	590	1820	830	DZW120	732	1770	460	BA-1	590
	350	850	-	-	-	2216	870	DZW180	1110	2060	460	BA-1	840
	400	950	-	-	-	2838	870	DZW250	1540	2270	460	BA-1	1410
6.4	500	1150	-	-	-	3320	1170	DZW350	-	-	-	-	-
	600	1350	-	-	-	3684	1170	DZW500	-	-	-	-	-



● 主要外形尺寸及重量 Main size of outside & weight

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

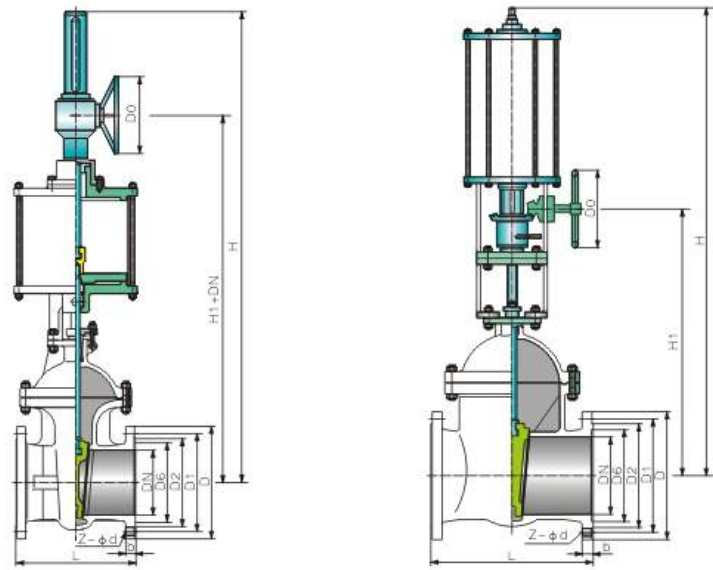
传动方式 Driving			手动 Hand operated			电动 Electric driving				齿轮传动 Gear operated			
PN (MPa)	DN (mm)	L	H0	D0	重量 Weight (kg)	H1	D1	电动装置 Electric driving	重量 Weight (kg)	H2	D2	齿轮装置 Gear device	重量 Weight (kg)
10.0	40	240	360	320	50	680	590	DZW15A	113	-	-	-	-
	50	250	490	360	60	810	590	DZW20A	123	-	-	-	-
	65	290	540	400	70	860	590	DZW20A	133	-	-	-	-
	80	310	572	400	100	896	590	DZW30A	165	-	-	-	-
	100	350	573	400	110	1013	590	DZW45A	220	-	-	-	-
	125	400	744	560	180	1184	810	DZW60A	292	-	-	-	-
	150	450	800	560	250	1250	830	DZW90	389	-	-	-	-
	200	550	800	560	360	1250	830	DZW120	502	1490	310	BA-0	730
	250	650	1050	600	420	1650	870	DZW180	790	1720	460	BA-1	900
	300	750	1200	640	530	1800	870	DZW250	910	1890	460	BA-1	1200
	350	850	-	-	-	2030	1170	DZW350	1610	2180	610	BA-2	1700
	400	950	-	-	-	2250	1170	DZW500	2512	2390	610	BA-2	2500
	500	1150	-	-	-	2550	1060	DZW800	3200	-	-	-	-



● 主要外形尺寸及重量 Main size of outside & weight

型号Model: (Ps)Z40H, (Ps)Z40Y, (Ps)Z540H, (Ps)Z540Y, (Ps)Z940H, (Ps)Z940Y

传动方式 Driving			手动 Hand operated			电动 Electric driving				齿轮传动 Gear operated			
PN (MPa)	DN (mm)	L	H0	D0	重量 Weight (kg)	H1	D1	电动装置 Electric driving	重量 Weight (kg)	H2	D2	齿轮装置 Gear device	重量 Weight (kg)
16.0	40	260	395	320	26	670	590	DZW15A	118	-	-	-	-
	50	300	612	360	73	832	590	DZW20A	136	-	-	-	-
	65	340	677	360	110	880	590	DZW30A	175	-	-	-	-
	80	390	686	400	141	905	590	DZW30A	206	-	-	-	-
	100	450	751	450	185	1071	590	DZW45A	295	-	-	-	-
	125	525	868	560	320	1163	810	DZW60A	432	-	-	-	-
	150	600	997	640	462	1170	830	DZW90	601	1250	460	BA-1	492
	200	750	1224	720	711	1440	830	DZW120	853	1520	460	BA-1	780
	250	850	-	-	-	1760	870	DZW180	1300	1540	610	BA-2	1140
	300	950	-	-	-	2230	870	DZW250	1750	1620	610	BA-3	1720
25.0	50	350	350	360	69	813	590	DZW30A	129	-	-	-	-
	65	410	410	400	90	855	590	DZW30A	154	-	-	-	-
	80	470	470	400	133	1016	590	DZW45A	233	-	-	-	-
	100	550	550	560	246	1099	810	DZW60A	348	-	-	-	-
	125	650	650	560	480	1160	830	DZW90	610	-	-	-	-
	150	750	750	640	700	1240	830	DZW120	840	-	-	-	-
	200	832	832	720	1075	1520	870	DZW180	1225	-	-	-	-
	250	991	991	800	1980	1680	870	DZW250	2130	-	-	-	-



● 主要外形尺寸及重量 Main size of outside & weight

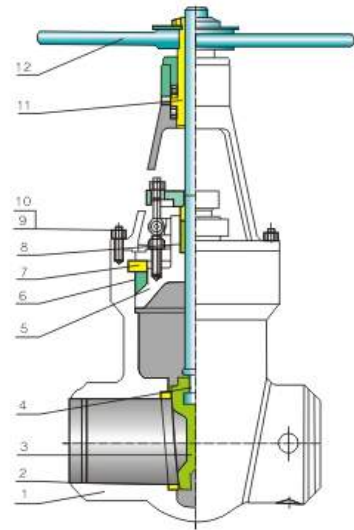
型号Model: CZ6s40H-16C CZ6s40Y-16P CZ6s40Y-16R

DN (mm)	L	D	D1	D2	b	Z-φd	H	H1	D0	WT (Kg)
50	250	160	125	100	16	4-φ18	950	570	180	36
65	270	180	145	120	18	4-φ18	1050	596	180	53
80	280	195	160	135	20	8-φ18	1080	635	200	72
100	300	215	180	155	20	8-φ18	1145	645	250	90
125	325	245	210	185	22	8-φ18	1210	685	250	120
150	350	280	240	210	24	8-φ18	1300	720	320	132
200	400	335	295	265	26	12-φ23	1660	940	400	258
250	450	405	355	320	30	12-φ25	1790	1020	400	297
300	500	460	410	375	30	12-φ25	1990	1150	450	420
350	550	520	470	435	34	16-φ25	2090	1170	450	558
400	600	580	525	485	36	16-φ30	2290	1325	500	840
450	650	640	585	545	40	20-φ30	2485	1465	500	1110
500	700	705	650	608	44	20-φ34	2640	1590	550	1380
600	800	840	770	718	48	20-φ41	2940	1720	550	1620
700	900	910	840	788	50	24-φ41	3450	1960	600	1966
800	1000	1020	950	898	52	24-φ41	3650	2190	600	2282
900	1100	1120	1050	998	54	28-φ41	3815	2400	800	2495
1000	1200	1255	1170	1110	56	28-φ48	4000	2650	800	2760

● 主要外形尺寸及重量 Main size of outside & weight

DN (mm)	L	D	D1	D2	b	Z-φd	H	H1	D0	WT(Kg)
CZ6s40H-25 CZ6s40Y-25P CZ6s40Y-25R										
50	250	160	125	100	20	4-φ18	950	570	180	38
65	270	180	145	120	22	8-φ18	1050	596	180	55
80	280	195	160	135	22	8-φ18	1080	635	200	76
100	300	230	190	160	24	8-φ23	1145	645	250	94
125	325	270	220	188	28	8-φ25	1210	685	250	126
150	350	300	250	218	30	8-φ25	1300	720	320	136
200	400	360	320	278	34	12-φ25	1660	940	400	265
250	450	425	370	332	36	12-φ30	1790	1020	400	300
300	500	485	430	390	50	16-φ30	1990	1150	450	436
350	550	550	490	448	44	16-φ34	2090	1170	450	580
400	600	610	550	505	48	16-φ34	2290	1325	500	860
450	650	660	600	555	50	20-φ34	2485	1465	500	1260
500	700	730	660	610	52	20-φ41	2640	1590	550	1420
600	800	840	770	718	56	20-φ41	2940	1720	550	1710
700	900	955	875	815	60	24-φ48	3450	1960	600	2105
800	1000	1070	990	930	64	24-φ48	3650	2190	600	2310
900	1100	1180	1090	1025	66	28-φ54	3815	2400	800	2620
1000	1200	1305	1210	1140	68	28-φ58	4000	2650	800	2960

DN (mm)	L	D	D1	D2	D6	b	Z-φd	H	H1	D0	WT(Kg)
CZ6s40H-40 CZ6s40Y-40P CZ6s40Y-40R											
50	250	160	125	100	88	20	4-φ18	950	570	200	42
65	280	180	145	120	110	22	8-φ18	1050	596	200	68
80	320	195	160	135	121	22	8-φ18	1080	635	250	84
100	350	230	190	160	150	24	8-φ23	1145	645	320	102
125	400	270	220	188	176	28	8-φ25	1210	700	320	135
150	450	300	250	218	204	30	8-φ25	1330	750	400	156
200	550	375	320	282	260	38	12-φ30	1660	940	400	276
250	650	445	385	345	313	42	12-φ34	1820	1050	450	306
300	750	510	450	408	364	46	16-φ34	1990	1150	450	510
350	850	570	510	465	422	52	16-φ34	2110	1190	500	720
400	950	655	585	535	474	58	16-φ41	2335	1370	550	1050
450	1050	680	610	560	524	60	20-φ41	2490	1510	550	1320
500	1150	755	670	612	576	62	20-φ48	2640	1590	550	1800
600	1350	890	795	730	678	62	20-φ54	2940	1720	600	2160



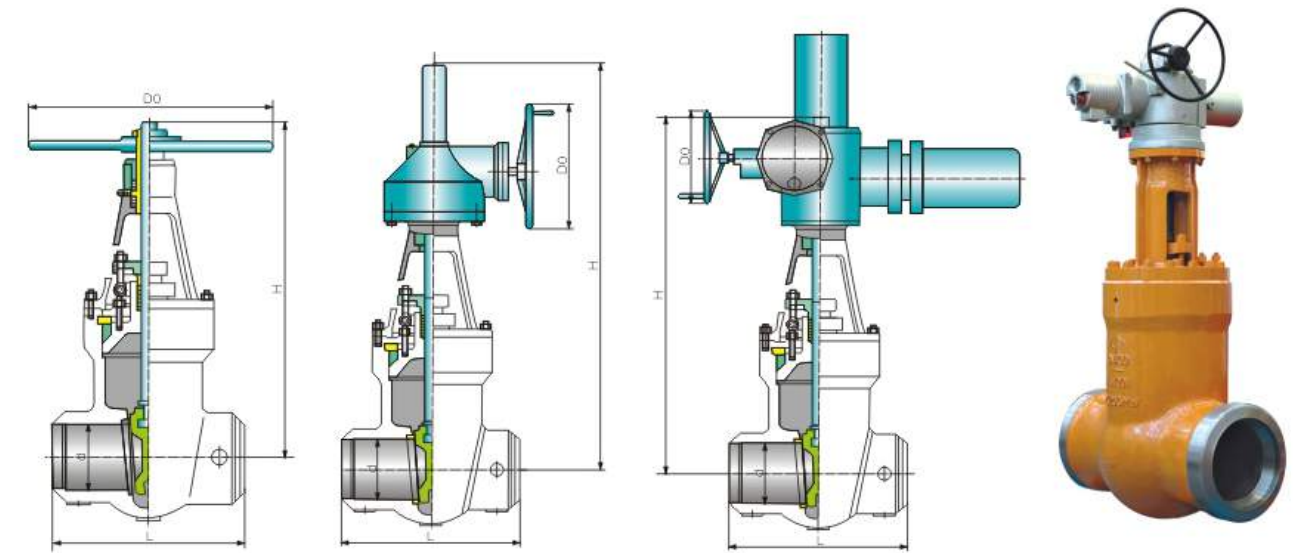
● 产品采用标准 Technical specification

设计标准 Design standard	JB/T 3595
结构长度 Structural length	JB/T 2788、GB/T 15188.1
对焊连接 Welded connection	JB/T 2788、GB/T 15188.1
压力与温度 Pressure and temperature	JB/T 3595、JB/T 74
试验和检验 Test & inspection	JB/T 3595
焊接坡口 Weld the slope mouth	JB/T 3595

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

● 主要零件材料 Major parts material form

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



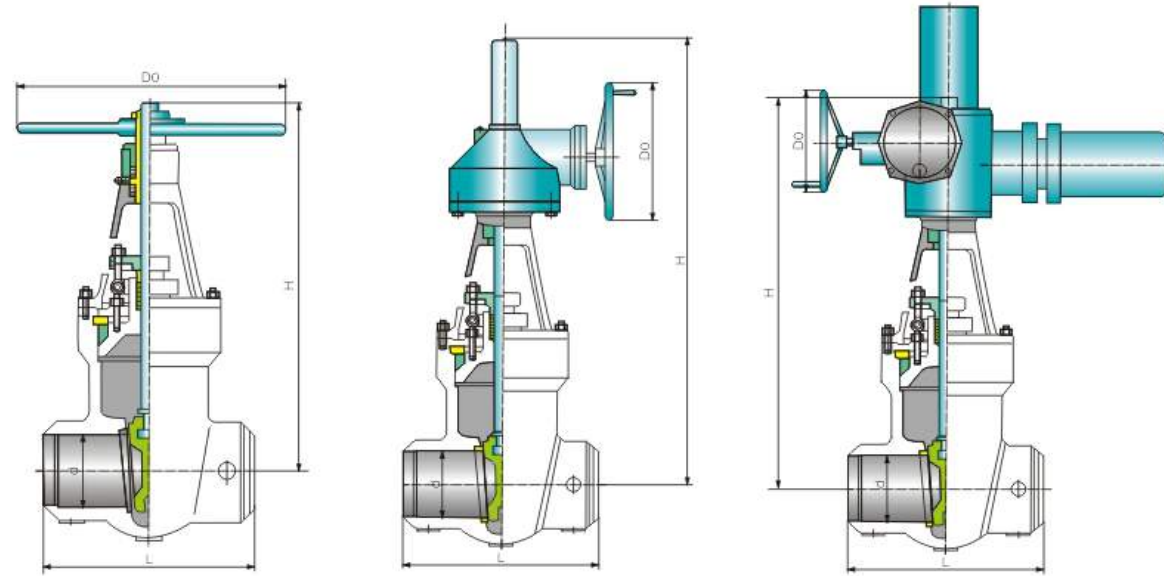
● 主要外形尺寸及重量 Main size of outside & weight

型号 Model: Z960Y-250

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

型号 Model: Z960Y-320

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



●主要外形尺寸及重量 Main size of outside & weight

型号 Model: Z960Y-P54100

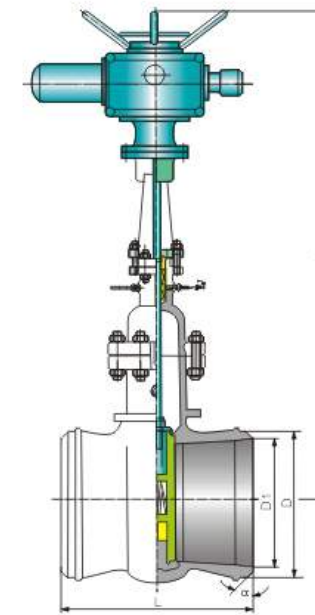
DN (mm)	尺寸 Dimensions(mm)				重量(kg) Weight	电动装置 Electric driving device
	L	d	H	D0		
100	533	96	1120	305	280	SMC-00
125	610	118	1219	305	419	SMC-0
175	762	148	1349	305	626	SMC-0
225	914	180	1690	305	1020	SMC-1
250	1041	222	1830	457	1320	SMC-2

型号 Model: Z960Y-P54140

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

型号 Model: Z960Y-P54170

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



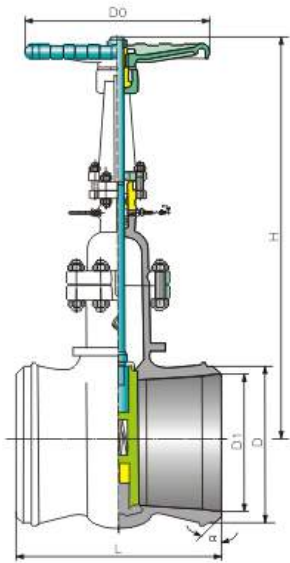
●主要外形尺寸及重量 Main size of outside & weight DS/Z964H-16C、25

DN (mm)	L	α	H	D	D1	电动装置 Electric device	WT (Kg)
PN1.6(MPa)							
50	250	37° 30'	620	58	50	DZW10	50
65	270	37° 30'	714	75	65	DZW10	63
80	280	37° 30'	765	91	79	DZW10	65
100	300	37° 30'	840	110	97	DZW15	75
125	325	37° 30'	852	136	121	DZW15	106
150	350	37° 30'	875	163	146	DZW20I	113
200	400	37° 30'	1015	223	202	DZW20	189
250	450	37° 30'	1125	278	254	DZW30	214
300	500	37° 30'	1371	330	305	DZW45	353
350	550	37° 30'	1485	382	352	DZW60	602
400	600	37° 30'	1890	432	399	DZW60	698
450	650	37° 30'	1989	485	451	DZW90	713
500	700	37° 30'	2041	535	501	DZW120	881
600	800	37° 30'	2285	636	601	DZW180	1250
700	900	37° 30'	2347	726	691	DZW250	1938
800	1000	37° 30'	2593	826	791	DZW350	2562
PN2.5(MPa)							
50	250	37° 30'	620	64	49	DZW10	54
65	270	37° 30'	714	82	67	DZW10	66
80	280	37° 30'	765	95	77	DZW10	68
100	300	37° 30'	840	117	101	DZW15	80
125	325	37° 30'	852	144	126	DZW20I	109
150	350	37° 30'	875	172	158	DZW20I	146
200	400	37° 30'	1015	223	202	DZW30	191
250	450	37° 30'	1125	278	254	DZW30	219
300	500	37° 30'	1371	330	305	DZW45	257
350	550	37° 30'	1485	382	352	DZW60	607
400	600	37° 30'	1890	432	399	DZW60	705
450	650	37° 30'	1989	485	451	DZW90	720
500	700	37° 30'	2041	535	499	DZW120	888
600	800	37° 30'	2285	636	599	DZW180	1275
700	900	37° 30'	2347	726	689	DZW250	1946
800	1000	37° 30'	2593	826	789	DZW350	2574

注: PN1.6(16)阀门允许作为PN1.0(10)压力级选用。
Annotation: PN1.6(16) valve is permit be used as PN1.0(10).

DS/Z960H-40、64、100

DN (mm)	L	D	α	PN4.0 (MPa)				PN6.4 (MPa)				PN10.0 (MPa)			
				D1	H	电动装置 Electric device	WT (Kg)	D1	H	电动装置 Electric device	WT (Kg)	D1	H	电动装置 Electric device	WT (Kg)
50	280	64	37° 30'	49	620	DZW10	56	50	622	DZW10	58	49	622	DZW10	58
65	310	83	37° 30'	67	714	DZW10	68	66	718	DZW15	71	64	718	DZW15	71
80	350	96	37° 30'	79	767	DZW15	73	77	770	DZW20I	74	75	770	DZW20I	77
100	400	117	37° 30'	101	845	DZW20I	82	99	845	DZW20I	85	97	845	DZW30I	89
125	450	144	37° 30'	126	852	DZW20I	108	129	852	DZW30	111	125	852	DZW30	113
150	550	172	37° 30'	152	875	DZW30	117	150	875	DZW30	117	145	965	DZW45	122
200	650	223	37° 30'	200	1015	DZW30	193	198	1105	DZW45	193	190	1105	DZW60	195
250	750	278	37° 30'	252	1215	DZW45	217	246	1215	DZW60	222	236	1237	DZW90I	235
300	850	330	37° 30'	302	1371	DZW60	357	294	1424	DZW90I	362	282	1424	DZW120I	370
350	950	382	37° 30'	350	1507	DZW90I	624	342	1507	DZW120I	631	334	1670	DZW180	641
400	1050	432	37° 30'	397	1912	DZW120	701	387	2075	DZW180	713	377	2075	DZW250	725



●主要外形尺寸及重量 Main size of outside & weight DS/Z64H-16C、25

DN (mm)	L	α	H	D0	D	D1	WT (Kg)
PN1.6(MPa)							
50	250	37° 30'	334	250	58	50	19
65	270	37° 30'	439	250	75	65	32
80	280	37° 30'	495	300	91	79	34
100	300	37° 30'	575	350	110	97	44
125	325	37° 30'	587	350	136	121	75
150	350	37° 30'	607	350	163	146	82
200	400	37° 30'	740	400	223	202	158
250	450	37° 30'	863	400	278	254	184
300	500	37° 30'	990	400	330	305	245
350	550	37° 30'	1137	500	382	352	492
400	600	37° 30'	1523	500	432	399	588
450	650	37° 30'	1618	600	485	451	683
500	700	37° 30'	1657	600	535	501	846
600	800	37° 30'	1746	700	636	601	1013
PN2.5(MPa)							
50	250	37° 30'	334	250	64	49	23
65	270	37° 30'	439	250	82	67	35
80	280	37° 30'	495	300	95	77	37
100	300	37° 30'	575	350	117	101	49
125	325	37° 30'	587	350	144	126	78
150	350	37° 30'	607	350	172	158	105
200	400	37° 30'	740	400	223	202	160
250	450	37° 30'	863	400	278	254	188
300	500	37° 30'	990	400	330	305	249
350	550	37° 30'	1137	500	382	352	497
400	600	37° 30'	1523	500	432	399	592
450	650	37° 30'	1618	600	485	451	688
500	700	37° 30'	1657	600	535	499	853
600	800	37° 30'	1746	700	636	599	1020

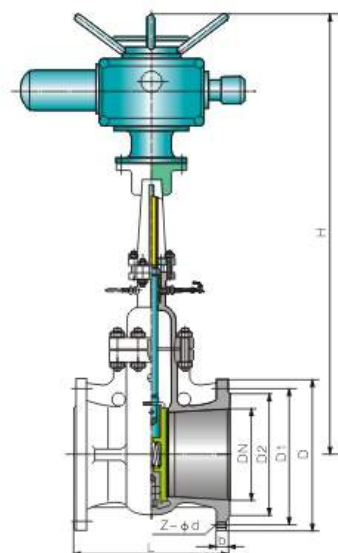
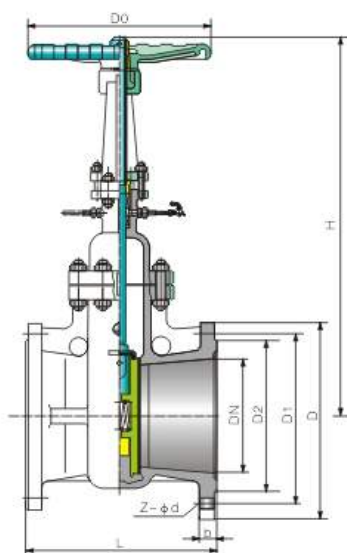
注: PN1.6(16)阀门允许作为PN1.0(10)压力级选用。
Annotation: PN1.6(16) valve is permit be used as PN1.0(10).

DS/Z60H-40、64、100

DN (mm)	L	D	α	PN4.0(MPa)				PN6.4(MPa)				PN10.0(MPa)			
				D1	H	D0	WT (Kg)	D1	H	D0	WT (Kg)	D1	H	D0	WT (Kg)
50	250	64	37° 30'	49	345	300	30	50	350	300	34	49	350	300	37
65	270	83	37° 30'	67	441	300	38	66	447	300	41	64	447	300	44
80	280	96	37° 30'	79	495	350	42	77	499	350	45	75	499	350	47
100	300	117	37° 30'	101	575	350	52	99	582	400	55	97	582	400	57
125	325	144	37° 30'	126	587	400	80	129	590	400	83	125	590	400	87
150	350	172	37° 30'	152	607	400	107	150	611	450	110	145	611	450	113
200	400	223	37° 30'	200	740	450	164	198	745	550	169	190	747	550	172
250	450	278	37° 30'	252	863	550	191	246	867	650	195	236	869	650	198
300	500	330	37° 30'	302	1008	650	254	294	1008	750	260	282	1013	750	265
350	550	382	37° 30'	350	1142	750	499	342	1148	800	504	334	1148	850	508
400	650	432	37° 30'	397	1527	850	598	387	1531	900	604	377	1533	950	610

●主要外形尺寸及重量 Main size of outside & weight

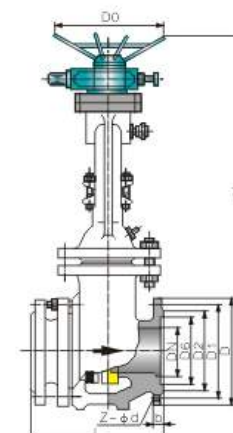
DN (mm)	主要外形尺寸和连接尺寸(mm) Main external and connecting dimensions										手动Manual		电动Electrically		
	L	D	D1	D2	D6	f	b	f2	Z-d	H	D0	WT (Kg)	H	电动装置 Electric device	WT (Kg)
DS/Z40H-64 DS/Z940H-64															
50	250	175	135	105	88	3	26	4	4-23	337	300	30	622	DZW10	58
65	280	200	160	130	110	3	28	4	8-23	441	300	41	714	DZW15	69
80	310	210	170	140	121	3	30	4	8-23	496	350	45	765	DZW20I	73
100	350	250	200	168	150	3	32	4.5	8-25	578	400	62	840	DZW20I	90
125	400	295	240	202	176	3	36	4.5	8-30	588	400	97	852	DZW30	124
150	450	340	280	240	204	3	38	4.5	8-34	610	450	115	875	DZW30	142
200	550	405	345	300	260	3	44	4.5	12-34	744	550	172	1195	DZW45	270
250	650	470	400	352	313	3	48	4.5	12-41	867	650	211	1225	DZW60	317
300	750	530	460	412	364	4	54	4.5	16-41	996	750	271	1393	DZW90O	399
350	850	595	525	475	422	4	60	5	16-41	1142	850	518	1507	DZW120I	647
400	950	670	585	525	474	4	66	5	16-48	1537	900	633	2075	DZW180	882
DS/Z40H-100 DS/Z940H-100															
50	250	195	145	112	88	3	28	4	4-25	337	300	34	622	DZW10	62
65	280	220	170	138	110	3	32	4	8-25	441	300	46	714	DZW15	74
80	310	230	180	148	121	3	34	4	8-25	496	350	50	765	DZW20I	78
100	350	265	210	172	150	3	38	4.5	8-30	578	400	67	840	DZW30I	95
125	400	310	250	210	176	3	42	4.5	8-34	588	400	102	852	DZW30	129
150	450	350	290	250	204	3	46	4.5	12-34	610	450	121	875	DZW45	221
200	550	430	360	312	260	3	54	4.5	12-41	744	550	178	1195	DZW60	235
250	650	500	430	382	313	3	60	4.5	12-41	867	650	217	1225	DZW90I	345
300	750	585	500	442	364	4	70	4.5	16-48	996	750	278	1393	DZW120I	409
350	850	655	560	498	422	4	76	5	16-54	1142	850	524	1507	DZW180	773
400	950	715	620	558	474	4	80	5	16-54	1537	950	640	2075	DZW250	892



● 主要外形尺寸及重量 Main size of outside & weight

DS/Z44H-40 DS/Z944H-40

DN (mm)	主要外形尺寸和连接尺寸(mm) Main external and connecting dimensions									手动 Manuall			电动 Electrically		
	L	D	D1	D2	D6	f	b	f2	Z-d	H	D0	WT (Kg)	H	电动装置 Electric device	WT (Kg)
50	250	160	125	100	88	3	20	4	4-18	330	300	27	620	DZW10	55
65	270	180	145	120	110	3	22	4	8-18	435	300	38	714	DZW10	65
80	280	195	160	135	121	3	22	4	8-18	491	350	42	765	DZW15	70
100	300	230	190	160	150	3	24	4.5	8-23	573	350	57	840	DZW20I	86
125	325	270	220	188	176	3	28	4.5	8-25	582	400	91	852	DZW20I	120
150	350	300	250	218	204	3	30	4.5	8-25	605	400	110	875	DZW30	138
200	400	375	320	282	260	3	38	4.5	12-30	739	450	169	1015	DZW30	200
250	450	445	385	345	313	3	42	4.5	12-34	862	550	207	1225	DZW40	298
300	500	510	450	408	364	4	46	4.5	16-34	990	650	266	1371	DZW60	383
350	550	570	510	465	422	4	52	5	16-34	1139	750	513	1507	DZW90I	601
400	600	655	585	535	474	4	58	5	16-41	1523	850	627	1912	DZW120	866



● 主要外形尺寸及重量 Main size of outside & weight

PN	DN (mm)	L	D	D1	D2	D6	b	f	Z-d	H	D0	WT (Kg)
1.6MPa	50	250	160	125	100	-	16	3	4-18	335	250	60
	80	280	195	160	135	-	20	3	8-18	510	280	78
	100	300	215	180	155	-	20	3	8-18	685	300	96
	150	350	280	240	210	-	24	3	8-23	790	300	158
	200	400	335	295	265	-	26	3	12-23	885	350	222
	250	450	405	355	320	-	30	3	12-25	1015	400	289
	300	500	460	410	375	-	30	3	12-25	1190	450	365
	350	550	520	470	435	-	34	4	16-25	1350	500	558
	400	600	580	525	485	-	36	4	16-25	1460	500	850
	450	650	640	585	545	-	40	4	20-30	1620	550	1164
2.5MPa	500	700	705	650	608	-	44	4	20-34	1800	550	1482
	50	250	160	125	100	-	20	3	4-18	335	250	99
	80	280	195	160	135	-	22	3	8-18	510	280	118
	100	300	230	190	160	-	24	3	8-23	685	300	147
	150	350	300	250	218	-	30	3	8-25	790	300	204
	200	400	360	310	278	-	34	3	12-25	885	350	273
	250	450	425	370	332	-	36	3	12-30	1015	400	373
	300	500	485	430	390	-	40	4	16-30	1190	450	478
	350	550	550	490	448	-	44	4	16-34	1350	500	680
	400	600	610	550	505	-	48	4	16-34	1460	500	1008
4.0MPa	450	650	660	600	555	-	50	4	20-34	1620	550	1344
	500	700	730	660	610	-	52	4	20-41	1800	550	1827

● 主要外形尺寸及重量 Main size of outside & weight

PN	DN (mm)	L	D	D1	D2	D6	b	f	Z-d	H	D0	WT(Kg)
4.0MPa	50	250	160	125	100	88	20	3	4-18	3400	250	98
	80	310	195	160	135	121	22	3	8-18	508	300	126
	100	350	230	190	160	150	24	3	8-23	680	300	156
	150	450	300	250	218	204	30	3	8-25	800	400	228
	200	550	375	320	282	260	38	3	12-30	875	500	298
	250	650	445	385	345	313	42	3	12-34	1010	500	372
	300	750	510	450	408	364	46	4	16-34	1180	550	450
	350	850	570	510	465	422	52	4	16-34	1145	600	530
	400	950	655	585	535	474	58	4	16-41	1280	600	610
	450	1050	680	610	560	524	60	4	20-41	1415	700	690
6.4MPa	500	1150	755	670	612	576	62	4	20-48	1560	750	772
	50	250	175	135	105	88	26	3	4-23	340	250	142
	80	310	210	170	140	121	30	3	8-23	508	300	168
	100	350	250	200	168	150	32	3	8-25	680	300	210
	150	450	340	280	240	204	38	3	8-34	800	400	270
	200	550	405	345	300	260	44	3	12-34	875	500	367
	250	650	470	400	352	313	48	3	12-41	1010	500	450
	300	750	530	460	415	364	54	4	16-41	1180	550	532
	350	850	595	525	475	422	60	4	16-41	1145	600	548
	400	950	670	585	525	474	66	4	16-48	1280	600	615
6.4MPa	450	1050	715	630	570	524	70	4	20-48	1415	700	695
	500	1150	800	705	610	570	76	4	20-54	1560	750	778

● 产品采用标准 Technical specification

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

注：阀门连接法兰尺寸可根据用户要求设计制造。

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

● 产品性能规范 Products performance specification

压力等级 Pressure	常温试验压力(MPa) Testing pressure at constant temperature (Mpa)				适用温度 Applicable temperature	适用介质 Applicable medium	
	壳体试验 The shell testing	左密封 The left sealing	右密封 Right sealing	低压气密封 Low pressure air tightness		普通型 Ordinary type	抗硫型 Antisulphur type
公称压力 (MPa) Nominal rating pressure (PN)	1.6	2.4	1.76	1.76	0.6	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		
磅级(Lb) Pound grade (Class)	16.0	24.0	17.6	17.6	0.6	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	0.6		
	900	22.5	17.5	17.5	0.6		

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

注：本公司可根据用户要求提供产品。

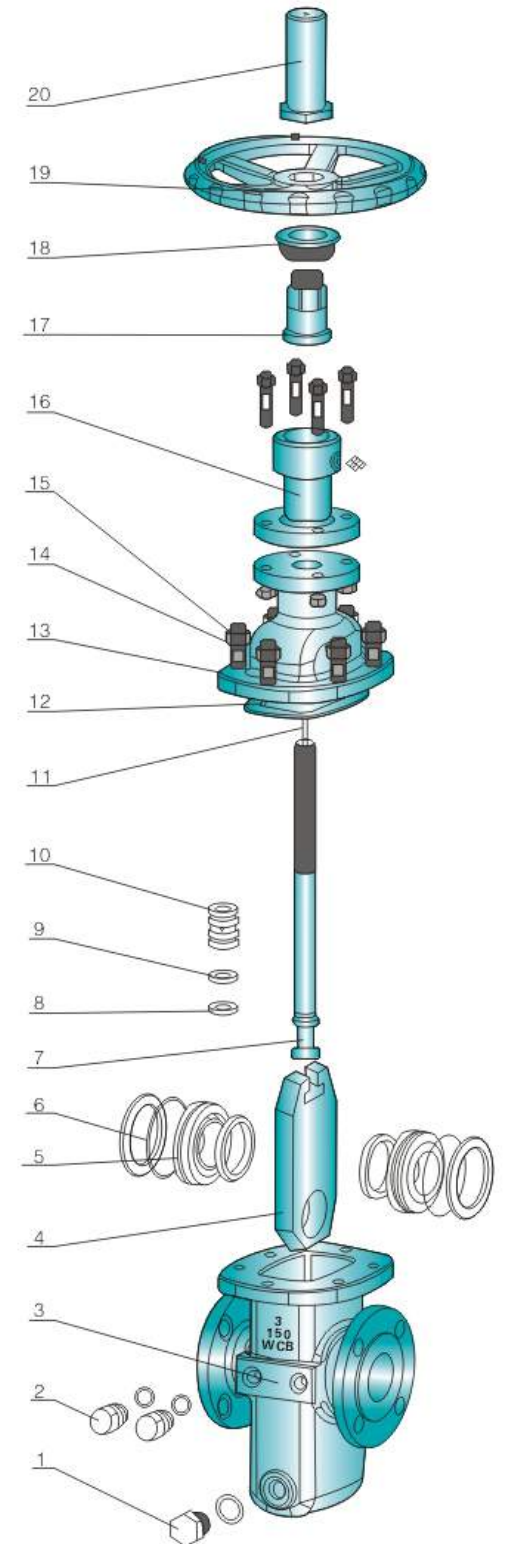
Notes: Our company can provide products at customers' request.

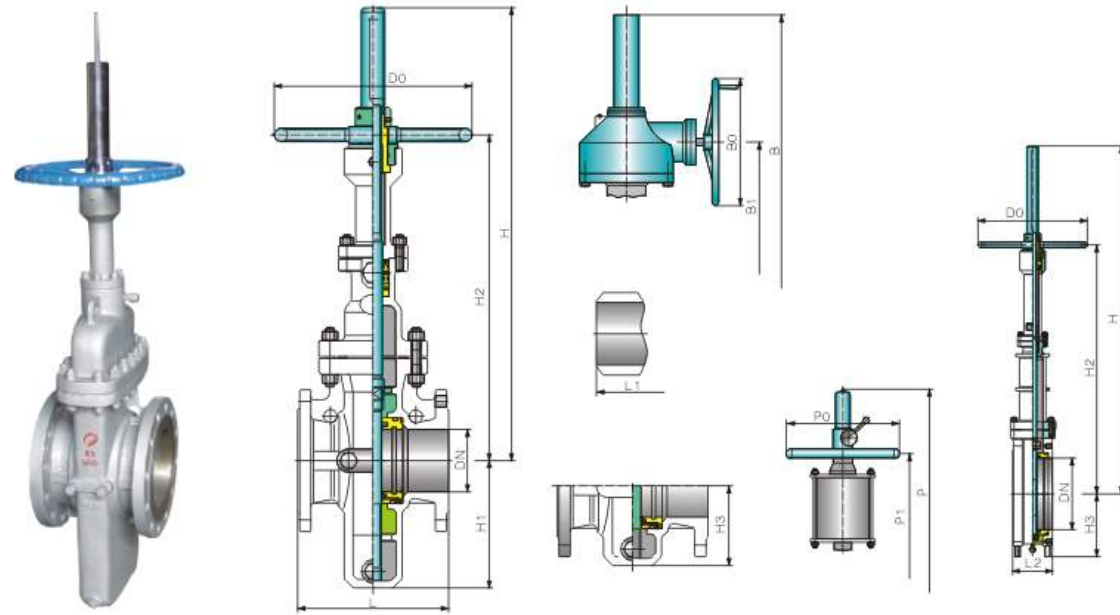
● 主要零件材料 Major parts material form

序号 No.	零件名称 Accessory name	材 料 Material			
		普通型 Ordinary type		抗硫型 Antisulphur type	
		GB	ASTM	GB	ASTM
1	排污堵头 Blowdown stops	25+Zn	A105+Zn	1Cr18Ni9	A276-304
2	注脂接头 Grease injection joint	25+Zn	A105+Zn	25+Zn	A105+Zn
3	阀体 Body	WCB	A216-WCB	WCB	A216-WCB
4	闸板 Gate disc	16Mn+ENP	A105+ENP	1Cr18Ni9	A276-304
5	阀座 Seat	16Mn+PTFE	A105+PTFE	1Cr18Ni9+PTFE	A276-304+PTFE
6	O形圈 O-Ring	NBR	NBR	FPM	FPM
7	阀杆 Stem	2Cr13	A276-420	1Cr18Ni9	A276-304
8	填料座 Packing seat	2Cr13	A276-420	2Cr13	A276-420
9	Y型圈 Y-ring	NBR	NBR	FPM	FPM
10	密封套 Sealing shroud	2Cr13	A276-420	2Cr13	A276-420
11	指示杆 Indicating stem	1Cr18Ni9	A276-304	1Cr18Ni9	A276-304
12	垫片 Gasket	柔性石墨+1Cr18Ni9 Graphite+1Cr18Ni9	柔性石墨+304 Graphite+304	柔性石墨+1Cr18Ni9 Graphite+1Cr18Ni9	柔性石墨+304 Graphite+304
13	阀盖 Bonnet	WCB	A216-WCB	WCB	A216-WCB
14	螺柱 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	25	A105	25	A105

注：阀门主要零部件材质可根据实际工况条件或用户特殊要求设计选用。

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

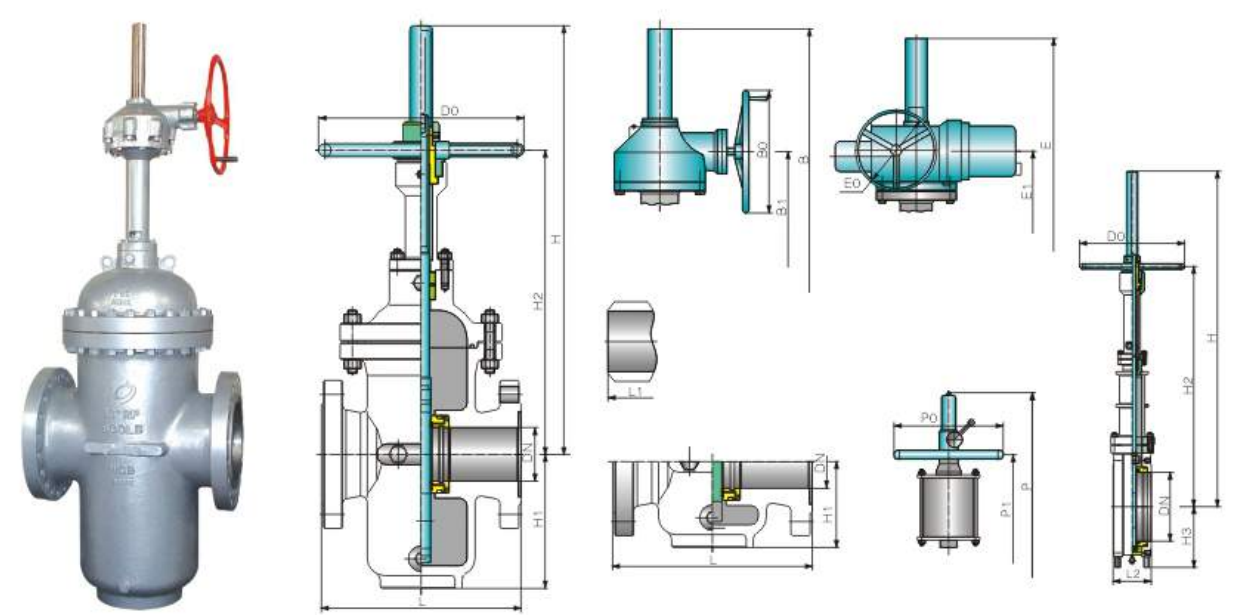




● 主要外形尺寸及重量 Main size of outside & weight

型号 Model: (K)Z5(6、9)4(6)3(4)W(P)(F、Y、D)PN1.6、2.5MPa PN2.0MPa(Class150)

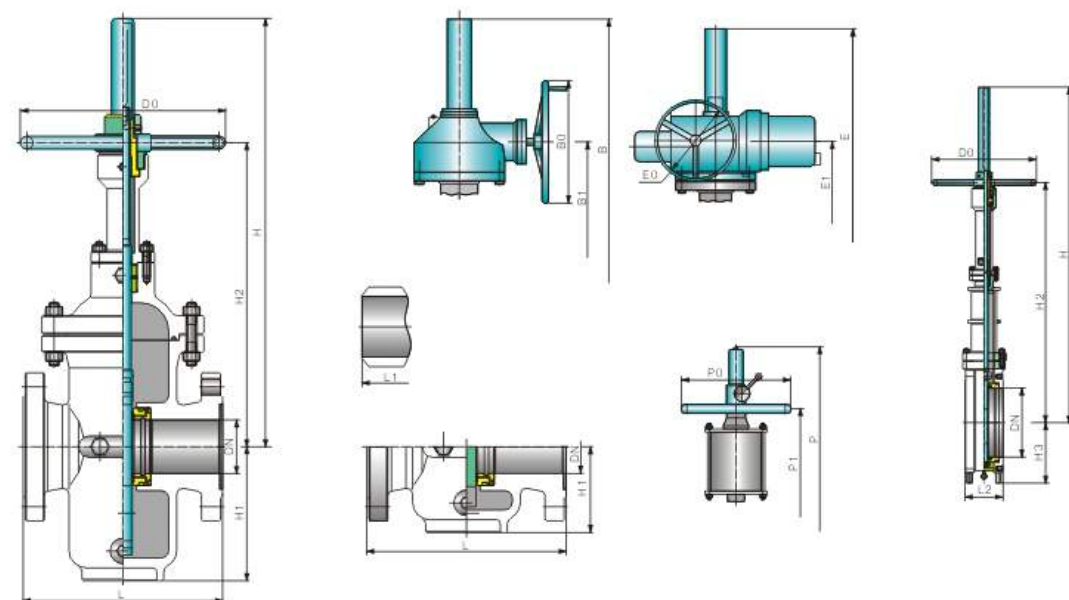
DN (mm)	NPS (in)	法兰 Flange		对焊 Butt welding	轻型 Light- duty	手 动 Hand-operated			齿 动 Geared driving			气动 液动 Air-operating and Fluid driving			电 动 Electric driving device			电动装置 Electric driving device	无导流孔 Non-diversion hole type	有导流孔 Diversion hole type
		L	L1			H	H2	D0	B	B1	B0	P	P1	P0	E	E1	E0			
25	1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



● 主要外形尺寸及重量 Main size of outside & weight

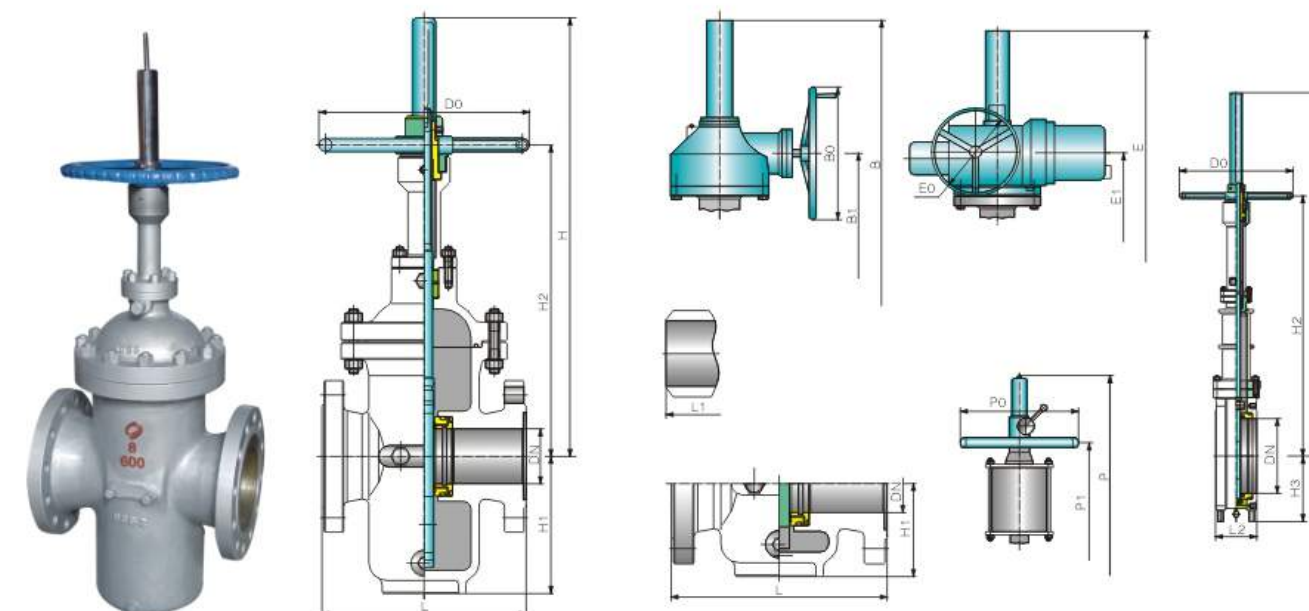
型号 Model: (K)Z5(6、9)4(6)3(4)W(P)(F、Y、D)PN4.0MPa PN5.0MPa(Class300)

DN (mm)	NPS (in)	法兰 Flange		对焊 Butt weld- ing	轻型 Light- duty	手 动 Hand-operated			齿 动 Geared driving			齿动装置 Geared driving	气动 液动 Air-operating and Fluid driving			电 动 Electric driving device			电动装置 Electric driving device	无导流孔 Non-diversion hole type	有导流孔 Diversion hole type
		L				H	H2	D0	B	B1	B0		P	P1	P0	E	E1	E0		H3	H1
		GB	API																	L1	L2
25	1	165	165	165	-	370	260	180	-	-	-	-	-	-	-	-	-	-	-	70	90
32	1 1/4	178	178	178	-	385	270	180	-	-	-	-	-	-	-	-	-	-	-	80	115
40	1 1/2	190	190	190	-	420	300	250	-	-	-	-	-	-	-	-	-	-	-	85	130
50	2	216	216	216	-	458	325	250	-	-	-	-	533	435	200	-	-	-	-	100	137
65	2 1/2	241	241	241	-	555	420	300	-	-	-	-	653	565	200	-	-	-	-	106	169
80	3	283	283	283	-	615	430	300	-	-	-	-	735	635	250	-	-	-	-	124	184
100	4	305	305	305	150	710	500	300	770	650	310	BA-0	860	730	250	912	790	200	SMC-04	146	218
150	6	403	403	403	150	900	625	350	965	800	310	BA-0	1125	925	350	1155	960	500	SMC-03	206	311
200	8	419	419	419	180	1135	790	350	1200	960	310	BA-0	1435	1165	350	1390	1120	305	SMC-00	241	382
250	10	457	457	457	180	1401	1040	400	1360	1090	310	BA-0	1776	1450	400	1543	1240	305	SMC-00	251	476
300	12	502	502	502	200	1580	1150	450	1560	1200	310	BA-1	2030	1620	450	1745	1400	305	SMC-0	281	545
350	14	572	762	762	200	-	-	-	1740	1350	460	BA-1	2305	1900	500	1945	1580	305	SMC-0	325	645
400	16	610	838	838	218	-	-	-	1930	1540	460	BA-1	2558	2100	600	2135	1640	305	SMC-0	360	728
450	18	660	914	914	218	-	-	-	2160	1700	460	BA-1	2835	2320	700	2385	1840	305	SMC-1	400	800
500	20	711	991	991	229	-	-	-	2420	1850	460	BA-2	3120	2510	800	2660	2050	305	SMC-1	430	930
600	24	787	1143	1143	248	-	-	-	2800	2120	460	BA-2	3670	2980	900	3010	2310	305	SMC-1	497	1100
700	28	914	1346	1346	286	-	-	-	3200	2460	460	BA-2	-	-	-	3480	2680	458	SMC-2	560	1260
800	32	965	1524	1524	286	-	-	-	3640	2800	460	BA-2	-	-	-	3890	3020	458	SMC-2	620	1420
900	36	1016	1727	1727	-	-	-	-	4050	3080	600	BA-3	-	-	-	4260	3200	458	SMC-2	610	1510



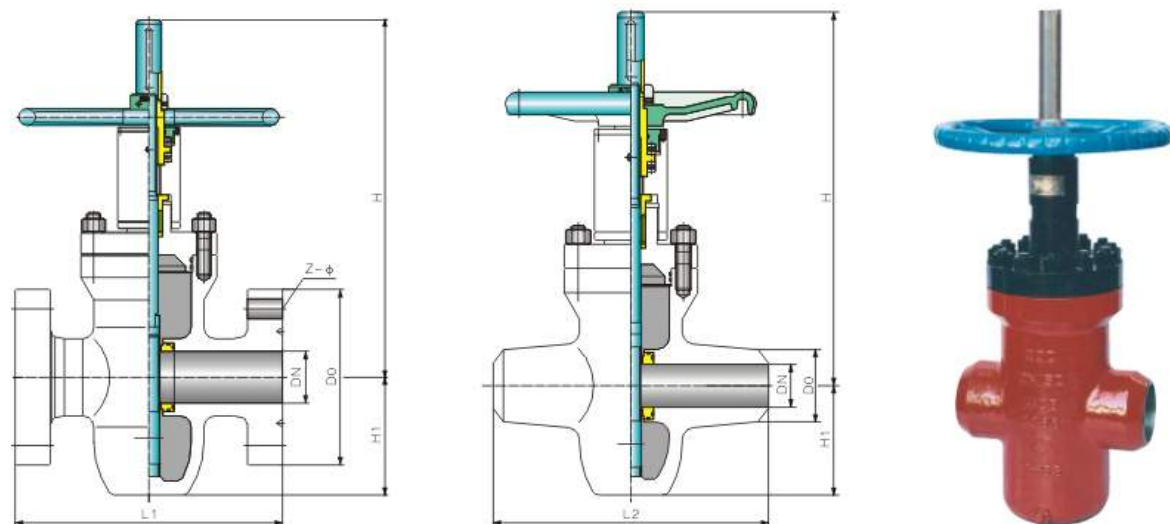
● **主要外形尺寸及重量 Main size of outside & weight** 型号 Model: (K)Z5(6、9)4(6)3(4)W(P)(F、Y、D)PN6.4MPa (Class400)

DN (mm)	NPS (in)	法兰 Flange		对焊 Butt weld -ing	手 动 Hand-operated			齿 动 Geared driving			齿动装置 Geared driving	气动 液动 Air-operating and Fluid driving			电 动 Electric driving device			电动装置 Electric driving device	无导流孔 Non-diversion hole type	有导流孔 Diverison hole type	
		L			L1	H	H2	D0	B	B1		B0	P	P1	P0	E	E1		E0	H3	H1
		GB	API																		
50	2	216	292	292	458	325	300	505	430	310	BA-0	533	435	200	647	560	200	SMC-04	108	158	
65	2 1/2	241	330	330	555	420	300	560	470	310	BA-0	653	565	200	702	610	200	SMC-04	125	190	
80	3	283	356	356	615	430	350	610	510	310	BA-0	735	635	250	752	650	500	SMC-03	145	225	
100	4	305	406	406	710	500	350	770	650	310	BA-0	860	730	250	912	790	500	SMC-03	165	255	
150	6	403	495	495	900	625	400	965	800	310	BA-0	1125	925	350	1138	950	305	SMC-00	220	330	
200	8	419	597	597	1135	790	500	1200	960	310	BA-0	1435	1165	350	1373	1100	305	SMC-00	280	410	
250	10	457	673	673	1401	1040	500	1370	1090	460	BA-1	1776	1450	400	1575	1280	305	SMC-0	330	490	
300	12	502	762	762	1580	1150	600	1560	1200	460	BA-1	2030	1620	450	1725	1390	305	SMC-0	380	570	
350	14	762	826	826	-	-	-	1740	1350	460	BA-1	2305	1900	500	1930	1570	305	SMC-1	430	650	
400	16	838	902	902	-	-	-	1970	1540	460	BA-2	2558	2100	600	2210	1700	305	SMC-1	480	735	
450	18	914	978	978	-	-	-	2260	1700	460	BA-2	2835	2320	700	2500	1940	305	SMC-1	530	810	
500	20	991	1054	1054	-	-	-	2420	1850	460	BA-2	3120	2510	800	2630	2020	458	SMC-2	580	905	
600	24	1143	1232	1232	-	-	-	2800	2120	600	BA-3	-	-	-	3050	2350	458	SMC-2	670	1070	
700	28	1346	1397	1397	-	-	-	3230	2460	600	BA-3	-	-	-	3480	2680	458	SMC-2	770	1230	



●主要外形尺寸及重量 Main size of outside & weight 型号 Model: (K)Z5(6、9)4(6)3(4)W(P)(F、Y、D)PN10.0MPa (Class600)

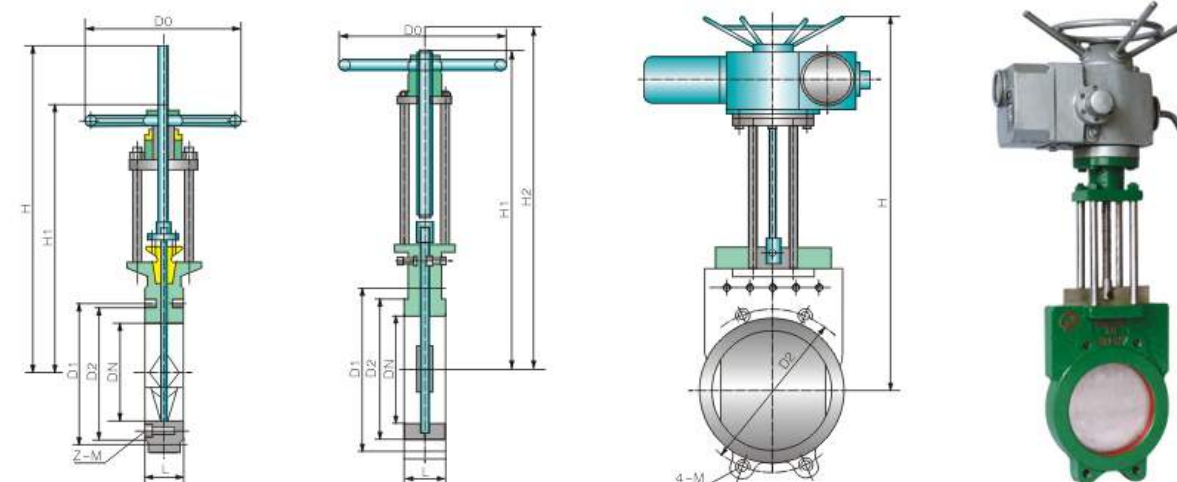
DN (mm)	NPS (in)	法兰 Flange		对焊 Butt weld- ing	手 动 Hand-operated			齿 动 Geared driving			齿动装置 Geared driving	气 动 液 动 Air-operating and Fluid driving			电 动 Electric driving device			电动装置 Electric driving device	无导流孔 Non-diversion hole type	有导流孔 Diversion hole type	
		L			L1	H	H2	D0	B	B1		B0	P	P1	P0	E	E1		E0	H3	H1
		GB	API																		
50	2	250	292	292	468	335	300	505	430	310	BA-0	543	445	200	647	560	200	SMC-04	108	158	
65	2 1/2	280	330	330	565	430	300	560	470	310	BA-0	663	570	200	702	610	200	SMC-04	125	190	
80	3	310	356	356	625	440	350	610	510	310	BA-0	745	640	250	752	650	500	SMC-03	145	225	
100	4	350	432	432	720	510	350	770	650	310	BA-0	870	740	250	950	820	500	SMC-03	165	255	
150	6	450	559	559	910	630	400	965	800	310	BA-0	1135	930	350	1138	950	305	SMC-0	220	330	
200	8	550	660	660	1145	800	500	1200	960	310	BA-1	1445	1170	350	1403	1130	305	SMC-0	280	410	
250	10	650	787	787	1411	1050	500	1370	1090	460	BA-1	1786	1460	400	1575	1280	305	SMC-0	330	490	
300	12	750	838	838	1590	1160	600	1560	1200	460	BA-1	2040	1630	450	1750	1410	305	SMC-1	380	570	
350	14	850	889	889	-	-	-	1740	1350	460	BA-2	-	-	-	1930	1570	305	SMC-1	430	650	
400	16	950	991	991	-	-	-	1970	1540	460	BA-2	-	-	-	2210	1700	305	SMC-1	480	735	
450	18	1050	1092	1092	-	-	-	2260	1700	460	BA-2	-	-	-	2500	1940	458	SMC-2	530	810	
500	20	1150	1194	1194	-	-	-	2420	1850	460	BA-2	-	-	-	2630	2020	458	SMC-2	580	905	



● 主要外形尺寸及重量 Main size of outside & weight

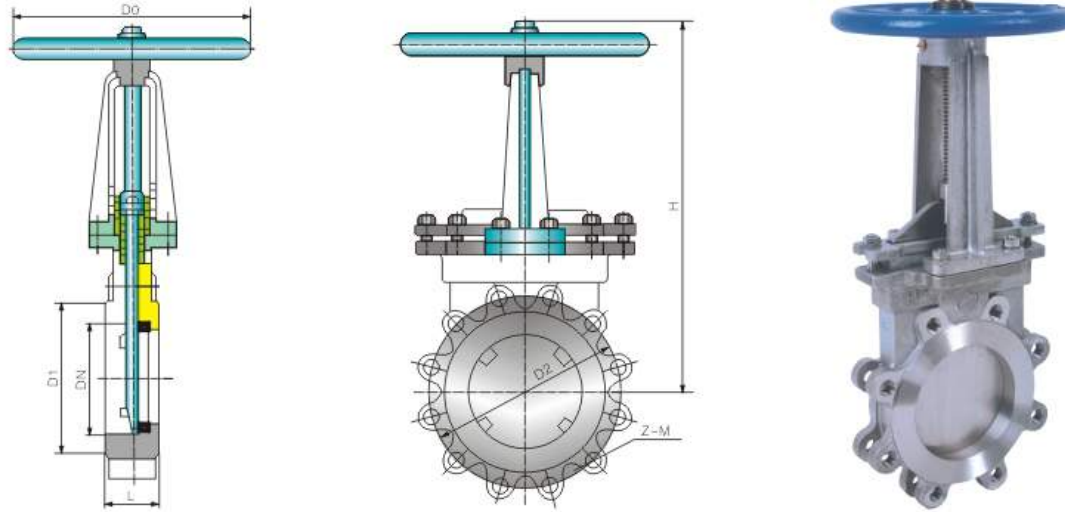
型号 Model: ZF43Y, ZF63Y, ZF83Y

公称压力 Nominal pressure PN(MPa)	DN (mm)	尺寸 Dimensions(mm)					公称压力 Nominal pressure PN(MPa)	DN (mm)	尺寸 Dimensions(mm)				
		L1	L2	D0	H1	H			L1	L2	D0	H1	H
10.0 16.0	25	230	216	180	85	344	32.0 35.0	25	230	254	180	90	344
	32	260	229	220	98	352		32	260	279	220	103	352
	40	260	241	260	110	364		40	260	305	260	115	364
	50	300	310	310	120	379		50	300	368	310	125	379
	65	340	340	350	133	402		65	340	419	350	137	402
	80	380	356	400	158	475		80	380	470	400	164	475
	100	430	432	460	198	482		100	430	546	460	198	482
	125	500	508	460	240	490		125	500	673	460	240	490
	150	550	559	470	260	547		150	550	705	470	260	547
	200	650	660	600	358	616		200	650	832	600	358	616
20.0 25.0	25	230	254	180	87	344	40.0 42.0	25	230	254	180	92	344
	32	260	279	220	100	352		32	260	279	220	105	352
	40	260	305	260	112	364		40	260	305	260	117	364
	50	300	368	310	122	379		50	300	368	310	127	379
	65	340	419	350	135	402		65	340	419	350	139	402
	80	380	470	400	160	475		80	380	470	400	166	475
	100	430	546	460	198	482		100	430	546	460	198	482
	125	500	673	460	240	490		125	500	673	460	240	490
	150	550	705	470	260	547		150	550	705	470	260	547
	200	650	832	600	358	616		200	650	832	600	358	616



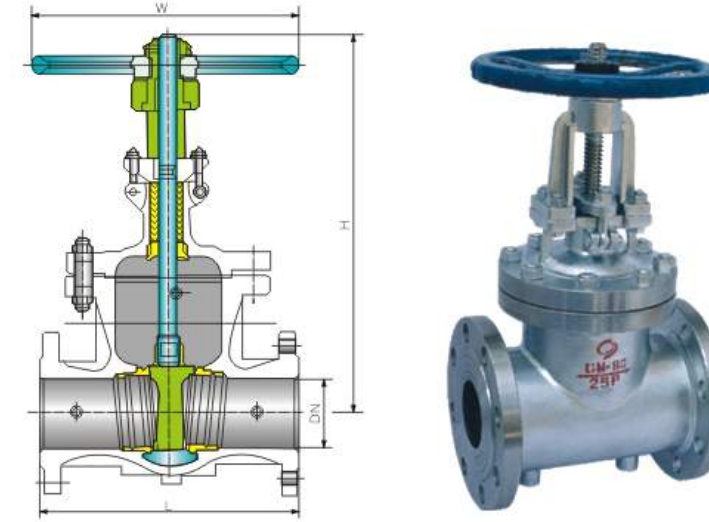
● 主要外形尺寸及重量 Main size of outside & weight

DN (mm)	L	D1	D2	Z-M	H	H1	D0	WT (Kg)
Z73X-2.5 Z73X-6 Z73X-10 Z573X-2.5 Z573X-6 Z573X-10 Z673X-2.5 Z673X-6 Z673X-10 Z973X-2.5 Z973X-6 Z973X-10								
50	40	125	100	4-M16	337	268	180	80
65	40	145	120	4-M16	357	291	180	90
80	50	160	135	8-M16	400	316	180	112
100	50	180	155	8-M16	466	364	200	140
150	60	270	210	8-M20	633	478	240	195
200	60	295	265	8-M20	744	543	280	260
250	70	350	318	12-M20	940	687	360	370
300	70	400	368	12-M20	1087	783	360	455
350	80	460	430	16-M20	1238	885	400	640
400	80	515	482	16-M24	1394	994	400	960
450	90	565	532	20-M24	1550	1100	400	1280
500	90	620	585	20-M24	1700	1200	400	1710
600	100	725	685	20-M27	2080	1480	400	1895
700	100	840	800	24-M27	1720	2470	800	2100
800	120	950	905	24-M30	2000	2900	800	2410
900	150	1050	1005	28-M30	2130	3100	800	2660
Z73X-16C Z573X-16C Z673X-16C Z973X-16C								
200	60	295	180	12-M20	754	552	240	265
250	68	355	230	12-M24	945	692	240	376
300	78	410	280	12-M24	1010	788	370	455
350	78	470	330	16-M24	1245	890	370	648
400	102	525	380	16-M24	1685	1000	400	970
450	114	585	430	20-M27	1835	1110	400	1300
500	127	650	480	20-M30	1926	1230	400	1760
600	154	770	700	20-M36	2360	1500	800	1980



● 主要外形尺寸及重量 Main size of outside & weight

DN (mm)	L	D	D1	D2	Z-M	H	D0	W
Z73W-10 Z73H-10C Z73W-10P Z573W-10 Z573H-10C Z573W-10P Z673W-10 Z673H-10C Z673W-10P Z973W-10 Z973H-10C Z973W-10P								
50	48	160	125	100	4-M16	285	180	8
65	48	180	145	120	4-M16	298	180	10
80	50	195	160	135	4-M16	315	220	12
100	50	215	180	155	8-M16	365	220	14
150	57	280	240	210	8-M20	475	280	29
200	70	335	295	265	8-M20	540	360	38
250	70	390	350	320	12-M20	630	360	66
300	76	440	400	368	12-M20	780	400	100
350	76	500	460	428	16-M20	885	400	119
400	89	565	515	482	16-M22	990	400	195
450	89	615	565	532	20-M22	1100	530	285
500	114	670	620	585	20-M22	1200	530	389
600	114	780	725	685	20-M27	1450	600	529
Z73H-16C Z73W-16P Z73Y-16P Z573H-16C Z573W-16P Z573Y-16P Z673H-16C Z673W-16P Z673Y-16P Z973H-16C Z973W-16P Z973Y-16P								
50	48	165	125	99	4-M16	285	180	8.5
65	48	185	145	118	4-M16	295	180	10.7
80	50	200	160	132	8-M15	315	220	13
100	50	220	180	156	8-M16	365	220	15
150	57	285	240	211	8-M20	475	280	31
200	70	340	295	266	12-M20	540	360	40.7
250	70	405	355	319	12-M24	630	360	70
300	76	460	410	370	12-M24	780	400	107
350	76	520	470	429	16-M24	885	400	129
400	89	580	525	480	16-M27	990	400	215
450	89	640	585	548	20-M27	1100	530	305
500	114	715	650	609	20-M30	1200	530	410
600	114	840	775	720	20-M33	1450	600	550



● 应用规范 Application norm

- 1、设计制造按GB12234-89
Design Manufacture According to GB12234-89
- 2、结构长度按GB12221-89
Face to Face According to GB12221-89
- 3、法兰尺寸按JB/T79-94
Flange Dimension According to JB/T79-94
- 4、阀门检查和试验按GB13927
Valve Check and Test According to GB13927

● 结构 Structure

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

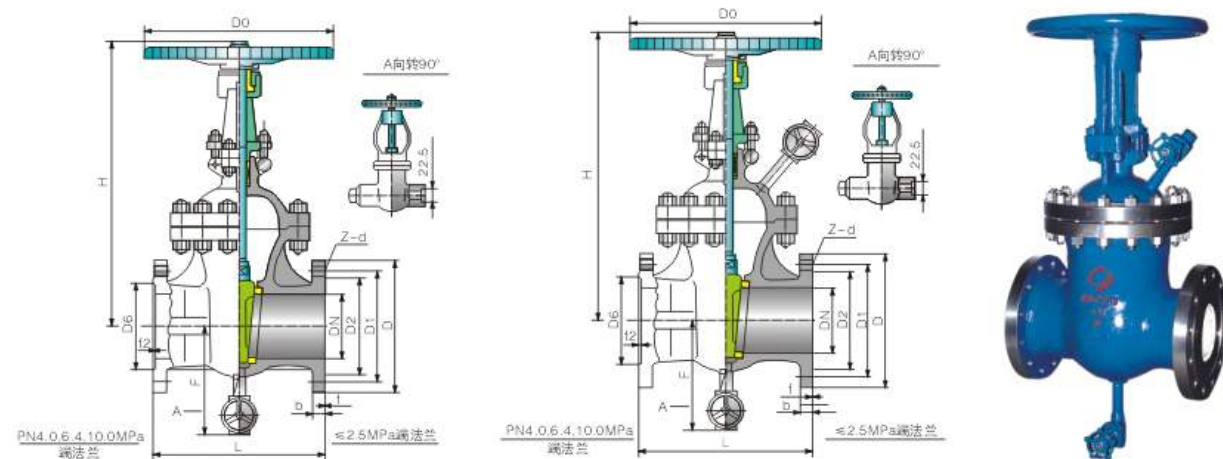
● 主要零件材料 Main parts and materials

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

● 主要外形尺寸及重量 Main size of outside & weight

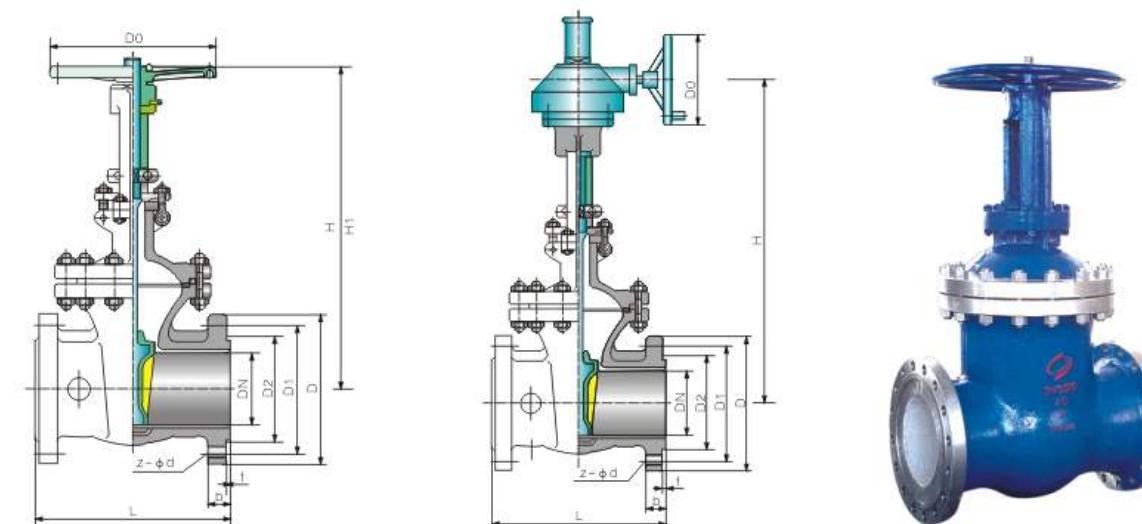
2.5MPa											
尺寸 Dimension	DN	40	50	65	80	100	125	150	200	250	300
L	mm	200	250	265	280	300	325	350	400	450	500
H	mm	310	358	373	435	500	614	674	818	969	1145
W	mm	200	240	240	280	300	320	360	400	450	560

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



● 主要外形尺寸及重量 Main size of outside & weight

型号 Type	温度 Temper- ature (°C)	PN(MPa)	规格size DN(mm)	主要连接尺寸 Main Connection Dimensions (mm)					重量 Wt(Kg)
				L	D	D1	H	Z-d	
吹 ₁ 吹 ₂ Z40Y-16 ^{P1} _{P2} ^{P3}	400~800°C	1.6	65	265	180	145	473	4-18	46
			80	280	195	160	520	8-18	66
			100	300	215	180	623	8-18	90
			150	350	280	240	867	8-23	145
			200	400	335	195	1060	12-23	205
			250	450	405	355	1228	12-25	280
			300	500	460	410	1416	12-25	405
			350	550	520	170	1683	16-25	595
			400	600	580	525	1881	16-30	855
吹 ₁ 吹 ₂ Z40Y-25 ^{P1} _{P2} ^{P3}	400~800°C	2.5	50	250	160	125	400	4-18	42
			65	265	180	145	473	8-18	46
			80	280	195	160	520	8-18	66
			100	300	230	190	623	8-23	90
			150	350	300	250	867	8-25	145
			200	400	360	310	1060	12-25	205
			250	450	425	370	1228	12-30	285
			300	500	485	430	1416	16-30	405
			350	550	550	490	1683	16-34	595
			400	600	610	550	1881	16-34	855
			500	700	730	660	2310	20-41	1281
			600	800	840	770	2826	20-41	2459
吹 ₁ 吹 ₂ Z40Y-40 ^{P1} _{P2} ^{P3}	400~800°C	4.0	50	250	160	125	454	4-18	50
			80	310	195	160	600	8-18	86
			100	350	230	190	684	8-23	116
			150	450	300	250	900	8-25	186
			200	550	375	320	1110	12-20	310
			250	650	445	385	1348	12-34	460
			300	750	510	450	1492	12-34	610



● 概述 Outline

高温衬里耐磨闸阀，主要用于炼油厂催化装置，输送含颗粒的催化剂高温烟气，工作压力为0.2~0.4MPa，工作温度≤730°，介质粒度为20~40U，流速为18m/s，公称压力为PN1.6~4.0MPa。

Abrasive gate valve with high-temperature lining is mainly used for catalysis device of oil refinery, with which to deliver catalytic agent containing particles (high-temperature smog), its operation pressure 0.2~0.4MPa, Operation temperature≤730°, granularity of medium 20~40U, flow speed at 18m/s, in addition, nominal pressure at PN1.6~4.0MPa.

● 主要外形尺寸及重量 Main size of outside & weight

型号 Type	PN(MPa)	规格size DN(mm)	主要连接尺寸 Main Connection Dimensions (mm)					重量 Wt(Kg)
			L	D	D1	H	Z-d	
Z40Y • GY-25P ^I Z40Y • GY-25P ^{II} Z40Y • GY-25P ^{III}	2.5	100	300	230	190	473	8-23	64
		150	350	300	250	866.5	8-25	114
		200	400	360	310	1060	12-25	225
		250	450	425	370	1228	12-30	292
		300	500	485	430	1416	16-30	400
		350	550	550	490	1655	16-34	620
		400	600	610	550	1910	16-34	974
		500	700	730	660	2261	20-41	1750
		600	800	840	770	3022	20-41	2650
Z40Y • GY-40 ^{P1} _{P2} ^{P3}	4.0	700	900	955	875	3281	24-48	3000
		100	350	230	190	681	8-23	80
		150	450	300	250	900	8-25	176
		200	550	375	320	1110	12-30	288
		250	650	445	385	1348	12-34	454
		300	750	510	450	1492	16-34	542
		350	850	570	510	1706	16-34	852
		400	950	655	585	1970	16-41	1394