



GATE VALVE

STANDARDS

DESIGN AND MANUFACTURE:
API 600, API 602, BS 1414, BS 5352
VALVE INSPECTION AND TEST: API 598
FACE TO FACE DIMENSION: ASME B16.10
FLANGE CONNECTION DEMENSION: ASME B16.5
BW CONNECTION DEMENSION: ASME B16.25
PRESSURE-TEMPERATURE RATINGS: ASME B16.34

No	Part Name	STANDARD	LOW TEMPERATURE	STAINLESS STEEL
1	BODY	A216 WCB	A352 LCC	A351 CF8M
2	SEAT	A105	A350 LF2	A182 F316
3	WEDGE	A216 WCB	A352 LCC	A351 CF8M
4	STEM	A182 F6	A182 F6	A182 F316
5	GASKET	304/316+GRAPHITE		
6	BONNET	A216 WCB	A352 LCC	A351 CF8M
7	NUT	A194 2H	A194 7	A194 8
8	BOLT	A193 B7	A320 L7	A193 B8
9	BACKSEAT BUSHING	A182 F6	A182 F6	A182 F316
10	STEM PACKING	GRAPHITE		
11	GLAND	A182 F6	A352 LCC	A182 F316
12	GLAND FLANGE	A216 WCB	A216 WCB	A351 CF8M
13	GLAND NUT	A194 2H	A194 7	A194 8
14	GLAND EYEBOLT	A193 B7	A320 L7	A193 B8
15	NIPPLE	COPPER ALLOY	CARBON STEEL or ALLOY STEEL	
16	STEM NUT	A439 D2		
17	RETAINING NUT	CARBON STEEL or ALLOY STEEL		
18	HAND WHEEL	DUNCTILE IRON or STEEL		
19	H.W.LOCK NUT	CARBON STEEL or ALLOY STEEL		

* The materials are according to ASTM standard

* Other materials are available upon request

FACE TO FACE DIMENSIONS AND WEIGHTS

Class 150																			
DN NPS	15 1/2	25 1	40 1 1/2	50 2	65 2 1/2	80 3	100 4	125 5	150 6	200 8	250 10	300 12	350 14	400 16	450 18	500 20	600 24	750 30	900 36
RF (mm)	108	127	165	178	191	203	229	254	267	292	330	356	381	407	432	457	508	610	711
BW (mm)	108	127	165	216	241	283	305	381	403	419	457	502	572	610	660	711	813	915	1016
RTJ (mm)	119	140	178	191	203	216	241	267	279	305	343	368	394	419	445	470	521	622	724
RF(kg)	14	16	18	20	28	36	52	72	85	127	195	283	398	524	690	900	1135	2800	3820
BW(kg)	12	13	14	15	22	26	40	68	77	18	185	270	370	500	650	880	1100	2610	3600

Class 300																			
DN NPS	15 1/2	25 1	40 1 1/2	50 2	65 2 1/2	80 3	100 4	125 5	150 6	200 8	250 10	300 12	350 14	400 16	450 18	500 20	600 24		
RF (mm)	140	165	191	216	241	283	305	381	403	419	457	502	762	838	914	991	1143		
BW (mm)	140	165	191	216	241	283	305	381	403	419	457	502	762	838	914	991	1143		
RTJ (mm)	151	178	203	232	257	298	321	397	419	435	473	518	778	854	930	1010	1165		
RF(kg)	20	23	26	27	44	50	74	124	137	217	337	580	715	1050	1235	1655	2320		
BW(kg)	17	19	21	20	35	37	54	100	110	174	285	495	615	840	1090	1500	2100		

Class 600																			
DN NPS	15 1/2	20 3/4	25 1	40 1 1/2	50 2	65 2 1/2	80 3	100 4	150 6	200 8	250 10	300 12	350 14	400 16	450 18	500 20			
RF (mm)	165	190	216	241	292	330	356	432	559	660	787	838	889	991	1092	1194			
BW (mm)	165	190	216	241	292	330	356	432	559	660	787	838	889	991	1092	1194			
RTJ (mm)	165	190	216	241	295	333	359	435	562	664	790	841	892	994	1095	1200			
RF(kg)	23	24	26	32	40	55	70	123	245	426	700	940	1310	1610	2070	2405			
BW(kg)	20	21	23	28	32	47	64	103	218	374	570	830	1012	1217	1760	2000			

Class 900																			
DN NPS	15 1/2	20 3/4	25 1	40 1 1/2	50 2	65 2 1/2	80 3	100 4	150 6	200 8	250 10	300 12	350 14	400 16					
RF (mm)	216	229	254	305	368	419	381	457	610	737	838	965	1029	1130					
BW (mm)	216	229	254	305	368	419	381	457	610	737	838	965	1029	1130					
RTJ (mm)	216	229	254	305	371	422	384	460	613	740	841	968	1038	1140					
RF(kg)	26	28	30	34	95	128	155	192	378	635	900	1550	2170	3070					
BW(kg)	21	23	26	30	80	110	125	165	330	520	730	1300	1800	2650					

Class 1500																			
DN NPS	15 1/2	20 3/4	25 1	40 1 1/2	50 2	65 2 1/2	80 3	100 4	150 6	200 8	250 10	300 12	350 14	400 16	450 18				
RF (mm)	216	229	254	305	368	419	470	546	705	832	991	-	-	-	-				
BW (mm)	216	229	254	305	368	419	470	546	705	832	991	-	-	-	-				
RTJ (mm)	216	229	254	305	371	422	43	549	711	841	1000	-	-	-	-				
RF(kg)	27	29	30	34	95	128	181	275	627	1000	2200	-	-	-	-				
BW(kg)	23	25	26	30	80	110	145	220	560	850	1950	-	-	-	-				