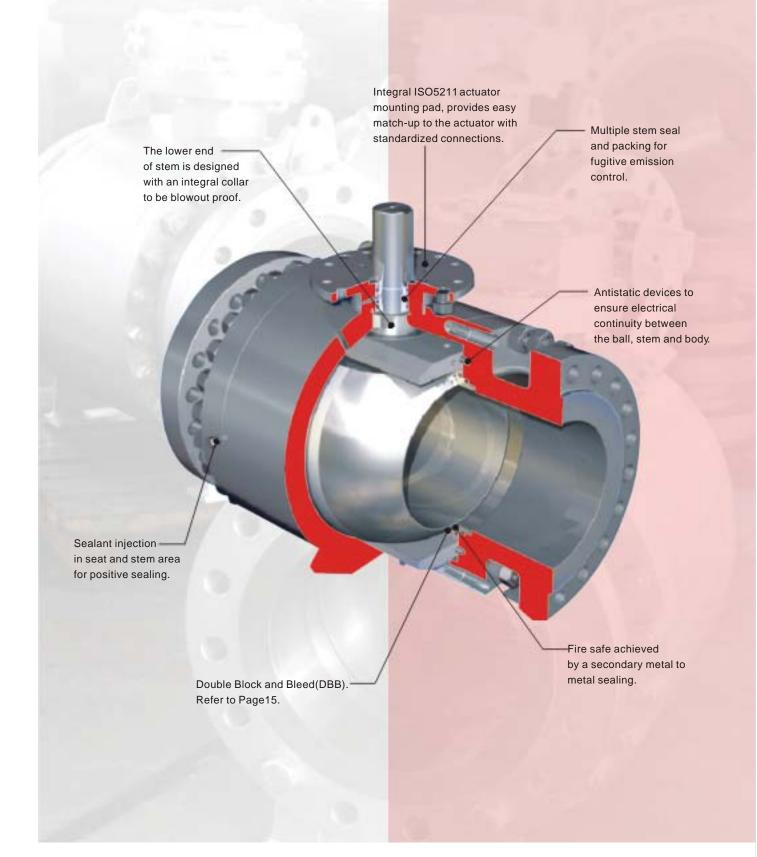
TRUNNION MOUNTED BALL VALVE

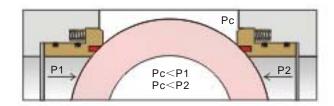


TRUNNION MOUNTED BALL VALVE DESIGN FEATURES

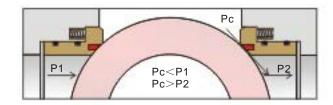


SEAT DESIGN FEATURE

Spring loaded metal seat with soft seat insert to maintain constant contact with the ball, assuring tight seal even at low pressure.



This design can also automatically relieve excess cavity pressure into the line when the cavity pressure exceeds line pressure.



DOUBLE BLOCK AND BLEED(DBB)

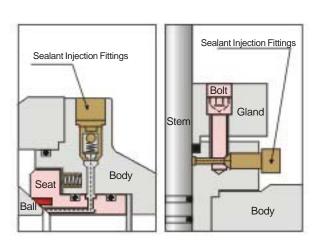
In the closed position, the spring loaded seat rings provides a positive seal against pressure from both ends of the valve, when the body cavity between the seating surfaces is vented through vent and drain valve. The drain valve can also be used to test for seat integrity.

Ρ

Valve in Closed Position

SEALANT INJECTION FITTINGS

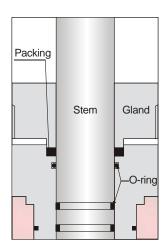
In the event of stem seal or seat insert damage, emergency sealant injection can keep the integrity of the valve by incorporating a sealant seal around the stem or between the seat and the ball.



TRUNNION MOUNTED BALL VALVE DESIGN FEATURES

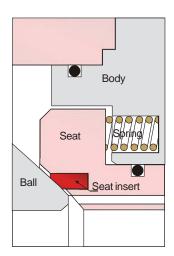
STEM SEAL DESIGN

Double O-ring seal prevent leakage from stem area.



FIRE SAFE DESIGN

A secondary metal to metal sealing shuts off the valve flow in the event of soft seat inserts are destroyed by fire. Fire tested to API 607 latest edition.

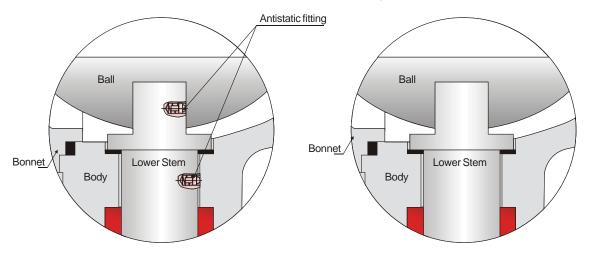


ANTISTATIC DESIGN

Antistatic devices to ensure electrical continuity between the ball, stem and body, to eliminate electrostatic charging during service.

ANTI-BLOWOUT DESIGN

The lower end of stem is designed with an integral collar to be blowout proof, assuring stem sealing at all pressures.



TRUNNION MOUNTED BALL VALVE 150LB



Features:

Trunnion Mounted Ball Type Split Body, End Entry 2-Piece or 3-piece Body Full Port for Pigging Operation Gear or Actuator Available

Applicable Standards:

Design: API 6D / API 608 / BS 5351 Wall Thickness: API 600 / BS 5351 Fire Safe: API 607 / API 6FA

Antistatic: API608

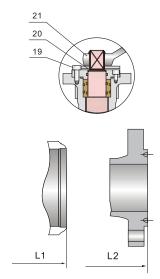
Face-to-face: ASME B16.10 / API 6D Flange Ends: ASME B16.5/B16.47 Butt-welding End: ASME B16.25 Testing: API 598 / API 6D

Materials of parts

No	Part Name		ASTM Material	
NO	Fait Name	Carbon Steel	Stainless Steel	Low Temp. Steel
1	Body	A216-WCB	A351-CF8M	A352-LCB
2	Bonnet	A216-WCB	A351-CF8M	A352-LCB
3	Ball	A182-F3041)	A182-F316	A182-F304 ¹⁾
4	Stem	A276-420	A276-316	A276-420
5	Seat	A105+ENP	A182-F316	A350-LF2+ENP
6	Seat Insert	PTFE,RF	PTFE,PPL,NYLON,PE	EK, etc.
7	Seat Spring	A276-304	Inconel X-750	A313-304
- 8	Seat O-Ring	NE	BR,EPDN,VITON, e	tc.
9	Stem O-Ring	NE	BR, EPDN, VITON, e	tc.
10	Bonnet Gasket	Graphite+3042)	Graphite+316 ²⁾	Graphite+3042)
11	Bonnet O-Ring	NE	BR,EPDN,VITON, e	tc.
12	Antistatic Spring	A276-304	A276-316	A276-304
13	Back Cover	A105	A182-F316	A350-LF2
14	Bonnet Bolt	A193-B7	A193-B8M	A320-L7
15	Bonnet Bolt Nut	A194-2H	A194-8M	A194-4
16	Trunnion	A276-420 ¹⁾	A276-316	A276-420 ¹⁾
17	Bearing	304+PTFE	316+PTFE	304+PTFE
18	Gland Flange	A216-WCB	A351-CF8M	A352-LCB
19	Gland Bolt	A193-B7	A193-B8	A193-B7
20	Stop Plate	Carbon Steel	Carbon Steel+Zn	Carbon Steel
21	Wrench		Carbon Steel	

Note: 1). A105+ENP optional 2). Spiral wound construction.

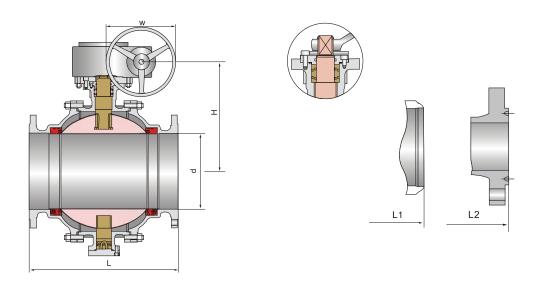
19 18 9 17 15 14 2 8 7 6 5 3 10 16 11 12 13



Dimensions data

NPS DN	2 50	2 ¹ / ₂ 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400	18 450	20 500	24 600	26 650	28 700	30 750	32 800	36 900	in mm
									ANSI (Class 1	50Lb								
L	7.00	7.50	8.00	9.00	15.50	18.00	21.00	24.00	27.00	30.00	34.00	36.00	42.00	45.00	49.00	51.00	54.00	60.00	in
(RF)	178	190	203	229	394	457	533	610	686	762	864	914	1067	1143	1245	1295	1372	1524	mm
L1	8.50	9.50	11.12	12.00	18.00	20.50	22.00	25.00	30.00	33.00	36.00	39.00	45.00	49.00	53.00	55.00	60.00	68.00	in
(BW)	216	241	283	305	457	521	559	635	762	838	914	991	1143	1245	1346	1397	1524	1727	mm
Н	7.00	7.50	8.25	9.25	20.88	24.62	25.62	30.75	31.00	36.25	38.25	43.38	45.25	50.75	55.12	64.12	70.88	80.75	in
	177	190	210	235	530	625	650	780	790	920	970	1100	1150	1290	1400	1630	1840	2050	mm
(d)	49	62	74	100	150	201	252	303	334	385	436	487	589	633	684	735	779	874	mm
W	14	16	20	20	24	24	24	24	32	32	32	32	32	32	32	32	32	32	in
	350	400	500	500	600	600	600	600	800	800	800	800	800	800	800	800	800	800	mm
WT	15	19	27	38	81	140	160	205	260	390	510	750	1200	1400	1860	2100	2530	2970	RF
(kg)	13.5	15.5	24.5	32.5	76	132	147	182	241	370	495	726	1125	1250	1640	1930	2390	2760	BW

TRUNNION MOUNTED BALL VALVE 300Lb~600Lb



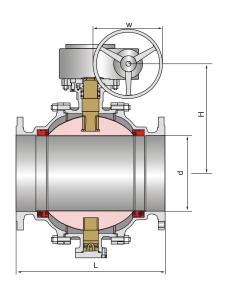
Dimensions data

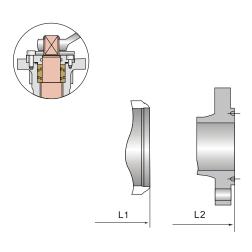
NPS DN	2 50	2 ¹ / ₂ 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400	18 450	20 500	24 600	26 650	28 700	30 750	32 800	in mm
								ANSI	Class 3	00Lb								
L	8.50	9.50	11.12	12.00	15.88	19.75	22.38	25.50	30.00	33.00	36.00	39.00	45.00	49.00	53.00	55.00	60.00	in
(RF)	216	241	283	305	403	502	568	648	762	838	914	991	1143	1245	1346	1397	1524	mm
L1	8.50	9.50	11.12	12.00	18.00	20.50	22.00	25.00	30.00	33.00	36.00	39.00	45.00	49.00	53.00	55.00	60.00	in
(BW)	216	241	283	305	457	521	559	635	762	838	914	991	1143	1245	1346	1397	1524	mm
н	7.00	7.50	8.25	9.25	20.88	24.62	56.62	30.75	31.00	36.25	38.25	43.38	45.25	50.75	55.12	64.12	70.88	in
	177	190	210	235	530	625	650	780	790	920	970	1100	1150	1290	1400	1630	1800	mm
(d)	49	62	74	100	150	201	252	303	334	385	436	487	589	633	684	735	779	mm
W	14	16	20	20	24	24	24	24	32	32	32	32	32	32	32	32	32	in
	350	400	500	500	600	600	600	600	800	800	800	800	800	800	800	800	800	mm
WT	19	24	34	48	101	175	200	255	325	485	635	935	1500	1750	2225	2450	2870	RF
(kg)	14	16	25	34	82	145	155	185	238	375	516	782	1280	1375	1825	2180	2260	BW

NPS DN	2 50	2 ¹ / ₂ 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400	18 450	20 500	24 600	26 650	28 700	in mm
							AN	ISI Clas	s 600Lb							
L/L1	11.50	13.00	14.00	17.00	22.00	26.00	31.00	33.00	35.00	39.00	43.00	47.00	55.00	57.00	61.00	in
(RF/BW)	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1448	1549	mm
L2	11.62	13.12	14.12	17.12	22.12	26.12	21.12	33.12	35.12	39.12	43.12	47.25	55.38	57.50	61.50	in
(RTJ)	295	333	359	435	562	664	791	841	892	994	1095	1200	1407	1461	1562	mm
Н	7.12	7.62	8.50	9.50	21.25	25.00	26.12	31.12	31.88	36.38	38.75	44.50	46.62	52.50	57.00	in
П	180	193	215	241	540	635	665	790	810	925	985	1130	1185	1335	1450	mm
(d)	49	62	74	100	150	201	252	303	334	385	436	487	589	633	684	mm
w	14	16	20	20	24	24	24	24	32	32	32	32	32	32	32	in
٧٧	350	400	500	500	600	600	600	600	800	800	800	800	800	800	800	mm
WT	26	35	58	81	142	287	540	780	1000	1300	1700	2100	3400	3800	4500	RF
(kg)	19	25	42	51	85	200	395	610	805	1010	1350	1656	2775	3125	3790	BW

CAST STEEL TRUNNION MOUNTED BALL VALVE 900Lb~2500Lb







Dimensions data

NPS DN	2 50	2 ¹ / ₂ 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400	18 450	20 500	24 600	in mm
						Α	NSI Class	s 900Lb						
L/L1	14.50	16.50	15.00	18.00	24.00	29.00	33.00	38.00	40.50	44.50	48.00	52.00	61.00	in
(RF/BW)	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549	mm
L2	14.62	16.62	15.12	18.12	24.12	29.12	33.12	38.12	40.88	44.88	48.50	52.50	61.75	in
(RTJ)	371	422	384	460	613	740	841	968	1038	1140	1232	1334	1568	mm
Н	8.62	9.25	10.25	15.38	25.75	30.25	31.75	38.00	38.50	45.00	47.00	53.50	56.00	in
''	219	235	260	390	655	770	805	965	980	1145	1195	1360	1425	mm
(d)	49	62	74	100	150	201	252	303	322	373	423	471	570	mm
١٨/	20	20	20	24	24	24	24	32	32	32	32	32	32	in
W	500	500	500	600	600	600	600	800	800	800	800	800	800	mm
WT	31	43	68	98	171	345	650	940	1205	1565	2050	2535	3950	RF
(kg)	23	31	51	61	102	240	480	735	965	1215	1625	1995	3335	BW

NPS DN	2 50	2 ¹ / ₂ 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400
			ANSI	Class '	1500Lk)				
L/L1	14.50	16.50	18.50	21.50	27.75	32.75	39.00	44.50	49.50	54.50
(RF)/(BW)	368	419	470	546	705	832	991	1130	1257	1384
L2	14.62	16.62	18.62	21.62	28.00	33.12	39.38	45.12	50.25	55.38
(RTJ)	371	422	473	549	711	841	1000	1146	1276	1407
Н	11.25	12.00	13.25	20.00	33.50	39.38	41.12	49.38	50.00	58.50
	285	306	338	506	852	1000	1045	1255	1270	1485
(d)	49	62	74	100	144	192	239	287	315	360
W	20	20	24	24	24	32	32	32	32	32
VV	500	500	600	600	600	800	800	800	800	800
WT	49	67	106	153	268	540	1020	1475	1885	2455
(kg)	33	44	73	87	145	345	685	1050	1385	1735

2 50	2 ¹ / ₂ 65	3 80	4 100	6 150	8 200	10 250	12 300	in mm
			ANS	l Class	s 2500	Lb		
17.75	20.00	22.75	26.50	36.00	40.25	50.00	56.00	in
451	508	578	673	914	1022	1270	1422	mm
17.88	21.25	23.00	26.88	36.50	40.88	50.88	56.88	in
454	514	584	683	927	1038	1292	1445	mm
12.00	12.88	14.25	21.25	35.88	42.12	44.00	53.00	in
304	327	362	540	911	1070	1120	1345	mm
42	52	62	87	131	179	223	265	mm
20	24	24	24	32	32	32	32	in
500	600	600	600	800	800	800	800	mm
55	76	120	173	302	612	1150	1665	RF/RTJ
41	55	91	110	182	430	855	1315	BW