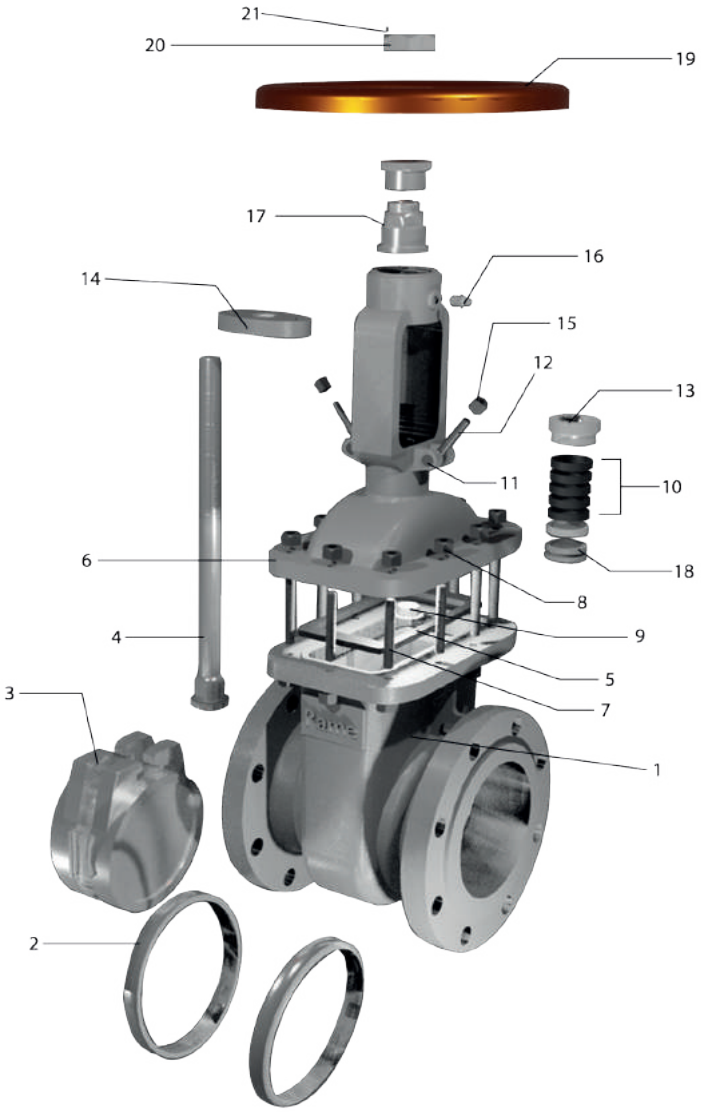


MANUFACTURING STANDARDS

General Design	:API 600 / API 6D
Face To Face	:ASME/ANSI B16.10
Flange End	:ASME/ANSI B16.5 & B16.47
Butt Weld End	:ASME/ANSI B16.25
Pressure Rating	:ASME/ANSI B16.34
Fire Safe Design	:API 6FA
Inspection & Test	:API 598 / API 6D
Features	:Bolted Bonnet, Outside Screw & Yoke, Rising Stem, Flexible Wedge

STANDARD PARTS & MATERIAL

NO	PARTS	CARBON STEEL		ALLOY STEEL			
		WCB	LCB	WC6	WC9	C5	C12
1	Body	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A217 C12
2	Seat	A105 + STL	A350 LF2 + STL	A182 F11 + STL	A182 F22 +STL	A182 F5 + STL	A182 F9 + STL
3	Disc	A216 WCB + 13CR	A352 LCB + 13 CR	A217 WC6 + 13CR	A217 WC9 + 13CR	A217 C5 + 13 CR	A217 C12 + 13 CR
4	Steam	A182 F6	A182 F304	A182 F6			
5	Gasket	SS304 + Graphite					
6	Bonnet	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A217 C12
7	Bonnet Bolt	A193B7	A320 L7	A193 B16			
8	Bonnet Nut	A1924 2H	A194 7	A194 4			
9	Back Seat	A276 410	A276 F304	A276 410			
10	Packing	Flexible Graphite					
11	Pin	Steel					
12	Gland Eyebolt	A193 B7	A320 L7	A193 B16			
13	Gland	A276 410	A276 F304	A276 410			
14	Gland Flange	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A217 C12
15	Eye Bolt Nut	A194 2H	A194 7	A194 4			
16	Grease Niplple	Brass					
17	Stem Nut	A493 D 2					
18	Retaining Nut	Steel					
19	Handwheel	Ductile Iron					
20	Handwheel Nut	Steel					
21	Srew	steel					

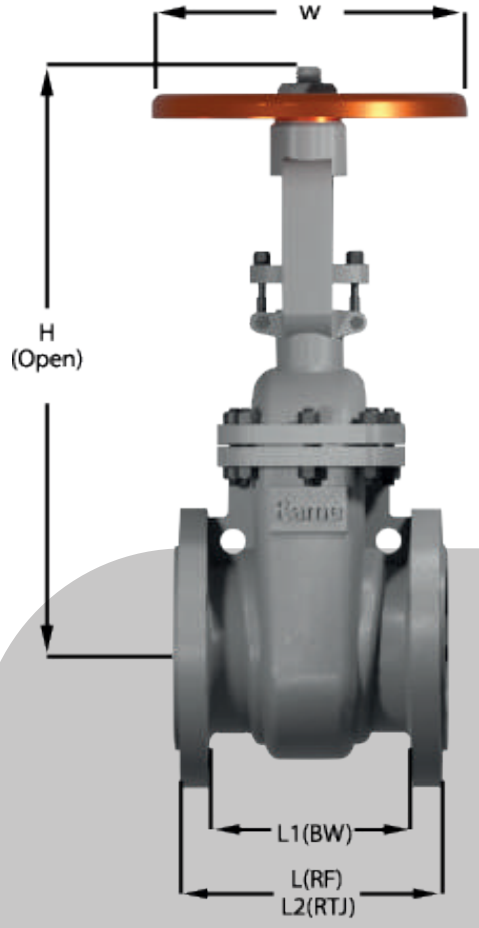
Other valve material composition are available.

CAST STEEL GATE VALVE

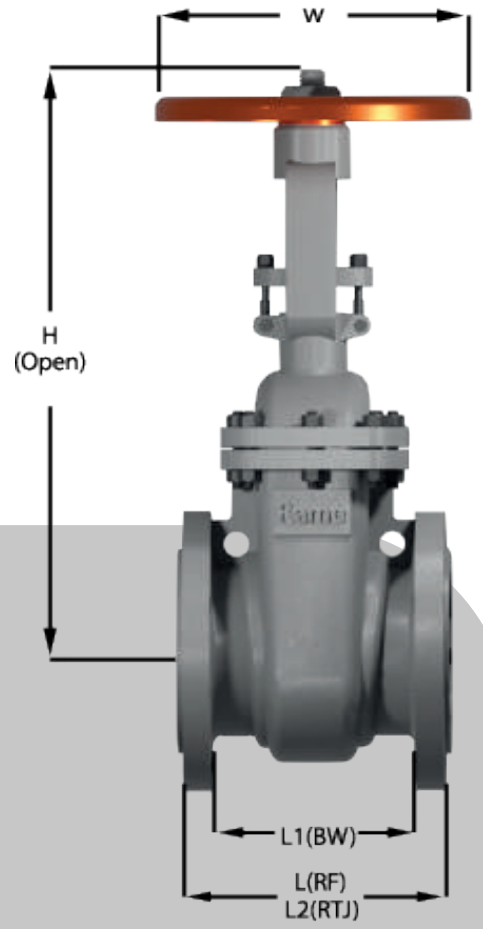
CLASS 150

Size (In)	W	L (RF)	L1 (BW)	L2 (RTJ)	H (Open)	Wt. (Kg)
2	200 (8.00)	178 (7.00)	261 (8.50)	191 (7.50)	387 (15.20)	19
2.1/2	200 (8.00)	191 (7.50)	241 (9.50)	203 (8.00)	435 (17.10)	26
3	250 (10.00)	203 (8.00)	283 (11.12)	216 (8.50)	481 (18.90)	35
4	300 (12.00)	229 (9.00)	305 (12.00)	242 (9.50)	585 (23.00)	49
5	300 (12.00)	254 (10.00)	381 (15.00)	267 (10.50)	681 (26.80)	64
6	300 (12.00)	267 (10.50)	403 (15.88)	279 (11.00)	765 (30.10)	81
8	350 (14.00)	292 (11.50)	419 (16.50)	305 (12.00)	956 (37.60)	127
10	400 (16.00)	330 (13.00)	457 (18.00)	343 (13.50)	1149 (45.20)	204
12	450 (18.00)	356 (14.00)	502 (19.75)	368 (14.50)	1351 (53.20)	291
14	500 (20.00)	381 (15.00)	572 (22.50)	394 (15.50)	1508 (59.40)	400
16	550 (22.00)	406 (16.00)	610 (24.00)	419 (16.50)	1703 (67.00)	486
18	600 (24.00)	432 (17.00)	660 (26.00)	445 (17.50)	1892 (74.50)	610
20	680 (27.00)	457 (18.00)	711 (28.00)	470 (18.50)	2119 (83.40)	788
24	760 (30.00)	508 (20.00)	813 (32.00)	521 (20.50)	2500 (98.40)	1144
26	610 (24.00)	559 (22.00)	864 (34.00)	-	2806 (110.00)	1570
28	610 (24.00)	610 (24.00)	914 (36.00)	622 (24.50)	2960 (117.00)	1900
30	610 (24.00)	610 (24.00)	914 (36.00)	622 (24.50)	3148 (124.00)	2540
32	610 (24.00)	660 (26.00)	965 (38.00)	673 (26.50)	3281 (129.00)	2958
36	610 (24.00)	711 (28.00)	1016 (40.00)	724 (28.50)	3721 (146.00)	3380
40	610 (24.00)	762 (30.00)	1067 (42.00)	-	3980 (157.00)	4815
42	813 (32.00)	787 (31.00)	1092 (42.00)	-	4820 (190.00)	5300
48	813 (32.00)	864 (34.00)	1068 (46.00)	-	5920 (233.00)	7110

Unit : mm (inch)



CAST STEEL GATE VALVE



Size (In)	W	L (RF)	L1 (BW)	L2 (RTJ)	H (Open)	Wt . (Kg)
2	200 (8.00)	216 (8.00)	216 (8.00)	232 (9.12)	410 (16.10)	26
2.1/2	200 (8.00)	241 (9.50)	241 (9.50)	257 (10.12)	453 (17.80)	35
3	250 (10.00)	283 (11.12)	283 (11.12)	298 (11.75)	509 (20.00)	52
4	250 (10.00)	305 (12.00)	305 (12.00)	321 (12.62)	612 (24.10)	75
5	300 (12.00)	381 (15.00)	381 (15.00)	397 (15.60)	670 (26.40)	102
6	300 (12.00)	403 (15.88)	403 (15.88)	419 (16.50)	805 (31.70)	147
8	350 (14.00)	419 (16.50)	419 (16.50)	435 (17.12)	1000 (39.40)	235
10	400 (16.00)	457 (18.00)	457 (18.00)	473 (18.62)	1209 (47.60)	350
12	450 (18.00)	502 (19.75)	502 (19.75)	518 (20.38)	1416 (55.70)	472
14	500 (20.00)	762 (30.00)	762 (30.00)	778 (30.62)	1582 (62.30)	683
16	550 (22.00)	838 (33.00)	838 (33.00)	854 (33.62)	1725 (67.90)	950
18	600 (24.00)	914 (36.00)	914 (36.00)	930 (36.62)	1959 (77.10)	1145
20	680 (27.00)	991 (39.00)	991 (39.00)	1010 (39.75)	2194 (86.40)	1634
24	760 (30.00)	1143 (45.00)	1143 (45.00)	1165 (45.88)	2598 (102.30)	2660
26	610 (24.00)	1245 (49.00)	1245 (49.00)	1270 (50.00)	2986 (117.60)	3090
28	610 (24.00)	1346 (53.00)	1346 (53.00)	1372 (54.00)	3120 (122.80)	3312
30	610 (24.00)	1397 (55.00)	1397 (55.00)	1422 (56.00)	3205 (126.20)	3597
32	610 (24.00)	1524 (60.00)	1524 (60.00)	1553 (61.12)	3692 (145.40)	4850
36	610 (24.00)	1727 (68.00)	1727 (68.00)	1756 (69.12)	4104 (161.60)	6850

CLASS 300

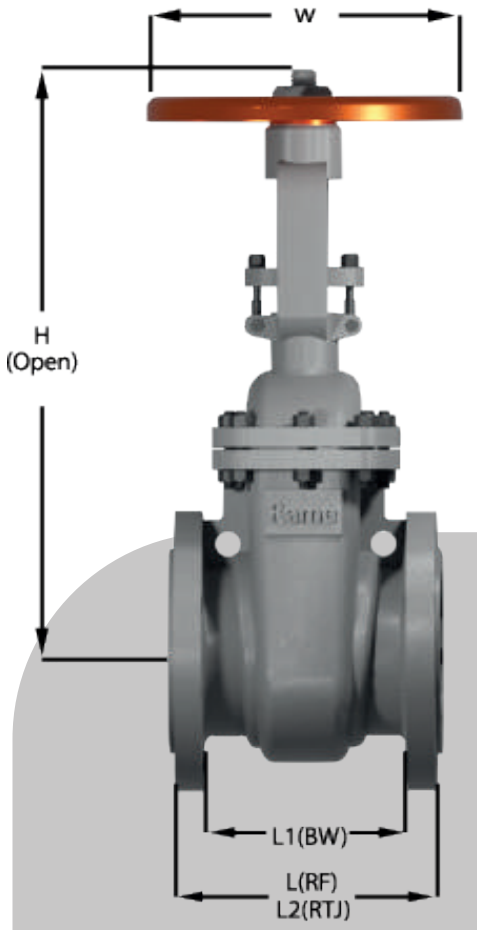
Unit : mm (inch)

CAST STEEL GATE VALVE

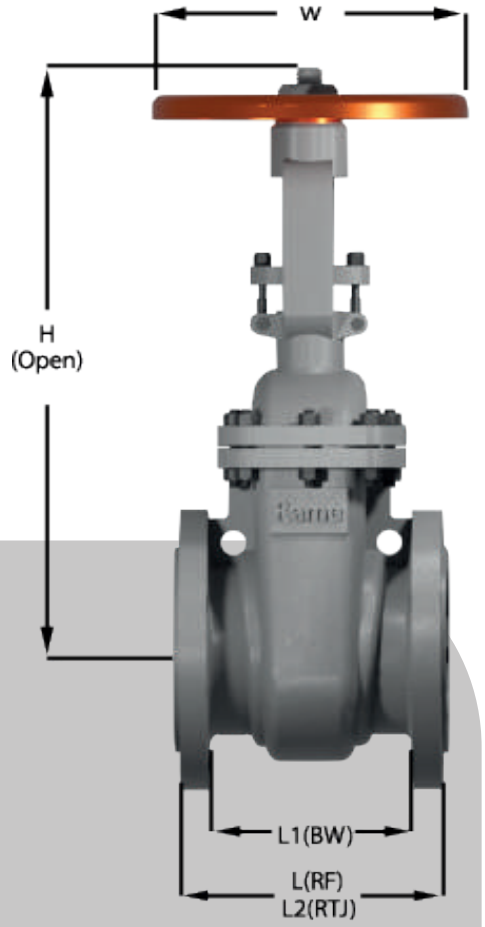
CLASS 600

Size (In)	W	L (RF)	L1 (RTJ)	L2 (RTJ)	H (Open)	Wt. (Kg)
2	200 (8.00)	292 (11.50)	292 (11.50)	295 (11.62)	418 (16.50)	39
2.1/2	250 (10.00)	330 (13.00)	330 (13.00)	333 (13.12)	476 (18.70)	52
3	250 (10.00)	356 (14.00)	356 (14.00)	359 (14.12)	518 (20.40)	68
4	300 (12.00)	432 (17.00)	432 (17.00)	435 (17.12)	646 (25.40)	120
5	400 (16.00)	508 (20.00)	508 (20.00)	511 (20.12)	770 (30.30)	170
6	450 (18.00)	559 (22.00)	559 (22.00)	562 (22.12)	839 (33.00)	273
8	500 (20.00)	660 (26.00)	660 (26.00)	664 (26.12)	1024 (40.30)	402
10	600 (24.00)	787 (31.00)	787 (31.00)	791 (31.12)	1229 (48.40)	610
12	680 (27.00)	838 (33.00)	838 (33.00)	841 (33.12)	1450 (57.10)	902
14	610 (24.00)	889 (35.00)	889 (35.00)	892 (35.12)	1574 (62.00)	1245
16	610 (24.00)	991 (39.00)	991 (39.00)	994 (29.12)	1797 (70.70)	1530
18	610 (24.00)	1092 (43.00)	1092 (43.00)	1095 (43.12)	1931 (76.02)	2030
20	610 (24.00)	1194 (47.00)	1194 (47.00)	1200 (47.25)	2207 (86.90)	2735
24	610 (24.00)	1397 (55.00)	1397 (55.00)	1407 (55.38)	2582 (102.00)	3620
26	813 (32.00)	1448 (57.00)	1448 (57.00)	1461 (57.50)	3150 (124.00)	5220
28	1000 (40.00)	1549 (61.00)	1549 (61.00)	1562 (61.50)	3362 (133.00)	6050
30	1000 (40.00)	1651 (65.00)	1651 (65.00)	1664 (65.50)	3549 (140.00)	6945
32	1000 (40.00)	1778 (70.00)	1778 (70.00)	1794 (70.62)	3811 (150.00)	8312
36	1000 (40.00)	2082 (82.00)	2082 (82.00)	2099 (82.62)	4260 (168.00)	10000

Unit : mm (inch)



CAST STEEL GATE VALVE



Size (In)	W	L (RF)	L1 (BW)	L2 (RTJ)	H (Open)	Wt. (Kg)
2	250 (10.00)	368 (14.50)	368 (14.50)	371 (14.62)	498 (19.60)	74
2.1/2	250 (10.00)	419 (16.50)	419 (16.50)	422 (16.62)	547 (21.50)	92
3	300 (12.00)	381 (15.00)	381 (15.00)	384 (15.12)	573 (22.60)	101
4	350 (14.00)	457 (18.00)	457 (18.00)	460 (18.12)	678 (26.70)	172
6	500 (20.00)	610 (24.00)	610 (24.00)	613 (24.12)	900 (35.40)	335
8	610 (24.00)	737 (29.00)	737 (29.00)	740 (29.12)	1103 (43.40)	640
10	610 (24.00)	838 (33.00)	838 (33.00)	841 (33.12)	1345 (53.00)	1100
12	610 (24.00)	965 (38.00)	965 (38.00)	968 (38.12)	1520 (59.80)	1360
14	610 (24.00)	1029 (40.50)	1029 (40.50)	1038 (40.88)	1902 (74.90)	2250
16	610 (24.00)	1130 (44.50)	1130 (44.50)	1140 (44.88)	2051 (80.70)	2850
18	810 (32.00)	1219 (48.00)	1219 (48.00)	1232 (48.50)	2212 (87.00)	3870
20	1000 (40.00)	1321 (52.00)	1321 (52.00)	1334 (52.50)	2417 (95.00)	4860
24	1000 (40.00)	1549 (61.00)	1549 (61.00)	1568 (61.75)	2750 (108.40)	6100

CLASS 900

Unit : mm (inch)

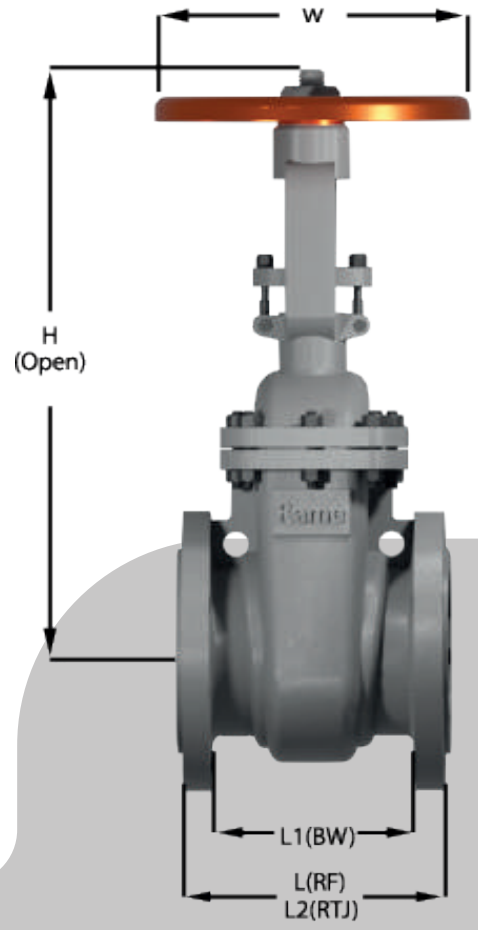
Rame Valves

CAST STEEL GATE VALVE

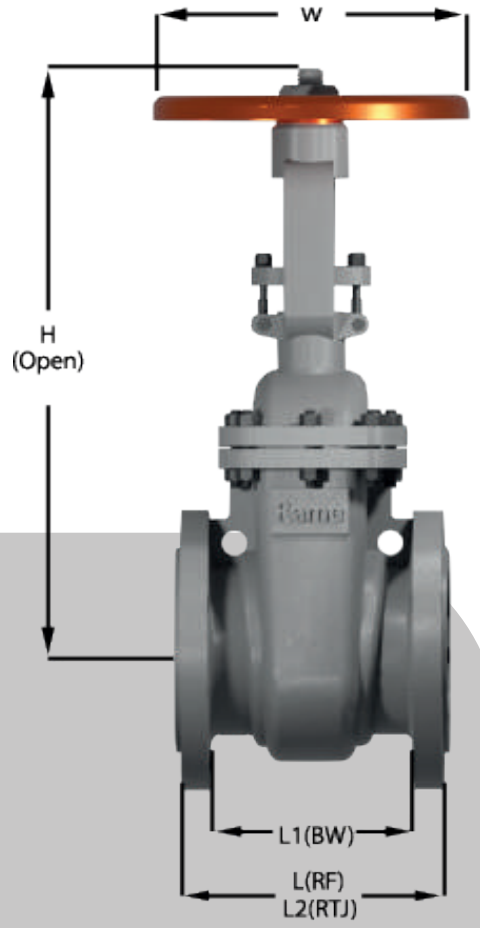
CLASS 1500

Size (In)	W	L (RF)	L1 (BW)	L2 (RTJ)	H (Open)	Wt. (Kg)
2	250 (10.00)	368(14.50)	368 (14.50)	371 (15.50)	487 (19.20)	74
2.1/2	300 (12.00)	419 (16.50)	419 (16.50)	422 (16.62)	572 (22.50)	131
3	350 (14.00)	470 (18.50)	470 (18.50)	473 (18.62)	603 (23.70)	165
4	500 (20.00)	546 (21.50)	546 (21.50)	549 (21.62)	700 (27.60)	248
6	610 (24.00)	705 (27.75)	705 (27.75)	711 (28.00)	984 (38.70)	510
8	458 (18.00)	832 (32.75)	832 (32.75)	841 (33.12)	1146 (45.10)	1040
10	458 (18.00)	991 (39.00)	991 (39.00)	1000 (39.38)	1371 (54.00)	1910
12	610 (24.00)	1130 (44.50)	1130 (44.50)	1146 (45.12)	1633 (64.30)	2685
14	610 (24.00)	1257 (49.50)	1257 (49.50)	1276 (50.25)	1798 (70.80)	4100
16	610 (24.00)	1384 (54.50)	1384 (54.50)	1407 (55.38)	1963 (77.30)	6200

Unit : mm (inch)



CAST STEEL GATE VALVE



Size (In)	W	L (RF)	L1 (BW)	L2 (RTJ)	H (Open)	Wt. (Kg)
2	350 (14.00)	451 (17.75)	451 (17.75)	454 (17.88)	563 (22.20)	74
2.1/2	450 (18.00)	508 (20.00)	508 (20.00)	514 (20.50)	563 (22.20)	131
3	450 (18.00)	578 (22.75)	578 (22.75)	584 (23.00)	582 (22.90)	165
4	500 (20.00)	673 (26.50)	673 (26.50)	683 (26.88)	870 (34.30)	248
6	610 (24.00)	914 (36.00)	914 (36.00)	927 (36.50)	1450 (57.10)	510
8	610 (24.00)	1022 (40.25)	1022 (40.25)	1038 (10.88)	1610 63.40)	1040
10	610 (24.00)	1270 (50.00)	1270 (50.00)	1292 (50.88)	2076 (81.70)	1910
12	610 (24.00)	1422 (56.00)	1422 (56.00)	1445 (56.88)	2281 (89.80)	2685

CLASS 2500

Unit : mm (inch)

FORGED STEEL GATE VALVE

STANDARD PARTS & MATERIAL

No	Parts	A105/N	LF2	F11	F22
1	Body	A105/N	A350-LF2	A182-F11	A182-F22
2	Seat Ring	410+STL	304+STL	410+STL	410+STL
3	Wedge	410	304	420	420
4	Stem	410	304	410	410
5	Gasket	Flexible Graphite + SS Wire			
6	Bonnet	A105/N	A350-LF2	A182-F11	A182-F22
7	Bonnet Bolt	A193-B7	A193-L7	A193-B16	
8	Pin	SS304			
9	Gland	420/304/416			
10	Eyebolt	A193-B7	A193-L7	A193-B16	
11	Gland Flange	A105			
12	Gland Nut	A194-2H			
13	Stem Nut	410			
14	Handwheel Nut	A194-2H			
15	Name Plate	Aluminium			
16	Handwheel	A197			
17	Yoke Sleeve	A276-410			
18	Gland Packing	Flexible Graphite			

