

METAL SEAL GATE VALVE



**TIANJIN FREYA AUTOMATION
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**TIANJIN FREYA AUTOMATION
TECHNOLOGY CO., LTD.**

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METAL SEAL GATE VALVE

Founded in 2014, Freya specializes in fluid control products and services such as valves, actuators, electric valve actuators, and electric valves. It focuses on the process industry and has long been committed to providing services to process industries such as power, steel, building materials, and water treatment to provide professional fluid control solutions. Based on the actual working conditions, through necessary on-site surveying and technical explanations, we provide customers with safe, economical and environmental-ly friendly selection and design, supply in strict accordance with contract requirements and guide installation and debugging, and hand over for use if standards are met. Thanks to the trust of the vast number of users, through long-term and large-scale on-site services, and the effective accumulation of technical experience, the company has an accurate understanding of the real needs and pain points of users and the market, as well as expectations for equipment manufacturers.

The company based on its own patent R & D and production of intelligent electric actuators, reliable, durable, easy to use, cost-effective and guaranteed service. Being close to users, providing full-process services, cover-all services, repair and maintenance value-added services, and escorting users' production are our differentiating advantages. Freya intelligent electric actuator and electric valve actuator provide a two-year warranty and lifetime free after-sales service after installation and commissioning. Technical quality and commercial credit are the two foundations on which the company relies to survive and drive the develop-ment of the company. Users feel reassured, worry-free and happy, which are the only criteria to evaluate the effectiveness of our work and demonstrate the value of our existence.



Main features

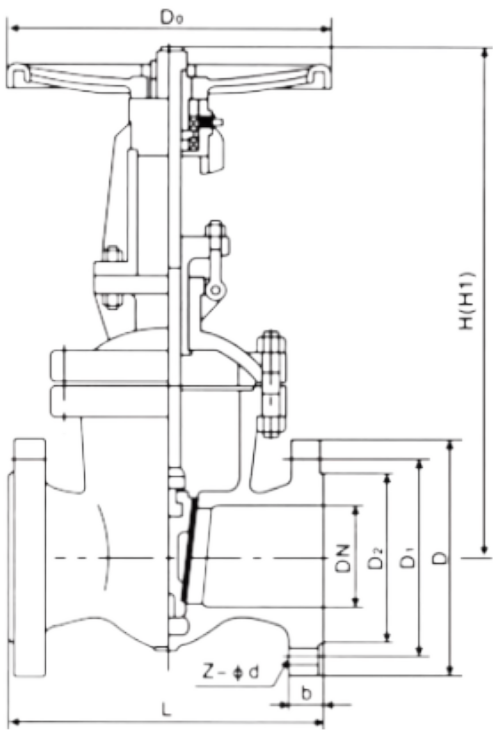
- Full bore, rising stem with yoke
- Middle flange bolt connection
- Resilient wedge, fully guided
- Structure improve on API
- Rising stem and non-rising handwheel
- Gear operator operation option
- Standard flange ends

Product specification

	Design	Face to Face	Flange Ends	Test & Check	Pressure-Temp.	Marking	Supply
Product specification	GB/T 12234	GB/T 1222 API 6D	GB/T 9113 HG/T 20592 HG/T 20615 JB/T 79	JB/T 26480	GB/T 12224	GB/T 12220	JB/T 7928

Main parts material

Parts name	Parts material			
Body/Bonnet	WCB	ZGCr5Mo	ZG1Cr18Ni9Ti/CF8	ZG1Cr18Ni12Mo2Ti/CF8M
Wedge	WCB	ZGCr5Mo	ZG1Cr18Ni9Ti/CF8	ZG1Cr18Ni12Mo2Ti/CF8M
Stem	Cr13	25Cr2MoV	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
Packing	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite
Gasket	18-8 Flexible Graphite PTFE+FPM			
Bolt	35/35CrMo	25CrMo	1Cr18Ni9	1Cr18Ni9
Temperature	-29~425℃	-29~450℃	-40~200℃	-40~200℃
Media	Water, oil, steam	Oil, steam	Nitric acid	Acetic acid



1.6MPa

Model	DN mm	L	D	D1	D2	b	Z-φd	H	H1	D0	Weight Kg
Z41H-16C Z40H-16C Z41W-16P Z40W-16P Z41Y-16P Z40Y-16P Z41W-16R Z40W-16R Z41Y-16 I Z40Y-16I KZ41Y-16C KZ40Y-16C	40	200	145	110	85	16	4-18	300	352	200	26.5
	50	250	160	125	100	16	4-18	658	438	240	29
	65	265	180	145	120	18	4-18	375	450	240	33
	80	280	195	160	135	20	8-18	433	528	280	45
	100	300	215	180	155	20	8-18	502	620	320	63
	125	325	245	210	185	22	8-18	612	753	360	108
	150	350	280	240	210	24	8-23	676	847	360	134
	200	400	335	295	265	26	12-23	820	1039	400	192
	250	450	405	355	320	30	12-25	969	1245	450	273
	300	500	460	410	375	30	12-25	1142	1472	560	379
	350	550	520	470	435	34	16-25	1280	1450	640	590
	400	600	580	525	485	36	16-30	1452	1887	640	850
	450	650	640	585	545	40	20-30	1541	2011	720	907
	500	700	705	650	608	44	20-34	1676	2181	720	958
	600	800	840	770	718	48	20-41	1874	2346	800	1112
	700	900	910	840	788	50	24-41	2083	2517	800	1290
	800	1000	1020	950	598	52	24-41	2400	2890	950	1485
	900	1100	1120	1050	998	54	28-41	2950	3316	1000	1773
	1000	1200	1255	1170	1110	56	28-48	3245	3600	1000	2160

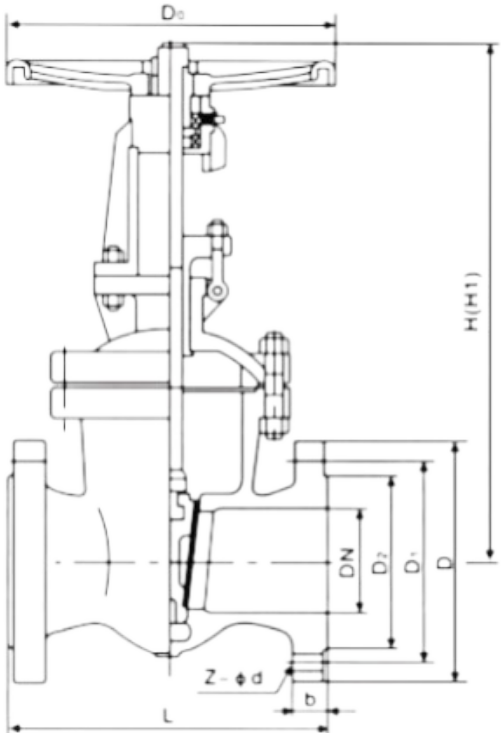
GB GATE VALVE

2.5MPa											
Model	DN mm	L	D	D1	D2	b	Z-φd	H	H1	D0	Weight Kg
Z41H-25C Z40H-25C Z41W-25P Z40W-25P Z41Y-25P Z40Y-25P Z41W-25R Z40W-25R Z41Y-25I Z40Y-25I KZ41Y-25C KZ40Y-25C	40	200	145	110	85	18	4-18	300	352	200	18
	50	250	160	125	100	20	4-18	658	438	240	28
	65	265	180	145	120	22	8-18	375	450	240	33
	80	280	195	160	135	22	8-18	433	528	280	46
	100	300	230	190	160	24	8-23	502	620	320	64
	125	325	270	220	188	28	8-25	612	753	360	116
	150	350	300	250	218	30	8-25	847	847	360	141
	200	400	360	310	278	34	12-25	1039	1039	400	213
	250	450	425	370	332	36	12-30	1245	1245	450	290
	300	500	485	410	390	40	16-30	1472	1472	560	400
	350	550	550	430	448	44	16-34	1450	1450	640	631
	400	600	610	490	505	48	16-34	1887	1887	640	900
	450	650	660	550	555	50	20-34	2011	2011	720	1013
	500	700	730	660	610	52	20-41	2181	2181	720	1166
	600	800	840	770	718	56	20-41	2346	2346	800	1258
	700	900	955	875	815	60	24-48	2517	2517	800	1383
	800	1000	1070	990	930	64	24-48	2890	2890	950	1596
	900	1100	1180	1090	1025	66	28-54	3316	3316	1000	1865
	1000	1200	1305	1210	1140	68	28-58	3600	3600	1000	2351

4.0MPa												
Model	DN mm	L	D	D1	D2	D6	b	Z-φd	H	H1	D0	Weight Kg
Z41H-40C Z40H-40C Z41Y-40P Z40Y-40P Z41Y-40R Z40Y-40R Z41Y-40I Z40Y-40I KZ41Y-40 KZ40Y-40	40	200	145	110	85	76	18	4-18	323	369	200	29
	50	250	160	125	100	88	20	4-18	372	440	280	36
	65	280	180	145	120	110	22	8-18	305	473	280	39
	80	310	195	160	135	121	22	8-18	457	552	320	52
	100	350	230	190	160	150	24	8-23	552	671	360	80
	125	400	270	220	188	176	28	8-25	634	726	400	127
	150	450	300	250	218	204	30	8-25	708	883	400	154
	200	550	375	320	282	260	38	12-30	858	1086	450	263
	250	650	445	385	345	313	42	16-34	1015	1298	460	368
	300	750	510	450	408	364	46	16-34	1203	1535	640	547
	350	850	570	510	465	422	52	16-34	1341	1678	640	679
	400	950	665	585	535	474	58	20-41	1492	1903	720	953
	450	1050	680	610	560	524	60	20-41	1583	2215	800	1253
	500	1150	755	670	612	576	62	20-41	1792	2580	950	1598
	600	1350	890	795	730	678	62	20-41	2035	2916	950	1903

GB GATE VALVE





6.4MPa												
Model	DN mm	L	D	D1	D2	D6	b	Z-φd	H	H1	D0	Weight Kg
Z41H-64C Z40H-64C Z41Y-64P Z40Y-64P Z41Y-64R Z40Y-64R Z41Y-64I Z40Y-64I KZ41Y-64 KZ40Y-64	40	240	165	125	125	125	24	4-23	360	389	389	29
	50	250	175	135	105	88	26	4-23	372	448	448	34
	65	280	200	180	130	110	28	8-23	395	475	280	43
	80	310	210	170	140	121	30	8-23	458	553	320	60
	100	350	250	200	168	150	32	8-25	553	649	360	89
	125	400	295	240	202	176	36	8-30	638	779	400	140
	150	450	340	280	240	204	38	8-34	718	893	450	207
	200	550	405	345	300	260	44	12-34	873	1100	560	325
	250	650	470	400	352	313	48	12-41	1053	1332	840	467
	300	750	530	460	412	364	54	16-41	1203	1535	640	590
	350	850	595	525	475	422	60	16-41	1394	1836	720	681
	400	950	670	585	525	474	66	16-48	1645	2070	800	972
	450	1050	670	630	570	524	70	20-48	1903	2381	800	1269
	500	1150	800	705	640	576	70	20-54	2285	2600	950	1606
	600	1350	950	820	750	678	76	20-58	2601	3010	950	2123

GB GATE VALVE

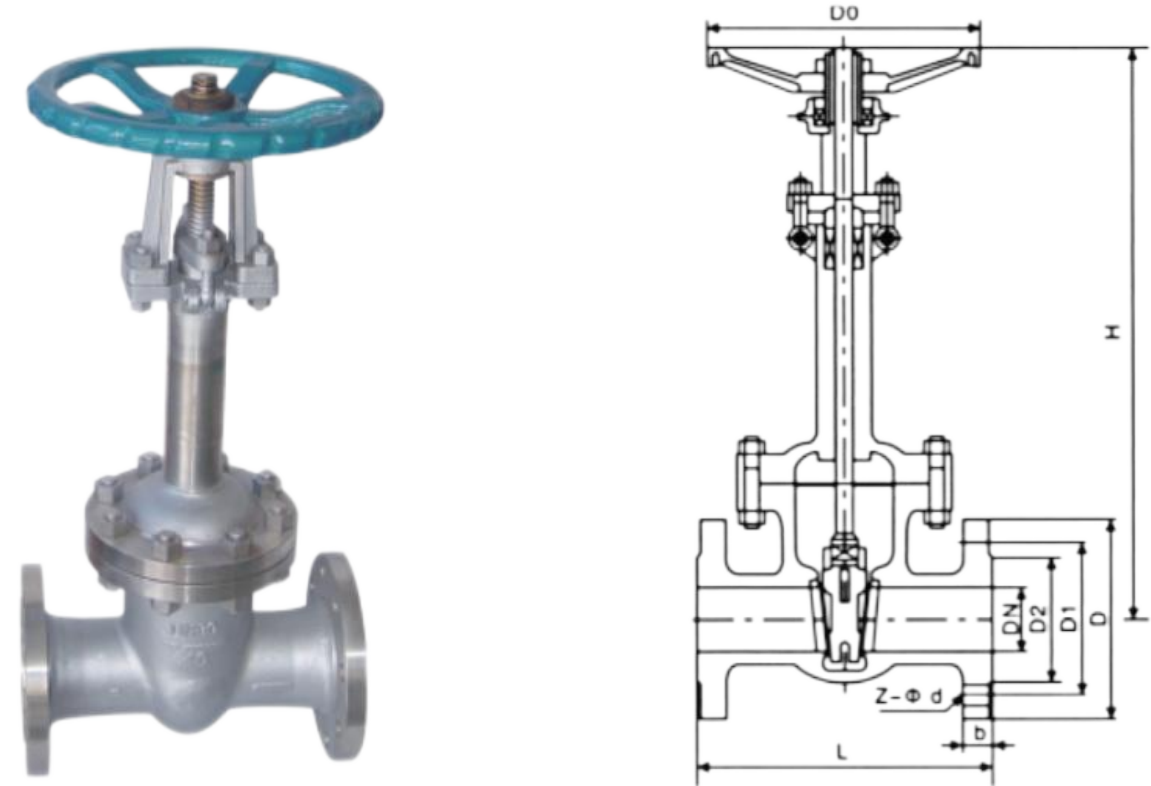
10.0MPa

Model	DN mm	L	D	D1	D2	D6	b	Z-φd	H	H1	D0	Weight Kg
Z41H-100C Z40H-100C	40	240	165	125	95	76	26	4-23	360	389	280	51
	50	250	195	145	112	88	28	4-23	490	558	360	60
	65	280	220	170	138	110	32	8-25	540	622	400	70
	80	310	230	180	148	121	34	8-25	573	671	400	89
Z41Y-100P Z40Y-100P	100	350	265	210	172	150	38	8-30	575	671	400	130
	125	400	310	250	210	176	42	8-34	744	892	560	223
Z41Y-100R Z40Y-100R	150	450	350	290	250	204	46	12-34	800	972	560	295
	200	550	430	360	312	260	54	12-41	800	972	560	559
Z41Y-100I Z40Y-100I	250	650	500	430	382	313	60	12-41	1050	1305	640	640
	300	750	585	500	442	364	70	16-48	1208	1506	640	730
KZ41Y-100 KZ40Y-100	350	850	655	560	498	422	76	16-54	1410	1915	720	850
	400	950	715	620	558	474	80	16-54	1655	2304	720	975

16.0MPa

Model	DN mm	L	D	D1	D2	D6	b	Z-φd	H	H1	D0	Weight Kg
Z41H-160C Z40H-160C	40	240	175	125	92	76	32	4-27	350	395	320	32
	50	300	215	165	132	88	36	8-25	512	612	360	73
	65	340	245	190	152	110	44	8-30	560	677	360	110
	80	390	260	205	168	121	46	8-30	585	686	400	141
Z41Y-160P Z40Y-160P	100	450	300	240	200	150	48	8-34	631	751	450	185
	125	525	355	285	238	176	60	8-41	723	868	560	320
Z41Y-160R Z40Y-160R	150	600	390	318	270	204	66	12-41	820	997	640	462
	200	750	480	400	345	250	78	12-48	990	1224	720	711
Z41Y-160I Z40Y-160I	250	850	580	485	425	313	88	12-54	1104	1503	800	923
	300	950	665	570	510	364	100	16-54	1341	1934	800	1204
KZ41Y-160 KZ40Y-160	350	-	640	559	424	414.5	86	16-42	1600	2315	950	1450
	400	-	705	616	487	471.5	89	16-45	1823	2660	950	1700

LOW TEMPERATURE GATE VALVE



1.6MPa

Model	DN mm	L	D	D1	D2	b	Z-φd	H	D0	Weight Kg
PZ40Y-16L	20	150	105	75	55	14	4-14	320	140	6
	25	160	115	85	65	14	4-14	350	160	7
	32	180	135	100	78	16	4-18	385	180	9
	40	200	145	110	85	16	4-18	420	200	15
	50	250	160	125	100	16	4-18	540	240	30
	65	265	180	145	120	18	4-18	610	240	34
	80	280	195	160	135	20	8-18	690	280	45
	100	300	215	180	155	20	8-18	780	300	64
	125	325	245	210	185	22	8-18	930	320	110
	150	350	280	240	210	24	8-23	980	360	135
	200	400	335	295	265	26	12-23	1180	400	195
	250	450	405	355	320	30	12-25	1390	450	275
	300	500	460	410	375	30	12-25	1620	560	380
	350	550	520	470	425	34	16-25	1810	640	594
	400	600	580	525	485	36	16-30	1970	640	725

LOW TEMPERATURE GATE VALVE

2.5MPa										
Model	DN mm	L	D	D1	D2	b	Z-φd	H	D0	Weight Kg
PZ40Y-25L	20	150	105	75	55	16	4-14	320	140	6
	25	160	115	85	65	16	4-14	350	160	8
	32	180	135	100	78	18	4-18	385	180	10
	40	200	145	110	85	18	4-18	420	200	16
	50	250	160	125	100	20	4-18	540	240	30
	65	265	180	145	120	22	8-18	610	240	35
	80	280	195	160	135	22	8-18	690	280	47
	100	300	230	190	160	24	8-23	780	300	65
	125	325	270	220	188	28	8-25	930	320	110
	150	350	300	250	218	30	8-25	980	360	135
	200	400	360	310	278	34	12-25	1180	400	215
	250	450	425	370	332	36	12-30	1390	450	295
	300	500	485	430	390	40	16-30	1620	560	400
	350	550	550	490	448	44	16-34	1810	640	630
	400	600	610	550	505	48	16-34	1990	640	910

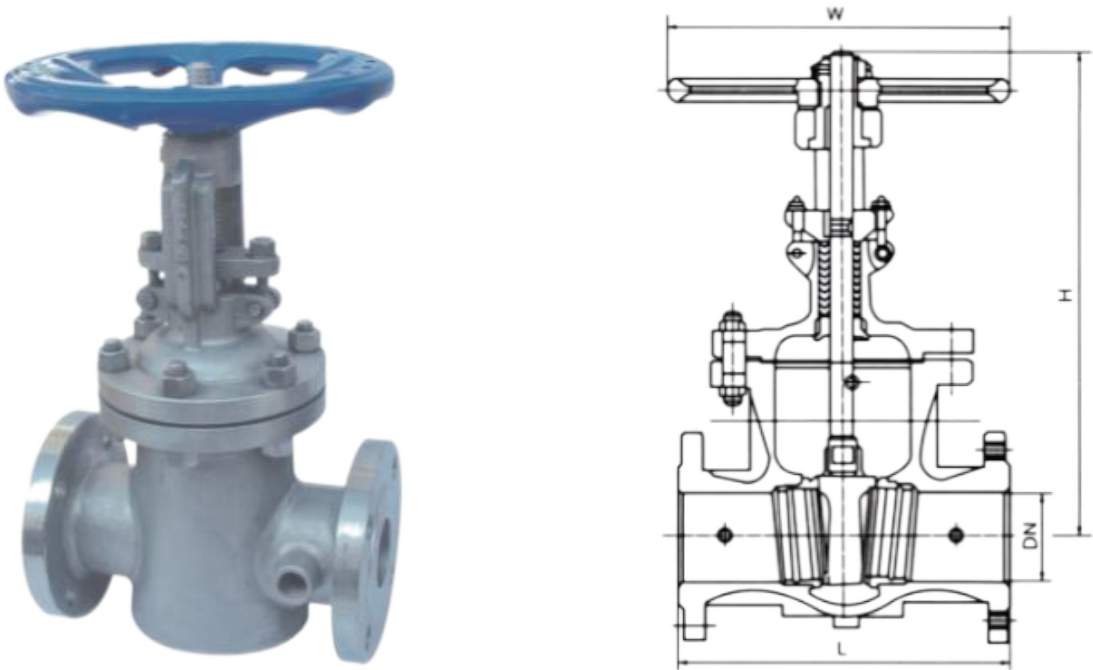
4.0MPa											
Model	DN mm	L	D	D1	D2	D6	b	Z-φd	H	D0	Weight Kg
PZ40Y-40L	20	150	105	75	55	51	16	4-14	330	140	7
	25	160	115	85	65	58	16	4-14	360	160	8
	32	180	135	100	78	66	18	4-18	440	180	10
	40	200	145	110	85	76	18	4-18	455	200	16
	50	250	160	125	100	88	20	4-18	575	280	30
	65	280	180	145	120	110	22	8-18	635	280	35
	80	310	195	160	135	121	22	8-18	715	320	47
	100	350	230	190	160	150	24	8-23	815	360	65
	125	400	270	220	188	176	28	8-25	965	400	110
	150	450	300	250	218	204	30	8-25	1025	400	135
	200	550	360	320	282	260	38	12-30	1225	450	215
	250	650	425	385	345	313	42	12-34	1440	560	295
	300	750	485	450	408	346	46	16-34	1665	640	405
	350	850	570	510	465	422	52	16-34	1880	640	600
	400	950	655	585	535	474	58	16-41	2050	720	750

LOW TEMPERATURE GATE VALVE

6.4MPa											
Model	DN mm	L	D	D1	D2	D6	b	Z-φd	H	D0	Weight Kg
PZ40Y-64L	20	190	105	90	68	51	20	4-18	330	100	8
	25	210	115	100	78	58	22	4-18	360	180	13
	32	230	135	110	82	66	24	4-23	410	180	24
	40	240	145	125	95	76	24	4-23	480	200	32
	50	250	160	135	105	88	26	4-23	585	200	39
	65	280	180	160	140	110	28	8-23	690	250	45
	80	310	195	170	160	121	30	8-23	745	300	60
	100	350	230	200	168	150	32	8-25	885	300	90
	125	400	270	240	202	176	36	8-30	958	350	140
	150	450	300	280	240	204	38	8-34	1050	350	205
	200	550	360	345	300	260	44	12-34	1240	400	330
	250	650	470	400	352	313	48	12-41	1460	560	468
	300	750	530	460	412	346	54	16-41	1690	640	600

10.0MPa											
Model	DN mm	L	D	D1	D2	D6	b	Z-φd	H	D0	Weight Kg
PZ40Y-100L	25	210	135	100	78	58	24	4-18	365	200	18
	32	230	150	110	82	66	24	4-23	420	240	27
	50	250	195	145	112	88	28	4-25	630	360	45
	65	280	220	170	138	110	32	8-25	700	400	60
	80	310	230	180	148	121	34	8-25	760	400	76
	100	350	265	210	172	150	38	8-30	900	400	128

INSULATED GATE VALVE



Product specification

Product specification	Design	Face to Face	Flange Ends	Test & Check
	GB 12234-2007	GB 12221-2005	JB/T79-1994	GB/T 13927-2008
			HG/T 20592-2009	GB/T 26480-2011

Main parts material

Parts name	ZG1Cr18Ni9Ti	ZG00Cr18Ni10	ZG1Cr18Ni12Mo2Ti	ZG00Cr17Ni14Mo2	WCB
Body/Bonnet	ZG1Cr18Ni9Ti	ZG00Cr18Ni10	ZG1Cr18Ni12Mo2Ti	ZG00Cr17Ni14Mo2	WCB
Gate	ZG1Cr18Ni9Ti	ZG00Cr18Ni10	ZG1Cr18Ni12Mo2Ti	ZG00Cr17Ni14Mo2	WCB
Stem	1Cr18Ni9Ti	00Cr18Ni10	1Cr18Ni12Mo2Ti	00Cr17Ni14Mo2	1Cr13
Packing	PTFE	PTFE	PTFE	PTFE	Graphite
Gasket	304+PTFE	304L+PTFE	316+PTFE	316L+PTFE	Graphite+304
Gland	ZG1Cr18Ni9Ti	ZG00Cr18Ni10	ZG1Cr18Ni12Mo2Ti	ZG00Cr17Ni14Mo2	WCB
Packing ring	1Cr18Ni9Ti	00Cr18Ni10	1Cr18Ni12Mo2Ti	00Cr17Ni14Mo2	1Cr13
Bolt	1Cr17Ni2	1Cr17Ni2	1Cr17Ni2	1Cr17Ni2	35CrMoA
Nut	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni9Ti	45

INSULATED GATE VALVE

1.6MPa

Model	DN mm	L	H	W
BZ40H-16C BZ40Y-16I BZ40W-16P BZ40W-16R BZ40F-16C BZ41H-16C BZ41Y-16I BZ41W-16P BZ41W-16R	40	200	310	200
	50	250	358	240
	65	270	373	240
	80	280	435	280
	100	300	500	300
	125	325	614	320
	150	350	674	360
	200	400	818	400
	250	450	969	450
	300	500	1145	560

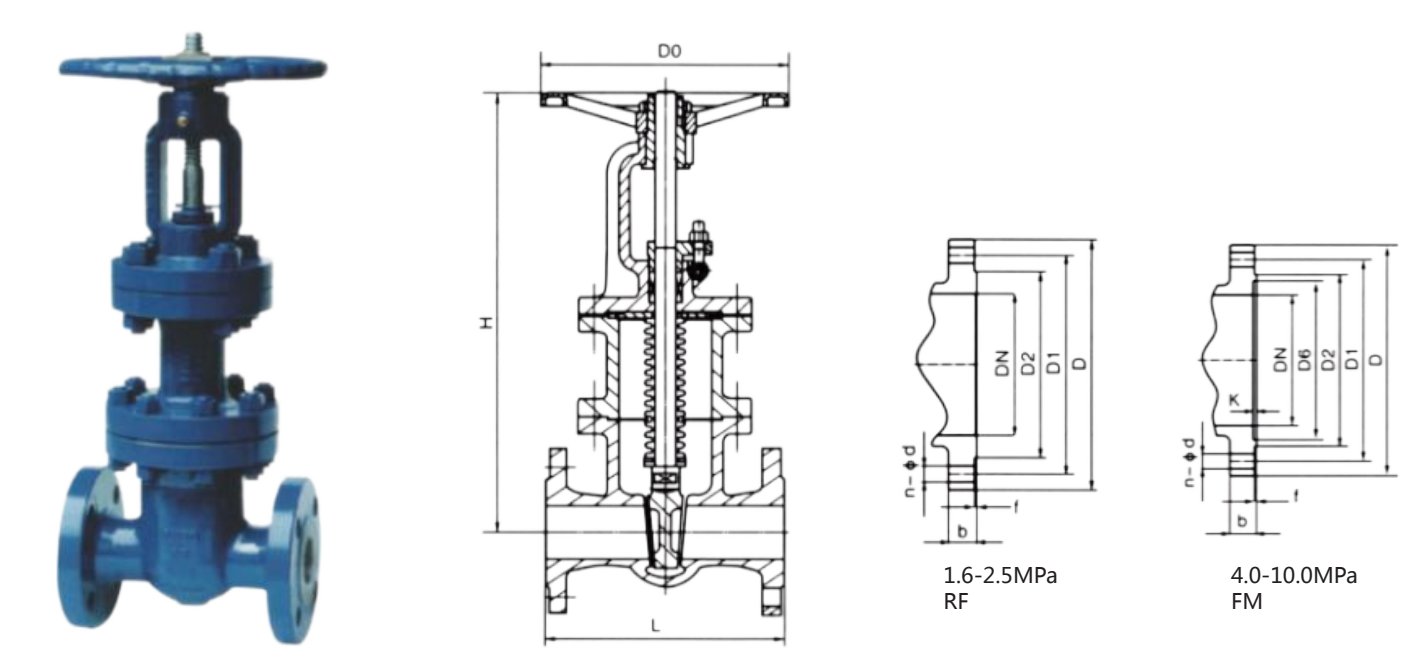
2.5MPa

Model	DN mm	L	H	W
BZ40H-25C BZ40Y-25I BZ40W-25P BZ40W-25R BZ40F-25C BZ41H-25C BZ41Y-25I BZ41W-25P BZ41W-25R	40	200	358	240
	50	250	373	240
	65	270	435	280
	80	280	500	300
	100	300	614	320
	125	325	674	360
	150	350	818	400
	200	400	969	450
	250	450	1145	560
	300	500	1145	640

4.0MPa

Model	DN mm	L	H	W
BZ40H-40C BZ40Y-40I BZ40W-40P BZ40W-40R BZ40F-40C BZ41H-40C BZ41Y-40I BZ41W-40P BZ41W-40R	40	200	358	240
	50	250	373	240
	65	280	435	280
	80	310	500	300
	100	350	614	320
	125	400	674	360
	150	450	818	400
	200	550	969	450
	250	650	1145	560
	300	750	1145	640

BELLOW GATE VALVE



1.6MPa												
Model	DN mm	L	D	D1	D2	b	n-φd	H	D0	L2	H1	DA
WZ41H-16C WZ41W-16P WZ41Y-16R	15	130	95	65	45	14	4-14	190	120	-	-	-
	20	150	105	75	55	14	4-14	195	140	-	-	-
	25	160	115	85	65	14	4-14	225	140	-	-	-
	32	180	135	100	78	16	4-18	260	180	-	-	-
	40	200	145	110	85	16	4-18	280	220	590	595	365
	50	250	160	125	100	16	4-18	360	220	590	653	365
	65	265	180	145	120	18	4-18	375	260	590	665	365
	80	280	195	160	135	20	8-18	435	280	590	725	365
	100	300	215	180	155	20	8-18	500	300	590	787	365
	125	325	245	210	185	22	8-18	615	340	590	934	365
	150	350	280	240	210	24	8-23	675	400	590	955	365
	200	400	335	295	265	26	12-23	815	450	590	1105	365
	250	450	405	355	320	30	12-25	965	450	810	1343	470
	300	500	460	410	375	30	12-25	1145	500	810	1516	470
	350	550	520	470	435	34	16-25	1280	500	810	1678	470
	400	600	580	525	485	36	16-30	1450	560	830	1849	550
	450	650	640	585	545	40	20-30	1540	600	830	1937	550
	500	700	705	650	608	44	20-34	1675	640	830	2234	550
	600	800	840	770	718	48	20-41	1875	720	870	2432	320
	700	900	910	840	788	50	24-41	2085	800	870	2489	320
	800	1000	1020	950	898	52	24-41	2400	950	1170	2643	570

FLUORINE LINED GATE VALVE

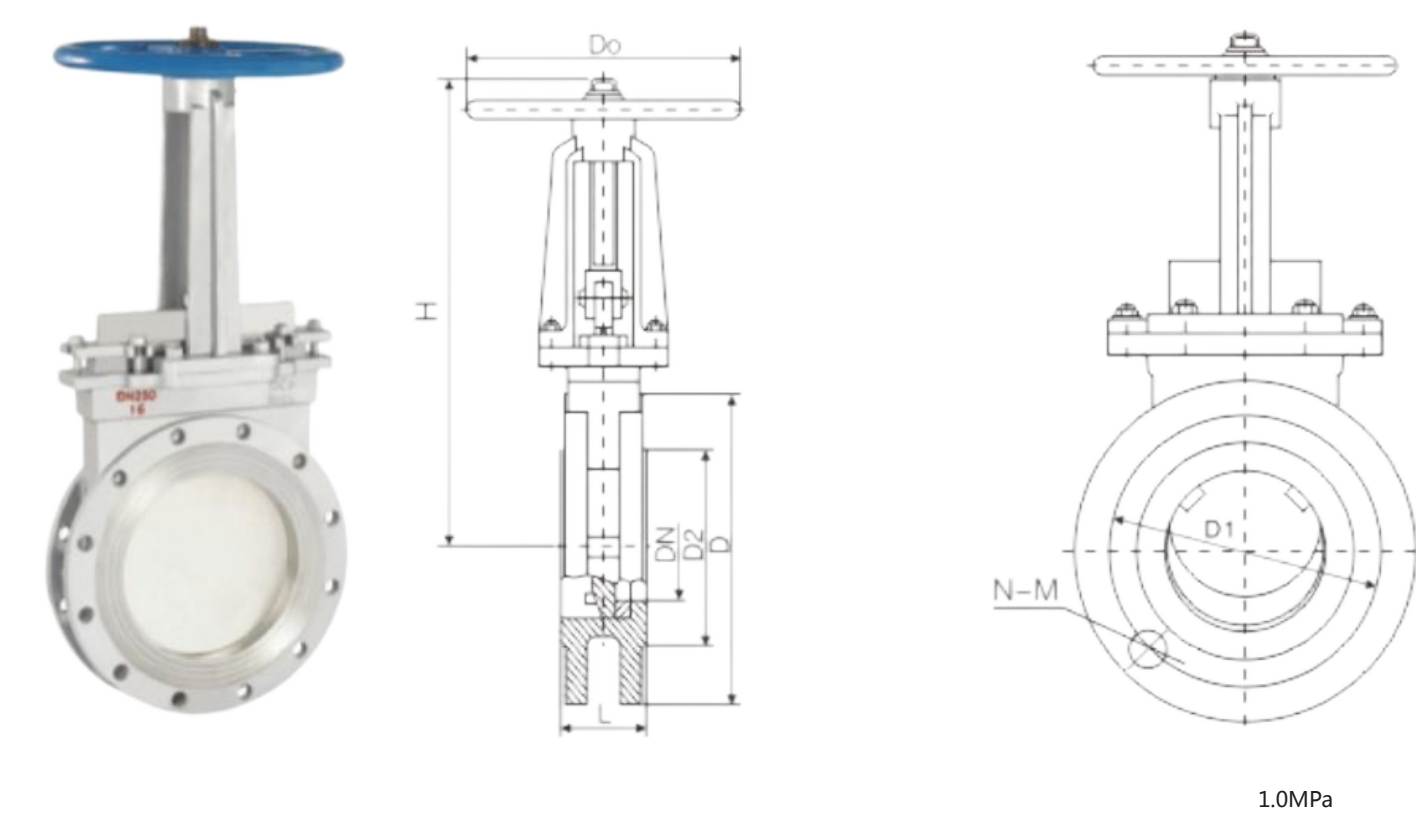
2.5MPa

Model	DN mm	L	D	D1	D2	b	n-φd	H	D0	L2	H1	DA
WZ41H-25C WZ41W-25P WZ41Y-25R	15	130	95	65	45	16	4-14	190	120	-	-	-
	20	150	105	75	55	16	4-14	195	140	-	-	-
	25	160	115	85	65	16	4-14	225	140	-	-	-
	32	180	135	100	78	18	4-18	260	180	-	-	-
	40	200	145	110	85	18	4-18	280	220	590	595	365
	50	250	160	125	100	20	4-18	360	220	590	653	365
	65	265	180	145	120	22	8-18	375	260	590	665	365
	80	280	195	160	135	22	8-18	435	280	590	725	365
	100	300	230	190	160	24	8-23	500	300	590	787	365
	125	325	270	220	188	28	8-25	615	340	590	934	365
	150	350	300	250	218	30	8-25	675	400	590	955	365
	200	400	360	310	278	34	12-25	815	450	590	1105	365
	250	450	425	370	332	36	12-30	965	450	810	1343	470
	300	500	485	430	390	40	16-30	1145	500	810	1516	470
	350	550	550	490	448	44	16-34	1280	500	810	1678	470
	400	600	610	550	505	48	16-34	1450	560	830	1849	550
	450	650	660	600	555	50	20-34	1540	600	830	1937	550
	500	700	730	660	610	52	20-41/36	1675	640	830	2234	550
	600	800	840	770	718	56	20-41	1875	720	870	2432	320
	700	900	955	875	815	60	24-48/32	2085	800	870	2489	320
	800	1000	1070	990	930	64	24-48	2400	950	1170	2643	570

BELLOW GATE VALVE

4.0MPa												
Model	DN mm	L	D	D1	D2	b	n-φd	H	D0	L2	H1	DA
WZ41H40C WZ41W-40P WZ41Y-40R	15	130	95	65	45	16	4-14	190	120	-	-	-
	20	150	105	75	55	16	4-14	195	140	-	-	-
	25	160	115	85	65	16	4-14	225	140	-	-	-
	32	180	135	100	78	18	4-18	270	180	-	-	-
	40	200	145	110	85	18	4-18	320	220	590	630	365
	50	250	160	125	100	20	4-18	370	240	590	691	365
	65	280	180	145	120	22	8-18	395	280	590	711	365
	80	310	195	160	135	22	8-18	455	300	590	775	365
	100	350	230	190	160	24	8-23	550	320	590	871	365
	125	400	270	220	188	28	8-25	635	350	590	948	365
	150	450	300	250	218	30	8-25	705	400	810	1028	470
	200	550	375	320	282	38	12-30	860	450	810	1325	470
	250	650	445	385	345	42	12-34	1015	560	810	1400	470
	300	750	510	450	408	46	16-34	1200	640	830	1653	550
	350	850	570	510	465	52	16-34	1340	640	830	1791	550
	400	950	655	585	535	58	16-41	1495	720	870	2092	320
	450	1050	680	610	560	60	20-41	1580	800	-	-	-
	500	1150	755	670	612	62	20-48/42	1700	950	870	2465	320
	600	1350	890	795	730	62	20-54/48	1950	950	1170	-	570
	700	1450	955	900	835	68	24-54/48	2250	1000	1170	-	570
	800	1650	1135	1030	960	76	24-58	2480	1100	1060	-	500

PZ73 KNIFE GATE VALVE



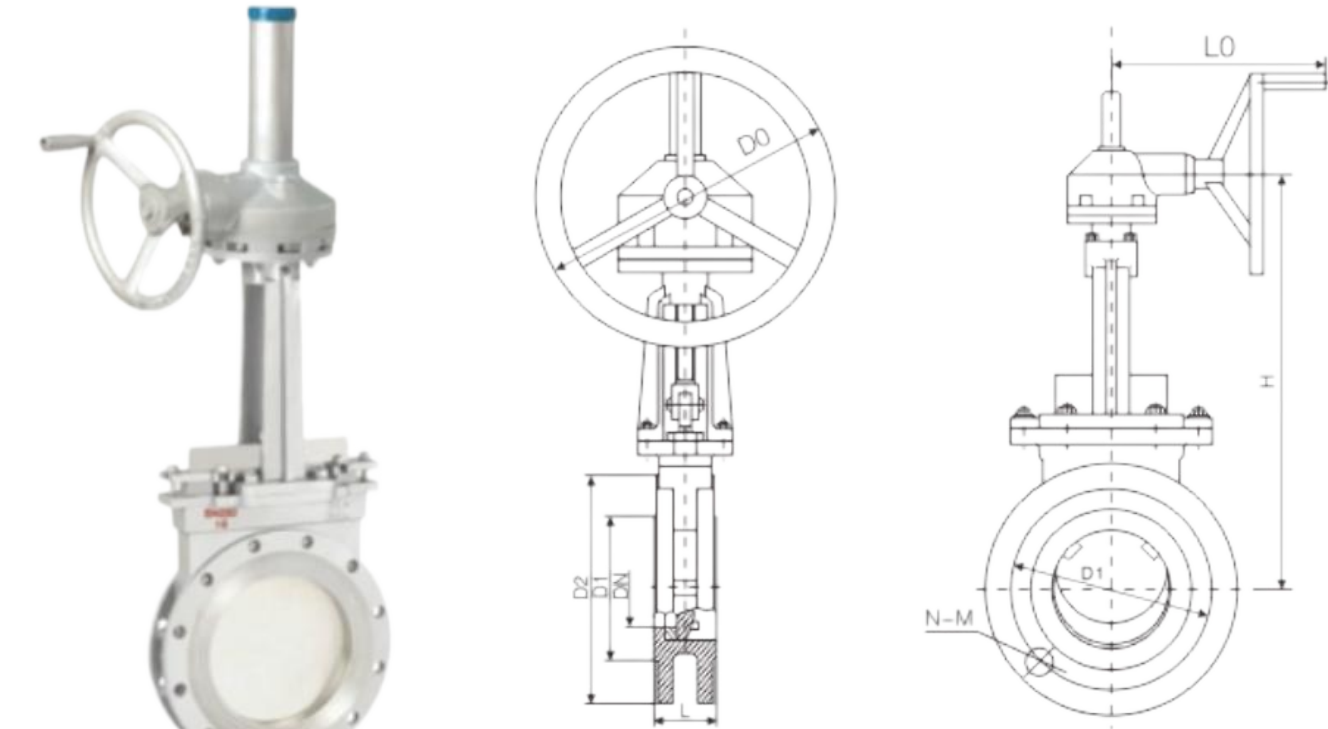
DN mm	L	D	D1	D2	H	N-M	D0
50	43	160	125	100	285	4-M16	180
65	46	180	145	120	298	4-M16	180
80	46	195	160	135	315	4-M16	220
100	52	215	180	155	365	8-M16	220
125	56	245	210	185	400	8-M16	230
150	56	280	240	210	475	8-M20	280
200	60	335	295	265	540	8-M20	360
250	68	390	350	320	630	12-M20	360
300	78	440	400	368	780	12-M20	400
350	78	500	460	428	885	16-M20	400
400	102	565	515	482	990	16-M22	400
450	114	615	565	532	1100	20-M22	530
500	127	670	620	585	1200	20-M22	530
600	154	780	725	685	1450	20-M27	600
700	165	895	840	800	1700	24-M27	600
800	190	1010	950	898	2000	24-M30	680
900	203	1110	1050	1005	2300	28-M30	680
1000	216	1220	1160	1115	2500	28-M30	700
1200	254	1450	1380	1325	2800	32-M36	800

PZ73 KNIFE GATE VALVE

1.6MPa

DN mm	L	D	D1	D2	H	N-M	D0
50	43	160	125	99	285	4-M16	180
65	46	185	145	120	295	4-M16	180
80	46	200	160	135	315	8-M16	220
100	52	220	180	155	365	8-M16	220
125	56	250	210	185	400	8-M16	230
150	56	285	240	210	475	8-M20	280
200	60	340	295	265	540	12-M20	360
250	68	405	355	310	630	12-M22	360
300	78	460	410	375	780	12-M22	400
350	78	520	470	435	885	16-M22	400
400	102	580	525	485	990	16-M27	400
450	114	640	585	545	1100	20-M27	530
500	127	715	650	609	1200	20-M30	530
600	154	840	770	720	1450	20-M36	600
700	165	910	840	788	1700	24-M26	600
800	190	1025	950	898	2000	24-M36	680
900	203	1125	1050	998	2300	28-M36	680
1000	216	1255	1170	1110	2500	28-M42	700
1200	254	1485	1390	1325	2800	32-M48	800

PZ573 BEVEL GEAR KNIFE GATE VALVE



0.6MPa

DN mm	L1	D1	D2	H	N-M
50	43	90	110	475	4-M12
65	46	110	130	500	4-M12
80	46	125	150	535	4-M16
100	52	145	170	605	4-M16
125	56	175	200	665	8-M16
150	56	200	225	765	8-M16
200	60	255	280	880	8-M16
250	68	310	335	1020	12-M16
300	78	362	395	1220	12-M20
350	78	412	445	1375	12-M20
400	102	462	495	1560	16-M20
450	114	518	550	1720	16-M20
500	127	568	600	1870	16-M20
600	154	670	705	2220	20-M22
700	165	775	810	2570	24-M22
800	190	880	920	3030	24-M27
900	203	980	1020	3430	24-M27
1000	216	1080	1120	3470	28-M27
1200	254	1295	1340	4230	32-M30

1.0MPa

DN mm	L1	D1	D2	H	N-M
50	43	100	125	475	4-M16
65	46	120	145	500	4-M16
80	46	135	160	535	4-M16
100	52	155	180	605	8-M16
125	56	185	210	665	8-M16
150	56	210	240	765	8-M20
200	60	265	295	880	8-M20
250	68	320	350	1020	12-M20
300	78	368	400	1220	12-M20
350	78	428	460	1375	16-M20
400	102	482	515	1560	16-M22
450	114	532	565	1720	20-M22
500	127	585	620	1870	20-M22
600	154	685	725	2220	20-M27
700	165	800	840	2570	24-M27
800	190	898	950	3030	24-M30
900	203	1005	1050	3430	28-M30
1000	216	1155	1160	3470	28-M30
1200	254	1325	1380	4230	32-M36

Main features

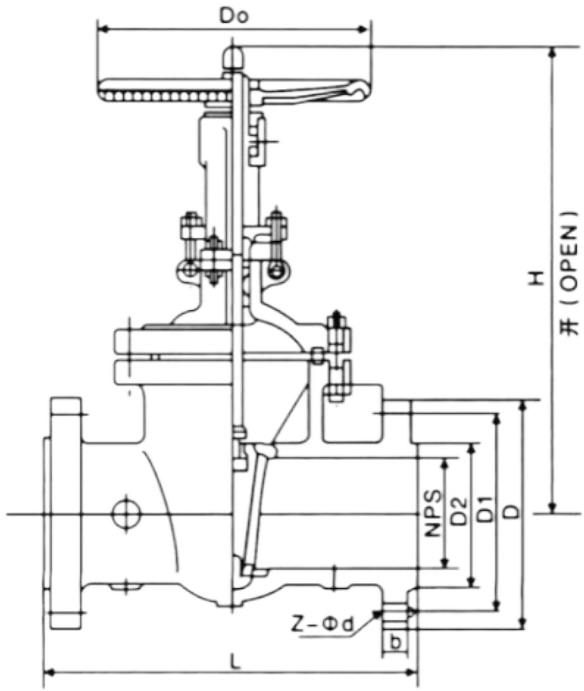
- Full bore, rising stem with yoke
- Middle flange bolt connection
- Resilient wedge, fully guided
- Rising stem and non-rising handwheel
- Gear operator operation option
- Standard flange ends
- Butt welding ends

Product specification

	Design	Face to Face	Flange Ends	Test & Check	Pressure-Temp.	Marking	Supply
Product specification	API 600 API 6D	ASME B16.10 API 6D	ASME B16.5	API 598	API 6D ASME B16.34	MSS SP-25	API 608 API 6D

Main parts material

Parts name	Parts material			
Body/Bonnet	A216-WCB	A217-WC6	A352-LCB	A351-CF8M
Wedge	A182-WCB	A217-WC6	A352-LCB	A351-CF8M
Stem	A182-F6a	A182-F11	A182-F6a	A182-F316
Packing	Flexible Graphite	Flexible Graphite	Flexible Graphite	PTFE+FPM
Gasket	18-8 Flexible Graphite			
Bolt	A193-B7	A193-B7	A193-B7M	A193-B8
Temperature	-29~425℃	-29~550℃	-46~350℃	-40~200℃
Media	Water, oil, steam	Oil, steam	Propane, ethylene	Acetic acid



150LB

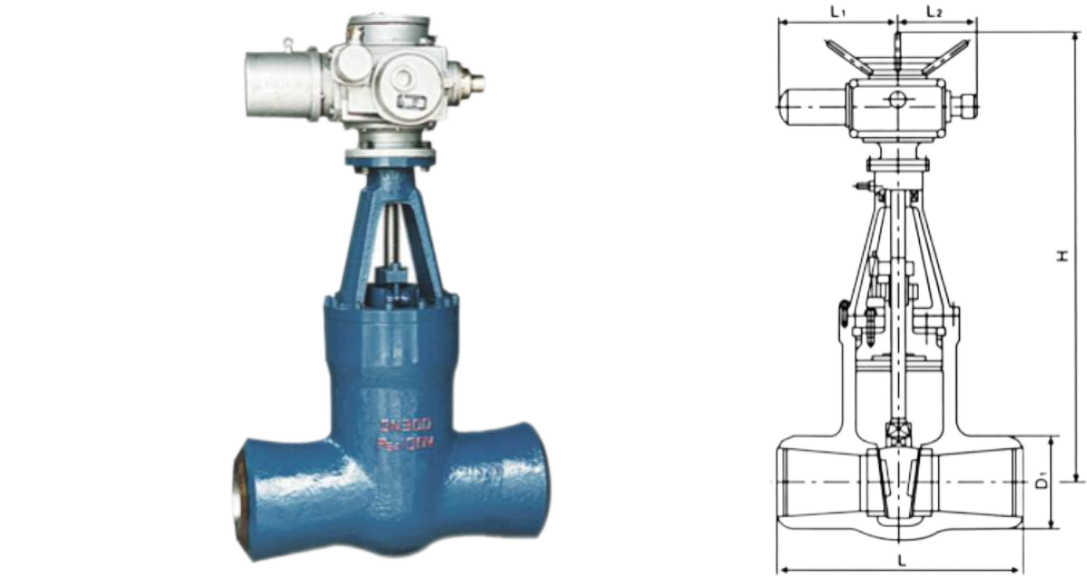
Model	NPS in	DN mm	L	D	D1	D2	b	Z-φd	H	D0	Weight Kg
Z40H-150LB Z40H-150LBP	2"	50	178	152	120.5	92	16	4-19	323	200	18
	2-1/2"	65	190	178	139.5	105	18	4-19	347	250	28
	3"	80	203	190	152.5	127	19	4-19	383	250	30
	4"	100	229	229	190.5	157	24	8-19	457	300	50
	5"	125	254	254	216	186	24	8-22	632	300	63
Z40H-150LB Z40H-150LBR	6"	150	267	279	241.5	216	26	8-22	635	350	85
	8"	200	292	343	298.5	270	29	8-22	762	380	128
Z40H-150LBPL Z40H-150LBRL	10"	250	330	406	362	324	31	12-25	895	400	220
	12"	300	356	483	432	381	32	12-25	1080	500	310
	14"	350	381	533	476	413	35	12-29	1295	600	450
	16"	400	406	597	540	470	37	16-29	1435	600	550
	18"	450	432	635	578	533	40	16-32	1626	650	700
	20"	500	457	698	635	584	43	20-32	1829	650	910
	28"	600	508	813	749.5	692	48	20-35	2175	700	1130
	24"	700	610	984	914.5	857	75	28-35	2695	700	2230

300LB

Model	NPS in	DN mm	L	D	D1	D2	b	Z-φd	H	D0	Weight Kg
Z40H-300LB Z40H-300LBP	2"	50	216	165	127	92	22	8-19	330	250	30
	2-1/2"	65	241	190	149	105	25	8-22	368	250	36
	3"	80	283	210	168.5	127	29	8-22	394	300	61
	4"	100	305	254	200	157	32	8-22	473	300	77
	5"	125	381	279	235	186	35	8-22	660	350	106
Z40H-300LB Z40H-300LBR	6"	150	403	318	270	216	37	12-22	711	350	153
Z40H-300LBPL Z40H-300LBRL	8"	200	419	381	330	270	41	12-25	813	400	286
	10"	250	457	444	387.5	324	48	16-29	1003	500	412
	12"	300	502	521	451	381	51	16-32	1137	600	576
	14"	350	732	584	514.5	413	54	20-32	1489	600	886
	16"	400	838	648	571.5	470	57	20-35	1581	650	1175
	18"	450	914	711	628.5	533	60	24-35	2017	838	1304
	20"	500	991	775	686	584	64	24-35	2228	889	1672
	28"	600	1143	914	813	692	70	24-41	2650	1092	2562

600LB

Model	NPS in	DN mm	L	D	D1	D2	b	Z-φd	H	D0	Weight Kg
Z40H-600LB Z40H-600LBP	2"	50	292	165	127	92	33	8-19	510	254	44
	2-1/2"	65	330	190	149	100	36	8-22	554	254	60
	3"	80	356	210	168	127	39	8-22	595	305	80
	4"	100	432	254	216	157	45	8-25	712	353	145
	5"	125	508	279	266.5	186	52	8-29	826	406	236
Z40H-600LB Z40H-600LBR	6"	150	559	318	292	216	55	12-29	995	508	309
	8"	200	660	381	349	270	63	12-32	1157	610	522
Z40H-600LBPL Z40H-600LBRL	10"	250	787	444	432	324	71	16-35	1373	686	779
	12"	300	838	521	489	381	74	20-35	1603	686	1108
	14"	350	889	584	527	413	77	20-38	1930	762	1503
	16"	400	991	648	603	470	84	20-41	2032	889	1939
	18"	450	1092	711	654	533	90	20-44	2286	889	2733
	20"	500	1194	775	724	584	96	24-44	2591	1118	3214
	28"	600	1397	940	838	692	109	24-52	3124	1118	4177



Product specification

Product specification	Design	Face to Face	Connection Ends	Test & Check	Pressure-Temp.	Marking
	JB/T3595	JB/T3595	GB/T 12224	JB/T3595	GB/T 12224	GB/T 12220

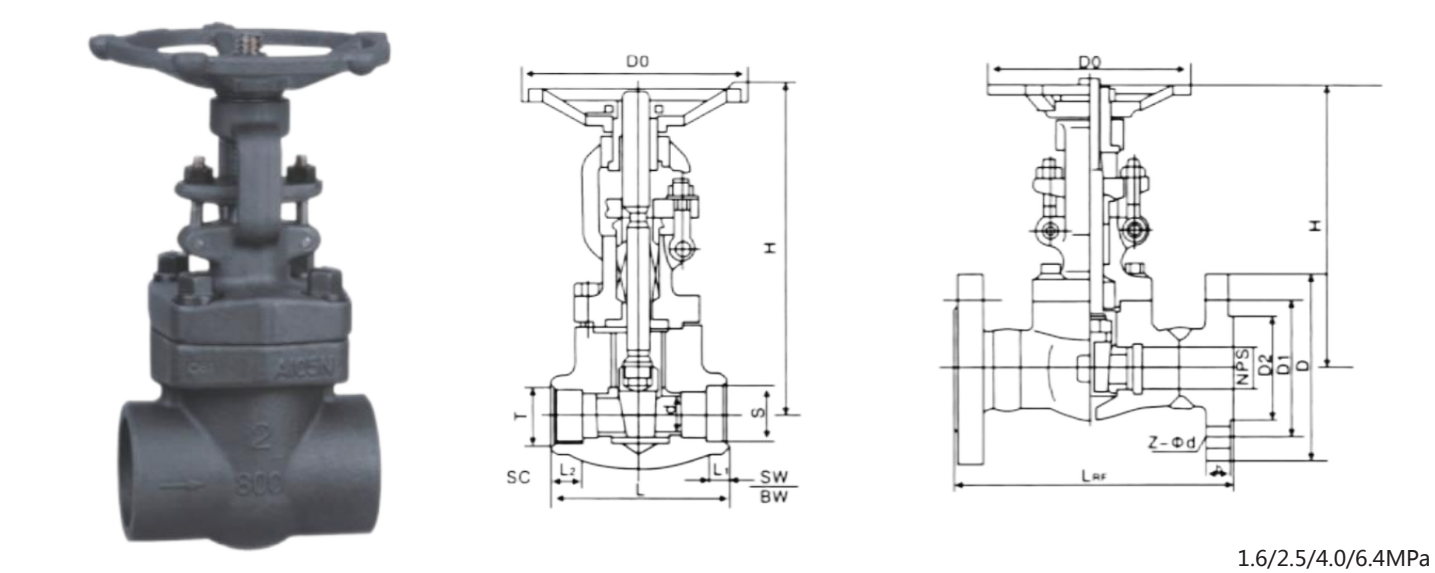
Performance specifications

Model	PN(MPa)	Test pressure (MPa)		Working pressure (MPa)	Working temp. (°C)	Media
		Strength test	Sealing test			
Z960Y-250	25	37.5	27.5	-	≤425	Water, steam
Z960Y-320	32	48.0	36.0	-	≤425	Water, steam
Z960Y-P ₅₄ 100	-	30.0	22.0	P ₅₄ 10	≤540	Steam
Z960Y-P ₅₄ 170	-	48.0	36.0	P ₅₄ 17	≤540	Steam

Main parts material

Parts name	Parts material		
Body	WCB	WC6	WC9
Wedge	WCB	WC6	WC9
Bonnet	25	12Cr1Mo1VA	12Cr1Mo1VA
Stem	1Cr17Ni2	20Cr1Mo1VA	20Cr1Mo1VA
Seat	25	12Cr1Mo1VA	12Cr1Mo1VA
Sealing ring	S mild steel	S mild steel	S mild steel
Packing	Enhanced flexible graphite	Enhanced flexible graphite	Enhanced flexible graphite
Yoke	WCB	WCB/WC6	WCB/WC6
Stem nut	45(ZCuZn25A16Fe3Mn3)	45(ZCuZn25A16Fe3Mn3)	45(ZCuZn25A16Fe3Mn3)
Four piece ring	1Cr13	20Cr1Mo1VA	20Cr1Mo1VA

Model	DN mm	d	L	H	L1	L	Weight Kg
Z960Y-250	100	84	406	1164	437	277	234
	125	100	483	1402	437	277	343
	175	158	711	1650	554	309	638
	225	200	864	1650	554	309	654
	300	280	1067	2106	764	398	1973
Z960Y-320	100	96	533	1236	437	277	291
	125	118	610	1302	437	277	315
	150	148	762	1403	526	283	672
	175	148	762	1650	554	309	684
	225	222	1041	1650	554	309	696
Z960Y-P ₅₄ 170V	175	148	762	1650	554	309	683
	225	222	1041	1650	554	309	704
	250	222	1041	1795	554	309	1214
	300	294	1245	2080	554	309	2125
Z960Y-P ₅₄ 100V	125	98	630	1230	437	277	312
	225	186	1060	1680	554	309	1401
	300	278	1397	2265	764	-	2834
	325	310	1448	2265	690	398	2632
	350	338	1550	2536	715	-	5591

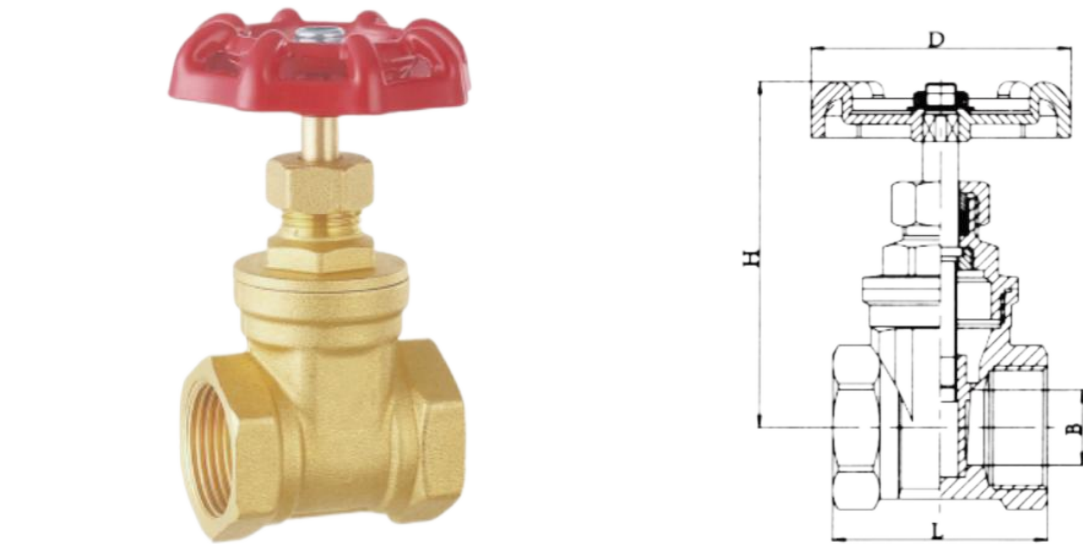


1.6/2.5/4.0/6.4MPa

Model	DN mm	L	d	S	L1	T	L2	H	D0	Weight Kg
Z41H-16 Z41H-25 Z41H-40 Z11H-16 Z11H-25 Z11H-40 Z61H-16 Z61H-25 Z61H-40	15	90	13	22.5	10	1/2"	15	151	118	6.9
	20	100	18	28.5	11	3/4"	17	182	130	9.8
	25	120	23	34.5	12	1"	19	197	150	13.5
	32	130	28	43	14	1-1/4"	21	212	180	19.5
	40	150	36	49	15	1-1/2"	21	231	180	28.5
	50	155	45	61	16	2"	25	253	180	30.3
Z41H-64 Z11H-64 Z61H-64	15	90	13	22.5	10	1/2"	15	151	118	7.7
	20	100	18	28.5	11	3/4"	17	182	130	11.3
	25	120	23	34.5	12	1"	19	197	150	16.8
	32	130	28	43	14	1-1/4"	21	212	180	21.2
	40	150	36	49	15	1-1/2"	21	231	180	32.6
	50	155	45	61	16	2"	25	253	180	35

10.0/16.0MPa

Model	DN mm	L	d	S	L1	T	L2	H	D0	Weight Kg
Z41Y-100 Z11Y-100 Z61Y-100	15	90	13	22.5	10	1/2"	15	151	118	7.8
	20	100	18	28.5	11	3/4"	17	182	130	12.5
	25	120	23	34.5	12	1"	19	197	150	17.5
	32	130	28	43	14	1-1/4"	21	212	180	23.5
	40	150	36	49	15	1-1/2"	21	231	180	38.5
	50	155	45	61	16	2"	25	253	180	42.2
Z41Y-160 Z11Y-160 Z61Y-160	15	90	13	22.5	10	1/2"	15	151	118	8
	20	100	18	28.5	11	3/4"	17	182	130	13.6
	25	120	23	34.5	12	1"	19	197	150	19.4
	32	130	28	43	14	1-1/4"	21	212	180	25.1
	40	150	36	49	15	1-1/2"	21	231	180	41.6
	50	155	45	61	16	2"	25	253	180	49



Main features

- 1. The valve has low fluid resistance.
- 2. The external force required for opening and closing is small.
- 3. The flow direction of the medium is not restricted.
- 4. When fully open, the erosion of the working medium on the sealing surface is smaller than that of the globe valve.

Technical specifications

Nominal pressure: 1.6MPa
Working medium: water, non-corrosive liquid
Working temperature: 0~120°C
Pipe thread: ISO 7 standard

DN mm	Size	L	B	H	D
8	1/4	40	10	61.5	45
10	3/8	40	10	61.5	45
15	1/2	45	12.8	71	55
20	3/4	49.5	17	75.5	55
25	1	55	21	87.5	60
32	1-1/4	59.5	27	103	72
40	1-1/2	63	34	113.5	72
50	2	69	45	133.5	80
65	2-1/2	88	56	163.5	100
80	3	95	68	189.5	110
100	4	114	90	235	130