



### TRUNNION BALL VALVE

#### STANDARDS

DESIGN AND MANUFACTURE:  
ASME B16.34, API 6D, BS 5351, API 608  
VALVE INSPECTION AND TEST: API 6D  
FACE TO FACE DIMENSION: ASME B16.10, API 6D  
FLANGE CONNECTION DIMENSION: ASME B16.5  
BW CONNECTION DIMENSION: ASME B16.25  
PRESSURE TEMPERATURE RATINGS: ASME B16.34

No	Part Name	STANDARD NACE(2002)	LOW TEMPERATURE NACE(2002)	STAINLESS STEEL NACE(2002)
1	BODY	A216 WCB	A352 LCC	A351 CF8M
2	BALL	A182 F316/304	A182 F316	A182 F316
		A105+ENP	A350 LF2+ENP	
3	SEALING RING	304/316+GRAPHITE		
4	SEAT RING	A182 F316	A182 F316	A182 F316
		A105+ENP	A350 LF2+ENP	
5	SPRING	INCONEL X750	INCONEL X750	INCONEL X750
6	THRUST WASHER	RPTFE	RPTFE	RPTFE
7	BEARING	1045+RPTFE	1045+RPTFE	304/316+RPTFE
8	GREASE FITTING	1025	1025	A182 F304
9	STUFFING BOX	A105+ENP	A350 LF2+ENP	A182 F316
10	SEALING RING	304/316+FLEXIBLE GRAPHITE		
11	STEM	A182 F316	A182 F316	A182 F316
		A105+ENP	A350 LF2+ENP	
12	SCREW	CARBON STEEL		
13	WORMGEAR	COMPONET		
14	CONNECTING PLATE	A216 WCB	A352 LCC	A351 CF8M
15	PACKING	GRAPHITE		
16	GREASE FITTING	1025	1025	A182 F316/304
17	O-RING	VITON		
18	O-RING	VITON		
19	CAP/ADAPTER	A216 WCB	A352 LCC	A351 CF8M
20	O-RING	VITON	VITON	VITON
21	SEALING RING	RPTFE		
22	NUT	A194 2HM	A194 7M	A194 8M
23	BOLT	A193 B7M	A320 L7M	A193 B8M
24	GASKET	304/316+GRAPHITE		
25	O-RING	VITON		
26	DRAIN AND PLUG	1025	1025	A182 F316/304
27	ADJUSTING RING	RPTFE	RPTFE	RPTFE
28	TRUNNION	A105+ENP	A350 LF2+ENP	A182 F316

\* The materials are according to ASTM standard

\* Other materials are available upon request

### FACE TO FACE DIMENSIONS AND WEIGHTS

Class 150																
DN NPS	100 4	125 5	150 6	200 8	250 10	300 12	350 14	400 16	450 18	500 20	600 24	650 26	700 28	750 30	800 32	900 36
RF (mm)	229	356	394	457	533	610	686	762	864	914	1067	1143	1245	1295	1372	1524
BW (mm)	305	381	457	521	559	635	762	838	914	991	1143	1245	1346	1397	1524	1727
Weight (kg)	60	80	101	166	283	463	622	900	1150	1360	2514	3200	4000	4800	5800	8000

Class 300																
DN NPS	100 4	125 5	150 6	200 8	250 10	300 12	350 14	400 16	450 18	500 20	600 24	650 26	700 28	750 30	800 32	900 36
RF (mm)	305	381	403	502	568	648	762	838	914	991	1143	1245	1346	1397	1524	1727
BW (mm)	305	381	457	521	559	635	762	838	914	991	1143	1245	1346	1397	1524	1727
Weight (kg)	70	95	128	234	403	602	803	1273	1450	1700	3100	4500	6000	7500	9000	12000

Class 600														
DN NPS	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)	292	330	356	432	508	559	660	787	838	889	991	1092	1194	1397
R J (mm)	295	333	359	435	511	562	664	791	841	892	994	1095	1200	1407
BW (mm)	292	330	356	432	508	559	660	787	838	889	991	1092	1194	1397
Weight (kg)	32	47	68	106	170	241	444	668	1050	1317	1800	2400	3000	5400

Class 900												
DN NPS	50 2	65 2 1/2	80 3	100 4	125 5	150 6	200 8	250 10	300 12	350 14	400 16	
RF (mm)	368	419	381	457	559	610	737	838	965	1029	1130	
R J (mm)	371	422	384	460	562	613	740	841	968	1038	1140	
BW (mm)	368	419	381	457	559	610	737	838	965	1029	1130	
Weight (kg)	45	55	94	141	230	325	580	850	1330	1660	2280	

Class 1500										
DN NPS	40 1 1/2	50 2	65 2 1/2	80 3	100 4	125 5	150 6	200 8	250 10	300 12
RF (mm)	305	368	419	470	546	673	705	832	991	1130
R J (mm)	305	371	422	473	549	676	711	841	1000	1146
BW (mm)	305	368	419	470	546	673	705	832	991	1130
Weight (kg)	44	67	80	130	192	335	475	820	1320	2050

Class 2500									
DN NPS	40 1 1/2	50 2	65 2 1/2	80 3	100 4	125 5	150 6	200 8	250 10
RF (mm)	384	451	508	578	673	794	914	1022	1270
R J (mm)	387	454	514	584	683	807	927	1038	1292
BW (mm)	384	451	508	578	673	794	914	1022	1270
Weight (kg)	72	104	140	202	305	530	760	1200	2080