

GATE VALVE API 6D

CARBON STEEL / STAINLESS STEEL

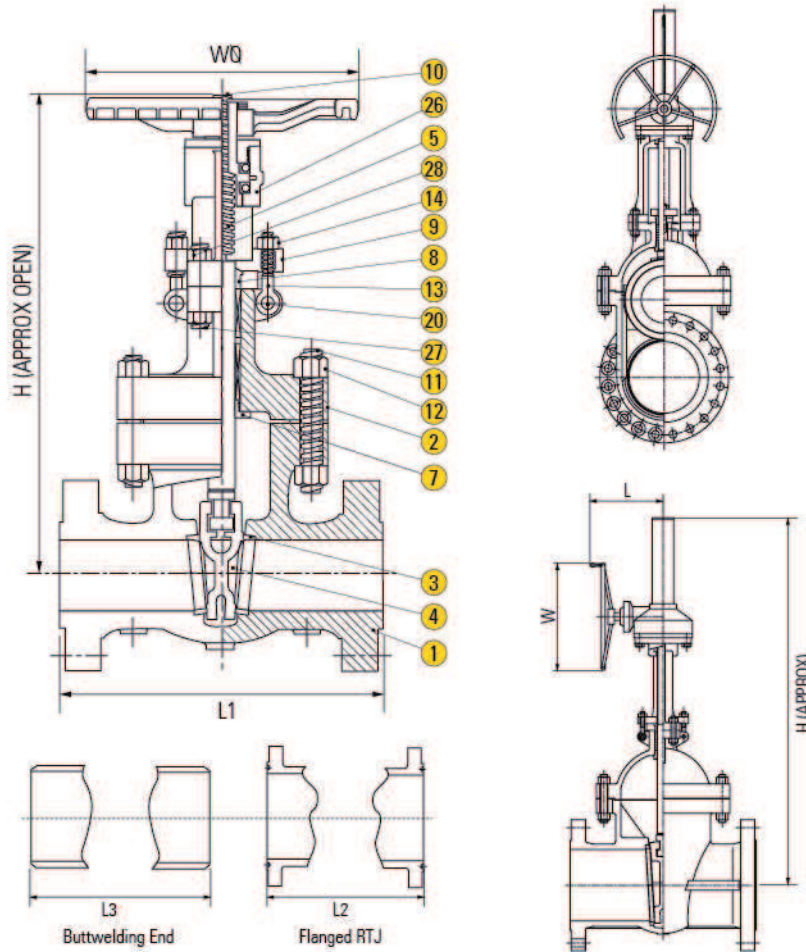


FIG GA-*1-*2-*3

Note : *1 Class | *2 Material | *3 Connection

SPECIFICATION

Designed and Manufactured API 6D
 Face To Face Dimension ASME 16.10
 Pressure Rating Class 150, 300, 600, 900, 1500 and 2500
 Flange End Dimension ASME B16.5

BW End Dimension ASME B16.25
 Test and Inspection API 598
 Pressure - Temperature Rating ASME B16.34

MATERIAL

Parts	ASTM Specification						
	Standard	High Temperature Service				Low Temperature Service	Corrosion Service
1 Body	A216-WCB	A217-WC1	A217-WC6	A217-WC9	A217-C5	A352-LCB	A351-CF8M
2 Bonnet	A216-WCB	A217-WC1	A217-WC6	A217-WC9	A217-C5	A352-LCB	A351-CF8M
3 Disc	A217-CA15	A217-WC1	A217-WC6	A217-WC9	A217-C5	A352-LCB	A351-CF8M
4 Body Seat Ring	A105+HARD FACE	A105+HARD FACE	A105+HARD FACE	A105+HARD FACE	A105+HARD FACE	A182-F304	A182-F316
5 Stem	A276-410	A276-410	A276-410	A276-410	A276-410	A276-304	A276-316
7 Bonnet Bush	A276-410	A276-410	A276-410	A276-410	A276-410	A276-304	A276-316
8 Packing Gland	A276-410	A276-410	A276-410	A276-410	A276-410	A276-F304	A276-316
9 Gland Flange	A105	A105	A105	A105	A105	A105	A351-CF8/A240-304
10 Stem Nut	A439-D2	A439-D2	A439-D2	A439-D2	A439-D2	A439-D2	A351-CF8/A240-304
11 Bonnet Bolt	A193-B7	A193-B7	A193-B7	A193-B16	A193-B16	A320-L7	A193-B8
12 Bonnet Nut	A194-2H	A194-2H	A194-2H	A194-4	A194-4	A194-4	A194-8
13 Gland Bolt	A307.B	A307.B	A307.B	A307.B	A307.B	A307.B	A193-B8
14 Gland Nut	A307.B	A307.B	A307.B	A307.B	A307.B	A307.B	A194-8
20 Hinge Pin	A276-410	A276-410	A276-410	A276-410	A276-410	A276-304	A276-304
26 Yoke	A216-WCB	A217-WC1	A217-WC6	A217-WC9	A217-C5	A352-LCB	A351-CF8M
27 Yoke Bolt	A193-B7	A193-B7	A193-B7	A193-B16	A193-B16	A320-L7	A193-B8
28 Yoke Nut	A194-2H	A194-2H	A194-2H	A194-4	A194-4	A194-4	A194-8

*Note : In case of 12" and larger size, We' ll use trim material overlayed one on the same or equivalent material of the body.

*Specification given are subject to changed without further notice.

CLASS 150 *(N/A for L2)

Valve Size	inch	2	2½	3	4	5	6	8	10	12	14	16	18	20	24	28	30	36	40
L1	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	750	900	1000
	inch	7.0	7.5	8.0	9.0	10.0	10.5	11.5	13.0	14.0	15.0	16.0	17.0	18.0	20.0	24.0	24.0	28.0	30.0
L3	mm	178	191	203	229	254	267	292	330	356	381	406	432	457	508	610	610	711	762
	inch	-	9.5	11.12	12.0	15.0	15.88	16.5	18.0	19.75	22.5	24.0	26.0	28.0	32.0	36.0	36.0	40.4	42.0
H	mm	216	241	283	305	381	403	419	457	502	572	610	660	711	813	914	914	1016	1067
	inch	14.0	16.3	18.4	22.2	26.5	30.0	41.9	50.6	58.3	60.0	68.7	79.1	91.7	109.6	127.4	134.5	161.8	183.9
W	mm	356	415	468	565	674	762	1085	1285	1480	1523	1745	2010	2330	2784	3236	3417	4109	4670
	inch	7.7	7.7	8.5	9.4	11.0	11.8	14.0	15.7	17.7	13.8	13.8	13.8	17.7	17.7	22.0	22.0	27.9	31.5
L	mm	195	195	215	240	280	300	355	400	450	350	350	350	450	450	560	560	710	800
	inch	-	-	-	-	-	-	-	-	-	13.1	13.1	13.1	14.3	14.3	16.3	16.3	18.4	20.7
Weight	LB	44.1	55.1	66.2	97.0	132.3	154.4	233.7	368.2	526.9	760.7	1080.5	1274.5	1611.9	2280.0	3572.1	4057.2	7497.0	9481.5
	Kg	20	25	30	44	60	70	106	167	239	345	490	578	731	1043	1620	1840	3400	4300

CLASS 300

Valve Size	inch	2	2½	3	4	5	6	8	10	12	14	16	18	20	24	28	30	36	40	42
L1 & L3	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	750	900	1000	1050
	inch	8.5	9.5	11.12	12.0	15.0	15.88	16.5	18.0	19.75	30.0	33.0	36.0	39.0	45.0	53.0	55.0	68.0	76.0	78.0
L2	mm	216	241	283	305	381	403	419	457	502	762	838	914	991	1143	1346	1397	1727	1930	1981
	inch	9.12	10.12	11.47	12.62	15.63	16.5	17.12	18.62	20.37	30.62	33.62	36.62	39.75	45.88	54.0	56.0	69.12	-	-
H	mm	216	257	298	321	397	419	435	473	518	778	854	930	1010	1165	1372	1422	1756	-	-
	inch	16.3	17.5	20.5	23.2	28.3	33.3	40.4	48.2	61.4	60.0	68.7	79.1	91.7	109.6	130.0	148.5	169.8	188.6	198.1
W	mm	415	445	520	590	720	845	1025	1225	1560	1523	1745	2010	2330	2784	3302	3772	4312	4791	5032
	inch	7.7	7.7	8.5	9.4	11.0	14.0	15.7	17.7	19.7	17.7	17.7	22.0	22.0	27.9	35.4	35.4	30.0	30.0	30.0
L	mm	195	195	215	240	280	355	400	450	500	450	450	560	560	710	900	900	760	760	
	inch	-	-	-	-	-	-	-	-	-	14.3	14.3	16.3	16.3	18.4	21.8	21.8	21.8	20.2	
Weight	LB	52.9	75.0	90.4	143.3	209.5	257.9	401.3	368.2	1060.6	1528.1	2094.8	2535.8	3307.5	4961.3	6637.1	8180.6	11002.9	13528.8	14994.0
	Kg	24	34	41	65	95	117	182	355	481	693	950	1150	1500	2250	3010	3710	4990	6160	6800

CLASS 600

Valve Size	inch	2	2½	3	4	5	6	8	10	12	14	16	18	20	24
L1 & L3	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	inch	11.5	13.0	14.0	17.0	20.0	22.0	26.0	31.0	33.0	36.0	39.0	43.0	47.0	55.0
L2	mm	292	330	356	432	580	556	660	787	838	889	991	1092	1194	1397
	inch	11.62	13.12	14.12	17.12	19.57	22.12	26.12	31.12	33.12	35.12	39.12	43.12	47.25	55.38
H	mm	295	333	359	435	497	562	664	791	841	892	991	1095	1200	1406
	inch	18.7	21.6	23.5	26.8	31.5	36.6	45.7	53.1	61.8	72.1	82.9	98.0	104.8	116.9
W	mm	475	520	598	680	800	930	1160	1350	1570	1832	2106	2489	2662	2970
	inch	7.7	7.7	9.4	11.8	14.0	17.7	17.7	19.7	22.0	22.0	27.9	27.9	31.5	35.4
L	mm	195	195	240	300	355	450	450	500	560	560	710	710	800	900
	inch	-	-	-	-	-	-	-	-	16.3	16.3	18.4	18.4	20.7	26.4
Weight	LB	79.4	127.9	154.4	269.0	441	551.2	893.0	1433.2	1896.3	2734.2	3109.1	4890.7	6198.3	8656.8
	Kg	36	58	70	122	200	250	405	650	860	1240	1410	2218	2811	3926

CLASS 900

Valve Size	inch	2	2½	3	4	5	6	8	10	12	14	16	18	20	24
L1 & L3	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	inch	14.5	16.5	15.0	18.0	22.0	24.0	29.0	33.0	38.0	40.5	44.5	48.0	52.0	61.0
L2	mm	368	419	381	457	559	610	737	838	965	1029	1130	1219	1321	1549
	inch	14.62	16.62	15.12	18.12	22.13	24.12	29.12	33.12	38.12	40.88	44.88	48.5	52.5	61.75
H	mm	371	422	384	460	562	613	740	841	968	1038	1140	1232	1334	1568
	inch	21.2	26.4	26.4	30.8	37.1	42.4	55.5	67.7	77.4	74.9	80.7	88.8	110.2	124.0
W	mm	539	670	670	782	943	1076	1411	1720	1965	1902	2051	2256	2800	3150
	inch	11.8	11.8	14.0	15.7	19.7	22.0	17.7	22.0	22.0	24.0	24.0	30.0	30.0	24.0
L	mm	300	300	355	400	500	560	450	560	560	610	610	760	760	610
	inch	-	-	-	-	-	-	-	14.3	16.3	16.3	20.2	20.2	21.8	21.8
Weight	LB	181	341.8	364	384	661.5	999	1720	2752	3400	4895.1	6615	8533.4	10716.3	16096.5
	Kg	82	155	165	174	300	453	780	1248	1542	2220	3000	3870	4860	7300

CLASS 1500

Valve Size	inch	2	2½	3	4	5	6	8	10	12	14	16
L1 & L3	mm	50	65	80	100	125	150	200	250	300	350	400
	inch	14.5	16.5	18.5	21.5	26.5	27.75	32.75	39.0	44.5	49.5	54.5
L2	mm	368	419	470	546	673	705	832	991	1130	1257	1384
	inch	14.62	16.62	18.62	21.62	26.61	28.0	33.13	39.38	45.12	50.25	55.38
H	mm	371	422	473	549	676	711	842	1000	1146	1276	1407
	inch	21.2	26.4	29.1	30.8	43.62	47.0	60.8	66.5	82.3	85.1	97.9
W	mm	539	670	738	783	1108	1196	1546	1688	1090	2167	2486
	inch	11.8	11.8	15.7	19.7	24.8	13.8	22.0	27.9	27.9	30.0	30.0
L	mm	300	300	400	500	630	350	560	560	710	710	760
	inch	-	-	-	-	-	-	13.1	16.3	18.4	18.4	21.8
Weight	LB	181	341.8	401	573	926.1	1360	3175	4412	8417	9073.6	15324.8
	Kg	82	155	182	260	420	617	1440	2001	3816	4115	6950

CLASS 2500

Valve Size	inch	2	2½	3	4	6	8	10	12
L1 & L3	mm	50	65	80	100	150	200	250	300
	inch	17.75	20.0	22.75	26.5	36.0	40.25	50.0	56.0
L2	mm	451	508	578	673	914	1022	1270	1422
	inch	17.87	20.25	23.0	26.88	36.5	40.87	50.88	56.88
H	mm	454	514	584	683	927	1038	1292	1445
	inch	27.56	29.53	34.92	43.19	57.09	63.39	81.73	89.8
W	mm	700	750	887	1079	1450	1610	2076	2281
	inch	14.0	18.0	18.0	20.0	24.0	24.0	24.0	24.0
L	mm	350	450	450	500	610	610	610	610
	inch	-	-	-	-	-	-	-	-
Weight	LB	297.6	463.0	597.5	1115.5	3527.4	5401.3	10075.1	15763.1
	Kg	135	210	271	506	1600	2450	4570	