

Neles Easyflow™ gate valve, series GA

Neles Easyflow GA series cast gate valves are offered by default with flexible gate, renewable seat, rising stem and non-rising hand wheel. It plays the role of pipe opening and closing ultimately through the rotation of the hand wheel to drive the lifting of gate.

Bolted bonnet, pressure bonnet, bellow seal bonnet, high/low temperature extended bonnet and ISO 15848 fugitive emission designed valves are available upon different request of services. Forged body can also be provided upon special request.



Design of disc

Cast steel gate valve are made with flexible wedge by default, solid wedge will be provided only upon request.

Design of seat

Renewable seat and non-renewable seat are optional, the default for WCB body is seal welded seat, and body overlay seat against other valve body material.

Design of body - bonnet connection

Bolted bonnet is normally applied on CL150~CL900, body seal is defaulted by gasket and RTJ ring. Pressure seal bonnet is applied on CL1500~CL2500 with pressure seal ring for body seal.

Design of packing

By default graphite packing is used, PTFE packing can be used on corrosive media. API 622 fugitive emission packing will be used upon request.

Design of backseat

Renewable back seat is applied on all carbon steel and low alloy steel valve, however, body back seat is only applied for stainless steel valve.

Design of actuation

Hand wheel and gear box are normally designed for cast gate valve based on different size and pressure rating; Electric, pneumatic or Chain wheel operation can be provided upon request.

Scope of products

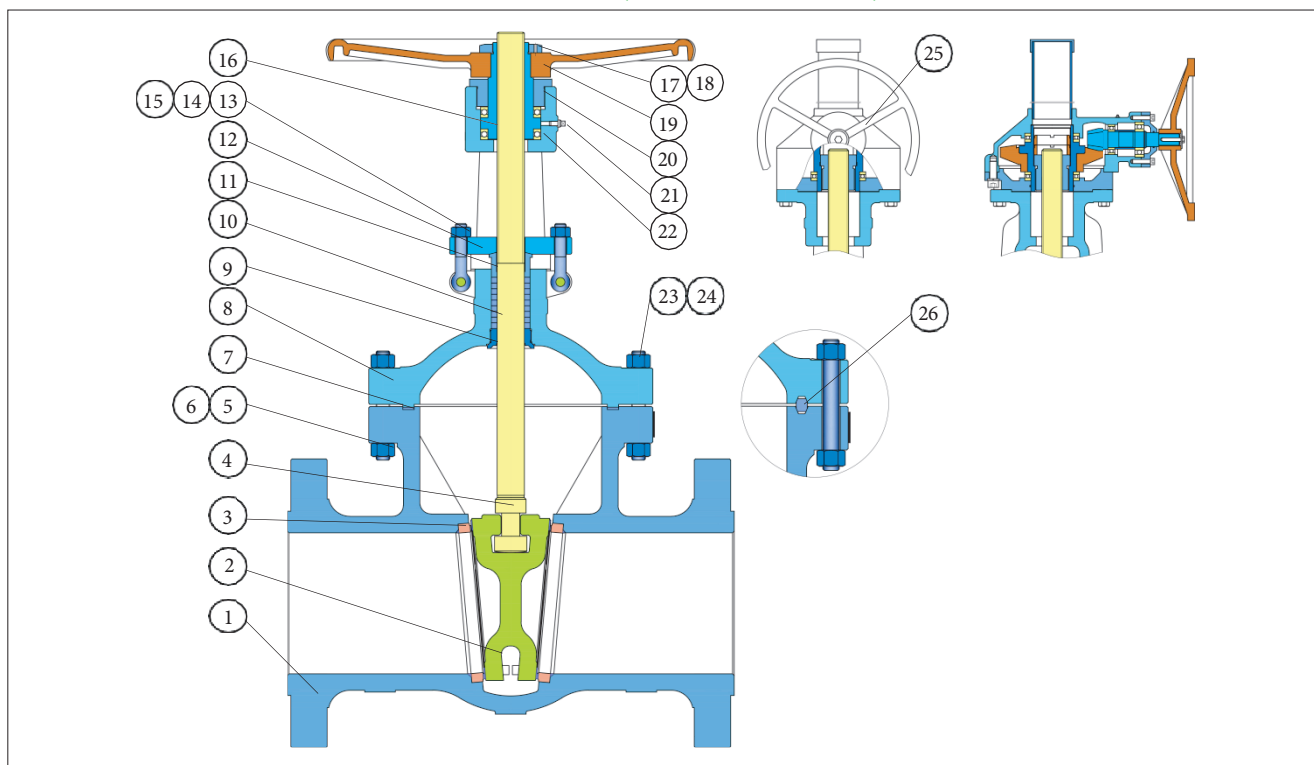
Legends:
A – Available in bolt bonnet

B – Available in pressure seal bonnet

Size in/mm	Class 150 PN 20	Class 300 PN 50	Class 600 PN 100	Class 900 PN 150	Class 1500 PN 250	Class 2500 PN 420
2 50	A	A	A	A, B	A, B	A, B
2 1/2 65	A	A	A	A, B	A, B	A, B
3 80	A	A	A	A, B	A, B	A, B
4 100	A	A	A	A, B	A, B	A, B
6 150	A	A	A	A, B	A, B	A, B
8 200	A	A	A	A, B	A, B	A, B
10 250	A	A	A	A, B	A, B	A, B
12 300	A	A	A	A, B	A, B	A, B
14 350	A	A	A	A, B	A, B	
16 400	A	A	A	A, B	A, B	
18 450	A	A	A	A, B	A, B	
20 500	A	A	A	A, B	A, B	
22 550	A	A	A	A, B	A, B	
24 600	A	A	A	A, B	A, B	
26 650	A	A	A	A, B	A, B	
28 700	A	A	A	A, B	A, B	
30 750	A	A	A	A, B	A, B	
32 800	A	A	A	A, B		
34 850	A	A	A	A, B		
36 900	A	A	A	A, B		
38 950	A	A	A	A, B		
40 1000	A	A	A	A, B		
42 1050	A	A	A	A, B		
48 1200	A	A	A	A, B		

1. The sizes listed above are normal diameters. Contact our sales representative if any other dimensions are requested.

Overview (Bolted bonnet)



Part list

1	Body	14	Nut
2	Wedge	15	Pin
3	Seat	16	Stem nut
4	Stem	17	Handwheel nut
5	Stud	18	Screw
6	Nut	19	Handwheel
7	Gasket	20	Bearing nut
8	Bonnet	21	Lubricating nipple
9	Backseat	22	Bearing
10	Packing	23	Stud
11	Gland	24	Nut
12	Gland flange	25	Gear
13	Eye bolt	26	Octagonal ring

Standards

Design & manufacture

API 600, ASME B16.34,
MSS SP-144

Face-to-face

ASME B16.10

End dimension

ASME B16.5 (RF, RTJ),
ASME B16.47 (RF, RTJ)
ASME B16.25 (BW)

Test & inspection

API 598

Typical materials

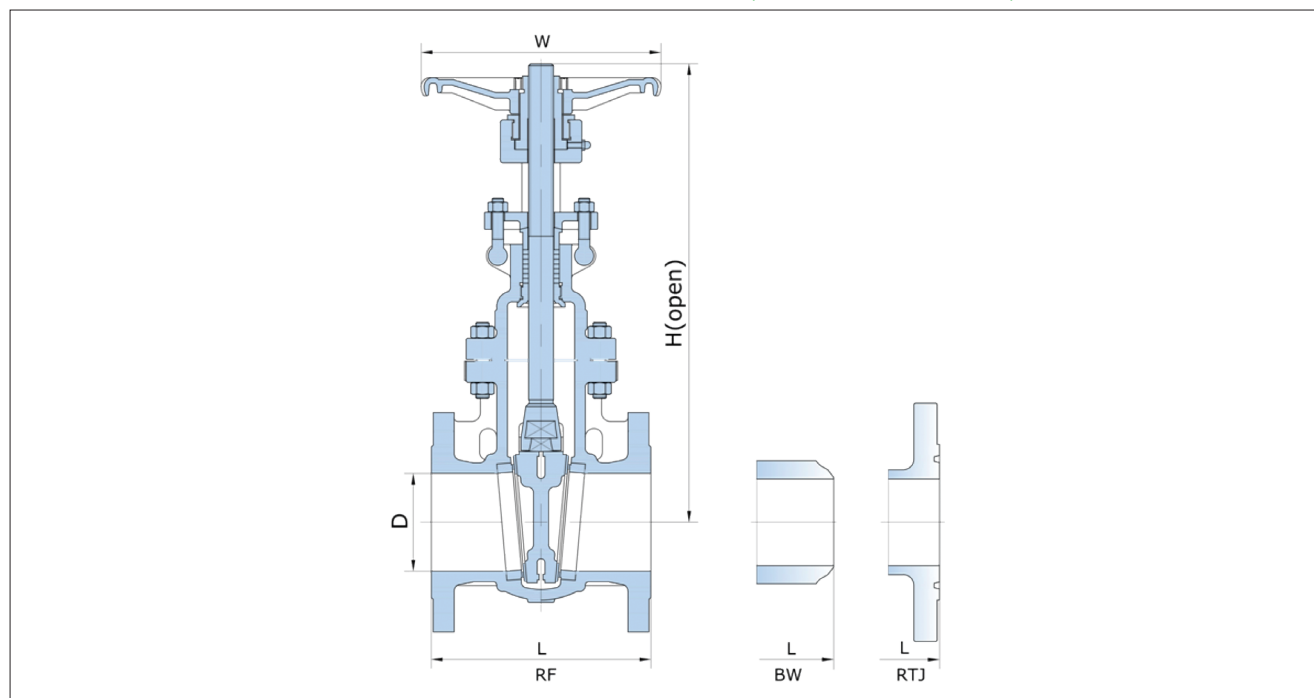
Body, bonnet, disc

(Casting): A216 WCB, A351
CF3, CF8, CF3M, CF8M,
A995 4A, 5A, A352 LCB, LCC,
LC2(Forging): A105, A350 LF2,
LF3, LF5, A182 F304, F304L,
F316, F316L, F51, F53, F5,
F11, F22, F91, Monel, Inconel,
Hastelloy

Stem

A182 F6a, F304, F304L, F316,
F316L, F51, F53, F55 Monel,
Inconel, Hastelloy

Dimensions and weights (Bolted bonnet)



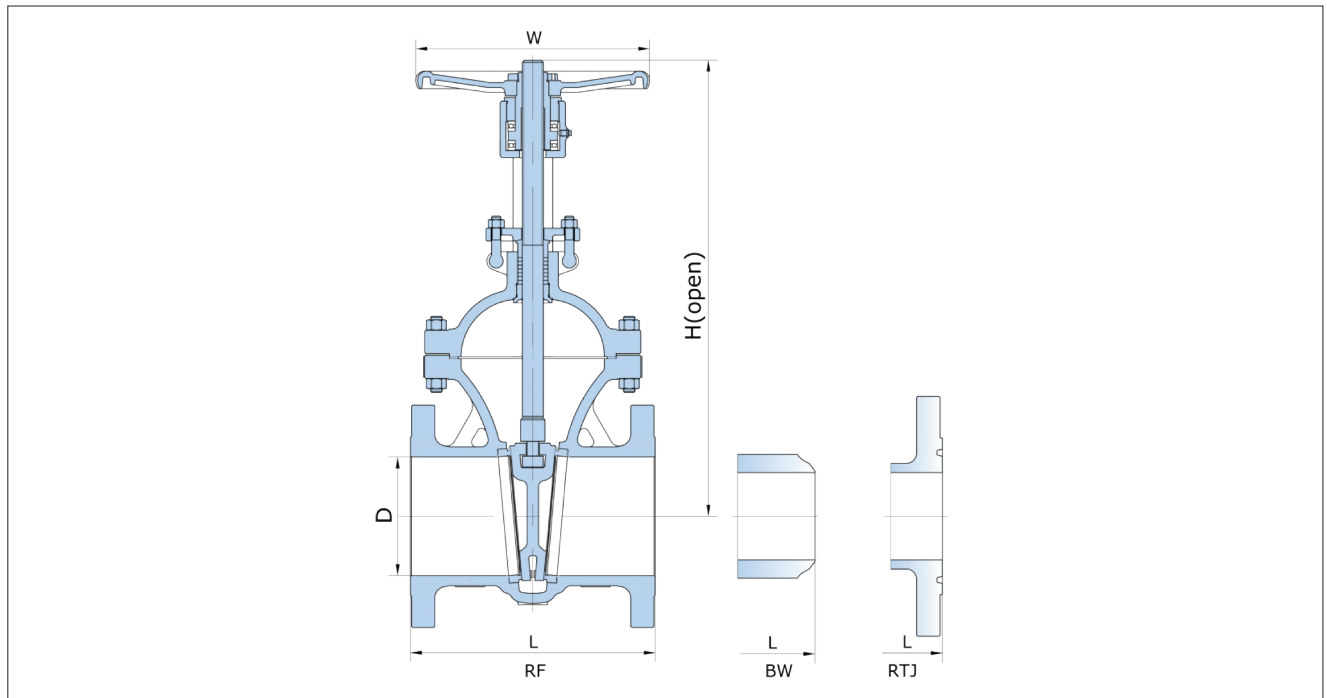
ASME CLASS 150 (PN 20)

Size in/mm	D	L			H	W	Weight
		RF	RTJ	BW			RF/BW (lb/kg)
2	2	7	7.5	8.5	15.87	7.87	40/33
50	51	178	191	216	403	200	18/15
2 ½	2.5	7.5	8	9.5	18.9	7.87	55/40
65	64	190	203	241	480	200	25/18
3	3	8	8.5	11.12	20.12	9.84	70/57
80	76	203	216	283	511	250	32/26
4	4	9	9.5	12	23.7	11	110/90
100	100	229	242	305	602	280	50/41
5	5	10	10.5	15	30.91	11.81	143/130
125	125	254	267	381	785	300	65/59
6	6	10.5	11	15.88	34.84	11.81	170/152
150	150	267	280	403	885	300	77/69
8	8	11.5	12	16.5	38.5	13.78	267/238
200	203	292	305	419	978	350	121/108
10	10	13	13.5	18	46.93	15.75	392/344
250	250	330	343	457	1192	400	178/156
12	12	14	14.5	19.75	55	17.72	584/546
300	305	356	369	502	1397	450	265/248
14	14	15	15.5	22.5	62.32	19.69	800/727
350	337	381	394	572	1583	500	363/330
16	15.24	16	16.5	24	67.76	23.62	1020/934
400	387	406	419	610	1721	600	463/424
18	17.24	17	17.5	26	76.77	26.77	1368/1293
450	438	432	445	660	1950	680	621/587
20	19.25	18	18.5	28	85.35	28.35	1744/1656
500	489	457	470	711	2168	720	792/752
22	21.26	20	20.5	30	92.52	29.53	2313/2093
550	540	508	521	762	2350	750	1050/950
24	23.27	20	20.5	32	105	29.53	2621/2520
600	591	508	521	813	2668	750	1190/1144
26	25.24	22	-	34	-	-	3350/3458
650	641	559	-	864	-	-	1521/1570
28	27.24	24	-	36	-	-	4048/4185
700	692	610	-	914	-	-	1838/1900
30	29.25	24	-	36	-	-	24980/6608
750	743	610	-	914	-	-	261/3000

The dimension and weights are for reference only and subject to change without notice.

- For more dimensional information, please contact our sales representative.
- “W” on above schematic is the diameter for hand wheel, the one without dimension on the table above is defaulted by gear operation.

Dimensions and weights (Bolted bonnet)



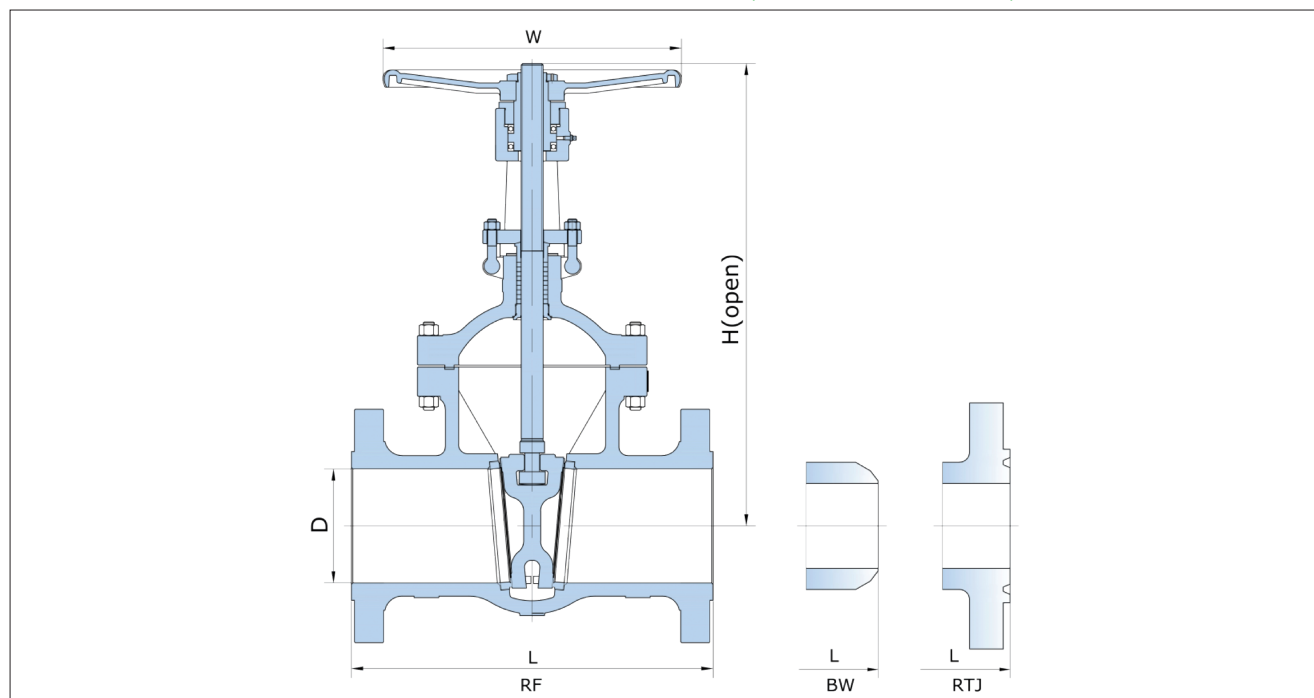
ASME CLASS 300 (PN 50)

Size in/mm	D	L			H	W	Weight
		RF	RTJ	BW			RF/BW (lb/kg)
2	2	8.5	9.13	8.5	17.05	7.87	51/37
50	51	216	232	216	433	200	23/17
2 ½	2.5	9.5	10.12	9.5	18.54	7.87	77/57
65	64	241	257	241	471	200	35/26
3	3	11.1	11.73	11.1	21.06	9.84	110/86
80	76	282	298	282	535	250	50/39
4	4	12	12.64	12	24.7	11	156/117
100	100	305	321	305	627	280	71/53
5	5	15	15.63	15	28.15	11.81	256/200
125	125	381	397	381	715	300	116/91
6	6	15.87	16.5	15.87	32.44	13.78	317/249
150	150	403	419	403	824	350	144/113
8	8	16.5	17.13	16.5	39.53	15.75	460/361
200	203	419	435	419	1004	400	209/164
10	10	18	18.62	18	49.61	17.72	709/564
250	250	457	473	457	1260	450	322/256
12	12	19.76	20.39	19.76	58.27	19.7	1062/859
300	305	502	518	502	1480	500	482/390
14	14	30	30.63	30	63.19	-	1504/1244
350	337	762	778	762	1605	-	683/565
16	15.24	33	33.62	33	71.06	-	2093/1773
400	387	838	854	838	1805	-	950/805
18	17	36	36.61	36	78.54	-	2522/2126
450	432	914	930	914	1995	-	1145/965
20	19	39	39.76	39	94.69	-	3601/3106
500	483	991	1010	991	2405	-	1635/1410
22	21.8	43	43.86	43	100.4	-	5176/4626
550	553	1092	1114	1092	2550	-	2350/2100
24	23	45	45.87	45	104.33	-	5859/5077
600	584	1143	1165	1143	2650	-	2660/2305
26	25	49	50	49	116.14	-	6806/5595
650	635	1245	1270	1245	2950	-	3090/2540
28	27	53	54	53	122.05	-	7291/6002
700	686	1346	1371	1346	3100	-	3310/2725
30	29	55	56	55	126	-	7919/6729
750	736	1397	1422	1397	3200	-	3595/3055

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- "W" on above schematic is the diameter for hand wheel, the one without dimension on the table above is defaulted by gear operation.

Dimensions and weights (Bolted bonnet)



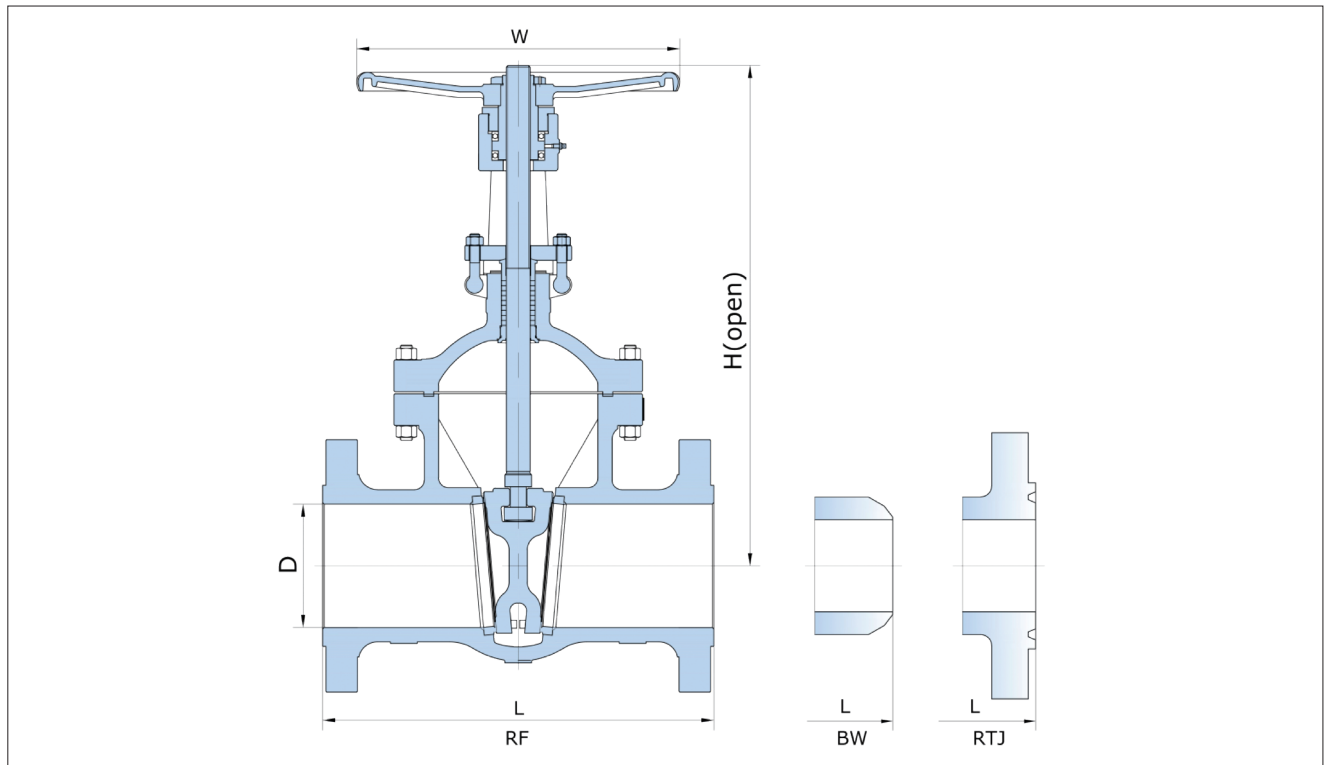
ASME CLASS 600 (PN 100)

Size in/mm	D	L			H	W	Weight
		RF	RTJ	BW			RF/BW (lb/kg)
2	2	11.5	11.63	11.5	16.5	441	79/64
50	51	292	295	292	418	200	36/29
2 ½	2.5	13	13.13	13	18.75	551	115/93
65	64	330	333	330	476	250	52/42
3	3	14	14.13	14	20.38	617	148/117
80	76	356	359	356	518	280	67/53
4	4	17	17.13	17	25.5	661	247/183
100	100	432	435	432	646	300	112/83
5	5	20	20.12	20	29.5	881	330/267
125	125	508	511	508	750	400	150/121
6	6	22	22.13	22	33	991	374/275
150	150	559	562	559	840	450	170/125
8	7.87	26	26.13	26	40.38	1100	866/683
200	200	660	663	660	1025	500	393/310
10	9.76	31	31.13	31	48.38	23.62	1344/1040
250	248	787	790	787	1230	600	610/472
12	11.73	33	33.13	33	57	23.62	1960/1608
300	298	838	841	835	1450	600	890/730
14	12.87	35	35.12	35	62	-	2742/2324
350	327	889	891	889	1575	-	1245/1055
16	14.76	39	39.13	39	70.62	-	3370/2731
400	375	991	994	991	1795	-	1530/1240
18	16.5	43	43.13	430	76	-	4317/2786
450	419	1092	1095	1092	1930	-	1960/1625
20	18.27	47	47.25	47	87	-	5396/4471
500	464	1194	1200	1194	2210	-	2450/2030
22	20.12	51	51.38	51	97.24	-	6123/4956
550	511	1295	1305	1295	2470	-	2780/2250
24	22	55	55.38	55	101.5	-	6597/5705
600	559	1397	1407	1397	2580	-	2995/2590
26	23.74	57	57.5	57	105	-	7654/6289
650	603	1448	1461	1448	2665	-	3475/2855
28	25.51	61	61.5	61	109.5	-	8205/6751
700	648	1549	1562	1594	2780	-	3725/3065
30	27.36	65	65.5	65	114	-	8910/7489
750	695	1651	1664	1651	2895	-	4045/3400

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- "W" on above schematic is the diameter for hand wheel, the one without dimension on the table above is defaulted by gear operation.

Dimensions and weights (Bolt bonnet)



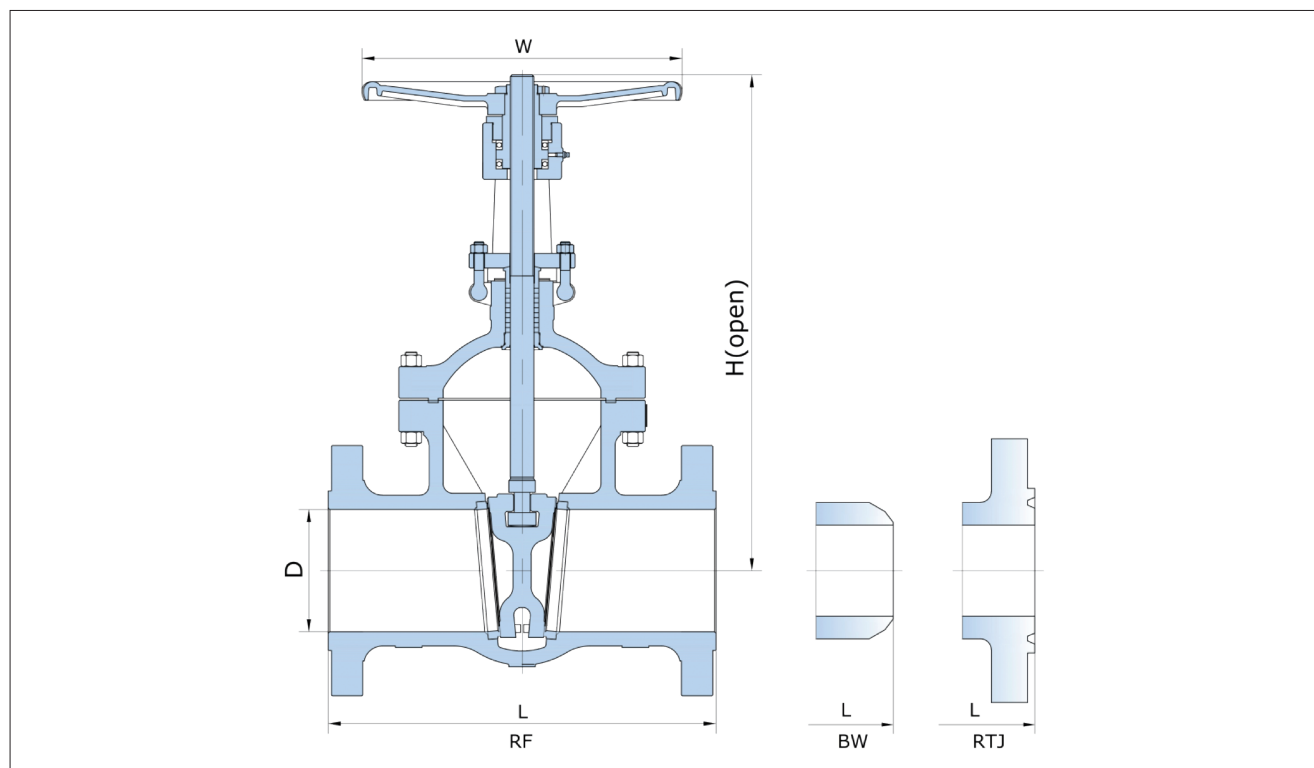
ASME CLASS 900 (PN 150)

Size in/mm	D	L			H	W	Weight
		RF	RTJ	BW			RF/BW (lb/kg)
2	1.87	14.5	14.63	14.5	19.62	7.87	163/119
50	47.5	368	371	368	498	200	74/54
2 ½	2.24	16.5	16.62	16.5	21.5	9.84	222/172
65	57	419	422	419	547	250	101/78
3	2.87	15	15.13	15	22.5	11.81	289/231
80	73	381	384	381	573	300	131/105
4	3.86	18	18.13	18	26.62	17.72	379/297
100	98	457	460	457	678	450	172/135
5	4.76	22	22.13	22	35.5	19.7	615/463
125	121	559	562	559	900	500	276/210
6	5.75	24	24.13	24	38.2	19.7	378/573
150	146	610	613	610	970	500	335/260
8	7.48	29	29.13	29	43.5	23.62	1410/1134
200	190	737	740	737	1103	600	640/515
10	9.37	33	33.13	33	53	-	2423/2026
250	238	838	841	838	1345	-	1100/920
12	11.1	38	38.13	38	60	-	3546/3040
300	282	965	968	965	1525	-	1600/1380
14	12.24	40.5	40.88	40.5	74.5	-	4956/4427
350	311	1029	1039	1029	1900	-	2250/2010
16	14	44.5	44.88	44.5	81	-	6278/5650
400	356	1130	1140	1130	2055	-	2850/2565
18	15.75	48	48.5	48	87	-	6740/5474
450	400	1219	1232	1219	2215	-	3060/2485
20	17.52	52	52.5	52	101	-	8447/7159
500	445	1321	1334	1321	2565	-	3835/3250
24	21	61	61.75	61	104	-	10793/8954
600	533	1549	1568	1549	2640	-	4900/4065

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- "W" on above schematic is the diameter for hand wheel, the one without dimension on the table above is defaulted by gear operation.

Dimensions and weights (Bolted bonnet)



ASME CLASS 1500 (PN 250)

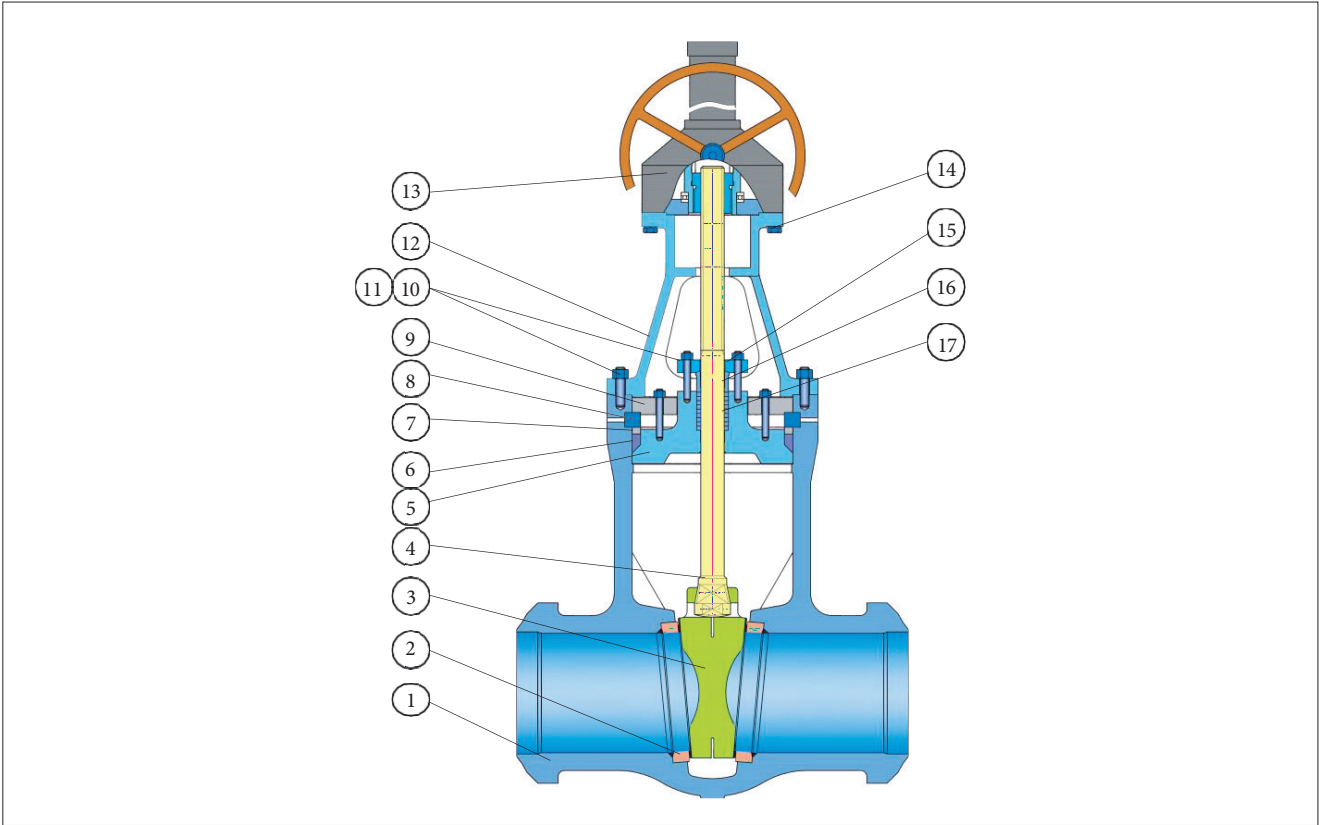
Size in/mm	D	L			H	W	Weight
		RF	RTJ	BW			RF/BW (lb/kg)
2	1.87	14.5	14.61	14.5	24.25	10	256/231
50	47.5	368	371	368	615	250	116/105
2 ½	2.24	16.5	16.61	16.5	26	12	366/330
65	57	419	422	419	658	300	166/150
3	2.76	18.5	18.62	18.5	30	18	460/414
80	70	470	473	470	760	450	209/188
4	3.58	21.5	21.61	21.5	34.12	20	652/584
100	91	546	549	546	868	500	296/265
5	4.73	26.5	26.61	26.5	38.4	24	958/826
125	111	673	676	673	975	600	435/375
6	5.35	27.75	28	27.75	39.5	24	1123/907
150	136	705	711	705	1005	600	510/412
8	7	32.75	33.15	32.75	45	-	2026/1586
200	178	832	842	832	1145	-	920/760
10	8.74	39	39.41	39	54	-	4207/3610
250	222	991	1001	991	1370	-	1910/1640
12	10.35	44.5	45.12	44.5	61	-	6947/6068
300	263	1130	1146	1130	1650	-	3154/2755
14	11.38	49.5	50.24	49.5	74.88	-	9031/7048
350	289	1259	1276	1259	1900	-	4100/3200
16	13	54.5	55.35	54.5	80.5	-	13656/11674
400	330	1384	1406	1384	2050	-	6200/5300
18	14.61	60.5	61.38	60.5	93.75	-	19747/17775
450	371	1537	1559	1537	2350	-	8965/8070
20	16.38	65.5	66.38	65.5	101.5	-	28855/25969
500	416	1664	1686	1664	2580	-	13100/11790
24	19.61	76.5	77.6	76.5	114.75	-	34934/31443
600	498	1943	1971	1943	2915	-	15860/14275

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1. For more dimensional information, please contact our sales representative.

2. "W" on above schematic is the diameter for hand wheel, the one without dimension on the table above is defaulted by gear operation.

Overview (Pressure seal bonnet)



Part list			
1	Body	9	Push plate
2	Seat	10	Stud
3	Wedge	11	Nut
4	Stem	12	Yoke
5	Bonnet	13	Gear
6	Seal ring	14	Bolt
7	Push ring	15	Gland flange
8	Split ring	16	Gland

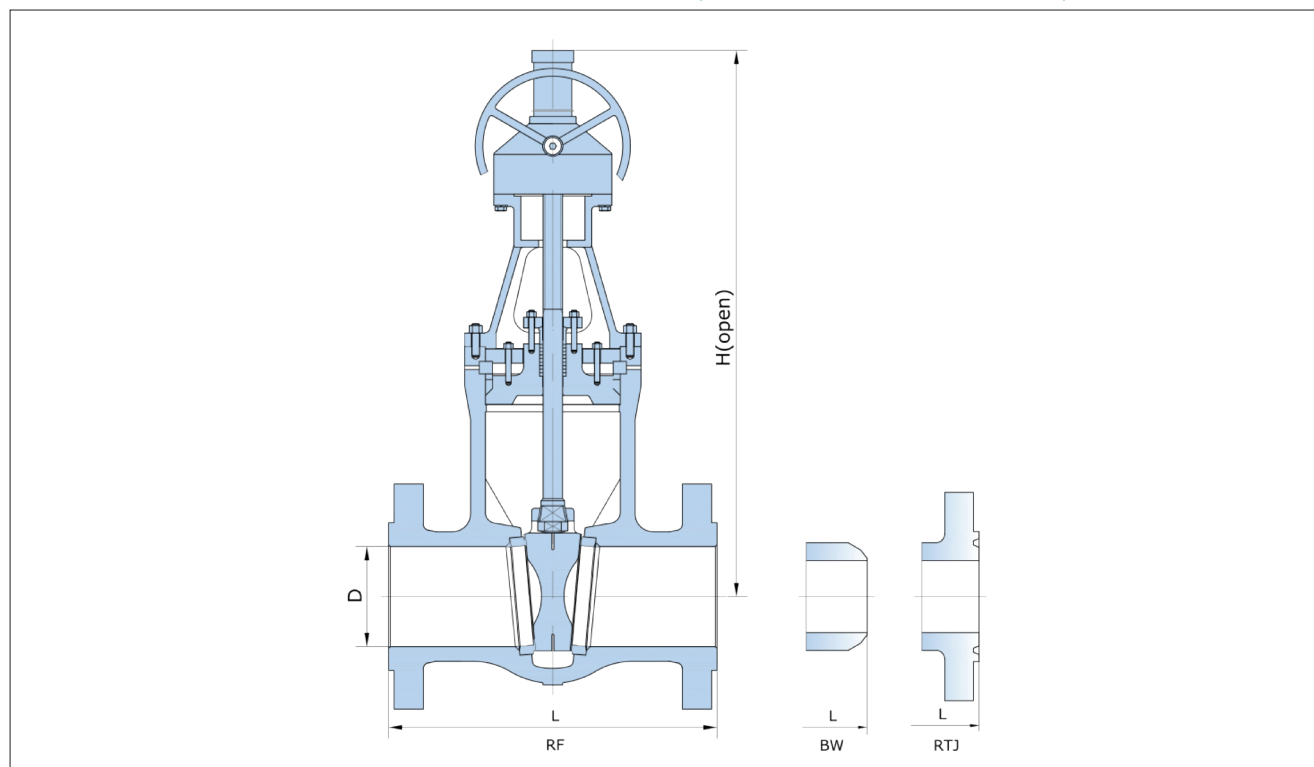
Standards

Design & manufacture	ASME B16.34, MSS SP-144
Face-to-face	ASME B16.10
End dimension	ASME B16.5(RF, RTJ) ASME B16.47(RF, RTJ) ASME B16.25 (BW)
Test & inspection	API 598, ASME B16.34

Typical materials

Body, bonnet, disc	(Casting) A216 WCB, A351 CF3, CF8, CF3M, CF8M, A995 4A, 5A, A352 LCB, LCC, LC (Forging) A105, A350 LF2, LF3, LF5, A182 F304, F304L, F316, F316L, F51, F53, F5, F11, F22, F91, Monel, Inconel, Hastelloy
Stem	A182 F6a, F304, F304L, F316, F316L, F51, F53, F55 Monel, Inconel, Hastelloy

Dimensions and weights (Pressure seal bonnet)



ASME CLASS 900 (PN 150)

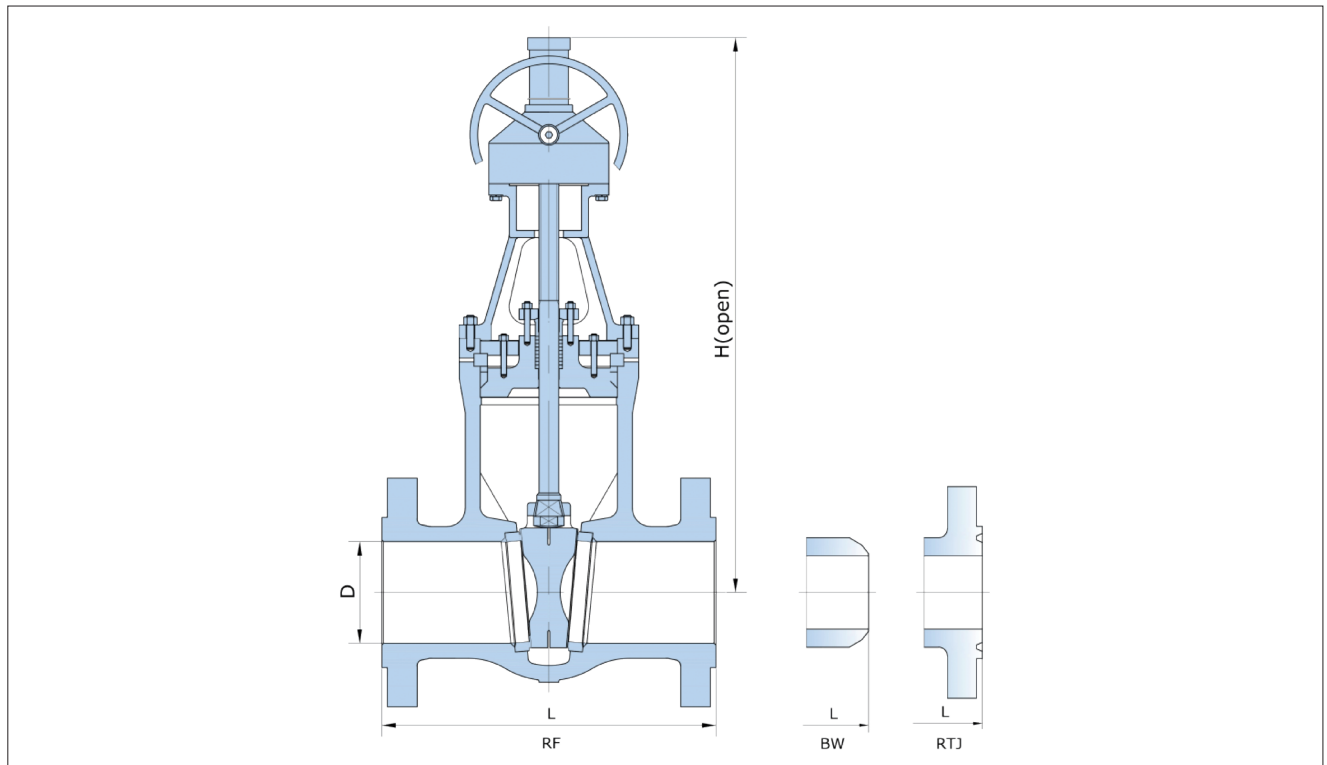
Size in/mm	D	L			H	W	Weight
		RF	RTJ	BW			RF/BW (lb/kg)
2	1.87	14.5	14.63	8.5	19.62	7.87	163/119
50	47.5	368	371	216	498	200	74/54
2 ½	2.24	16.5	16.62	10	21.5	9.84	222/172
65	57	419	422	254	547	250	101/78
3	2.87	15	15.13	12	22.5	11.81	289/231
80	73	381	384	305	573	300	131/105
4	3.86	18	18.13	14	26.62	17.72	379/297
100	98	457	460	356	678	450	172/135
5	4.76	22	22.13	17	35.5	19.7	615/463
125	121	559	562	432	900	500	276/210
6	5.75	24	24.13	20	38.2	19.7	378/573
150	146	610	613	508	970	500	335/260
8	7.48	29	29.13	26	43.5	23.62	1410/1134
200	190	737	740	660	1103	600	640/515
10	9.37	33	33.13	31	53	-	2423/2026
250	238	838	841	787	1345	-	1100/920
12	11.1	38	38.13	36	60	-	3546/3040
300	282	965	968	914	1525	-	1600/1380
14	12.24	40.5	40.88	39	74.5	-	4956/4427
350	311	1029	1038	991	1900	-	2250/2010
16	14	44.5	44.88	43	81	-	6278/5650
400	356	1130	1140	1092	2055	-	2850/2565
18	15.75	48	48.5	-	87	-	6740/5474
450	400	1219	1232	-	2215	-	3060/2485
20	17.52	52	52.5	-	101	-	8447/7159
500	445	1321	1334	-	2565	-	3835/3250
24	21	61	61.75	-	104	-	10793/8954
600	533	1549	1568	-	2640	-	4900/4065

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Dimensions and weights (Pressure seal bonnet)



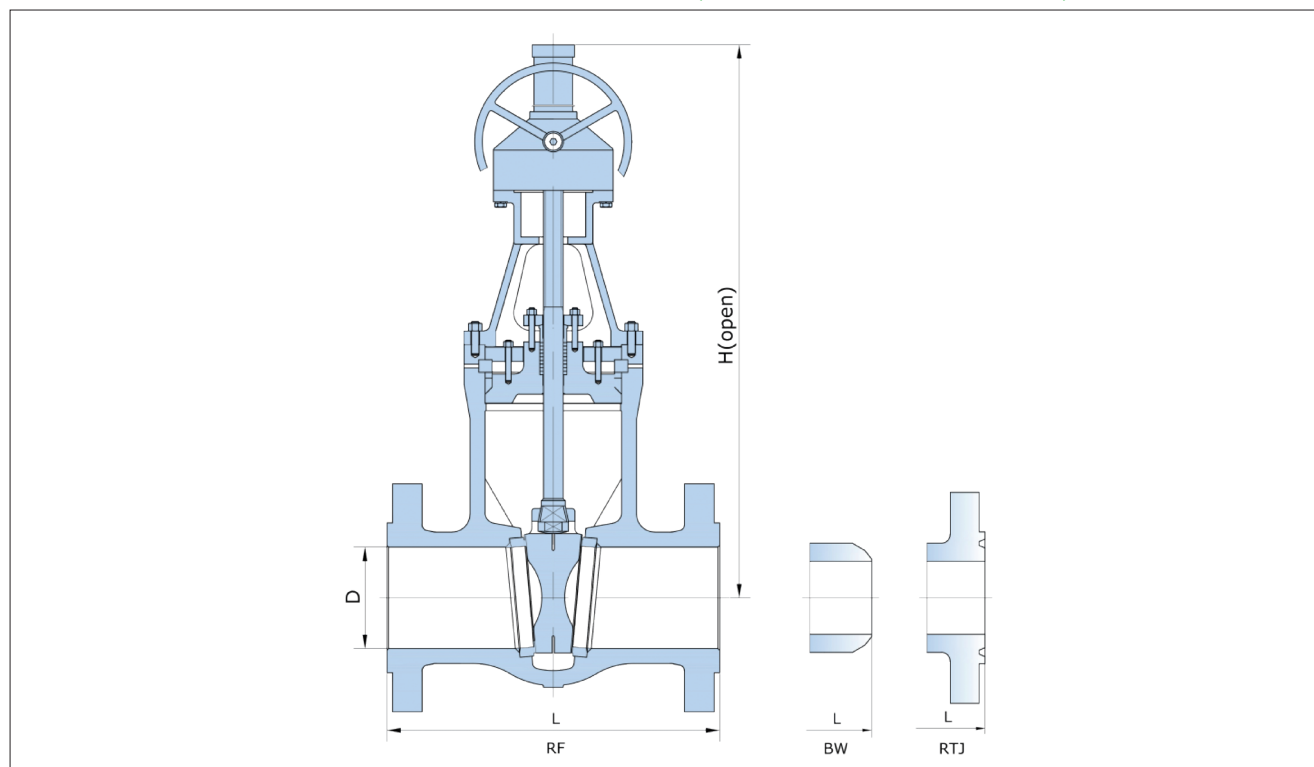
ASME CLASS 1500 (PN 250)

Size in/mm	D	L			H	W	Weight
		RF	RTJ	BW			RF/BW (lb/kg)
2	1.87	14.5	14.61	8.5	24.25	10	256/231
50	47.5	368	371	216	615	250	116/105
2 ½	2.24	16.5	16.61	10	26	12	366/330
65	57	419	422	254	658	300	166/150
3	2.76	18.5	18.62	12	30	18	460/414
80	70	470	473	305	760	450	209/188
4	3.58	21.5	21.61	16	34.12	20	652/584
100	91	546	549	406	868	500	296/265
5	4.73	26.5	26.61	19	38.4	24	958/826
125	111	673	676	483	975	600	435/375
6	5.35	27.75	28	22	39.5	24	1123/907
150	136	705	711	559	1005	600	510/412
8	7	32.75	33.15	28	45	-	2026/1586
200	178	832	842	711	1145	-	920/760
10	8.74	39	39.41	34	54	-	4207/3610
250	222	991	1001	864	1370	-	1910/1640
12	10.35	44.5	45.12	39	61	-	6947/6068
300	263	1130	1146	991	1650	-	3154/2755
14	11.38	49.5	50.24	42	74.88	-	9031/7048
350	289	1259	1276	1067	1900	-	4100/3200
16	13	54.5	55.35	47	80.5	-	13656/11674
400	330	1384	1406	1194	2050	-	6200/5300
18	14.61	60.5	61.38	53	93.75	-	19747/17775
450	371	1537	1559	1346	2350	-	8965/8070
20	16.38	65.5	66.38	58	101.5	-	28855/25969
500	416	1664	1686	1473	2580	-	13100/11790
24	19.61	76.5	77.6	-	114.75	-	34934/31443
600	498	1943	1971	-	2915	-	15860/14275

The dimension and weights are for reference only and subject to change without notice.

- For more dimensional information, please contact our sales representative.
- “W” on above schematic is the diameter for hand wheel, the one without dimension on the table above is defaulted by gear operation.

Dimensions and weights (Pressure seal bonnet)



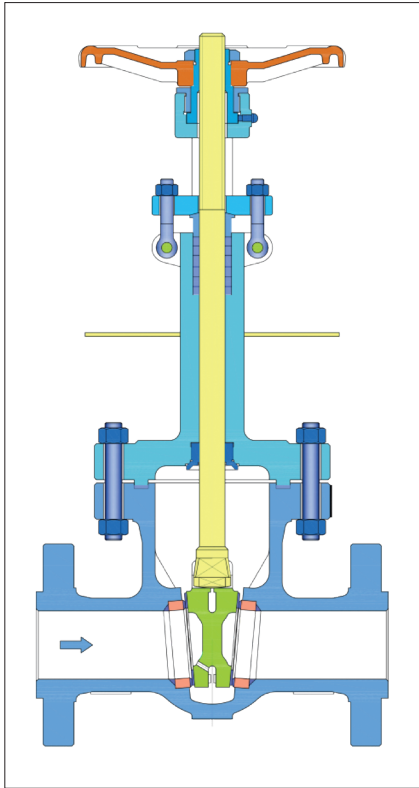
ASME CLASS 2500 (PN 420)

Size in/mm	D	L			H	W	Weight
		RF	RTJ	BW			RF/BW (lb/kg)
2	1.5	17.75	17.88	11	23.38	13.78	253/143
50	38	451	454	279	595	350	115/65
2 ½	1.89	20.32	20.56	13	25.6	17.72	300/172
65	48	508	514	330	650	450	136/78
3	2.24	22.75	23	14.5	28	17.72	540/385
80	57	578	584	368	710	450	245/175
4	2.87	26.5	26.88	18	32.25	19.69	1079/826
100	73	673	683	457	820	500	490/375
5	3.62	31.26	31.77	521	43.3	23.62	1476/974
125	92	794	807	33	1100	600	670/430
6	4.37	36	36.5	24	49.62	23.62	1894/1278
150	111	914	927	610	1260	600	860/580
8	5.75	40.25	40.88	30	63.4	-	5396/4405
200	146	1022	1038	762	1610	-	2450/2010
10	7.27	50	50.88	36	81.7	-	10066/8370
250	184	1270	1292	914	2076	-	4570/3800
12	8.62	56	56.88	41	89.8	-	13436/11454
300	219	1422	1444	1041	2281	-	6100/5200
14	9.49	-	-	44	74.88	-	-
350	241	-	-	1118	1900	-	-
16	10.87	-	-	49	80.5	-	-
400	276	-	-	1245	2050	-	-
18	12.24	-	-	55	93.75	-	-
450	311	-	-	1397	2350	-	-

The dimension and weights are for reference only and subject to change without notice.

- For more dimensional information, please contact our sales representative.
- "W" on above schematic is the diameter for hand wheel, the one without dimension on the table above is defaulted by gear operation.

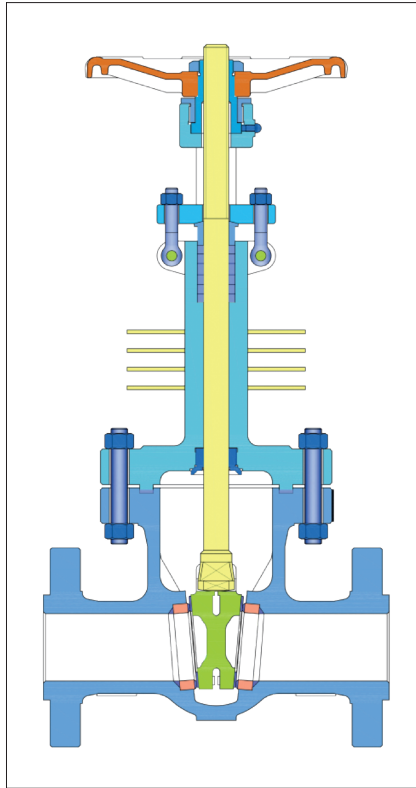
Overview (Special type cast steel gate valve)



Low temperature extension

Structure characteristics:

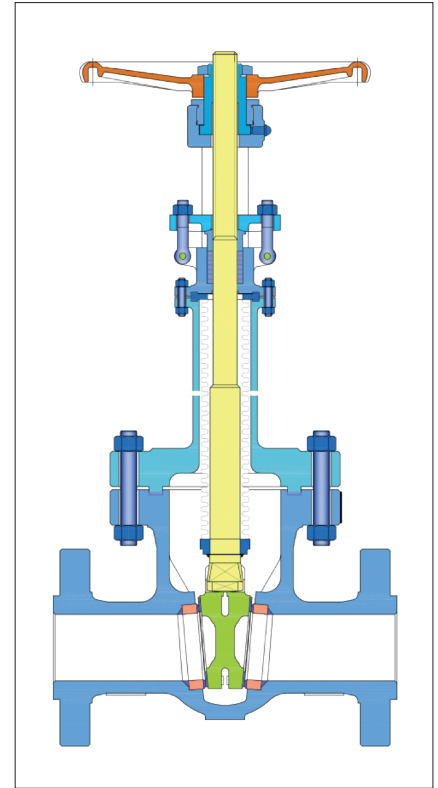
1. The bonnet are extended for low temperature service, the packing position are raised to avoid the freeze of packing which will affect packing sealing performance;
2. The gate valve shall have relief hole on upstream direction while the pressure may remain in the cavity;
3. Low temperature cold isolation can be an option to prevent cold heat exchange.



High temperature extension

Structure characteristics:

1. The high temperature extended structure is mainly to prevent scald operator during operation.
2. The cooling fin can be selected to help heat radiation.



Bellow seal extension

Structure characteristics:

1. Bellow seal extension has the bellow inside of the cavity, the effective compression of the bellows must be greater than the opening stroke of the valve;
2. Bellow seal structure can effectively reduce the leakage of valve stem, the primary seal is for bellows and secondary seal as a filler.

How to order

NPS 6 Class 600, gate valve, flexible wedge, bolt bonnet, raised face, WCB body, trim 5#, renewable seat, no O-ring, handwheel operated.

1.		2.		3.	4.	5.	6.		7.		8.	9.	10.
0	6	G	A	6	R	1	C	4	0	5	R	0	H

1.	Nominal size
00	Special
F1	3/8 (DN 10)
F2	1/2 (DN 15)
0R	1/2 RB
F3	3/4 (DN 20)
R0	3/4 RB
01	1 (DN 25)
R1	1 RB
F4	1 ¼ (DN 32)
1R	1 ¼ RB
F5	1 ½ (DN 40)
2R	1 ½ RB
02	2 (DN 50)
R2	2 RB
F6	2 ½ (DN 65)
3R	2 ½ RB
03	3 (DN 80)
R3	3 RB
04	4 (DN 100)
R4	4 RB
05	5 (DN 125)
R5	5 RB
06	6 (DN 150)
R6	6 RB
07	8 RB
08	8 (DN 200)
09	10 RB
10	10 (DN 250)
11	12 RB
12	12 (DN 300)
13	14 RB
14	14 (DN 350)
15	16 RB
16	16 (DN 400)
17	18 RB
18	18 (DN 450)
19	20 RB
20	20 (DN 500)
21	22 RB
22	22 (DN 550)
23	24 RB
24	24 (DN 600)
25	26 RB

1.	Nominal size
26	26 (DN 650)
27	28 RB
28	28 (DN 700)
29	30 RB
30	30 (DN 750)
31	32 RB
32	32 (DN 800)
33	34 RB
34	34 (DN 850)
35	36 RB
36	36 (DN 900)
37	38 RB
38	38 (DN 950)
39	40 RB
40	40 (DN 1000)
41	42 RB
...	More as such

2.	Valve type
GA	Gate valve

3.	Pressure rating
0	Special
1	Class 150
3	Class 300
5	Class 1500
6	Class 600
7	Class 2500
9	Class 900
8	Class 800
2	Class 125(PN16)
4	Class 400(PN64)

4.	End connection
X	Special
R	RF Flanged
J	RTJ Flanged
F	FF Flanged
T	Threaded
B	Butt-Weld (BW)
S	Socket-Weld (SW)

5.	Construction
GA	
1	Flexible wedge, bolted bonnet
2	Flexible wedge, welded bonnet
3	Flexible wedge, pressure seal
4	Flexible wedge, bellow seal
5	Solid wedge, bolted bonnet
6	Solid wedge, welded bonnet
7	Solid wedge, pressure seal
8	Solid wedge, bellow seal

6.	Body material
X0	Special
C1	A105
C2	A216 WCA
C4	A216 WCB
C6	A216 WCC
M1	A182 F1
M2	A217 WC1
M3	A182 F2
M4	A217 WC4
M5	A182 F12 CL 2
M6	A217 WC5
M7	A182 F11 CL 2
M8	A217 WC6
M9	A182 F22 CL 3
M0	A217 WC9
E1	A182 F5
E2	A217 C5
E4	A217 C6
E5	A182 F9
E6	A217 C12
E7	A182 F91
E8	A217 C12A
L1	A350 LF1
L2	A352 LCA
L3	A350 LF2
L4	A352 LC2
L5	A350 LF3
L6	A352 LC3
L7	A350 LF5
L8	A352 LCB
L9	A350 LF6
LA	A350 LF9
LB	A352 LC9
LD	A352 LCC
S1	A182 F304
S2	A351 CF8
S3	A182 F304L
S4	A351 CF3
S5	A182 F316
S6	A351 CF8M

6.	Body material
S7	A182 F316L
S8	A351 CF3M
S9	A182 F347
S0	A351 C F8C
D1	A182 F51
D2	A995 4A
D3	A182 F53
D4	A995 5A
D5	A182 F55
D6	A995 6A

7.	Trim material
00	Special
01	13Cr/13Cr/13Cr
02	304/304/304
03	310/310/310
04	Hard 13Cr/Hard 13Cr/13Cr
05	Stellite/Stellite/13Cr
06	13Cr/Cu-Ni/13Cr
07	13Cr/Hard 13Cr/13Cr
08	13Cr/Stellite/13Cr
09	Monel/Monel/Monel
10	316/316/316
11	Monel/Stellite/Monel
12	316/Stellite/316
13	Alloy 20/Alloy 20/Alloy 20
14	Alloy 20/Stellite/Alloy 20
15	Stellite/Stellite/304
11	Stellite/Stellite/316
12	Stellite/Stellite/347
13	Stellite/Stellite/Alloy 20
20	304L/304L/304L
21	316L/316L/316L
22	321/321/321
23	F55/F55/F55
24	F51/F51/F51
25	F53/F53/F53
32	316L/Stellite/316L
33	Stellite/Stellite/316L
34	304L/Stellite/304L
35	Stellite/Stellite/304L

8.	Seat
R	Renewable metal
N	Non renewable metal

9.	O-Ring
O	None

10.	Operation
B	Bare stem
H	Handwheel
G	Gear
P	Pneumatic
E	Electric
C	Gear w / chain
N	Pneumatic-hydraulic
O	Solid handwheel
V	Handwheel with locking device

Subject to change without prior notice.

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