



RUITONG VALVE

02

RUITONG
VALVE

GATE VALVE SERIES



API GATE VALVES

Z41W-150Lb

一、Product overview

Flange connected steel gate valves are suitable for ANSI Class 150~900 PN2.0~16.0MPaJIS10~20K, Used for cutting off or connecting media in pipelines with working temperatures of -29~425 °C (carbon steel) and -40~500 °C (stainless steel). By selecting different materials, it can be applied to various media such as water, steam, oil, nitric acid, acetic acid, strong oxidizing media, and urea. There are manual, bevel gear transmission, and electric options available.

二、Structural characteristics of

1. The product design and manufacturing comply with advanced foreign standards, with reliable sealing and excellent performance.
2. The structural design is compact and reasonable, with a beautiful appearance.
3. Adopting a wedge-shaped elastic gate structure, rolling bearings are installed on medium and large diameters for easy opening and closing.
4. The valve body material variety is complete, and the packing and gasket can be reasonably selected according to actual working conditions or user requirements to be suitable for various pressure, temperature, and medium working conditions.
5. Adopting various domestic and international piping flange standards and flange sealing surface types to meet various engineering needs and user requirements.

三、Main components material

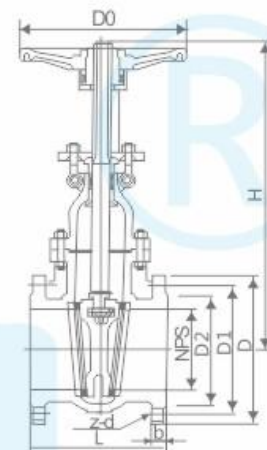
Name	Material								
Body/Bonnet	CF8	CF3	CF8M	CF3M	WCB	LCB	WC6	WC9	C5
Wedge	CF8	CF3	CF8M	CF3M	WCB	LCB	WC6	WC9	C5
Stem	F304	F304L	F316	F316L	2CR13	F304	F304	F304	F304
Stem Nut	Aluminium Bronze								
Packing	PTFE/Flexible graphite				Graphite				
Gasket	PTFE/Spiral wound gasket				Graphite				
Gland	CF8	CF3	CF8M	CF3M	WCB	LCB	WC6	WC9	C5
Bolt	Stainless Steel				35CrMoA				
Nut	Stainless Steel				45、35CrMoA				
Handwheel	Cast Steel								

四、Main external and connection dimension

Class 150LB Main connection dimensions

Unit:mm

DN	SIZE	L	D	D1	D2	b	f	n-Φd	H	D0
15	1/2"	108	90	60.3	34.9	10	2	4-16	158	100
20	3/4"	117	100	69.9	42.9	10.9	2	4-16	163	100
25	1"	127	110	79.4	50.8	11.6	2	4-16	193	125
32	1-1/4"	140	115	88.9	63.5	13.2	2	4-16	250	160
40	1-1/2"	165	125	98.4	73	14.7	2	4-16	285	160
50	2"	178	150	120.7	92.1	16.3	2	4-19	325	180
65	2-1/2"	190	180	139.7	104.8	17.9	2	4-19	350	190
80	3"	203	190	152.4	127	19.5	2	4-19	380	200
100	4"	229	230	190.5	157.2	24.3	2	8-19	460	230
125	5"	254	255	215.9	185.7	24.3	2	8-22	630	250
150	6"	267	280	241.3	215.9	25.9	2	8-22	635	260
200	8"	292	345	298.5	269.9	29	2	8-22	765	290
250	10"	330	405	362	323.8	30.6	2	12-26	895	330
300	12"	356	485	431.8	381	32.2	2	12-26	1080	350
350	14"	381	535	476.3	412.8	35.4	2	12-29	1295	380
400	16"	406	595	539.8	469.9	37	2	16-29	1435	400
450	18"	432	635	577.9	533.4	40.1	2	16-32	1625	430
500	20"	457	700	635	584.2	43.3	2	20-32	1830	450
600	24"	508	815	749.3	692.2	48.1	2	20-35	2175	500



API GATE VALVES

Class 300LB Main connection dimensions

Unit:mm

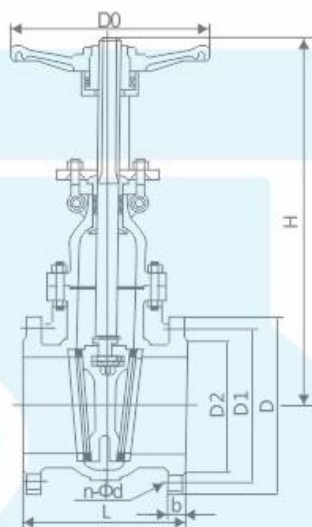
DN	SIZE	L	D	D1	D2	b	f	n-Φd	H	W
15	1/2"	140	95	66.7	34.9	14.7	2	4-16	158	100
20	3/4"	152	115	82.6	42.9	16.3	2	4-19	163	100
25	1"	165	125	88.9	50.8	17.9	2	4-19	193	125
32	1-1/4"	178	135	98.4	63.5	19.5	2	4-19	250	160
40	1-1/2"	190	155	114.3	73	21.1	2	4-22	285	160
50	2"	216	165	127	92.1	22.7	2	8-19	330	200
65	2-1/2"	241	190	149.2	104.8	25.9	2	8-22	370	240
80	3"	282	210	168.3	127	29	2	8-22	395	280
100	4"	305	255	200	157.2	32.2	2	8-22	470	300
125	5"	381	280	235	185.7	35.4	2	8-22	660	380
150	6"	403	320	269.9	215.9	37	2	12-22	715	400
200	8"	419	380	330.2	269.9	41.7	2	12-26	815	410
250	10"	457	445	387.4	323.8	48.1	2	16-29	1005	450
300	12"	502	520	450.8	381	51.3	2	16-32	1135	500
350	14"	762	585	514.4	412.8	54.4	2	20-32	1490	760
400	16"	838	650	571.5	469.9	57.6	2	20-35	1580	830
450	18"	914	710	628.6	533.4	60.8	2	24-35	2020	910
500	20"	991	775	685.8	584.2	64	2	24-35	2230	990
600	24"	1143	915	812.8	692.2	70.3	2	24-41	2650	1140

Class 600LB Main connection dimensions

Unit:mm

DN	SIZE	L	D	D1	D2	b	f	n-Φd	H	W
15	1/2"	165	95	66.7	34.9	21.3	7	4-16	158	100
20	3/4"	190	115	82.6	42.9	22.9	7	4-19	163	100
25	1"	216	125	88.9	50.8	24.5	7	4-19	193	125
32	1-1/4"	229	135	98.4	63.5	27.7	7	4-19	250	160
40	1-1/2"	241	155	114.3	73	29.3	7	4-22	285	160
50	2"	292	165	127	92.1	32.4	7	8-19	425	290
65	2-1/2"	330	190	149.2	104.8	35.6	7	8-22	485	330
80	3"	356	210	168.3	127	38.8	7	8-22	510	350
100	4"	432	275	215.9	157.2	45.1	7	8-26	610	430
125	5"	508	330	266.7	185.7	51.5	7	8-29	700	500
150	6"	559	355	292.1	215.9	54.7	7	12-29	820	550
200	8"	660	420	349.2	269.9	62.6	7	12-32	920	660
250	10"	787	510	431.8	323.8	70.5	7	16-35	1080	780
300	12"	838	560	489	381	73.7	7	16-35	1220	830
350	14"	889	605	527	412.8	76.9	7	20-38	1473	880
400	16"	991	685	603.2	469.9	83.2	7	20-41	1650	990
450	18"	1092	745	654	533.4	89.6	7	24-45	1727	1000
500	20"	1194	815	723.9	584.2	95.9	7	24-45	2019	1200
600	24"	1397	940	838.2	692.2	108.6	7	24-51	2155	1400

JIS GATE VALVE



Execution standard

Design and Manufacture	Structure Length	Connection flange	Pressure-temperature rating	Test and Inspection
JIS B2073 B2083	JIS B2002	JIS B2212 B2214	JIS B2073 B2083	JIS B2003

10K Main connection dimensions

Unit:mm

DN	SIZE	L	D	D1	D2	b	n-Φd
15	1/2"	108	95	70	52	12	4-15
20	3/4"	117	100	75	58	14	4-15
25	1"	127	125	90	70	14	4-19
32	1-1/4"	140	135	100	80	16	4-19
40	1-1/2"	165	140	105	85	16	4-19
50	2"	178	155	120	100	16	4-19
65	2-1/2"	190	175	140	120	18	4-19
80	3"	203	185	150	130	18	8-19
100	4"	229	210	175	155	18	8-19
125	5"	254	250	210	185	20	8-23
150	6"	267	280	240	215	22	8-23
200	8"	292	330	290	265	22	12-23
250	10"	330	400	355	325	24	12-25
300	12"	356	445	400	370	24	16-25
350	14"	381	490	445	415	26	16-25
400	16"	406	560	510	475	28	16-27
450	18"	432	620	565	530	30	20-27
500	20"	457	675	620	585	30	20-27

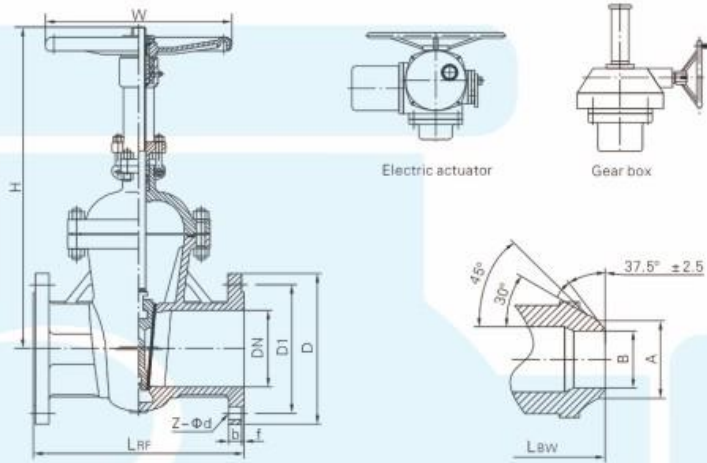
20K Main connection dimensions

Unit:mm

DN	SIZE	L	D	D1	D2	b	n-Φd
50	2"	216	155	120	100	18	8-19
65	2-1/2"	241	175	140	120	20	8-19
80	3"	283	200	160	135	22	8-23
100	4"	305	225	185	160	24	8-23
150	6"	403	305	260	230	28	12-25
200	8"	419	350	305	275	30	12-25
250	10"	457	430	380	345	34	12-27
300	12"	502	480	430	395	35	16-27
350	14"	762	540	480	440	40	16-33
400	16"	838	605	540	495	46	16-33
450	18"	914	675	605	560	48	20-33

GOST GATE VALVE

GOST9544



Standards and specifications

Design standard	GOST 5762-2002
Face to face	GOST 3706-93
Flanges connection	GOST 12815-80
Welding connection	GB/T 12224
Testing standard	ISO5208 GOST 356-80
Pressure-Temp	GB/T 12224

Performance specification

PN (Mpa)	Shell test (Mpa)	Seal test (Mpa)	Top seal test (Mpa)	Air seal test (Mpa)
1.6	2.4	1.76	1.76	0.6
2.5	3.8	2.75	2.75	
4.0	6.0	4.4	4.4	
6.3	9.5	6.9	6.9	
10.0	15.0	11.0	11.0	
16.0	24.0	17.6	17.6	
20.0	30.0	22.0	22.0	

Main part materials and property

Body Bonnet	Stem	Seat	Sealing shim	Packing	Working temperature	Suitable medium
25 L	2Cr13 F304 F316	13Cr STELLITE F304 F316	304+Flexible Graphite 316+Flexible Graphite 08 Soft Steel	Flexible Graphite PTFE	-196°C ~565°C	Water
20 GL						Steam
Lc1						Oil
CF8						Gas
12Cr18Ni9Ti						Nitric acid
CF8M						Acetic acid
0Cr18Ni12Mo2Ti						

GOST GATE VALVE

PN16 Main connection dimensions

Unit:mm

DN	LRF	L _{bw}	D	D ₁	b	Z-Φd	A	B	H	W
50	180	180	160	125	16	4-Φ18	60	50	355	200
65	190	190	180	145	20	4-Φ18	75	63	376	200
80	210	210	195	160	20	8-Φ18	91	78	435	280
100	230	230	215	180	20	8-Φ18	117	102	502	300
125	255	255	245	210	22	8-Φ18	144	128	615	320
150	280	280	280	240	22	8-Φ22	172	154	675	360
200	330	330	335	295	24	12-Φ22	223	203	820	400
250	450	450	405	355	26	12-Φ26	278	255	970	450
300	500	500	460	410	28	12-Φ26	329	305	1145	500
350	550	550	520	470	30	16-Φ26	362	337	1280	550
400	600	600	580	525	32	16-Φ30	413	387	1451	600
450	650	650	640	585	400	20-Φ30	464	438	1545	650
500	700	700	710	650	44	20-Φ33	516	489	1678	700
600	800	800	840	710	54	20-Φ36	619	591	1875	800
700	900	900	910	840	40	24-Φ36	721	695	2085	900
800	1000	1000	1020	950	42	24-Φ39	825	797	2405	950
900	1100	1100	1125	1050	44	28-Φ39	927	899	2950	1000
1000	1242	1242	1255	1170	46	28-Φ42	-	-	3244	1000

PN25 Main connection dimensions

Unit:mm

DN	L	D	D ₁	b	Z-Φd	A	B	H	W
50	250	160	125	20	4-Φ18	60	52	355	200
65	265	180	145	22	8-Φ18	75	63	376	200
80	280	195	160	24	8-Φ18	91	78	435	280
100	300	230	190	24	8-Φ22	117	102	502	300
125	325	270	220	26	8-Φ26	144	128	615	320
150	350	300	250	30	8-Φ26	172	154	675	360
200	400	360	310	34	12-Φ26	223	203	820	400
250	450	425	370	36	12-Φ30	278	255	970	450
300	500	485	430	36	16-Φ30	329	305	1145	500
350	550	550	490	38	16-Φ33	362	337	1280	550
400	600	610	550	40	16-Φ36	413	387	1451	600
450	650	670	600	46	20-Φ36	464	438	1545	650
500	700	730	660	48	20-Φ36	516	489	1678	700
600	800	840	770	58	20-Φ39	619	591	1875	800
700	900	960	875	50	24-Φ42	721	695	2085	900
800	1000	1085	990	54	24-Φ48	825	797	2405	950
900	1100	1185	1090	58	28-Φ48	927	899	2950	1000
1000	1242	1320	1210	62	28-Φ55	-	-	3244	1000

GB FLANGE GATE VALVE

Structural advantages and characteristics

- 1、Meets the domestic and foreign advanced standard requirement, the seal is reliable, the performance is fine, handsome appearance.
- 2、The damper plate, the valve seat packing surface is too vertical (stellite) with the iron-base alloy built-up welding or the department the cobalt base hard alloy built-up welding to become, wear-resisting, thermostable, anti-corrosive, the anti-abrasion performance is good, the service life is long.
- 3、Using wedge-type flexible gate structure, medium and large caliber set bearings, switches flexible, open and close easily.
- 4、Stem quenched and the nitrogen treatment, with good corrosion resistance, scratch resistance and wear resistance.
- 5、Can be used with a variety of standard pipe flanges and flange sealing surface types to meet various project needs and user requirements.
- 6、Valve body materials, variety, packing, gasket can be based on actual working conditions or the user requests a reasonable option, can be applied to all kinds of pressure, temperature and medium conditions.

Standards and norms

Design and Manufacture	Structure Length	Pressure-temperature rating	Connection flange	Test and Inspection
GB 12234	GB 12221	GB/T 12224	JB/T 79.1-2-94 GB 9113-2009 HG 20592 ~ 20635	JB/T 9092-1999 GB 13927-2005

Performance parameter

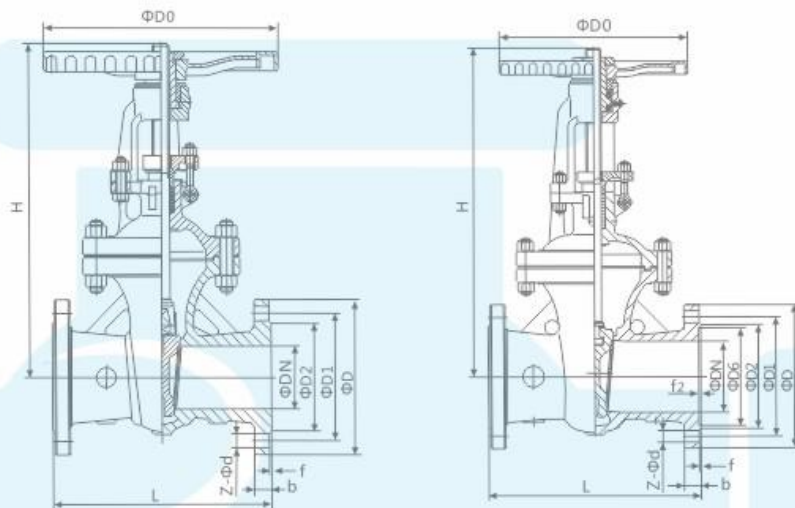
No.	Entry name	Entry name					
		PN16	PN25	PN40	PN64	PN100	PN160
1	Nominal pressure PN(MPa)	1.6	2.5	4.0	6.4	10	16
2	Shell strength test pressure(MPa)	1.5 Times the nominal pressure at room temperature					
3	High-pressure sealing Test pressure(MPa)	1.1Times the nominal pressure at room temperature					
4	at room temperature(MPa)	According to GB/T 12224 pressure temperature rating					

Main components material

Name	材料 Material								
Body/Bonnet	CF8	CF3	CF8M	CF3M	WCB	LCB	WC6	WC9	C5
Wedge	CF8	CF3	CF8M	CF3M	WCB	LCB	WC6	WC9	C5
Stem	F304	F304L	F316	F316L	2CR13	F304	F304	F304	F304
Stem Nut	Aluminium Bronze								
Packing	Flexible graphite				Graphite				
Gasket	Spiral wound gasket				Graphite				
Gland	CF8	CF3	CF8M	CF3M	WCB	LCB	WC6	WC9	C5
Bolt	Stainless Steel				35CrMoA				
Nut	Stainless Steel				45、 35CrMoA				
Handwheel	Cast Steel								

GB FLANGE GATE VALVE

Z41W-10
100C, I, P, R



PN10 Main external and connection dimension

HG/T 20592
Unit:mm

DN	L	D	D1	D2	b-f	Z- Φd	H	D0	Electric device model	Nominal torqueNm	Wall thickness
15	130	95	65	45	12-2	4- $\Phi 14$	160	100	-	-	-
20	150	105	75	55	14-2	4- $\Phi 14$	165	100	-	-	-
25	160	115	85	65	14-2	4- $\Phi 14$	200	125	-	-	-
32	180	135	100	78	16-2	4- $\Phi 18$	240	125	-	-	-
40	165	145	110	85	16-3	4- $\Phi 18$	245	135	DZW5A	50	-
50	180	160	125	100	16-3	4- $\Phi 18$	286	180	DZW10A	100	-
65	195	180	145	120	18-3	4- $\Phi 18$	320	180	DZW10A	100	-
80	210	195	160	135	18-3	4- $\Phi 18$	373	200	DZW15A	150	-
100	230	215	180	155	20-3	8- $\Phi 18$	428	200	DZW15A	150	-
125	255	245	210	185	22-3	8- $\Phi 18$	513	240	DZW20A	200	-
150	280	280	240	210	22-3	8- $\Phi 23$	582	240	DZW30A	300	-
200	330	335	295	265	22-3	8- $\Phi 23$	730	320	DZW30A	300	-
250	380	390	350	320	24-3	12- $\Phi 23$	897	320	DZW30A	450	-
300	420	440	400	368	26-4	12- $\Phi 23$	1032	400	DZW45A	600	-
350	450	500	460	428	26-4	16- $\Phi 23$	1170	400	DZW45A	900	-
400	480	565	515	482	26-4	16- $\Phi 25$	1330	500	DZW60A	1200	-
450	510	615	565	532	26-4	20- $\Phi 25$	1460	500	DZW90A	1800	-
500	540	670	620	585	28-4	20- $\Phi 25$	1650	500	DZW120A	2500	-
600	600	780	725	685	28-5	20- $\Phi 30$	183	600	DZW250A	2500	-
700	660	895	840	800	30-5	24- $\Phi 30$	2120	700	DZW305A	3500	-
800	730	1010	950	905	32-5	24- $\Phi 34$	2420	800	DZW500A	5000	-
900	800	1110	1050	1005	34-5	28- $\Phi 34$	2750	850	DZW800	8000	-
1000	850	1220	1160	1115	34-5	28- $\Phi 34$	3130	900	DZW1000	10000	-

PN16 Main external and connection dimension

Unit:mm

DN	L	D	D1	D2	b-f	Z- Φd	H	D0	Electric device model	Nominal torqueNm	Wall thickness
15	130	95	65	45	16-2	4- $\Phi 14$	170	120	-	-	6.4
20	150	105	75	55	18-2	4- $\Phi 14$	190	140	-	-	6.4
25	160	115	85	65	18-2	4- $\Phi 14$	205	160	-	-	6.4
32	180	140	100	78	18-2	4- $\Phi 18$	270	180	-	-	6.4
40	200	150	110	85	18-3	4- $\Phi 18$	290	200	DZW10A	100	6.4
50	250	165	125	100	18-3	4- $\Phi 18$	310	240	DZW10A	100	9.5
65	265/270	185	145	120	18-3	8- $\Phi 18$	373	240	DZW15A	150	11
80	280	200	160	135	20-3	8- $\Phi 18$	435	280	DZW20A	200	11.5
100	300	220	180	155	20-3	8- $\Phi 18$	445	300	DZW20A	200	12.5
125	325	250	210	185	22-3	8- $\Phi 18$	570	320	DZW30A	300	13
150	350	285	240	210	22-3	8- $\Phi 22$	630	360	DZW30A	300	13.5
200	400	340	295	265	24-3	12- $\Phi 22$	735	400	DZW30A	300	15
250	450	405	355	320	26-3	12- $\Phi 26$	969	450	DZW45A	450	16
300	500	460	410	375	28-4	12- $\Phi 26$	976	580	DZW60A	600	18
350	550	520	470	435	30-4	16- $\Phi 26$	1120	640	DZW90	900	19
400	600	580	525	485	32-4	16- $\Phi 30$	1452	640	DZW120	1200	21
450	650	640	585	545	40-4	20- $\Phi 30$	1541	720	DZW180	1800	21.5
500	700	715	650	608	44-4	20- $\Phi 33$	1880	720	DZW250	2500	22
600	800	840	770	718	54-5	20- $\Phi 36$	1874	800	DZW250	2500	25
700	900	910	840	788	42-5	24- $\Phi 36$	2083	800	DZW350	3500	27
800	1000	1025	950	898	42-5	24- $\Phi 39$	2400	850	DZW500	5000	30
900	1100	1125	1050	998	44-5	28- $\Phi 39$	2950	1000	DZW800	8000	30
1000	1200	1255	1170	1110	46-5	28- $\Phi 42$	3245	1000	DZW1000	10000	30

GB FLANGE GATE VALVE

 HG/T 20592
Unit:mm

PN25 Main external and connection dimension

DN	L	D	D1	D2	b-f	Z-Φd	H	D0	Electric device model	Nominal torqueNm	Wall thickness
15	130	95	65	45	16-2	4-Φ14	170	120	-	-	6.4
20	150	105	75	55	18-2	4-Φ14	190	140	-	-	6.4
25	160	115	85	65	18-2	4-Φ14	205	160	-	-	6.4
32	180	140	100	78	18-2	4-Φ18	270	180	-	-	6.4
40	200	150	110	85	18-3	4-Φ18	310	200	DZW10A	100	6.4
50	250	165	125	100	20-3	4-Φ18	358	240	DZW10A	100	9.5
65	265/270	185	145	120	22-3	8-Φ18	373	240	DZW15A	150	11
80	280	200	160	135	24-3	8-Φ18	435	280	DZW20A	200	11.5
100	300	235	190	160	24-3	8-Φ22	500	300	DZW20A	200	12.5
125	325	270	220	188	26-3	8-Φ26	614	320	DZW30A	300	13
150	350	300	250	218	28-3	8-Φ26	674	360	DZW30A	300	13.5
200	400	360	310	278	30-3	12-Φ26	811	400	DZW30A	300	15
250	450	425	370	332	32-3	12-Φ30	969	450	DZW45A	450	16
300	500	485	430	390	34-4	16-Φ30	1145	580	DZW60A	600	18
350	550	555	490	448	38-4	16-Φ33	1280	640	DZW90	900	19
400	600	620	550	505	40-4	16-Φ36	1452	640	DZW120	1200	21
450	650	670	600	555	46-4	20-Φ36	1541	720	DZW180	1800	21.5
500	700	730	660	610	48-4	20-Φ36	1676	720	DZW250	2500	22
600	800	845	770	718	58-5	20-Φ39	1874	800	DZW250	2500	25
700	900	960	875	815	50-5	24-Φ42	2083	800	DZW350	3500	27
800	1000	1085	990	930	54-5	24-Φ48	2400	950	DZW500	5000	30
900	1100	1185	1090	1025	58-5	28-Φ48	2950	1000	DZW800	8000	30
1000	1200	1320	1210	1140	62-5	28-Φ55	3245	1000	DZW1000	10000	30

PN40 Main external and connection dimension

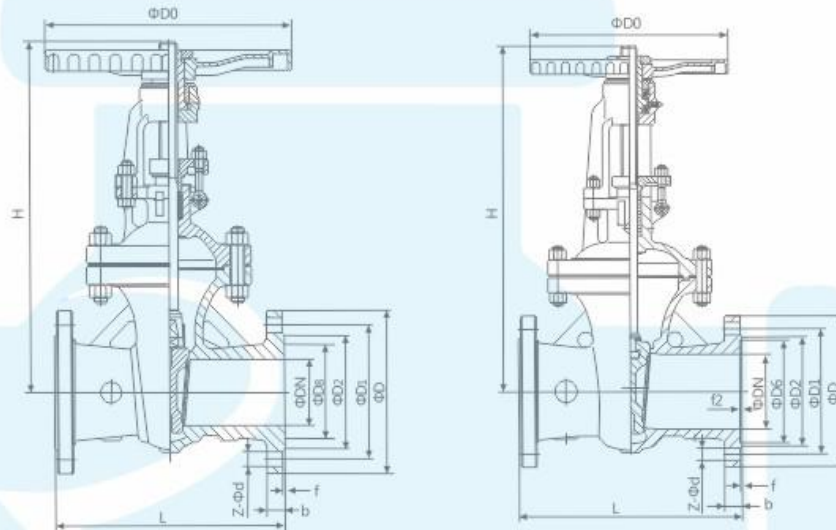
DN	L	D	D1	D2	D6	b-f	f1	Z-Φd	H	D0	Electric device model	Nominal torqueNm	Wall thickness
15	130	95	65	45	40	16-2	4	4-Φ14	135	120	-	-	6.4
20	150	105	75	55	51	18-2	4	4-Φ14	190	140	-	-	6.4
25	160	115	85	65	58	18-2	4	4-Φ14	205	160	-	-	6.4
32	180	140	100	78	66	18-2	4	4-Φ18	270	180	-	-	6.4
40	200	150	110	85	76	18-3	4	4-Φ18	310	200	DZW10A	100	6.4
50	250	165	125	100	88	20-3	4	4-Φ18	371	280	DZW10A	100	10
65	280	185	145	120	110	22-3	4	8-Φ18	391	280	DZW15A	150	12
80	310	200	160	135	121	24-3	4	8-Φ18	455	320	DZW20A	200	12.5
100	350	235	190	160	150	24-3	4.5	8-Φ22	551	360	DZW20A	200	13.5
125	400	270	220	188	176	26-3	4.5	8-Φ26	628	400	DZW20A	200	14
150	450	300	250	218	204	28-3	4.5	8-Φ26	708	400	DZW30A	300	16
200	550	375	320	282	260	34-3	4.5	12-Φ30	885	450	DZW45A	450	17
250	650	450	385	345	313	38-3	4.5	12-Φ33	906	560	DZW60A	600	18.5
300	750	515	450	408	364	42-4	4.5	16-Φ33	1203	640	DZW90	900	22
350	850	580	510	465	422	46-4	5	16-Φ36	1341	640	DZW120	1200	25
400	950	660	585	535	474	50-4	5	16-Φ39	1492	720	DZW180	1800	27
500	1150	755	670	612	576	57-4	5	20-Φ42	1627	-	DZW250	2500	30
600	1350	890	795	730	678	72-5	6	20-Φ48	1925	-	DZW350	3500	32
700	1450	-	900	835	768	-	6	-	2310	-	DZW500	5000	35
800	1650	-	1030	960	876	-	6	-	2600	-	DZW800	8000	37

PN63 Main external and connection dimension

DN	L	D	D1	D2	D6	b-f	f1	Z-Φd	H	D0	Electric device model	Nominal torqueNm	Wall thickness
15	170	105	75	55	40	20-2	4	4-Φ14	140	100	-	-	7.4
20	190	130	90	68	51	22-2	4	4-Φ18	140	100	-	-	7.9
25	210	140	100	78	58	24-2	4	4-Φ18	215	180	-	-	7.9
32	230	155	110	82	66	26-2	4	4-Φ22	270	180	-	-	8.6
40	240	170	125	95	76	28-3	4	4-Φ22	345	200	DZW10A	100	9.4
50	250	180	135	105	88	26-3	4	4-Φ22	470	200	DZW15A	150	11
65	280	205	160	130	110	26-3	4	8-Φ22	520	250	DZW20A	200	13
80	310	215	170	140	121	28-3	4.5	8-Φ22	570	300	DZW20A	200	14
100	350	250	200	168	150	30-3	4.5	8-Φ26	700	300	DZW30A	300	15
125	400	295	240	202	176	34-3	4.5	8-Φ30	780	350	DZW30A	300	15.5
150	450	345	280	240	204	36-3	4.5	8-Φ33	850	350	DZW45A	450	18
200	550	415	345	300	260	42-3	4.5	12-Φ36	1035	400	DZW60A	600	21
250	650	470	400	352	313	46-3	4.5	12-Φ36	1050	560	DZW90	900	23
300	750	530	460	412	364	52-4	4.5	16-Φ36	1470	640	DZW120	1200	25
350	850	600	525	475	422	56-4	5	16-Φ39	1718	700	DZW180	1800	28
400	950	670	585	525	474	60-4	5	16-Φ42	1885	750	DZW250	2500	30
500	1150	-	705	640	576	-	5	-	2410	850	DZW350	3500	35
600	1350	-	820	750	678	-	6	-	2895	1000	DZW500	5000	38

GB FLANGE GATE VALVE

Z41 W - 100 C, I, P, R
V - 160 250



HG/T 20592
Unit:mm

PN100 Main external and connection dimension

DN	L	D	D1	D2	D8	D6	b	Z- Φd	H	D0	Electric device model	Nominal torqueNm	Wall thickness
15	170	105	75	55	35	40	20	4- $\Phi 14$	140	120	-	-	7.9
20	190	130	90	68	45	51	22	4- $\Phi 18$	140	120	-	-	7.9
25	210	140	100	78	50	58	24	4- $\Phi 18$	310	200	-	-	7.9
32	230	155	110	82	65	66	26	4- $\Phi 22$	320	220	-	-	8.6
40	240	170	125	95	75	76	28	4- $\Phi 22$	360	240	DZW15A	150	9.4
50	250	190	145	112	85	88	30	4- $\Phi 26$	490	360	DZW20A	200	13
65	280	220	170	138	110	110	34	8- $\Phi 26$	540	400	DZW20A	200	15
80	310	230	180	148	115	121	36	8- $\Phi 26$	572	400	DZW30A	300	18
100	350	265	210	172	145	150	40	8- $\Phi 30$	573	400	DZW45A	450	20
125	400	315	250	210	175	176	40	8- $\Phi 33$	744	560	DZW60A	600	22
150	450	355	290	250	205	204	44	12- $\Phi 33$	800	560	DZW90	900	28
200	550	430	360	312	265	260	52	12- $\Phi 36$	800	560	DZW120	1200	30
250	650	505	430	382	320	313	60	12- $\Phi 39$	1050	640	DZW180	1800	32
300	750	585	500	442	375	364	68	16- $\Phi 42$	1200	720	DZW250	2500	35
350	850	655	560	498	420	422	74	16- $\Phi 48$	1430	800	DZW350	3500	40
400	950	715	620	558	480	474	78	16- $\Phi 48$	1743	850	DZW500	5000	43
500	1150	-	724	635	584	576	-	-	2055	900	DZW800	8000	50

PN160 Main external and connection dimension

DN	L	D	D1	D2	D8	D6	b	Z- Φd	H	D0	Electric device model	Nominal torqueNm	Wall thickness
15	170	105	75	52	35	40	20	4- $\Phi 14$	230	200	-	-	12.7
20	190	130	90	62	45	51	24	4- $\Phi 18$	260	200	-	-	12.7
25	210	140	100	72	50	58	24	4- $\Phi 18$	280	280	-	-	12.7
32	230	155	115	85	65	66	28	4- $\Phi 22$	312	320	-	-	14.2
40	260	170	125	92	75	76	28	4- $\Phi 22$	350	320	DZW15A	150	18
50	300	195	165	132	95	88	30	4- $\Phi 26$	512	360	DZW20A	200	19
65	340	220	190	152	110	110	34	8- $\Phi 26$	560	360	DZW30A	300	22
80	390	230	205	168	130	121	36	8- $\Phi 26$	585	400	DZW30A	450	23
100	450	265	240	200	160	150	40	8- $\Phi 30$	631	450	DZW45A	600	26
125	525	315	285	238	190	176	44	8- $\Phi 33$	723	560	DZW60A	900	30
150	600	355	318	270	205	204	50	12- $\Phi 33$	820	640	DZW90	1200	35
200	750	430	400	345	275	260	60	12- $\Phi 36$	990	720	DZW120	1800	40
250	838	515	485	425	330	313	68	12- $\Phi 42$	1120	800	DZW180	2500	42
300	965	585	570	510	380	364	78	12- $\Phi 42$	1300	850	DZW250	1500	48

LOW TEMPERATURE GATE VALVE

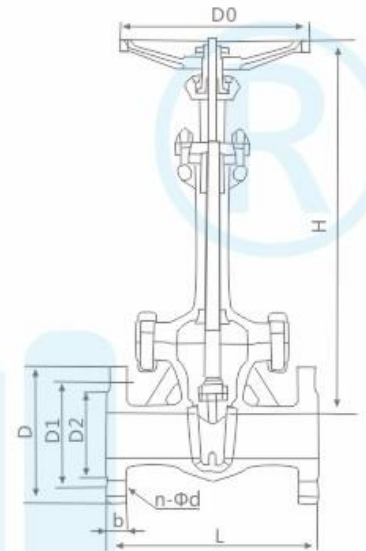
DZ41Y -16P

Product features

1. To prevent abnormal pressure rise in the middle chamber, a pressure relief hole is installed on the inlet side of the gate plate
 2. Determine the top length of the valve cover based on the operating temperature of the valve to ensure reliable sealing of the valve stem packing.
 3. Reasonably select materials for fillers, gaskets, and other parts based on the working temperature
 4. Strictly control the chemical composition and mechanical performance indicators such as low-temperature impact toughness of materials.
 5. Adopting various piping flange standards and sealing surface types, suitable for various engineering needs.
- Low temperature gate valves are suitable for low-temperature media such as methane, liquid natural gas, hexene, carbon dioxide, liquid ammonia, liquid oxygen, liquid nitrogen, liquid hydrogen, etc

Product advantages

1. The fluid resistance is low, and the sealing surface is less susceptible to the friction and erosion of the medium.
2. Opening and closing is more effortless.
3. The flow direction of the medium is unrestricted, without disturbance or pressure reduction
4. Simple form, short structural length, good manufacturing processability, and wide applicability



Execution standard

Design and Manufacture	Structure Length	Connection flange	Pressure-temperature rating	Test and Inspection
JB/T7749	GB12221	JB79	GB9131	JB/T9092

Pressure test

Nominal pressure	1.6	2.5	4.0	6.4	10.0
Strength test	2.4	3.8	6.0	9.6	15.0
Water sealing test	1.8	2.8	4.4	7.0	11.0
Back Seal test	1.8	2.8	4.4	7.0	11.0
Air tightness test	0.4-0.7				

Major parts material and the performance

Body cover plate	Valve stem	Sealing surface	Shim	Filler	Operation temperature	Applicable Medium
ZGoCrMNVAI	1Cr7Ni12	STL/STL	PTFE/flexible graphite PTFE/metal wound gasket	PTFE	-46	Propane/Bingene Methanol/Ethane Gas/liquid ammonia
LCB					-60	
ZGoCrMNVAI					-73	
LC1					-101	
ZGoCrMNVAI					-115	
LC2	1Cr18Ni9Ti	STL/STL	PTFE/flexible graphite PTFE/metal wound gasket	PTFE	-196	Propane/Bingene Methanol/Ethane Gas/liquid ammonia
ZGoCrMNVAI					-101	
LC3					-115	
ZGoCrMNVAI					-196	
LC4	1Cr18Ni9Ti	STL/STL	PTFE/flexible graphite PTFE/metal wound gasket	PTFE	-101	Propane/Bingene Methanol/Ethane Gas/liquid ammonia
ZGoCrMNVAI					-115	
CF8	1Cr18Ni9Ti	STL/STL	PTFE/flexible graphite PTFE/metal wound gasket	PTFE	-196	Propane/Bingene Methanol/Ethane Gas/liquid ammonia

LOW TEMPERATURE GATE VALVE

PN16 Main external and connection dimension

Unit:mm

DN	L	D	D1	D2	b	n-Φd	H	DO
20	150	105	75	55	14	4-Φ14	320	140
25	160	115	85	65	14	4-Φ14	350	160
32	180	135	100	78	16	4-Φ18	385	180
40	200	145	110	85	16	4-Φ18	420	220
50	250	160	125	100	16	4-Φ18	540	240
65	265	180	145	120	18	4-Φ18	610	240
80	280	195	160	135	20	8-Φ18	690	280
100	300	215	180	155	20	8-Φ18	780	300
125	325	245	210	185	22	8-Φ18	930	320
150	350	280	240	210	24	8-Φ23	980	350
200	400	335	295	265	26	12-Φ26	1180	400
250	450	405	355	320	30	12-Φ30	1390	450
300	500	460	410	375	30	12-Φ30	1620	500
350	550	520	470	435	34	16-Φ34	1810	500
400	600	580	525	485	36	16-Φ36	1970	550

PN25 Main external and connection dimension

Unit:mm

DN	L	D1	D1	D2	b	N-Φd	H	DO
20	150	105	75	55	16	4-Φ16	320	140
25	160	115	85	65	16	4-Φ16	350	160
32	180	135	100	78	18	4-Φ18	385	180
40	200	145	110	85	18	4-Φ18	420	200
50	250	160	125	100	20	4-Φ20	540	240
65	265	180	145	125	22	8-Φ22	510	240
80	280	195	160	135	22	8-Φ22	690	280
100	300	230	190	160	24	8-Φ24	780	300
125	325	270	220	188	28	8-Φ28	930	300
150	350	300	250	218	30	8-Φ30	980	320
200	400	360	310	278	34	12-Φ34	1180	360
250	450	425	370	332	36	12-Φ36	1390	400
300	500	485	430	390	40	16-Φ40	1620	450
350	550	550	490	448	44	16-Φ44	1810	500
400	600	610	550	505	48	16-Φ48	1990	560

LOW TEMPERATURE GATE VALVE

PN40 Main external and connection dimension

Unit:mm

DN	L	D	D1	D2	D6	b	N-Φd	H	Do
20	150	105	75	55	51	16	4-Φ14	330	140
25	160	115	85	65	58	16	4-Φ14	360	160
32	180	135	100	78	66	18	4-Φ18	440	180
40	200	145	110	85	76	18	4-Φ18	455	200
50	250	160	125	100	88	20	4-Φ18	575	240
65	380	180	145	120	110	22	4-Φ20	635	240
80	3103	195	160	135	121	22	8-Φ22	715	280
100	50	230	190	160	150	24	8-Φ22	815	300
125	400	270	220	188	176	28	8-Φ24	965	360
150	450	300	250	218	204	30	8-Φ28	1025	400
200	550	375	320	282	160	38	8-Φ30	1225	450
250	650	445	385	345	313	42	12-Φ34	1440	560
300	750	510	450	408	364	46	16-Φ34	1665	5470
350	850	570	510	465	422	52	16-Φ41	1880	720
400	950	655	585	535	474	58	16-Φ18	2050	800

PN64 Main external and connection dimension

Unit:mm

DN	L	D	D1	D2	D6	b	N-Φd	H	Do
20	190	125	90	68	51	20	4-Φ18	330	180
25	210	135	100	78	58	22	4-Φ23	360	180
32	230	150	110	82	66	24	4-Φ23	410	180
40	240	165	125	95	76	24	4-Φ23	480	220
50	250	175	135	105	88	26	4-Φ23	585	240
65	280	200	160	130	110	28	8-Φ23	690	240
80	310	210	170	140	121	30	8-Φ23	745	280
100	350	250	200	168	150	32	8-Φ25	885	300
125	400	295	240	202	176	36	8-Φ30	985	360
150	450	340	280	240	204	38	8-Φ34	1050	400
200	550	405	345	300	260	44	12-Φ34	1240	450
250	650	470	400	352	313	48	12-Φ41	1460	560
300	750	530	160	412	364	54	16-Φ41	1670	5640