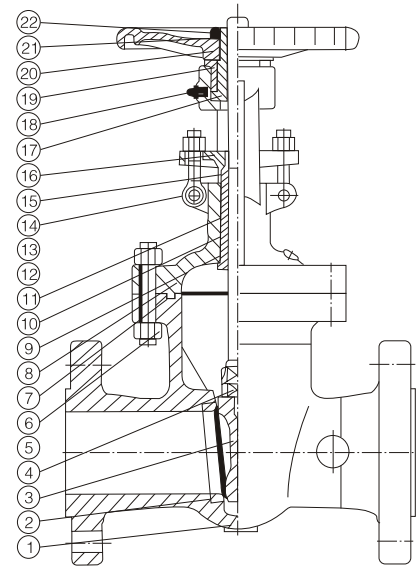


Gate Valve

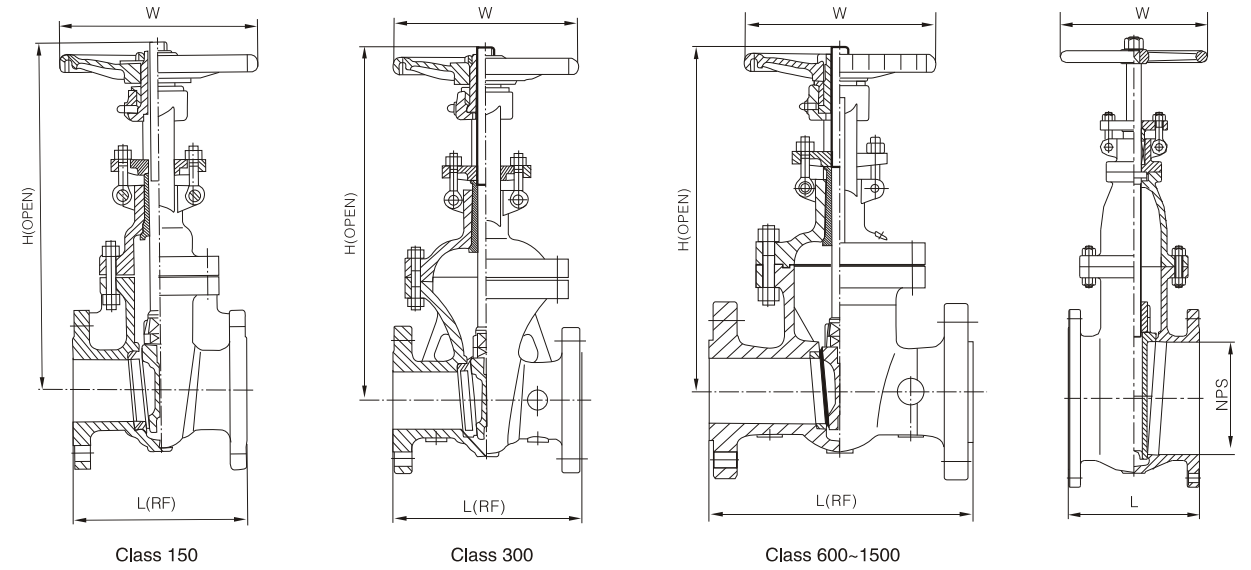
Gate Valve



OS & Y, Rising Stem, Flexible Solid Wedge
 Bolted Bonnet, Threaded or Welded Seat Ring
 Non-Rising Gate Valve

STANDARDS COMPLIANCE:

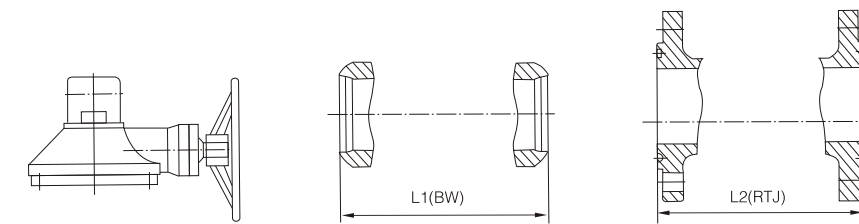
Basic Design: API600, BS1414
 Face to Face Dimension: ANSI B16.10
 End to End Dimension: ANSI B16.10
 End Flange Dimension: 2"-24" to ANSI B16.5, 26"-60" to MSS
 SP-44, to ANSI B16.47-A on request
 B. W. Ends to ANSI B16.25
 Manufacturing to NACE MR-01-75 on request



Standard Material Specifications

No	Part Name	Carbon steel to ASTM		Alloy steel to ASTM			Stain Steel to ASTM			
		WCB	LCB	WC6	WC9	C5	CF8	CF8M	CF3	CF3M
1	Body	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
2	Seat Ring	A105	A350 LF2	A182 F11	A182 F22	A182 F5	A182 F304	A182 F316	A182 F304L	A182 F316L
3	Wedge	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
4	Stem	A182 F6	A182 F6	A182 F304			A182 F304	A182 F316	A182 F304L	A182 F316L
5	Bonnet nut	A194 2H	A194 4	A194 7			A194 8			
6	Bonnet bolt	A193 B7	A320 L7	A193 B16			A193 B8			
7	Gasket	SS Spiral Wound/graphite or SS Spiral Wound/PTFE								
8	Bonnet	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
9	Backseat bushing	A182 F6	A182 F6	A182 F304			A182 F304	A182 F316	A182 F304L	A182 F316L
10	Stem packing	Graphite or PTFE								
11	Lantern	A182 F6	A182 F6	A182 F304	A182 F304	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L
12	Gland Nut	A194 2H			A194 8					
13	Gland Eyebolt	A194 B7			A193 B8					
14	PIN	Carbon steel or Stainless Steel								
15	Gland	A182 F6			A182 F304	A182 F316	A182 F304L	A182 F316L		
16	Gland Flange	A216 WCB			A351 CF8					
17	Stem Nut	A439 D2 or B148-952A								
18	Nipple	Carbon steel or Stainless Steel								
19	Retaining Nut	Carbon steel								
20	Hand Wheel	Ductile Iron or carbon steel								
21	Name Plate	Stainless steel or Aluminum								
22	H. W. Lock NUT	Carbon steel								

Other materials (Alloy 20, AISI321, AISI347, Monel, Hastelloy, etc) are available on request
 Class 150 gate valve is not provided with Lantern



Test Pressure to API598

Class	Body Material	Shell Test (Hydrostatic)	Seat Test (Hydrostatic)	Seat Test (Air)
150	WCB	450psi	315psi	80psi
	WC6	450psi	319psi	
	CF8M	425psi	303psi	
300	WCB	1125psi	814psi	80psi
	WC6	1125psi	825psi	
	CF8M	1100psi	792psi	
600	WCB	2225psi	1628psi	80psi
	WC6	2250psi	1650psi	
	CF8M	2175psi	1548psi	
900	WCB	3350psi	2442psi	80psi
	WC6	3375psi	2475psi	
	CF8M	3250psi	2376psi	
1500	WCB	5575psi	4078psi	80psi
	WC6	5625psi	4125psi	
	CF8M	5400psi	3960psi	

Gate Valve

Dimensions and Weights

Class 150																							
NPS	in	2	2-1/2	3	4	5	6	8	10	12	14	16	18	20	24	28	30	32	36	40	42	48	60
DN	mm	50	60	80	100	125	150	200	250	300	350	400	450	500	600	700	750	800	900	1000	1050	1200	1500
L (RF)	in	7	7-1/2	8	9	10	10-1/2	11-1/2	13	14	15	16	17	18	20	24	24	26	28	-	-	-	-
	mm	178	190	203	229	254	267	292	330	356	381	406	432	457	508	610	610	660	711	813	813	1067	-
L1 (BW)	in	8-1/2	9-1/2	11-1/8	12	15	15-7/8	16-1/2	18	19-3/4	22-1/2	24	26	28	32	36	36	38	40	-	-	-	-
	mm	216	241	283	305	381	403	419	457	502	572	610	660	711	813	914	914	965	1016	1067	1143	1371	-
L2 (RTJ)	in	7-1/2	8	8-1/2	9-1/2	10-1/2	11	12	13-1/2	14-1/2	15-1/2	16-1/2	17-1/2	18-1/2	20-1/2	24-1/2	24-1/2	26-1/2	28-1/2	-	-	-	-
	mm	191	203	216	241	267	279	305	343	368	394	419	445	470	521	622	622	673	724	-	-	-	-
H (OPEN)	in	16-1/8	18-9/16	20-15/16	24-1/8	27-15/16	31-3/4	39	46-11/16	55-5/16	63-9/16	71-5/16	78-3/16	87	106-1/4	119-5/16	130-9/16	137-1/4	150-9/16	-	-	-	-
	mm	409	472	532	612	710	806	990	1186	1405	1615	1811	1986	2210	2698	3030	3317	3487	3825	-	-	-	-
W	in	7-7/8	7-7/8	9-7/8	9-7/8	11-13/16	11-13/16	13-3/4	17-11/16	19-11/16	18-1/8	18-1/8	18-1/8	24	24	24	24	24	30	-	-	-	-
	mm	200	200	250	250	300	300	350	450	500	160*	160*	160*	610*	610*	610*	610*	610*	760*	-	-	-	-
WT (kg)	RF	20	30	36	53	71	85	136	220	323	387	553	660	810	1250	1931	2380	2490	3600	4520	4950	6300	-
	BW	17	26	29	46	66	77	116	202	294	350	506	575	720	1130	1765	2028	2280	3080	-	-	-	-

*Manual gear operator is recommended

Class 300																						
NPS	in	2	2-1/2	3	4	5	6	8	10	12	14	16	18	20	24	30	32	36	40	42	48	
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	750	800	900	1000	1050	1200	
L-L1 (RF-BW)	in	8-1/2	9-1/2	11-1/8	12	15	15-7/8	16-1/2	18	19-3/4	30	33	36	39	45	55	-	-	-	-	-	-
	mm	216	241	283	305	381	403	419	457	502	762	838	914	991	1143	1397	1524	1727	1955	2032	2286	-
L2 (RTJ)	in	9-1/8	10-1/8	11-3/4	12-5/8	15-5/8	16-1/2	17-1/8	18-5/8	20-3/8	30-5/8	33-5/8	36-5/8	39-3/4	45-7/8	56	-	-	-	-	-	-
	mm	232	257	298	321	397	419	435	473	518	778	854	930	1010	1165	1422	1553	1756	-	-	-	-
H (OPEN)	in	15-3/4	18-3/4	21-3/8	25-5/8	30-5/16	34-5/8	40-13/16	50-3/16	56-5/8	65	72-7/16	79-15/16	88-3/16	114-3/16	139-3/8	-	-	-	-	-	-
	mm	400	477	543	650	770	880	1037	1275	1438	1650	1840	2030	2240	2900	3540	-	-	-	-	-	-
W	in	7-7/8	9-7/8	9-7/8	11-13/16	11-13/16	13-3/4	17-11/16	19-11/16	22-1/16	18/1/8	18-1/8	24	24	24	30	-	-	-	-	-	-
	mm	200	250	250	300	300	350	450	500	560	460*	460*	610*	610*	610*	760*	-	-	-	-	-	-
WT (kg)	RF	30	39	55	83	92	137	240	333	536	699	1010	1205	1720	2800	3786	4380	6000	7970	9510	12600	-
	BW	26	34	47	68	77	118	195	271	432	595	848	1025	1460	2294	3220	3800	5300	-	-	-	-

*Manual gear operator is recommended

Class 600														
NPS	in	2	2-1/2	3	4	6	8	10	12	14	16	18	20	24
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
L-L1 (RF-BW)	in	11-1/2	13	14	17	22	26	31	33	35	39	43	47	55
	mm	292	330	356	432	559	660	787	838	889	991	1092	1194	1397
L2 (RTJ)	in	11-5/8	13-1/8	14-1/8	17-1/8	22-1/8	26-1/8	31-1/8	33-1/8	35-1/8	39-1/8	43-1/8	47-1/4	55-3/8
	mm	295	333	359	435	562	664	791	841	892	994	1095	1200	1407
H (OPEN)	in	18-5/8	21-3/4	23-3/8	28-1/16	38-3/16	44-3/16	52-3/8	59-13/16	68-1/8	72-1/4	90-1/8	98-13/16	119
	mm	474	553	593	713	970	1122	1330	1519	1730	1835	2290	2510	3022
W	in	9-7/8	9-7/8	11-13/16	13-3/4	19-11/16	22-1/16	28-3/8	24	24	24	24	30	30
	mm	250	250	300	350	500	560	720	610*	610*	610*	610*	760*	760*
WT (kg)	RF	41	58	88	131	253	413	623	784	1288	1820	2150	2540	4080
	BW	35	50	68	104	208	328	496	637	1120	1448	1828	2201	3360

*Manual gear operator is recommended