Z40/41 H/Y/W

API Gate Valve

Product features

American Standard gate valve produced by our company, in full accordance with the American Standard Design and manufacture, beautiful structure, advanced valve opening and closing parts is the gate, gate movement direction and perpendicular to the direction of the liquid, the valve can only be fully open and fully closed, can not be adjusted and the throttle gate has two sealing surfaces, the wedge angle is 2° 52'. The gate of wedge gate valve can be made into a whole, which is called rigid gate. It can also make sluice that can produce micro deformation, so as to improve its manufacturability and make up for the deviation produced by the angle of seal face during processing. This gate is called elastic gate.

Performance standard

Design and manufacturing	Face to face dimension	Flange size	Welding connection size	Pressure temperature	Experiment – test
AP16D、600	ANSI B16.10	ANSI B16.5	ANSI B16.25	ANSI B16.34	AP1598.AP16D

Performance specifcation

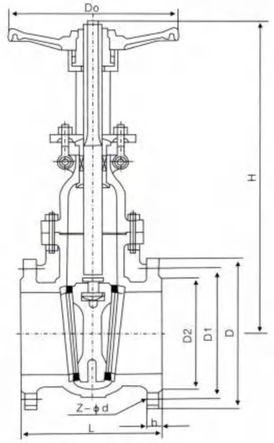
Work pressure (Lb)	Strength test		Water seal test		Sealing test	
	MPa	Lbf/in²	MPa	Lbf/in²	MPa	Lbf/in²
150	3.1	450	2.2	315	0.5–0.7	60–100
300	7.8	1125	5.6	815		
600	15.3	2250	11.2	1630		
900	25.1	3350	16.8	2440		
1500	38.4	6675	28.1	4080		
2500	64.6	9367	47.4	6873		

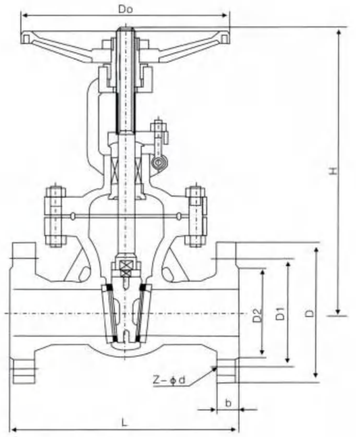
Materials of main parts

Valve、bonnet、disc	Stem	Sealing surface	Gasket(ring)	Packing	Working temperature(℃)	Applicable medium
WCB	2Cr13	13Cr STL Bulk material PTFE Nylon	13Cr/ Enhanced flexible graphite 13Cr/flexible graphite SFB–2 08 F304 F316 F304L F316L	Flexible graphite Enhanced flexible graphite SFB1260 SFP1260 PTFE	≤420	Water,steam,oil
WC1	38CrMoA1 25Cr2Mov				≤450	
WC6					≤540	
WC9					≤570	
C5 C12					≤540	
CF8	F304				≤600	Nitric acid,acetic acid,urea
CF3	F316					
CF8M	F304L					
CF3M	F316L					

Z40/41 H/Y/W

API Gate Valve





Main shape size and connection size

Size: mm

NPS	DN	150Lb RF							
in	mm	L	D	D1	D2	b	Z–Φd	H	D0
1/2	15	108	90	60.5	35	10	4–16	169	100
3/4	20	117	100	70	43	11	4–16	192	100
1	25	127	110	79.5	51	12	4–16	230	120
11/4	32	140	115	89	63	13	4–16	246	120
11/2	40	165	125	98.5	73	15	4–16	283	150
2	50	178	150	120.5	92	16	4–19	323	150
21/2	65	190	180	139.5	105	18	4–19	347	180
3	80	203	190	152.5	127	19	4–19	383	200
4	100	229	230	190.5	157	24	8–19	457	200
5	125	254	255	216	186	24	8–22.5	632	250
6	150	267	280	241.5	216	26	8–22.5	635	250
8	200	292	345	298.5	270	29	8–22.5	762	280
10	250	330	405	362	324	31	12–25.4	892	300
12	300	356	485	432	381	32	12–25.4	1080	350
14	350	381	535	476.3	413	35	12–29	1295	350
16	400	406	595	540	470	37	16–29	1435	400
18	450	432	635	578	533	40	16–32	1626	400
20	500	457	700	635	584	43	20–32	1829	450
24	600	508	815	749.5	692	48.1	20–35	2175	500
26	650	559	785	744.5	711	41.8	36–22.5	2235	550
28	700	610	835	795.3	762	45	40–22.5	2310	600
30	750	610	885	846	813	45	44–22.5	2695	600
32	800	660	940	900	864	46.6	48–22.5	3708	–
36	900	711	1055	1010	972	53	40–25.4	3924	–
40	1000	813	1175	1120.6	1080	56	44–29	4318	–

Z40/41 H/Y/W

API Gate Valve

Main shape size and connection size

Size: mm

NPS	DN	300Lb RF							
in	mm	L	D	D1	D2	b	Z-Φd	H	D0
1/2	15	140	95	66.5	35	15	4-16	169	120
3/4	20	152	115	82.5	43	16	4-19	193	150
1	25	165	125	89	51	18	4-19	230	150
11/4	32	178	135	98.5	63	19	4-19	246	160
11/2	40	190	155	114.5	73	21	4-22.5	283	180
2	50	216	165	127	92	23	8-19	330	200
21/2	65	241	190	149.4	105	26	8-22.5	368	240
3	80	282	210	168.5	127	29	8-22.5	394	280
4	100	305	255	200	157	32	8-22.5	473	300
5	125	381	280	235	186	35	8-22.5	660	350
6	150	403	320	270	216	37	12-22.5	711	400
8	200	419	380	330	270	42	12-26	813	400
10	250	457	445	387.5	324	48	16-29	1003	450
12	300	502	520	451	381	51	16-32	1137	500
14	350	762	585	514.5	413	54	20-32	1489	600
16	400	838	650	571.5	470	58	20-35	1580	650
18	450	914	710	628.5	533	61	24-35	2017	700
20	500	991	775	686	584	64	24-35	2228	700
24	600	1143	915	813	692	70	24-41	2650	750
26	650	1245	865	803.1	736.6	90	32-35	3219	-
28	700	1346	920	857.3	787.4	90	36-35	3378	-
30	750	1397	990	920.8	844.6	93.7	36-38	3530	-
600Lb RF									
1/2	15	165	95	66.5	35	21	4-16	169	160
3/4	20	190	115	82.5	43	23	4-19	193	180
1	25	216	125	89	51	25	4-19	230	200
11/4	32	229	135	98.5	63	28	4-19	246	200
11/2	40	241	155	114.5	73	29	4-22	283	240
2	50	292	165	127	92	33	8-19	425	280
21/2	65	330	190	149	105	36	8-22.5	485	320
3	80	356	210	168.5	127	39	8-22.5	510	350
4	100	432	275	216	157	45	8-26	610	400
5	125	508	330	267	186	52	8-29	700	450
6	150	559	355	292	216	55	12-29	820	500
8	200	660	420	349	270	63	12-32	920	600
10	250	787	510	432	324	71	16-35	1080	650
12	300	838	560	489	381	74	20-35	1220	650
14	350	889	605	527	413	77	20-38	1473	700
16	400	991	685	603	470	84	20-41	1651	800
18	450	1092	745	654	533	90	20-45	1727	800
20	500	1194	815	724	584	96	24-45	2019	800
24	600	1397	940	838	692	109	24-51	2155	-

Z40/41 H/Y/W

API Gate Valve

Main shape size and connection size

Size: mm

NPS	DN	900Lb RTJ self-sealing							
in	mm	L	D	D1	D2	b	Z-Φd	H	D0
2	50	371	215	165.1	95.25	38.1	8-25	521	300
21/2	65	422	245	190.5	107.95	41.3	8-28.5	584	350
3	80	384	240	190.5	123.83	38.1	8-425.4	648	350
4	100	460	290	235.0	149.23	44.5	8-32	750	400
5	125	562	350	279.4	180.98	50.8	8-35	780	400
6	150	613	380	317.5	211.12	55.6	12-32	800	500
8	200	740	470	393.7	269.88	63.5	12-38	940	600
10	250	841	545	469.6	323.85	69.9	16-38	1130	600
12	300	968	610	533.4	381.00	79.4	20-38	1340	650
14	350	1038	640	558.8	419.10	85.8	20-41	1543	700
16	400	1140	705	616.0	469.90	88.9	20-44.5	1600	750
18	450	1232	785	685.8	533.40	101.6	20-51	1830	800
20	500	1334	855	749.3	584.20	108.0	20-54	2100	850
24	600	1568	1040	901.7	692.15	139.7	20-56.5	2610	900
1500Lb RTJ									
2	50	371	215	165.1	95.25	38.1	8-25.4	614	300
21/2	65	422	245	190.5	107.95	41.3	8-28.5	705	350
3	80	473	265	203.2	136.53	47.7	8-32	705	400
4	100	549	310	241.3	161.93	54.0	8-35	927	400
5	125	676	375	292.1	193.68	73.1	8-41	1120	500
6	150	711	395	317.5	211.14	82.6	12-38	1191	500
8	200	841	485	393.7	269.88	92.1	12-45	1524	650
10	250	1000	585	482.6	323.85	108.0	12-51	1854	700
12	300	1146	675	571.5	381.00	123.9	16-54	2184	700
14	350	1276	750	635.0	419.10	133.4	16-61	2216	800
16	400	1407	825	704.8	469.90	146.1	16-67	2210	800
18	450	1559	915	774.7	533.40	162.0	16-73	-	850
20	500	1686	985	831.8	584.20	177,8	16-80	-	900
24	600	1972	1170	990.6	692.15	203.2	16-92	-	950
2500Lb RTJ									
2	50	454	235	171.4	101.60	50.9	8-28.5	523	350
21/2	65	514	265	196.8	111.10	57.2	8-32	631	350
3	80	584	305	228.6	127.00	66.7	8-35	735	400
4	100	683	355	273.0	157.18	76.2	8-41	891	500
5	125	806	420	323.8	190.50	92.1	8-48	1047	650
6	150	927	485	368.3	228.60	108.0	8-54	1144	700
8	200	1038	550	438.2	279.40	127.0	12-54	1392	700
10	250	1292	675	539.8	342.90	165.1	12-67	1614	800
12	300	1445	760	619.1	406.40	184.2	12-73	1900	850

GATE VALVE SERIES

GATE VALVE SERIES

Z40/41/KZ41 H/Y/W

Gate Valve

Product features

1、Compact structure, reasonable design, good rigidity, smooth channel, small flow resistance coefficient.
2、Sealing surface made of stainless steel and hard alloy, this design can ensure long service life
3、By using flexible graphite packing, we can make sealing performance more reliable and make it easy to operate.
4、Operation: manual, electric, pneumatic, gear driven. Structure type: resilient wedge single disc, hard sealing wedge single disc and double disc type.
5、They are widely used in petroleum, chemical, thermal power plants to serve oil, water, steam in the pipes as open and close device by connecting or cutting off the medium in the pipelines.

Performance standard

Design and manufacturing	Face to face dimension	Type of connection	Inspection and test
GB/T12234	GB/T12221	GB/T9124、JB/T79、HG20592	GB/T26480、GB/T13927

Performance specif cation

1.Test pressure

Nominal Pressure PN	Test pressure(MPa)			
	Shell	Seal(liquid)	Seal(gas)	Back seal
1.6	2.4	1.76	0.6	1.76
2.5	3.75	2.75		2.75
4	6	4.4		4.4
6.4	9.6	7.04		7.04
10	15	11		11
16	24	17.6		17.6

2.Body material and Application

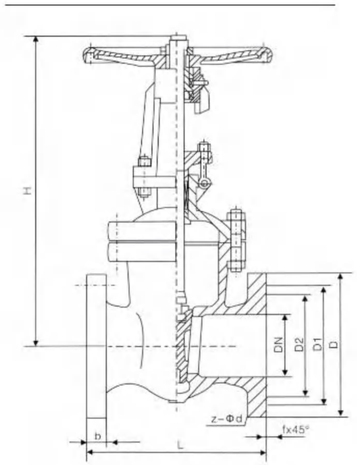
Product model	Body material	Applicable medium	Working temperature
$Z4^{0}_{1}H$-16、25、40、64、100、160	Carbon steel	Water,steam,oil	≤425
$Z4^{0}_{1}W$-16P、25P、40P、64P、100P、160P	Chromium nickelsfee	Nitric acid	≤200
$Z4^{0}_{1}W$-16R、25R、40R、64R、100R、160R	Cr.ni.mo. ti steel	Nitric acid	≤200
$Z4^{0}_{1}Y$-16I、25I、40I、64I、100I、160I	Cr Mo steel	Water,steam,oil	≤550

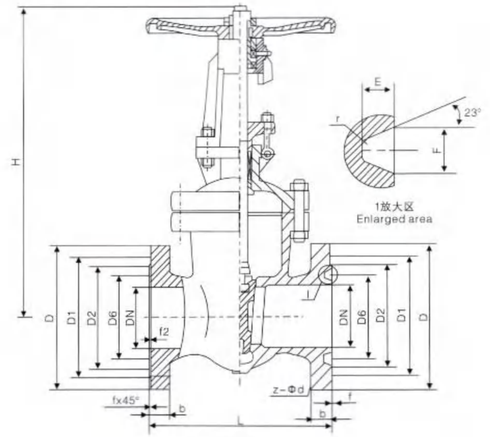
Materials of main parts

Body,Bonnet	Plate,Seat	Stem	Stem nut	Packing	Handwheel
Carbon steel	High quality carbon steel +hard alloy or stainless steel	Chromium stainless steel	ZQAL9-4 Aluminium bronze	Flexible graphite	Malleable iron
Chromium nickel steel	Stainless steel, stainless steel,hard alloy	Chromium nickel titanium stainless steel	ZQAL9-4 Aluminium bronze	Impregnated PTFE	Malleable iron
Cr.ni.mo.ti steel	Stainless steel, stainless steel, hard alloy	Chromium nickel titanium stainless steel	ZQAL9-4 Aluminium bronze	Vinyl asbestos packing	Malleable iron
Cr Mo steel	Alloy steel and hard alloy	Chromium molybdenurr steel	ZQAL9-4 Aluminium bronze	Flexible graphite	Malleable iron

Z40/41/KZ41 H/Y/W

Gate Valve





Main shape size and connection size

Size: mm

Nominal Diameter DN(mm)	L	D	D1	D2	b	f	Z-Φd	H	H1	D0
PN1.0MPa										
40	165	145	110	85	18	3	4-18	255	–	180
50	180	160	125	100	20	3	4-18	286	–	200
65	195	180	145	120	20	3	4-18	331	–	200
80	210	195	160	135	22	3	4-18	375	–	220
100	230	215	180	155	22	3	8-18	430	–	250
125	255	245	210	185	24	3	8-18	523	–	280
150	280	280	240	210	24	3	8-23	592	–	300
200	330	335	295	265	26	3	8-23	760	–	350
250	380	390	350	320	28	3	12-23	890	–	400
300	420	440	400	368	28	4	12-23	1030	–	400
350	450	500	460	428	30	4	16-23	1173	–	450
400	480	565	515	482	32	4	16-25	1325	–	500
450	510	615	565	532	32	4	20-25	1500	–	550
500	540	670	620	585	34	4	20-25	1780	–	600
600	600	780	725	685	36	5	20-30	2010	–	800
700	660	895	840	800	40	5	24-30	2550	–	900

GATE VALVE SERIES

Main shape size and connection size

Size: mm

Nominal Diameter DN(mm)	L	D	D1	D2	b	f	Z-Φd	H	H1	D0
PN1.6MPa										
15	130	95	65	45	14	2	4-14	220	240	120
20	150	105	75	55	14	2	4-14	255	284	140
25	160	115	85	65	14	2	4-14	275	303	160
32	180	135	100	78	16	2	4-18	280	321	180
40	200	145	110	85	16	3	4-18	300	352	200
50	250	160	125	100	16	3	4-18	358	438	240
65	265	180	145	120	18	3	4-18	375	450	240
80	280	195	160	135	20	3	8-18	433	528	280
100	300	215	180	155	20	3	8-18	502	620	320
125	325	245	210	185	22	3	8-18	612	753	360
150	350	280	240	210	24	3	8-23	676	847	360
200	400	335	295	265	26	3	12-23	820	1039	400
250	450	405	355	320	30	3	12-25	969	1245	450
300	500	460	410	375	30	4	12-25	1142	1472	560
350	550	520	470	435	34	4	16-25	1280	1450	640
400	600	580	525	485	36	4	16-30	1452	1887	640
450	650	640	585	545	40	4	20-30	1541	2011	720
500	700	705	650	608	44	4	20-34	1676	2181	720
600	800	840	770	718	48	5	20-41	1874	2346	800
700	900	910	840	788	50	5	24-41	2139	2819	880
800	1000	1020	950	898	52	5	24-41	2293	3034	980
900	1100	1120	1050	998	54	5	28-41	2595	3445	1080
1000	1200	1255	1170	1110	56	5	28-48	2733	3683	1180
1200	1350	1485	1390	1325	58	5	32-54	3032	3032	1300
PN2.5MPa										
15	130	95	65	45	16	2	4-14	220	240	120
20	150	105	75	55	16	2	4-14	255	284	140
25	160	115	85	65	16	2	4-14	275	303	160
32	180	135	100	78	18	2	4-18	280	321	180
40	200	145	110	85	18	3	4-18	300	352	200
50	250	160	125	100	20	3	4-18	358	438	240
65	265	180	145	120	22	3	8-18	375	450	240
80	280	195	160	135	22	3	8-18	433	528	280
100	300	230	190	160	24	3	8-23	502	620	320
125	325	270	220	188	28	3	8-25	612	753	360
150	350	300	250	218	30	3	8-25	676	847	360
200	400	360	310	278	34	3	12-25	820	1039	400
250	450	425	370	332	36	3	12-30	969	1245	450
300	500	485	430	390	40	4	16-30	1142	1472	560
350	550	550	490	448	44	4	16-34	1280	1450	640
400	600	610	550	505	48	4	16-34	1452	1887	640
450	650	660	600	555	50	4	20-34	1541	2011	720
500	700	730	660	610	52	4	20-41	1676	2181	720
600	800	840	770	718	56	5	20-41	1874	2346	800
700	900	955	875	815	60	5	24-48	2083	2517	880
800	1000	1070	990	930	64	5	24-48	2400	2890	950
900	1100	1180	1090	1025	66	5	28-54	2950	3316	1000
1000	1200	1305	1210	1140	68	5	28-58	3245	3600	1000

Z940/Z941H/Y/W

Electric Gate Valve

Main shape size and connection size

Size: mm

Nominal Diameter DN(mm)	L	D	D1	D2	b	f	Z-Φd	H	Electric device model
PN2.5MPa									
40	200	145	110	85	18	3	4-18	595	DZW15
50	250	160	125	100	20	3	4-18	653	DZW20
65	265	180	145	120	22	3	8-18	665	DZW20
80	280	195	160	135	22	3	8-18	725	DZW20
100	300	230	190	160	24	3	8-23	787	DZW20
125	325	270	220	188	28	3	8-25	902	DZW30
150	350	300	250	218	30	3	8-25	955	DZW30
200	400	360	310	278	34	3	12-25	1105	DZW45
250	450	425	370	332	36	3	12-30	1343	DZW45
300	500	485	430	390	40	4	16-30	1516	DZW60
350	550	550	490	448	44	4	16-34	1678	DZW60
400	600	610	550	505	48	4	16-34	1849	DZW90
450	650	660	600	555	50	4	20-34	1937	DZW90
500	700	730	660	610	52	4	20-41	2234	DZW120
600	800	840	770	718	56	5	20-41	2432	DZW180
700	900	955	875	815	60	5	24-48	2489	DZW250
800	1000	1070	990	930	64	5	24-48	2643	DZW350
900	1100	1180	1090	1025	66	5	28-54	2790	DZW500
1000	1200	1305	1210	1140	68	5	28-54	2940	DZW500
1200	1700	1525	1420	1350	72	5	32-58	3230	DZW800

Note：the model of DN700 and DN800 is type Z942.

Nominal Diameter DN(mm)	L	D	D1	D2	D6	b	Z-Φd	f	f2	H	Electric device model
PN4.0MPa											
40	200	145	110	85	76	18	4-18	3	4	617	DZW15
50	250	160	125	100	88	20	4-18	3	4	665	DZW20
65	280	180	145	120	110	22	8-18	3	4	680	DZW20
80	310	195	160	135	121	22	8-18	3	4	752	DZW20
100	350	230	190	160	150	24	8-23	3	4.5	846	DZW30
150	450	300	250	218	204	30	8-25	3	4.5	1087	DZW45
200	550	375	320	282	260	38	12-30	3	4.5	1243	DZW45
250	650	445	385	345	313	42	12-34	3	4.5	1429	DZW60
300	750	510	450	408	364	46	16-34	4	4.5	1608	DZW90
350	850	570	510	465	422	52	16-34	4	5	1738	DZW90
400	950	655	585	535	474	58	16-41	4	5	1897	DZW120
450	1050	680	610	560	524	60	20-41	4	5	2104	DZW180
500	1150	755	670	612	576	62	20-48	4	5	2401	DZW250
600	1350	890	795	730	678	62	20-54	5	6	2510	DZW250
700	1450	995	900	835	768	68	24-54	5	6	2630	DZW500
800	1650	1135	1030	960	876	76	24-58	5	6	2755	DZW500

Z940/Z941H/Y/W

Electric Gate Valve

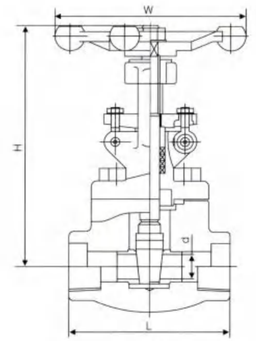
Main shape size and connection size

Size: mm

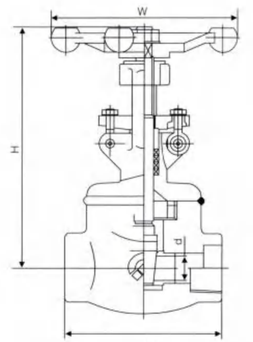
Nominal Diameter DN(mm)	L	D	D1	D2	D6	b	z–d	f	f2	H	Electric device model
PN6.4MPa											
50	250	175	135	105	88	26	4–23	3	4	667	DZW20
65	280	200	160	130	110	28	8–23	3	4	685	DZW20
80	310	210	170	140	121	30	8–23	3	4	748	DZW30
100	350	250	200	168	150	32	8–25	3	4.5	845	DZW30
150	450	340	280	240	204	38	8–34	3	4.5	1009	DZW45
200	550	405	345	300	260	44	12–34	3	4.5	1253	DZW60
250	650	470	400	352	313	48	12–41	3	4.5	1449	DZW60
300	750	530	460	412	364	54	16–41	4	4.5	1867	DZW90
350	850	595	525	475	422	60	16–41	4	5	1931	DZW120
400	950	670	585	525	474	66	16–48	4	5	2017	DZW180
500	1150	800	705	640	576	70	20–54	4	5	2459	DZW250
PN10.0MPa											
50	250	195	145	112	88	28	4–25	3	4	781	DZW20
65	280	220	170	138	110	32	8–25	3	4	830	DZW20
80	310	230	180	148	121	34	8–25	3	4	865	DZW30
100	350	265	210	172	150	38	8–30	3	4.5	1179	DZW30
150	450	350	290	250	204	46	12–34	3	4.5	1201	DZW60
200	550	430	360	312	260	54	12–41	3	4.5	1611	DZW90
250	650	500	430	382	313	60	12–41	3	4.5	1903	DZW90
300	750	585	500	442	364	70	16–48	3	4.5	2054	DZW120
350	850	655	560	498	422	76	16–54	3	5	2132	DZW180
400	950	715	620	558	474	80	16–54	3	5	2321	DZW250
PN16.0MPa											
50	300	215	165	132	88	36	8–25	3	4	905	DZW20
65	340	245	190	152	110	44	8–30	3	4	968	DZW20
80	390	260	205	168	121	46	8–30	3	4	978	DZW30
100	450	300	240	200	150	48	8–34	3	4.5	1043	DZW30
125	525	355	285	238	176	60	8–41	3	4.5	1248	DZW60
150	600	390	318	270	204	66	12–41	3	4.5	1394	DZW90
200	750	480	400	345	260	78	12–48	3	4.5	1621	DZW120

Note: the gear drive and pneumatic valve products can be provided according to the user's needs

Forging Steel Lnner Thread And Socket Welding Gate Valve



Z 11 61



Z 11 61

Performance standard

Design and manufacturing		ASME/ANSI B16.34; API 602; JB/T7746
Connection end size	Socket welding end	ASME/ANSI B16.11; JB/T1751
	Threaded connection end	ASME/ANSI B1.20.1(NPT)GB/T7306–87(RC)
Structure characteristics		B.B and W.B; OS&Y
Main material		A105; LF2; F5; F11; F22; F304; F316; F304L; F316L
Test and test of valve		API 598; GB/T13927; JB/T9092

Main shape size and connection size

Size: mm

Nominal Diameter DN(mm)	NPS(in)	Nominal Diameter DN(mm)	NPS(in)	d		L		H(open)		W		WT(kg)	
R.P		F.P		R.P	F.P	R.P	F.P	R.P	F.P	R.P	F.P	R.P	F.P
PN1.6–140MPa 150–800Lb													
8	1/4	–	–	7	–	79	–	149	–	100	–	1.9	–
10	3/8	8	1/4	10	7	79	79	151	149	100	100	1.9	1.9
15	1/2	10	3/8	10	10	79	79	151	151	100	100	1.9	1.9
20	3/4	15	1/2	13	13	92	92	158	158	100	100	2.1	2.1
25	1	20	3/4	18	18	111	111	185	158	125	125	3.2	3.2
32	$1_{1/4}$	25	1	24	24	120	120	239	239	160	160	6.9	6.9
40	$1_{1/2}$	32	$1_{1/4}$	29	29	120	120	243	243	160	160	6.9	6.9
50	2	40	$1_{1/2}$	36.5	36.5	140	140	279	279	180	180	10.4	10.4
–	–	50	2	–	46.5	–	178	–	328	–	200	–	15.8

Explain

1, The body lid welded structure (W.B) gate valve is preceded by the symbol "H" before the valve typf "Z" code,for example:HZ61H–800: the flange bolt structure "B.B" code "slihtly",for example: Z61H–800.

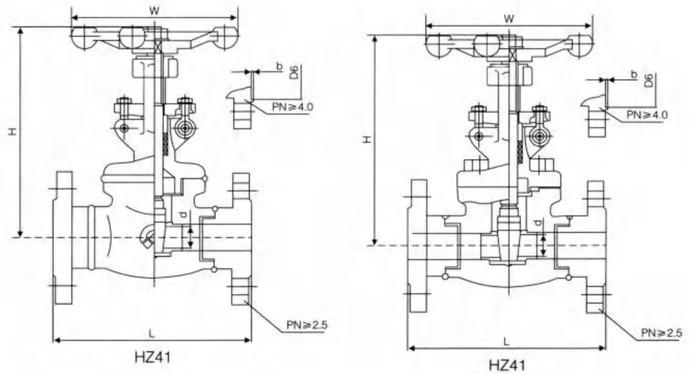
2, The size of the code named "R.P", the full diameter code "F.P".

3, The size of the pre–Code crown "F" to express the full path, such as F3/4,shrinkage "alittle".

4, The connection form allows one end socket welding and the other end thread.Its connection form is named"3",for example：Z31H–800.

GATE VALVE

Forged Steel Flanged Gate Valve



HZ41

HZ41

Performance standard

Design and manufacturing	JB/T7746
Connection end size	JB/T97; GB/T12221
Flange end size	JB/T82.1~82.4
Structure characteristics	B.B或W.B; OS & Y-缩径(R.P)
Main material	A105; LF; F5;F11; F22; F304; F304L; F316; F316L
Test and test of valve	GB/T13927;GB/T26480

Main shape size and connection size

Size: mm

Nominal pressure PN(MPa)	Nominal Diameter DN(mm)	15	20	25	32	40	50	65
1.6	d	10	12.7	19.1	24	31.8	38.1	50.8
2.5								
4								
6.4								
10								
1.6	L	130	150	160	180	200	250	265
2.5								
4.0								
6.4		170	190	210	230	240	250	280
10.0								
1.6	H(开启open)	162	162	211	238	257	282	357
2.5								
4.0								
6.4								
10.0								
1.6	W	100	100	125	125	160	180	200
2.5								
4.0								
6.4								
10.0								
1.6	WT(kg)	2.8	3.2	4.9	5.6	9.8	12.8	23.0
2.5		3.0	3.5	5.5	6.8	10.4	14.4	24.5
4.0		3.6	4.9	7.0	9.4	13.3	18.2	26.2
6.4		3.8	5.3	7.9	10.0	13.8	18.6	27.7
10.0		4.2	5.8	8.8	12.1	15.6	19.5	32.0

Description: nominal pressure PN>6.4MPa, ring seal (RJ) according to JB77-59.

Flat Gate Valve

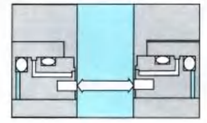
Product features

1. The valve body has two kinds of structure, casting and welding.
2. The valve seat adopts a O type seal ring and a floating seat structure with pre tightening force to make the valve inlet and outlet two-way seal. And the opening and closing moment of the structure is only 1/2 of ordinary valves, which can easily open and close valves.
3. The seat is inlald with PTFE on the seal'ing surface. It has PTFE double seal for metal and metal to metal, and the function of cleaning gate and dlrt at the same time by PTFE sealing surface.
4. Metal to metal seal valve. External body structure with injection oil, grease through the grease, grabbed the valve seat into the valve sealing surface of the valve to zero leakage.
5. The gate valve with diversion hole, either fully open or fully closed always coincide with the sealing surface, sealing surface to be protected from direct scouring med lum, thus prolonging the service life.
6. When the valve is in full opening, the channel is smooth and straight line, the flow resistance coefficient is very small and the pressure loss is free, and the pipe can be swept through the hair ball.
7. The packing structure with the ability of self sealing, without frequent adjustment, opening and closing very lightweight, and reliable seal, the stuffing box is arranged at the auxiliary seal oil into the structure, absolutely reliable sealing performance, thereby achieving zero leakage; solve the shortcomings of the general valve packing leakage of the most vulnerable.
8. When the valve is closed, it can automatically unload the high pressure of the inner cavity (see the working principle diagram detailed) so as to ensure the safety of the use.
9. All closed structure, good protection performance, can adapt to all weather requirements
10. The valve has a indicator or an observation window to indicate the opening and closing of the valve.

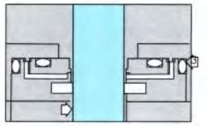
Performance specifcation

Pressure grade (Mpa)		Normal temperature test pressure(MPa)				Applicable temperature	Applicable medium	
		Shell test	Left seal	Right seal	Low pressure gas seal		Common type	Sulfur resistant type
Nominal pressure PN(Mpa)	1.6	2.4	1.76	1.76	0.6	-29-121℃ Or as requested by the user	Non corrosive media such as oil, natural gas, water,etc	Corrosive medium of oil, natural gas and water containing H_2S and CO_2
	2.5	3.75	2.75	2.75	0.6			
	4	6	4.4	4.4	0.6			
	6.4	9.6	7.04	7.04	0.6			
	10	15	11	11	0.6			
	16	24	17.6	17.6	0.6			
	25	37.5	27.5	27.5	0.6			
	42	63	46.2	46.2	0.6			
Pound scale (Lb)	150	3	2.2	2.2	0.6			
	300	7.5	5.5	5.5	0.6			
	400	9.6	7.04		0.6			
	600	15	11	11	0.6			
	900	22.5	17.5	17.5	0.6			
	1500	37.5	27.5	27.5	0.6			
	2500	63	46.2	46.2	0.6			

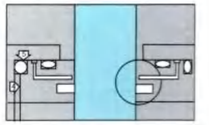
Working principle



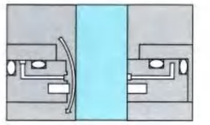
1,when the pressure inside the valve is equal to(1),the gate is in the closed state, and the PTFE seal nng on the seat surface forms the initlal seal.When the valve opens or closes, the valve seat rirg can clean both sides of the gate (as shown n Figurel)



2,the valve applied pipe pressure (2), the pressure acting on the gate. forcing it to expore PTFE nng on the valve Seaf,compreing it until the disc stop instee se at,so they form a double Seal, the first the PTFE on the metal Seal and then the metal to metal seal seaf was also firmly push into the groove, at this point.O ring to prevent any medium flow (for exarnple. figure 2)



3, after the pressure relief valve cavity, color into import rice, pipeline pressure acting on the import valve seat (4), make its move to ram, then form a PTFE to metal seal, at the same time, the o-rings (5) and seat groove form a tight seal. (ar exarnple. figure 3)



4,the valve automatically relieved the excess pressure.When the pressure of the valve cavity is large and the pressure of the dry pipe is heated. the inlet is closed to the groove due to thermaf expansion, and the excess pressure inside the valve cavity is released into the pipeline between the valve seat and the ram (for example. figure 4)

Flat Gate Valve

Product features

The flat gate valve is suitable for natural gas, petroleum, chemical industry. environmental protection, city pipeline, gas pipeline, transportation pipeline, vent system and steam storage device. It is used as hoist equipment. It is suitable for long distance pipeline of natural gas mining and purification.

1, The sealing structure of the seat should be a structure with elastic pretension and seal seat at the upper and lower reaches. The seat and seal are always face to face seal.

2, The seat has self cleaning function, and it is not directly scoured by air flow during the opening or closing of the valve. The seat should be made of lubricated and non-worn material.

3, The valve actuator failure will not affect the other parts of the valve, maintenance and replacement work can be carried out without the dismantling of the valve.

Performance standard

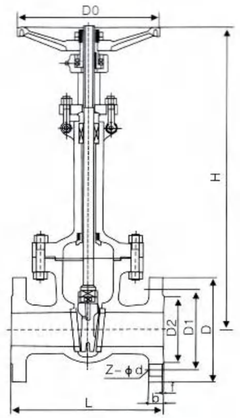
Design and manufacturing	Face to face dimension	Connecting flange	Inspection and test	Pressure temperature	Product identification	Supply specification
JB/T 5298	JB/T 5298	JB/T 79	JB/T 5298	GB9131	GB/T 12220	JB/T 7928
API 6D	API 6D	ANSI B16.5	AP16D	ANSI B16.34	Mss sp-25	AP16D

Materials of main parts

Part name	Material			
	JB/T 7298		API 6D	
Valve/Bonnet	WCB	WCB	A352-LCB	A352-CF8M
Plate	2Cr13+ENP	20CrMoV+STL	ANS1410+ENP	ANS1316+ENP
Stem	2Cr13	2Cr13	A182-F6a	A182-F316S
Seat	25+PTEF	20CrMoV+STL	A105+PTFE	A182-F316+PTFE
Packing	NBR/FPM	Flexible graphite		PTFE
Shim	18-8/Flexible graphite			
Bolt	35	35CrMo	3A193-B7M	A193-B8
Applicable temperature	-29~250℃	-29~550℃	-46~350℃	-40~200℃
Applicabele medium	Water,oil,steam	Water,oil,steam	Propane and ethylene	Nitric acid

DZ40/DZ41H/Y/W

Low-temperature Gate Valve



Productfeatures

Full size, rod bracket
Middle flange bolt connection
Band oriented flexible gate
Improved structure of american standard
Extended heat preservation neck
Bevel gear selection
Standard flange connection

Use temperature

LCB Low temperature carbon steel	-45~400℃
316 Stainless steel material	-196~400℃
304 Stainless steel material	-100~350℃
316L Stainless steel material	-250~200℃

Performance standard

Design specification	Face to face dimension	Flange connection	Test and inspection	Pressure temperature	Product identification	Supply specification
JB/T7749	JB/T12221	JB/T79	JB/T9092	GB9131	GB/T12220	JB/T7928

Main shape size and connection size

Size: mm

Nominal Diameter DN(mm)	L	D	D1	D2	b	Z-Φd	H	D0
PN1.6MPa								
20	150	105	75	55	14	4-14	320	140
25	160	115	85	65	14	4-14	350	160
32	180	135	100	78	16	4-18	380	180
40	200	145	110	85	16	4-18	420	200
50	250	160	125	100	16	4-18	540	240
65	270	180	145	120	18	4-18	610	240
80	280	195	160	135	20	8-18	690	280
100	300	215	180	155	20	8-18	780	300
125	325	245	210	185	22	8-18	930	320
150	350	280	240	210	24	8-23	980	360
200	400	335	295	265	26	12-23	1180	400
250	450	405	355	320	30	12-25	1390	450
300	500	460	410	375	30	12-25	1620	560
350	550	520	470	425	34	16-25	1810	640
400	600	580	525	485	36	16-30	1970	640

Flexible Seat Seal Gate Valve

Product overview

The elastic seat seal valve adopts the special rubber full package elastic valve core structure, and there is no leakage or rusting compared with the general gate valve. They have overcome the defects such as poor sealing. elastic fatigue, rubber aging, and wear and rust of sealing pairs. A good sealing effect is achieved by making full use of the compensation effect Of the elastic seal to produce micro deformation. It can be widely used in water supply, petrochemical, metallurgical, ship, food, medicine and energy systems as regulation and interception devices.

Product features

1, The overall package of plastic: the spool and the latest high-performance rubber vulcanization technology overall coating, laminating are tight, accurate geometry, reliable sealing and long service life.

2, Light weight: boay ductile iron material, gate valve to reduce weight than the average 25%, easy installation and maintenance; gate valve maximum opening height is generally low 60mm~280mm, can be installed where space is limited.

3, Flat style seat: The bottom of the pipe the same flat style seat design, does not produce debris accumulation, flow channel unimpeded and reliable sealing.

4, Corrosion resistance: the valve cavity using non-toxic epoxy powder coating, inner parts mining copper alloy and stainless steel to prevent corrosion and rust, not only can be usea for drinking water, food and other systems, and can be used for sewage or underg round systems the.

5, The three "O" seal: the use of the stem seal O-ring seals, friction is small, lightweight and watertight switch.

Performance standard

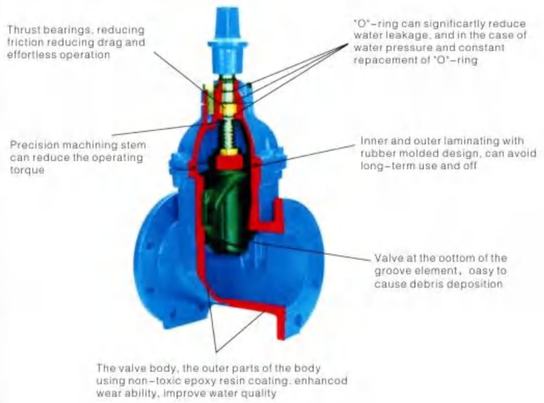
Design and manufacturing	GB/T12232-2005
Connecting flange	JB/T78-1994、JB/T79.1-1994
Face to face dimension	GB/T12221-2005
Inspection and test	JB/T9092-1999

Performance specifcation

PN(MPa)	Strength Test	Seal test	Temperature Working	Applicable Medium
1.0	1.5	1.1	≤80℃	Water,Source Water,Sewage, Air,Oil
1.6	2.4	1.8		
2.5	3.8	2.8		

Materials of main parts

Name	Material
Body	Spheroidal Graphite Cast Iron
Disc	Nodular cast iron with EPDM
Copper Nut	Bronze
Valve Stem	2Cr13
Fixed Bolt	Steel or galvanized bolt
Bonnet	NBR.
O-ring	Bronze
Block Bearing	Sealing Ring NBR
Shaft Cover	Spheroidal Graphite Cast Iron
O-ring	NBR
Handwheel	Cast Iron
Nut	Stainless Steel
Bolt	Steel or galvanized bolt
Copper Nut	Bronze
Block Bearing	Bronze
Bolt	Galvanized bolt
Deflation Nut	Brass



API Globe Valve

Product overview

I produced the American Standard cut-off valve, fully in accordance with the American Standard Design and manufacture, beautiful structure, advanced. The valve is the valve opening and closing parts for low flow, high import valve, fully open and fully closed valve to operate the valve, the valve cone can be well into the throttling effect, can play the role of regulating. It is mainly used in pipelines of various working conditions such as oil, chemical, pharmaceutical, chemical fertilizer, electric power industry and so on to cut off or connect the medium of pipeline. The driving modes are manual, gear transmission, electric and pneumatic.

Performance standard

Design and manufacturing	Face to face dimension	Flange size	Welding connection size	Pressure temperature	Test ~ test
ANSI B16.34、BS1873	ANSI B16.10	ANSI B16.5	ANSI B16.25	ANSI16.34	API508

Performance specif cation

Work stress(Lb)	Strength test		Water seal test		Air seal test	
	MPa	Lbf/in²	MPa	Lbf/in²	MPa	Lbf/in²
150	3.1	450	2.2	315	0.5~0.7	60~100
300	7.8	1125	5.6	815		
600	15.3	2225	11.2	1630		
900	23.1	3350	16.8	2440		
1500	38.4	5575	28.1	4080		
2500	64.6	9367	47.4	6873		

Materials of main parts

Valve,Bonnet,Disc	Stem	Sealing surface	Gasket(ring)	Packing	Working temperature (℃)	Applicable medium
WCB	2Cr13	13Cr STL Bulk material PTFE Nylon	Enhanced flexible graphite 13Cr/flexible graphite SFB-2 08 Mild steel F304 F316 F304L F316L	Flexible graphite Enhanced flexible graphite SFB1260 SFP1260 PTFE	≤425	Water,steam,oil
WC1	38CrMoA1 25Cr2Mov				≤450	
WC6					≤540	
WC9					≤570	
C5 C12					≤540	
CF8	F304				≤600	Nitric acid, acetic acid,urea
CF3	F316					
CF8M	F304L					
CF3M	F316L					