



CLASS 150~1500 CAST STEEL GATE VALVE

OS&Y,Rising stem,Flexible Wedge

Bolted Bonnet,Threaded or welded seat ring

ASTM A216 WCB,A217 WC6,A351 CF8,A351 CF8M,

A351 CF3,A351 CF3M,A351 CN7M

Standards compliance

Design and Manufacture:ANSIB16.34,API600 API6D,API603,BS1414

Face to face(end to end):ANSIB16.10,API6D

Flanged connection:2"~24"to ANSIB16.5,22",26"~36"to MSS-SP-44 to API605 on Request

Test and inspection:API598,API6D

Butt welded end:ANSIB16.5

A. Anti-friction ball thrust bearing: Reduces friction between mating parts to ensure smooth operation

B. Grub screw: Secures yoke nut in the bonnet

C. Grease nipple: Supplies lubricant to the mating parts

Materials		
NO.	Part name	Material
19	Grease nipple	Brass
18	Grub screw	Carbon steel
17	Hand wheel nut	Carbon steel
16	Hand wheel	Malleable Iron/cast steel/ ducile Iron/fabricated steel
15	Yoke nut	Carbon steel/SS
14	Eye bolt and nut	A 193 B7/A194 2H~A193 B8/A194 8
13	Pin	Carbon steel/stainless steel
12	Stem nut	A 439-D2/cu-alloy
11	Gland flange	Carbon steel/equivalent to body material
10	Gland	Stain less steel
09	Back seat	Stain less steel
08	Stem	Stain less steel
07	Seat ring	CS+SS/SS/SS+STL
06	Wedge	Material see body

NO.	Part name	WCB	LCB	WC6	WC9
05	Bolt and nut	A193 Gr B7/A194 Gr 2H	A320 Gr L7/A194 Gr 4	A193 Gr B16/A194 Gr 4/7	A193 Gr B16/A194 Gr 4/7
04	Gland Packing	Graphite	Graphite	Graphite	Graphite
03	Gasket	Spiral wound/Soft Iron	Spiral wound/Soft Iron	Spiral wound/SS304	Spiral wound/SS304
02	Bonnet	A216 Gr WCB	A352 Gr LCB	A271 Gr WC6	A271 Gr WC9
01	Body	A216 Gr WCB	A352 Gr LCB	A271 Gr WC6	A271 Gr WC9

NO.	Part name	C5	C12	CF8	CF8M
05	Bolt and nut	A193 Gr B16/A194 Gr 4/7	A193 Gr B16/A194 Gr 4/7	A193 B8/A194 8	A193 B8M/A194 B8
04	Gland Packing	Graphite	Graphite	Graphite	Graphite
03	Gasket	Spiral wound/Soft Iron	Spiral wound/Soft Iron	Spiral wound/SS304	Spiral wound/SS316
02	Bonnet	A217 Gr C5	A217 Gr C12	A351 Gr CF8	A351 Gr CF8M
01	Body	A217 Gr C5	A217 Gr C12	A351 Gr CF8	A351 Gr CF8M

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Class	Dimensions																					
150	Size	inch	2	2-1/2	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32	34	36	
	L-RF	mm	178	191	203	229	267	292	330	356	381	406	432	457	508	559	610	610	710	762	711	
L1-BW	mm	216	241	283	305	403	419	457	502	572	610	660	711	813	864	914	914	965	1016	1016		
L2-RTJ	mm	191	203	216	241	279	305	343	368	394	419	445	470	521	559	610	610	710	762	711		
H	mm	400	490	510	585	795	1015	1230	1465	1755	2030	2210	2510	2880	2930	3150	3200	3450	3600	3735		
K	mm	200	200	250	300	350	350	400	450	500	500	600	750	750	915	915	915	1000	1000	1000		
Wt	RF	kg	18	28	30	50	85	128	220	310	450	550	700	810	1130	1680	2230	2780	2860	3050	3700	
	BW	kg	15	22	26	40	77	118	200	290	435	510	650	880	1100	1800	2200	2650	2950	3250	3520	
	RTJ	kg	20	29	37	56	84	138	210	310	450	565	740	927	1125	1700	2235	2800	2900	3070	3750	
300	Size	inch	2	2-1/2	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32	34	36	
	L-RF	mm	216	241	283	305	403	419	457	502	762	838	914	991	1143	1245	1346	1397	1524	1626	1727	
	L1-BW		232	257	298	321	419	435	473	518	778	854	930	1010	1165	1270	1372	1422	1553	1654	1756	
	H	mm	470	525	533	610	845	1050	1295	1600	1830	2035	2195	2470	2900	3100	3360	3650	3700	3750	3800	
	K	mm	200	200	250	300	350	350	400	450	500	500	600	750	750	915	915	915	1000	1000	1000	
	Wt	RF	kg	24	44	48	73	145	226	350	580	715	1050	1235	1655	2320	2860	3275	4230	4572	4850	5240
		BW		20	35	37	54	110	174	285	495	615	940	1090	1500	2100	2580	3300	4000	4350	4510	4895
RTJ		kg	20	35	37	54	110	174	285	495	615	940	1090	1500	2100	2580	3300	4000	4350	4510	4895	
600	Size	inch	2	2-1/2	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32	34	36	
	L-RF	mm	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1448	1549	1651	1778	1930	2083	
	L1-BW		295	333	359	435	562	664	791	841	892	994	1095	1200	1407	1461	1562	1664	1794	1946	2099	
	H	mm	495	550	615	735	1005	1245	1480	1730	1915	2050	2260	2620	2900	3075	3238	3600	3940	4250	4400	
	K	mm	200	250	300	350	450	500	600	750	850	850	960	960	1000	1000	1250	1250	1500	1650	1800	
	Wt	RF	kg	35	55	72	126	365	444	700	940	1310	1610	2070	2405	3810	4380	4910	5240	6835	7430	8800
		BW		32	47	64	103	218	374	570	830	1012	1217	1760	2000	3200	3970	4280	4875	5615	6630	7610
RTJ		kg	32	47	64	103	218	374	570	830	1012	1217	1760	2000	3200	3970	4280	4875	5615	6630	7610	
900	Size	inch	2	2-1/2	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32	34	36	
	L-RF	mm	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549							
	L1-BW		371	422	384	460	613	740	841	968	1038	1140	1232	1334	1568							
	H	mm	590	700	740	870	1120	1390	1592	1765	2025	2175	2510	2750	3240							
	K	mm	250	300	350	450	500	600	750	850	850	960	960	1000	1000							
	Wt	RF	kg	59	79	115	198	407	725	1091	2161	2161	3197	4409	6063	7937						
		BW		53	71	103	178	366	652	981	1945	1945	2877	3968	5456	7145						
RTJ		kg	53	71	103	178	366	652	981	1945	1945	2877	3968	5456	7145							
1500	Size	inch	2	2-1/2	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32	34	36	
	L-RF	mm	368	419	470	546	705	832	991	1130	1257	1384	1537	1664	1943							
	L1-BW		371	422	473	549	711	841	1000	1146	1276	1407	1559	1686	1972							
	L2-RTJ	mm	371	422	473	549	711	841	1000	1146	1276	1407	1559	1686	1972							
	H	mm	615	705	750	927	1190	1525	1855	2185	2215	2380	2580	2195	3400							

	K	mm	250	350	350	450	600	750	850	850	960	960	1000	1000	1250						
Wt	RF																				
	BW	kg	116	166	209	296	720	1275	2092	2951	4382	6355	8965	13100	15862						
	RTJ	kg	105	150	188	265	650	1145	1880	2655	3945	4752	8070	11790	14275						

Note:

on ~ larger valves, the stem net with ball bearing reduces operating torque for easy manual operation.

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