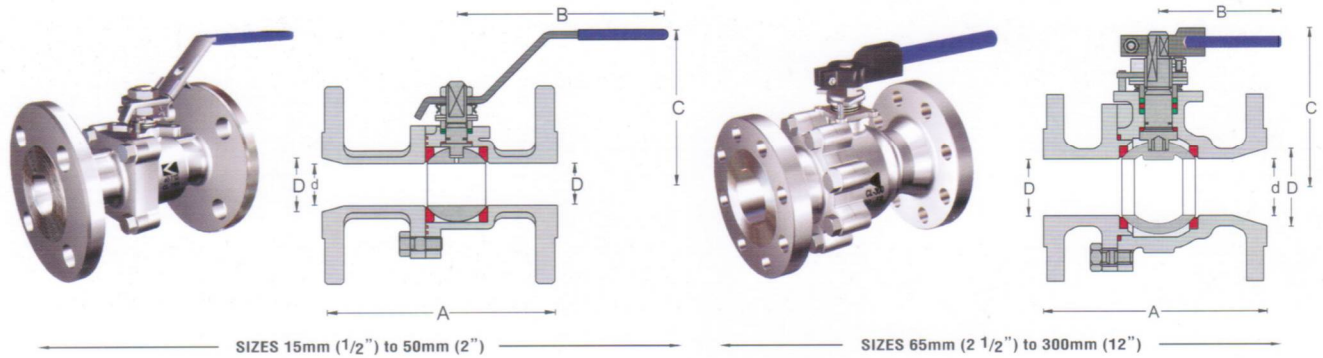


**FLOATING BALL VALVE
TWO PIECE,
REDUCED & FULL BORE**

TWO PIECE, REDUCED & FULL BORE



SIZES 15mm (1/2") to 50mm (2")

SIZES 65mm (2 1/2") to 300mm (12")

DESIGN STD : BS EN ISO 17292 (BS 5351) TESTING STD : EN 12266-1

Test Pressure in bar (psi)

Pressure rating	Class 150	Class 300	Class 600	Class 900	Class 1500
Hyd. Shell	30 (435)	76 (1102)	155 (2248)	236 (3422)	392 (5684)
Seat	REFER TECHNICAL DATA				
Air Seat	6.9 (100)				

SERIES

'K'R2 / 'K'F2 (Class 150)
'K'R2 / 'K'F2 (Class 300)

APPLICATIONS

- ▶ Chemical Process Plants
- ▶ Fertilizer Plants
- ▶ Dyes and Pigments
- ▶ Pesticides
- ▶ Caustic Chlorine Plants
- ▶ Hazardous Fluids
- ▶ Acids and Alkalies
- ▶ GAS

RB = REDUCED BORE

FB = FULL BORE

Dimensions are in mm (inch)

SIZE mm (inch)	A				C	d	D	Class 150		Class 300		Wt 1) Class 600		Class 900		Class 1500	
	150	300	600	900 & 1500				RB	FB	RB	FB	RB	FB	RB	FB	RB	FB
15 (1/2)	108 (4.3)	140 (5.5)	165 (6.5)	216 (8.5)	80 (3.1)	-	13 (0.5)	1.2 (2.6)	1.3 (3.0)	1.9 (4.2)	2.1 (4.6)	3.2 (7.1)	3.3 (7.3)	4.6 (10.1)	4.9 (10.8)	5.0 (11.0)	6.0 (13.2)
20 (3/4)	117 (4.6)	152 (6.0)	190 (7.5)	229 (9.0)	85 (3.3)	13 (0.5)	20 (0.8)	1.6 (3.5)	2.0 (4.4)	2.9 (6.4)	3.2 (7.1)	4.8 (10.6)	5.0 (11.0)	6.5 (14.3)	7.1 (15.7)	7.5 (16.5)	9.5 (20.9)
25 (1)	127 (5.0)	165 (6.5)	216 (8.5)	254 (10.0)	90 (3.5)	20 (0.8)	25 (1.0)	2.3 (5.1)	2.7 (6.0)	3.9 (8.6)	4.3 (9.5)	6.5 (14.3)	6.7 (14.8)	8.8 (19.4)	13.0 (28.7)	10.0 (22.0)	14.0 (30.9)
32 (1 1/4)	140 (5.5)	178 (7.0)	229 (9.0)	280 (11.0)	105 (4.1)	25 (1.0)	32 (1.3)	3.4 (7.5)	3.8 (8.4)	5.2 (11.5)	5.8 (12.8)	8.4 (18.5)	9.0 (19.8)	12.5 (27.6)	21.0 (46.3)	16.0 (35.3)	23.0 (50.7)
40 (1 1/2)	165 (6.5)	190 (7.5)	241 (9.5)	305 (12.0)	110 (4.3)	32 (1.3)	38 (1.5)	4.8 (10.6)	5.0 (11.0)	7.5 (16.5)	8.1 (18.0)	13.0 (28.7)	14.0 (30.9)	20.0 (44.1)	28.0 (61.7)	23.0 (50.7)	29.0 (63.9)
50 (2)	178 (7.0)	216 (8.5)	292 (11.5)	368 (14.5)	135 (5.3)	38 (1.5)	50 (2.0)	6.8 (15.0)	8.2 (18.1)	9.3 (20.5)	10.8 (23.8)	16.0 (35.3)	21.0 (46.3)	27.0 (59.5)	31.0 (68.3)	32.0 (70.5)	-
65 (2 1/2)	190 (7.5)	241 (9.5)	330 (13.0)	419 (16.5)	155 (6.1)	50 (2.0)	64 (2.5)	10.5 (23.1)	15.5 (34.1)	13.5 (29.8)	21.5 (47.4)	25.0 (55.1)	30.0 (66.1)	40.0 (88.2)	50.0 (110.2)	-	-
80 (3)	203 (8.0)	283 (11.1)	356 (14.0)	-	170 (6.7)	58 (2.3)	76 (3.0)	16.5 (36.0)	18.5 (40.8)	24.5 (54.0)	30.0 (66.1)	33.0 (72.8)	38.0 (83.8)	-	-	-	-
100 (4)	229 (9.0)	305 (12.0)	432 (17.0)	-	205 (8.1)	76 (3.0)	98 (3.9)	24.0 (53.0)	32.0 (70.5)	40.0 (88.2)	50.0 (110.0)	65.0 (143.3)	90.0 (198.4)	-	-	-	-
125 (5)	254 (10)	381 (15)	-	-	226 (8.9)	127 (5.0)	98 (3.9)	33.0 (72.7)	50.0 (110.2)	-	98.0 (216.0)	-	-	-	-	-	-
150 (6)	267 (10.5)	403 (15.9)	559 (22.0)	-	★	98 (3.9)	152 (6.0)	40.0 (88.0)	58.0 (128.0)	68.0 (150.0)	139.0 (306.0)	85.0 (187.4)	-	-	-	-	-
200 (8)	292 (11.5)	419 (16.5)	-	-	★	144 (5.7)	203 (8.0)	73.0 (161.0)	95.0 (209.0)	152.0 (335.0)	226.0 (278.0)	-	-	-	-	-	-
250 (10)	330 (13.0)	457 (18.0)	-	-	★	187 (7.4)	250 (9.8)	122.0 (269.0)	153.0 (337.0)	194.0 (428.0)	275.0 (606.0)	-	-	-	-	-	-
300 (12)	356/610 ² (14/24 ²)	502 (19.8)	-	-	★	228 (9.0)	300 (11.8)	146.0 (322.0)	290.0 (638.0)	271.0 (597.0)	-	-	-	-	-	-	-

Materials

Body / End piece	Carbon Steel ASTM A216 Gr. WCB / Stainless Steel ASTM A351 Gr. CF8 / CF8M / CF3 / CF3M / CN7M / Duplex
Ball / Stem	Stainless Steel ASTM A217 Gr. CA15 / ASTM A351 Gr. CF8 / CF8M / CN7M / ASTM A276 Type 410 / 304 / 316 / Duplex
Seat	PTFE / CFT / GFT / DELRIN / NYLON / PEEK / TFM / METAL
Stem Washer	GFT / Grafoil
Stem Seal / Body Seal	Grafoil
Lever	Steel
Body Studs / Nuts	ASTMA193 Gr. B7/ ASTM A194 Gr. 2H
Surface Protection for Carbon	Base Phosphating. Additional External Coating : Smoke Grey Synthetic Enamel
Steel Valves	

1) Nett in Kg. (lbs) approx. (without obligation) 2) Dimension 'A' For FB. ★ Worm Gear operated. ▶ For dimensions 'B' refer sales drgs. ▶ Valves can be supplied to suit ASME / BS / DIN Flanges. ▶ Valves can be supplied with Pad - lock, Electric, Pneumatic or Gear Actuators and accessories like Limit Switch, Solenoid Valve, Air Filter Regulator etc. ▶ Actuator Bracket Mounting as per ISO 5211. ▶ Please Specify Working Pressure, Temperature & Service conditions. ▶ Other materials not mentioned above available on request.

Cv VALUE

SIZE mm (inch)	10 (3/8)	15 (1/2)	20 (3/4)	25 (1)	32 (1 1/4)	40 (1 1/2)	50 (2)	65 (2 1/2)	80 (3)	100 (4)	125 (5)	150 (6)	200 (8)	250 (10)	300 (12)
RB	8	10	15	35	58	91	115	272	303	542	780	970	2300	3375	5538
FB	8	20	42	88	142	210	396	615	1099	2171	3500	5200	9418	15170	24900

BREAK AWAY TORQUE VALUE FOR SOFT SEATED Nm (ft. lbs.)

SIZE mm (inch)	10 (3/8)	15 (1/2)	20 (3/4)	25 (1)	32 (1 1/4)	40 (1 1/2)	50 (2)	65 (2 1/2)	80 (3)	100 (4)	125 (5)	150 (6)	200 (8)	250 (10)	300 (12)	
20 (290)	RB	3.0 (2.2)	3.0 (2.2)	3.0 (2.2)	5.5 (4.0)	11.0 (8.1)	13.0 (9.6)	18.5 (13.6)	33.0 (24.4)	46.0 (33.9)	81.0 (59.8)	120.0 (88.5)	166.0 (122.5)	350.0 (258.3)	540.0 (398.5)	945.0 (697.4)
	FB	3.0 (2.2)	3.0 (2.2)	6.0 (4.4)	7.5 (5.5)	14.0 (10.3)	18.5 (13.6)	31.0 (22.8)	58.0 (42.8)	83.0 (61.3)	141.0 (104.1)	152.0 (112.0)	324.0 (239.1)	540.0 (398.5)	945.0 (697.4)	2340.0 (1727.0)
50 (725)	RB	3.5 (2.6)	3.5 (2.6)	3.5 (2.6)	7.5 (5.5)	13.0 (9.6)	14.0 (10.3)	22.0 (16.2)	59.0 (43.5)	79.0 (58.3)	107.0 (78.9)	147.0 (108.4)	166.5 (122.5)	570.0 (420.6)	980.0 (723.2)	-
	FB	3.5 (2.6)	3.5 (2.6)	7.5 (5.5)	10.5 (7.7)	19.5 (14.4)	22.0 (16.2)	46.0 (33.9)	87.0 (64.2)	109.0 (80.4)	167.0 (123.2)	440.0 (324.5)	490.0 (361.6)	970.0 (715.8)	-	-
70 (1102)	RB	6.0 (4.4)	6.0 (4.4)	6.0 (4.4)	10.0 (7.4)	-	-	-	-	-	-	-	-	-	-	-
	FB	7.0 (5.2)	7.0 (5.2)	11.0 (8.1)	-	-	-	-	-	-	-	-	-	-	-	-

■ FOR RE-INFORCED PTFE SEAT MULTIPLY ABOVE VALUES BY 1.2, FOR METAL SEAT BY 2.25 & PEEK SEAT BY 2.5

HYDRO TEST PRESSURE IN Kg/Cm² (psi)

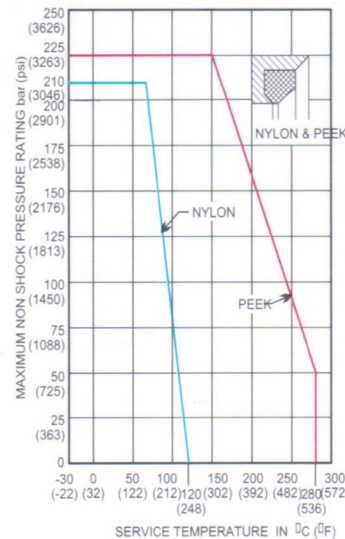
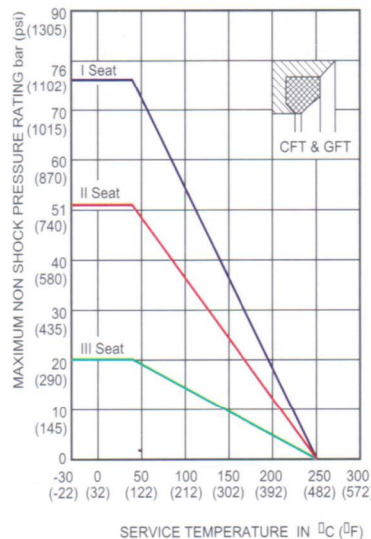
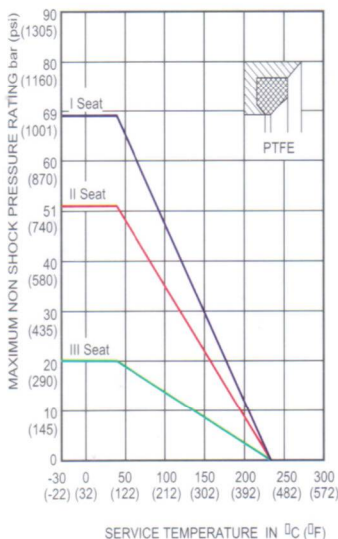
EN 12266 -1

SIZE mm (inch)	Materials*	I			II			III			I, II & III Class 600 & 800
		Class 150	Class 300	Class 150	Class 300	Class 150	Class 300				
8 (1/4)	TO	50 (327)	23 (166)	59 (430)	22 (160)	57 (416)	18 (132)	48 (353)	69*/76** (505/552)		
65 (2 1/2)	TO	100 (725)	23 (166)	51 (371)	22 (160)	51 (371)	18 (132)	48 (353)	51 (371)		
125 (6)	TO	300 (2175)	20 (147)	20 (147)	20 (147)	20 (147)	18 (132)	20 (147)	20 (147)		

- Materials
- I) WCB, WC6, WC9, LCC
- II) CF3, CF8, CF3M, CF8M, CF8C, LCB
- III) CN7M

■ For API 6D Valves, Testing shall be carried out at full rated pressure. ★ PTFE ★★ RPTFE

PRESSURE TEMPERATURE RATING



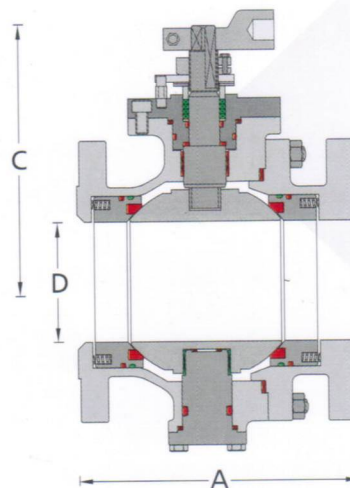
Seat Symbol	Nominal Valve Size	PTFE, CFT & GFT
I	8 (1/4) To 50 (2)	
II	65 (2 1/2) To 100 (4)	
III	125 (5) To 300 (12)	

- FEATURES**
- Fire Safe :
 - API 6FA - III Edition
 - API 607 - V Edition
 - Anti Static
 - Anti Blow Out Stem
 - Fugitive Emission
 - Cavity Pressure Relief
 - Pressure Temperature Rating : ASME B16.34
 - Compliant To API 608 Also



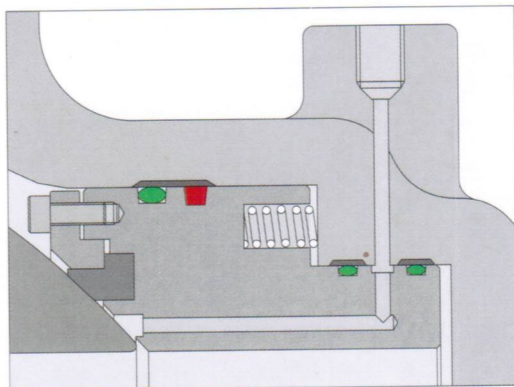
TRUNNION MOUNTED BALL VALVES

TRUNNION MOUNTED BALL VALVES



← TWO PIECE - CAST →

SPRING LOADED SEATS AND SEALANT INJECTION FEATURE



STANDARDS

DESIGN : API 6D, BS EN ISO 17292 (BS 5351), ASME B16.34, API 608
TESTING : API 6D, API 598, EN 12266-1, ASME B16.34

SERIES

'K' TR = Two Piece - Trunnion Mounted Reduced Bore
'K' TF = Two Piece - Trunnion Mounted Full Bore

APPLICATIONS

- ▶ Chemical Process Plants
- ▶ Fertilizer Plants
- ▶ Pesticides
- ▶ Caustic Chlorine Plants
- ▶ Hazardous Fluids
- ▶ Acids and Alkalies
- ▶ Oil, Gas & Petrochemical Industries

FEATURES

- Fire Safe
- Anti Static
- Anti Blow Out
- Double Block & Bleed
- Vent & Drain
- Cavity Pressure Relief
- Spring Loaded Seats
- Sealant Injection
- Fugitive Emission

MATERIALS

Body / End piece	Carbon Steel ASTM A216 Gr. WCB, A352 Gr. LCB, Stainless Steel ASTM A351 Gr. CF8 / CF8M / CN7M / Duplex
Ball	Carbon Steel ASTM A216 Gr. WCB+ENP / Stainless Steel ASTM A217 Gr. CA15 / ASTM A351 Gr. CF8 / CF8M / CN7M / Duplex
Stem / Trunnion	Stainless Steel ASTM A564 TYPE 630 (17-4PH) / ASTM A276 Type 410 Hardened / UNS S31803
Seat / Seat Insert	PTFE / RPTFE / DELRIN / NYLON / PEEK / METAL
Metal Seat	Stainless Steel ASTM A276 Type 410 Hardened / ASTM A276 Type 316 Stellite
Seat Retainer	ASTM A217 Gr. CA15 / ASTM A351 Gr. CF8 / CF8M / CN7M / Duplex
Coil Spring	INCONEL X-750
'O' Ring	Viton Gr. B
Stem Seal	Grafoil
Stem Washer	RPTFE / Grafoil
Body Seal	SPIRAL WOUND SS With Graphite filler
Trunnion. / Stuffing Box Seal	PTFE / Grafoil / SPIRAL WOUND SS With Graphite filler
Stuffing Box	Carbon Steel ASTM A216 Gr. WCB, A352 Gr. LCB, Stainless Steel ASTM A351 Gr. CF8 / CF8M / CN7M / Duplex
Stuf. Box & Trunnion Bearing	SS Backed PTFE
Gland Nut	Stainless Steel
Body Stud / Nut	ASTM A193 Gr. B7, ASTM A194 Gr. 2H / ASTM A320 Gr. L7, ASTM A194 Gr. 7
Surface Protection for Carbon Steel Valves	Prime coat : Chlorine free with modified alkyd resin unobjectionable in Physiological and Toxicological respects with additional external coating of Machine varnish Smoke Gray

- Other Materials not mentioned above are available on request.
- Other Ball Materials with Electro Nickel Plating (ENP) available on request.

TWO PIECE DIMENSIONS

Dimensions are in mm (inch)

SIZE mm (Inch)	A			C						D	
	Class 150	Class 300	Class 600	Class 150		Class 300		Class 600		RB	FB
				RB	FB	RB	FB	RB	FB	RB	FB
50 (2)	178 (7.0)	216 (8.5)	292 (11.5)	100 (3.9)	135 (5.3)	170 (6.7)	135 (5.3)	140 (5.5)	180 (7.1)	38 (1.5)	50 (2.0)
65 (2 1/2)	190 (7.5)	241 (9.5)	330 (13.0)	135 (5.3)	155 (6.1)	185 (7.3)	155 (6.1)	180 (7.1)	190 (7.5)	50 (2.0)	62 (2.4)
80 (3)	203 (8.0)	283 (11.1)	356 (14.0)	150 (5.9)	170 (6.7)	210 (8.3)	170 (6.7)	190 (7.5)	210 (8.3)	55 (2.2)	76 (3.0)
100 (4)	229 (9.0)	305 (12.0)	432 (17.0)	170 (6.7)	205 (8.1)	230 (9.1)	512 (20.2)	420 (16.5)	585 (23.0)	76 (3.0)	98 (3.9)
150 (6)	267 ¹⁾ (10.5)	403 (15.9)	559 (22.0)	205 (8.1)	525 (20.7)	675 (26.6)	610 (24.0)	585 (23.0)	685 (27.0)	98 (3.9)	150 (5.9)
200 (8)	292 ¹⁾ (10.5)	502 (19.8)	660 (26.0)	490 (19.3)	675 (26.6)	745 (29.3)	684 (26.9)	685 (27.0)	895 (35.2)	150 (5.9)	200 (7.9)
250 (10)	330 ¹⁾ (13.0)	568 (22.4)	787 (31.0)	630 (24.8)	695 (27.4)	738 (29.0)	740 (29.1)	905 (35.6)	960 (37.8)	187 (7.4)	252 (9.9)
300 (12)	356 ¹⁾ (14.0)	648 (25.5)	838 (33.0)	700 (27.6)	755 (29.7)	810 (31.9)	808 (31.8)	975 (38.4)	980 (38.6)	228 (9.0)	305 (12.0)
350 (14)	686 (27.0)	762 (30.0)	889 (35.0)	725 (28.5)	865 (34.1)	855 (33.7)	879 (34.6)	995 (39.2)	1050 (41.3)	266 (10.4)	335 (13.2)
400 (16)	762 (30.0)	838 (33.0)	991 (39.0)	810 (31.9)	935 (36.8)	950 (37.4)	968 (38.1)	1050 (41.3)	1125 (44.3)	305 (12.0)	385 (15.2)
450 (18)	864 (34.0)	914 (36.0)	1092 (43.0)	980 (38.6)	1105 (43.5)	1025 (40.4)	1092 (43.0)	1075 (42.3)	1200 (47.2)	335 (13.2)	436 (17.2)
500 (20)	914 (36.0)	991 (39.0)	1194 (47.0)	1050 (41.3)	1180 (46.5)	1085 (42.7)	1220 (48.0)	1125 (44.3)	1350 (53.1)	385 (15.2)	487 (19.2)
600 (24)	1067 (42.00)	1143 (45.0)	1397 (55.0)	1190 (46.9)	1420 (55.9)	1165 (45.9)	1340 (52.8)	1350 (53.1)	1450 (57.1)	487 (19.2)	589 (23.2)
750 (30)	1295 (51.0)	1397 (55.0)	1651 (65.0)	1450 (57.1)	1650 (65.0)	1550 (61.0)	1800 (70.9)	1580 (62.2)	1650 (65.0)	633 (24.9)	735 (28.9)

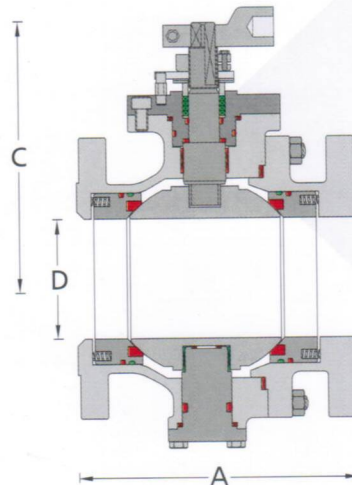
Dimensions are in mm (inch)

SIZE mm (Inch)	A		C				D	
	Class		Class 900		Class 1500		RB	FB
	900	1500	RB	FB	RB	FB	RB	FB
50 (2)	368 (14.5)	368 (14.5)	247 (9.7)	450 (17.7)	247 (9.7)	450 (17.7)	38 (1.5)	50 (2.0)
65 (2 1/2)	419 (16.5)	419 (16.5)	425 (16.7)	475 (18.7)	425 (16.7)	475 (18.7)	50 (2.0)	62 (2.4)
80 (3)	381 (15.0)	470 (18.5)	450 (17.7)	575 (22.6)	550 (21.7)	650 (25.6)	62 (2.4)	76/74 ²⁾ (3.0/2.9)
100 (4)	457 (18.0)	546 (21.5)	457 (18.0)	600 (23.6)	650 (25.6)	725 (28.5)	76/74 ²⁾ (3.0/2.9)	100 (3.9)
150 (6)	610 (24.0)	705 (27.8)	575 (22.6)	750 (29.5)	725 (28.5)	900 (35.4)	100 (3.9)	150/144 ²⁾ (5.9/5.7)
200 (8)	737 (29.0)	832 (32.8)	730 (28.7)	850 (33.5)	900 (35.4)	950 (37.4)	150/144 ²⁾ (5.9/5.7)	201/192 ²⁾ (7.9/7.6)
250 (10)	838 (33.0)	991 (39.0)	810 (31.9)	950 (37.4)	950 (37.4)	1075 (42.3)	201/192 ²⁾ (7.9/7.6)	252/239 ²⁾ (9.9/9.4)
300 (12)	965 (38.0)	1130 (44.5)	870 (34.3)	1150 (45.3)	1075 (42.3)	1225 (48.2)	252/239 ²⁾ (9.9/9.4)	305/287 ²⁾ (12.0/11.3)
350 (14)	1029 (40.5)	-	975 (38.4)	1125 (44.3)	-	-	252 (9.9)	322 (12.7)
400 (16)	1130 (44.5)	-	1200 (47.2)	1325 (52.2)	-	-	305 (12.0)	373 (14.7)

● RB = REDUCED BORE ● FB = FULL BORE

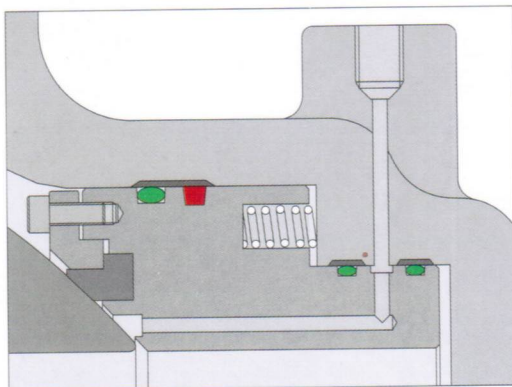
1) Long Pattern for Full Bore & Sealant Injection System. 2) Dimension 'D' for Class 1500. ■ Lever Operation for size 50mm (2") to 100mm (4") Class 150 & 300, size 50mm (2") to 80mm (3") Class 600 & size 50mm (2") Class 1500. ■ Rest sizes Worm Gear Operated. ■ Flanged Ends according to ASME B16.5; other drillings on request. ■ Butt Weld Ends according to ASME B16.25. ■ Please Specify Working Pressure, Temperature & Service conditions. ■ Valves can be supplied with Padlock, Electric, Pneumatic or Gear Actuators & other accessories like Limit Switch, Solenoid Valve, Air Filter Regulator, Positioner etc.

TRUNNION MOUNTED BALL VALVES



← TWO PIECE - CAST →

SPRING LOADED SEATS AND SEALANT INJECTION FEATURE



STANDARDS

DESIGN : API 6D, BS EN ISO 17292 (BS 5351), ASME B16.34, API 608
TESTING : API 6D, API 598, EN 12266-1, ASME B16.34

SERIES

'K' TR = Two Piece - Trunnion Mounted Reduced Bore
'K' TF = Two Piece - Trunnion Mounted Full Bore

APPLICATIONS

- ▶ Chemical Process Plants
- ▶ Fertilizer Plants
- ▶ Pesticides
- ▶ Caustic Chlorine Plants
- ▶ Hazardous Fluids
- ▶ Acids and Alkalies
- ▶ Oil, Gas & Petrochemical Industries

FEATURES

- Fire Safe
- Anti Static
- Anti Blow Out
- Double Block & Bleed
- Vent & Drain
- Cavity Pressure Relief
- Spring Loaded Seats
- Sealant Injection
- Fugitive Emission

MATERIALS

Body / End piece	Carbon Steel ASTM A216 Gr. WCB, A352 Gr. LCB, Stainless Steel ASTM A351 Gr. CF8 / CF8M / CN7M / Duplex
Ball	Carbon Steel ASTM A216 Gr. WCB+ENP / Stainless Steel ASTM A217 Gr. CA15 / ASTM A351 Gr. CF8 / CF8M / CN7M / Duplex
Stem / Trunnion	Stainless Steel ASTM A564 TYPE 630 (17-4PH) / ASTM A276 Type 410 Hardened / UNS S31803
Seat / Seat Insert	PTFE / RPTFE / DELRIN / NYLON / PEEK / METAL
Metal Seat	Stainless Steel ASTM A276 Type 410 Hardened / ASTM A276 Type 316 Stellite
Seat Retainer	ASTM A217 Gr. CA15 / ASTM A351 Gr. CF8 / CF8M / CN7M / Duplex
Coil Spring	INCONEL X-750
'O' Ring	Viton Gr. B
Stem Seal	Grafoil
Stem Washer	RPTFE / Grafoil
Body Seal	SPIRAL WOUND SS With Graphite filler
Trunnion / Stuffing Box Seal	PTFE / Grafoil / SPIRAL WOUND SS With Graphite filler
Stuffing Box	Carbon Steel ASTM A216 Gr. WCB, A352 Gr. LCB, Stainless Steel ASTM A351 Gr. CF8 / CF8M / CN7M / Duplex
Stuf. Box & Trunnion Bearing	SS Backed PTFE
Gland Nut	Stainless Steel
Body Stud / Nut	ASTM A193 Gr. B7, ASTM A194 Gr. 2H / ASTM A320 Gr. L7, ASTM A194 Gr. 7
Surface Protection for Carbon Steel Valves	Prime coat : Chlorine free with modified alkyd resin unobjectionable in Physiological and Toxicological respects with additional external coating of Machine varnish Smoke Gray

- Other Materials not mentioned above are available on request.
- Other Ball Materials with Electro Nickel Plating (ENP) available on request.

BREAK AWAY TORQUE VALUE FOR SOFT SEATED Nm (ft. lbs.)

SIZE mm (Inch)	← Class 150 →		← Class 300 →		← Class 600 →		← Class 900 →		← Class 1500 →	
	20 bar (290 psi) RB	FB	50 bar (725 psi) RB	FB	100 bar (1450 psi) RB	FB	150 bar (2176 psi) RB	FB	250 bar (3626 psi) RB	FB
50 (2)	24 (17.7)	40 (29.5)	40 (29.5)	60 (44.3)	115 (84.9)	145 (107.0)	190 (140.2)	240 (177.1)	230 (169.7)	310 (228.8)
65 (2 1/2)	40 (29.5)	62 (45.8)	60 (44.3)	95 (70.1)	145 (107.0)	170 (125.5)	240 (177.1)	290 (214.0)	310 (228.8)	380 (280.4)
80 (3)	62 (45.8)	74 (54.6)	90 (66.4)	115 (84.9)	170 (125.5)	250 (184.5)	290 (214.0)	720 (531.4)	380 (280.4)	1100 (811.8)
100 (4)	74 (54.6)	148 (109.2)	115 (84.9)	240 (177.1)	260 (191.9)	890 (656.8)	720 (531.4)	1850 (1365.3)	1100 (811.8)	2850 (2103.3)
150 (6)	148 (109.2)	324 (239.1)	240 (177.1)	670 (494.5)	840 (317.5)	2100 (1549.8)	1850 (1365.3)	3800 (2804.4)	2850 (2103.3)	4700 (3468.6)
200 (8)	324 (239.1)	640 (472.3)	670 (494.5)	1240 (915.1)	2050 (1512.9)	2960 (2184.5)	3800 (2804.4)	5100 (3763.8)	4700 (3468.6)	5900 (4354.2)
250 (10)	640 (472.3)	696 (513.6)	1240 (915.1)	1380 (1018.4)	3050 (2250.9)	3350 (2472.3)	5100 (3763.8)	5900 (4354.2)	5900 (4354.2)	6950 (5129.1)
300 (12)	696 (513.6)	1050 (774.9)	1300 (959.4)	1540 (1136.5)	3780 (2789.6)	4100 (3025.8)	5900 (4354.2)	7100 (5239.8)	6950 (5129.1)	11800 (8708.4)
350 (14)	1030 (760.1)	1790 (1321.0)	1380 (1018.4)	3180 (2346.8)	4300 (3173.4)	5100 (3763.8)	7100 (5239.8)	12800 (9446.4)	-	-
400 (16)	1280 (944.6)	2510 (1852.4)	1540 (1136.5)	4050 (2988.9)	5050 (3726.9)	5670 (4184.5)	12800 (9446.4)	16780 (12383.6)	-	-
450 (18)	1790 (1321.0)	2980 (2199.2)	3180 (2346.8)	5800 (4280.4)	6600 (4870.8)	12650 (9335.7)	-	-	-	-
500 (20)	2510 (1852.4)	4250 (3136.5)	4050 (2988.9)	7420 (5476.0)	12650 (9335.7)	17200 (12693.6)	-	-	-	-
600 (24)	4250 (3136.5)	8800 (6494.4)	7420 (5476.0)	15200 (11217.6)	17200 (12693.6)	32000 (23616.0)	-	-	-	-
750 (30)	-	18680 (13785.8)	-	27600 (20368.8)	-	41940 (30951.7)	-	-	-	-

HYDRO TEST PRESSURES

BS EN ISO 17292 (BS 5351), API 608 Seat Test Pressure in Bar (psi) As Per The Material Shown Below

I		II		III		I, II & III
Class 150	Class 300	Class 150	Class 300	Class 150	Class 300	Class 600
22 (339)	51 (740)	21 (305)	51 (740)	18 (261)	48 (696)	51 (740)

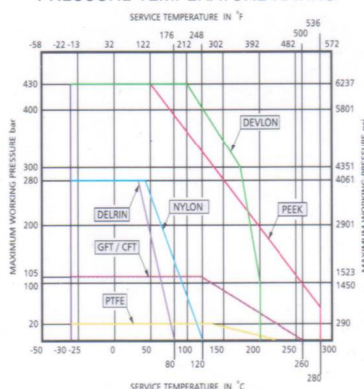
- Materials**
- I) WCB, WC6, WC9, LCC, Duplex SS, WCC
 - II) CF3, CF8, CF3M, CF8M, CF8C, LCB
 - III) CN7M, Hast-B, Hast-C

API 6D / ASME B16.34 in Bar (psi)

Pressure rating	Class 150	Class 300	Class 600	Class 900	Class 1500
Shell	30 (435)	78 (1131)	153 (2219)	229 (3321)	380 (5511)
Seat	22 (319)	56 (812)	112 (1624)	169 (2451)	281 (4075)
Air Seat	7 (102)				

- Torque values are with PTFE seat for Class 150 TO 600. For re-inforced PTFE seat multiply above values by 1.2, For Nylon seat by 1.5, for Metal & Peek seat by 2.0
- Torque values are with Nylon seat for Class 900 & 1500. For Metal & Peek seat multiply the above values by 2.0
- PTFE / RPTFE Seat not available in Class 900 & 1500.
- For BS EN ISO 17292 (BS 5351) Valves, Shell & Air Seat Test shall be according to ASME B16.34
- Metal Seated Valves are tested for full rated pressure
- Leakage Rate : Soft Seat : Class VI (100% Tight shut-off), Metal Seat : Class V
- Fire Safe : As Per API 607 & 6FA

PRESSURE TEMPERATURE RATING



FLOW CHARACTERISTIC

