

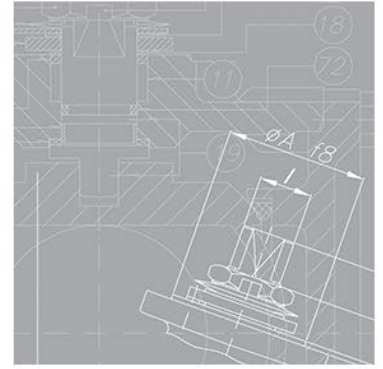
Technical Datasheet

ANSI Ball Valves

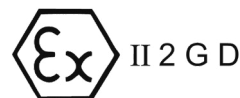
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FUGITIVE
EMISSIONS
EN-ISO 15848-1
TALUFT / VDI 2440



- Valve design: Reduced Bore API 6D / EN ISO 17292
- Body design: ASME VIII Div.1
- Shell thickness: ASME B16.34
- Flanges: ASME B16.5 Raised Face
- Face to face dimensions: ASME B16.10 Short Pattern
- Marking: CE - PED / MSS SP-25 / API 6D
- Pressure testing: API 598 - API 6D
- ISO 5211
- Shell finishing quality: MSS SP-55
- NACE MR0175 / ISO 15156 - NACE MR0103 / ISO 17945

Certifications

Company Certifications

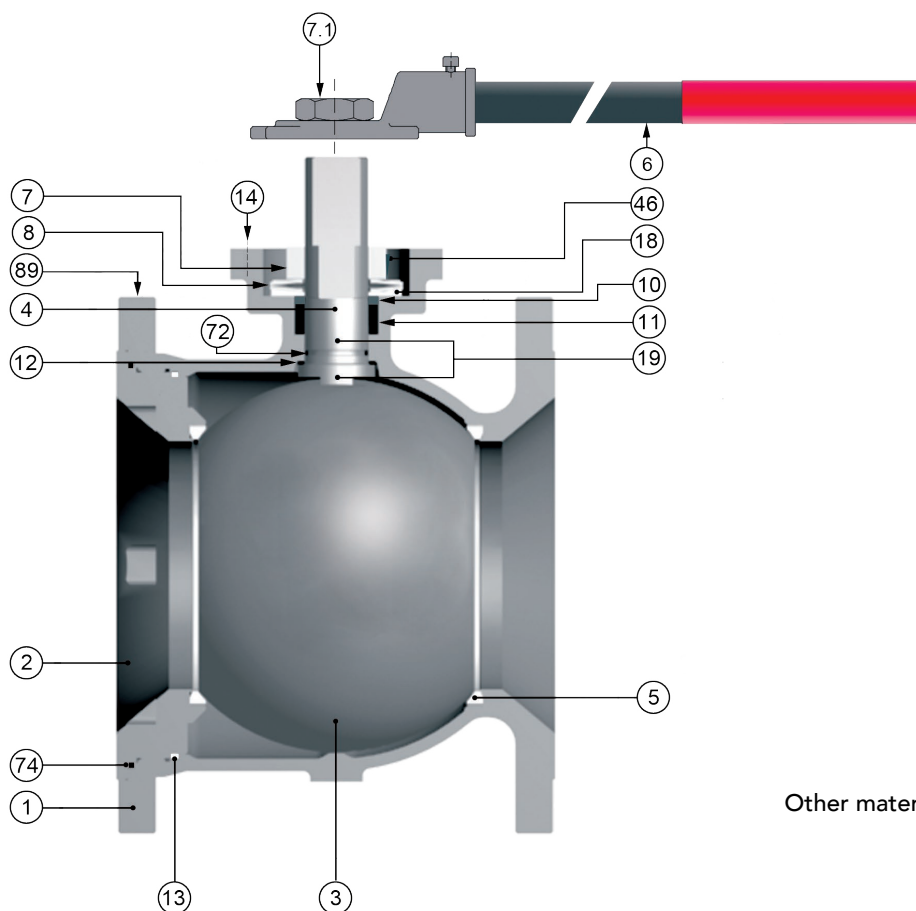
- ISO9001 Quality Management System
- ISO14001 Environmental Management System
- API Monogram License 6D-0197, 600-0016

Product Certificates

- Fire Safe API 607, ISO 10497, API 6FA
- PED 2014/68/EU - CE marking
- ATEX 2014/34/EU– (II2GD)
- Russian Federation Certificate TRCU 10, TRCU 12, TRCU 32
- Food processing and pharmaceutical industry FDA, USP CLASS VI COMPLIANCE (CE 1935/2004) - *Optional*
- Safety Integrity Level (SIL) LEVEL 3 IEC 61508
- CRN (Canadian Registration Number)
- AGA 8328 G – AS4617 2004 amd 1 - AGA marking (Australian Gas Association)
- Fugitive Emissions TA-Luft / ISO 15848-1

This technical drawing shows a detailed cross-section of a valve assembly. The assembly consists of a main body (1) with a large spherical ball (3) inside. A handle (6) is attached to the top of the ball, and a red lever (16) is attached to the handle. The handle is connected to a shaft (17) that passes through the body. The shaft is supported by bearings (14, 15) and a seal (13). The body has a flange (2) and a port (5). The drawing includes numerous numbered callouts (1 through 89) pointing to various components and features.

Item	Description	Material		
		A.I.T	I.I.T	L.I.T.
1 / 2	Body / Body Connector	ASTM A216 Gr. WCB (C ≤ 0,25%)	ASTM A351 Gr. CF8M	ASTM A352 LCC
3	Ball	ASTM A 351 Gr. CF8M (DN 15 to 50 A182 Gr. F316)		
4	Stem	ASTM A182 F51		
5	Seat ring	PTFE		
6	Wrench	ASTM A216 Gr. WCB		
7	Gland nut	ASTM A276 Tp.316		
8	Disk spring	ASTM A666 TP.301		
9	Stop plate	ASTM A240 UNS S31803 (F51)		
10	Gland	ASTM A479 Tp.316		
11	Gland packing	Graphite		
12	Stem thrust seal	25% G.F. PTFE		
13	Body connector seal	PTFE		
14	Stop pin	A4-70		
16	Bolt	DIN 933 A4-70		
17	Washer	ASTM A276 Tp.316		
18	Thrust washer	25% G.F. PTFE		
19	Antistatic device	Stainless St.		
39	Stem bushing (DN 40 to DN 200)	25% G.F. PTFE		
41	Spacer (DN 40 to 200)	ASTM A276 Tp.316		
46	Washer	ASTM A276 Tp.316		
72	O-Ring	FKM		
74	Insert Seal	Graphite		
89	Identification plate	ASTM A276 Tp.316		

ANSI Ball Valves
Flowing

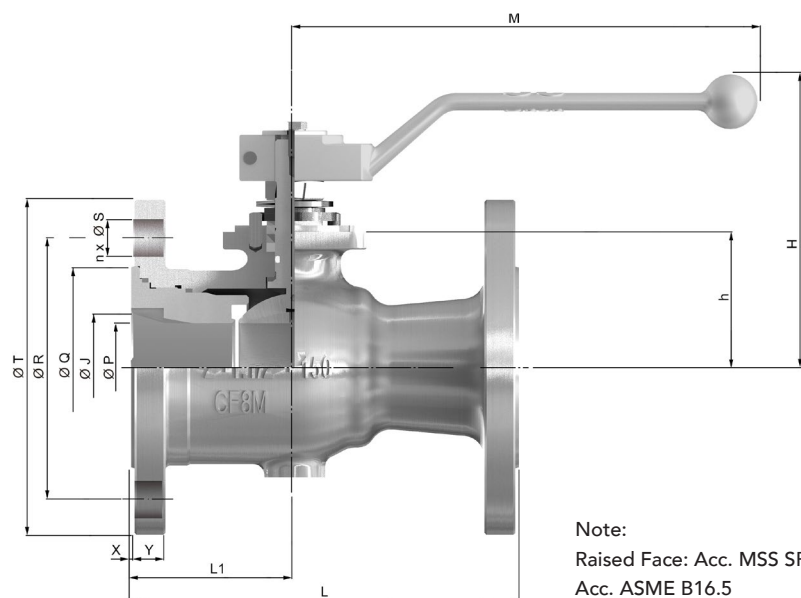
Other materials upon request

Item	Description	Material		
		A.I.T	I.I.T	L.I.T.
1 / 2	Body / Body Insert	ASTM A216 Gr. WCB (C ≤ 0,25%)	ASTM A351 Gr. CF8M	ASTM A350 LCC
3	Ball	ASTM A351 Gr. CF8M		
4	Stem	ASTM A182 F51		
5	Seat ring	PTFE		
6	Wrench	ASTM A216 Gr. WCB		
7	Gland nut	ASTM A276 Tp.316		
7.1	Gland nut	ASTM A276 Tp.316		
8	Disk spring	ASTM A666 Tp.301		
10	Gland	ASTM A479 Tp.316		
11	Gland packing	Graphite		
12	Stem thrust seal	25% G.F. PTFE		
13	Body connector seal	PTFE		
14	Stop bolt	DIN 912 A4-70		
18	Thrust washer	25% G.F. PTFE		
19	Antistatic device	Stainless St.		
46	Washer	ASTM A276 Tp.316		
72	O-Ring	FKM		
74	Insert Seal	Graphite		
89	Identification plate	ASTM A276 Tp.316		

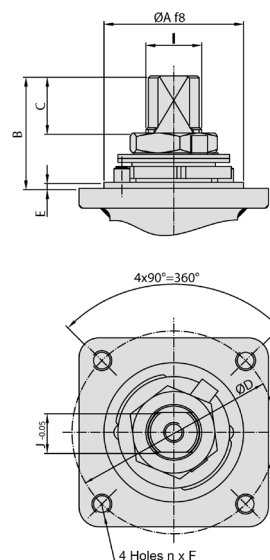
ANSI Ball Valves

Flow Rating

Series 715 (Class 150)



Note:
Raised Face: Acc. MSS SP-6
Acc. ASME B16.5



* Weight in Kg * Dimensions in mm

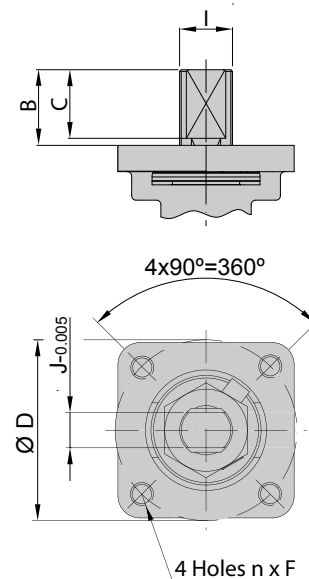
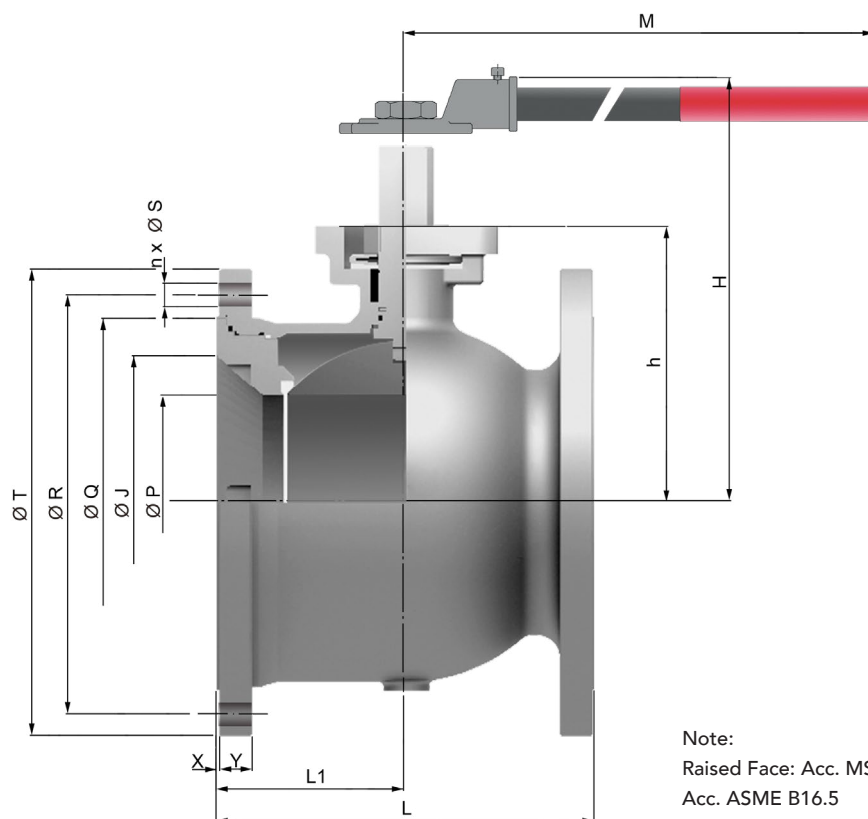
DN	ØJ	ØP	L	L1	ØQ	ØR	n x ØS	ØT	X	Y	h	H	M	WEIGHT	Kv
15 (½")	15	9,5	108	54	35,1	60,5	4x15,9	89	1,5	7,9	21,5	81	164	1,6	7
20 (¾")	20	15	117	60	42,9	69,8	4x15,9	99	1,5	8,6	26	99	164	2,1	10
25 (1")	25	20	127	65	50,8	79,2	4x15,9	108	1,5	9,7	29	102	164	2,7	26
40 (1½")	40	32	165	72	73,0	98,6	4x15,9	127	1,5	12,7	51	117	210	5,1	107
50 (2")	50	40	178	75	91,9	120,6	4x19,1	152	1,5	14,2	61,5	133	213	7,9	140
80 (3")	80	58	203	88	127,0	152,4	4x19,1	190	1,5	17,5	76	148	348	14,3	300
100 (4")	102	80	229	104	157,2	190,5	8x19,1	229	1,5	22,4	92,5	189	445	25,9	600
150 (6")	152	111	267	125	215,9	241,3	8x22,2	279	1,5	23,9	129	228	495	43,8	1000
200 (8")	200	144	292	135	269,7	298,4	8x22,2	343	1,5	26,9	158	267	698	77	2000

Series 730 (Class 300)

DN	ØJ	ØP	L	L1	ØQ	ØR	n x ØS	ØT	X	Y	h	H	M	WEIGHT	Kv
15 (½")	15	9,5	140	54	35,1	66,5	4x15,9	95	1,5	12,7	21,5	81	164	1,6	7
20 (¾")	20	15	152	60	42,9	82,6	4x19,1	117	1,5	14,2	26	99	164	2,1	10
25 (1")	25	20	165	65	50,8	88,9	4x19,1	124	1,5	15,7	29	102	164	4,1	26
40 (1½")	40	32	190	72	73,0	114,3	4x22,2	155	1,5	19,0	51	117	210	8,2	107
50 (2")	50	40	216	75	91,9	127,0	8x19,1	165	1,5	20,6	61,5	134	213	10,9	140
80 (3")	80	58	282	88	127,0	168,1	8x22,2	210	1,5	26,9	76	148	348	21,4	300
100 (4")	102	80	305	104	157,2	200,2	8x22,2	254	1,5	30,2	92,5	189	445	28,9	600

Actuator Connection

DN	ISO 5211	ØA	B	C	ØD	n x F	E	I	J
15 (½")	F05	35	22	7,9	50	4x M6	1,5	M10x1.5	7
20 (¾")	F05	35	22,7	8,5	50	4x M6	3	M12x1.5	9
25 (1")	F05	35	22,7	8,5	50	4x M6	3	M12x1.5	9
40 (1½")	F05	35	34,5	14	50	4x M6	3	M16x1.5	12
50 (2")	F07	55	42	18,8	70	4x M8	3	M18x1.5	13
80 (3")	F07	55	44	18,6	70	4x M8	3	M22x1.5	16
100 (4")	F10	70	44,5	18,6	102	4x M10	3	M25x1.5	18
150 (6")	F12	85	56,5	27,8	125	4x M12	3	M28x1.5	20
200 (8")	F12	85	56	24,8	125	4x M12	3	M35x2	25



Note:
Raised Face: Acc. MSS SP-6
Acc. ASME B16.5

Series 715N (Class 150)

* Weight in Kg * Dimensions in mm

DN	ØJ	ØP	L	L1	ØQ	ØR	n x ØS	ØT	X	Y	h	H	M	WEIGHT	Kv
250 (10")	254	187	330	165,5	323,8	362	12x25,4	406	1,5	28,4	239	---	---	114	4100

Series 730N (Class 300)

DN	ØJ	ØP	L	L1	ØQ	ØR	n x ØS	ØT	X	Y	h	H	M	WEIGHT	Kv
150 (6")	152	100	403	125	215,9	269,7	12x22,2	318	1,5	35,1	144	246	466	70	1130
200 (8")	200	151	419	135	269,7	330,2	12x25,4	381	1,5	39,6	203	271	635	110,5	2500

Actuator Connection

DN	ISO 5211	B	C	ØD	n x F	I	J
150 (6")	F10	45	43,5	102	4x M10	M28x1,5	19
200 (8")	F12	56	54,5	125	4x M12	M36x1,5	24
250 (10")	F16	69	67	165	4x M20	M48x3	32

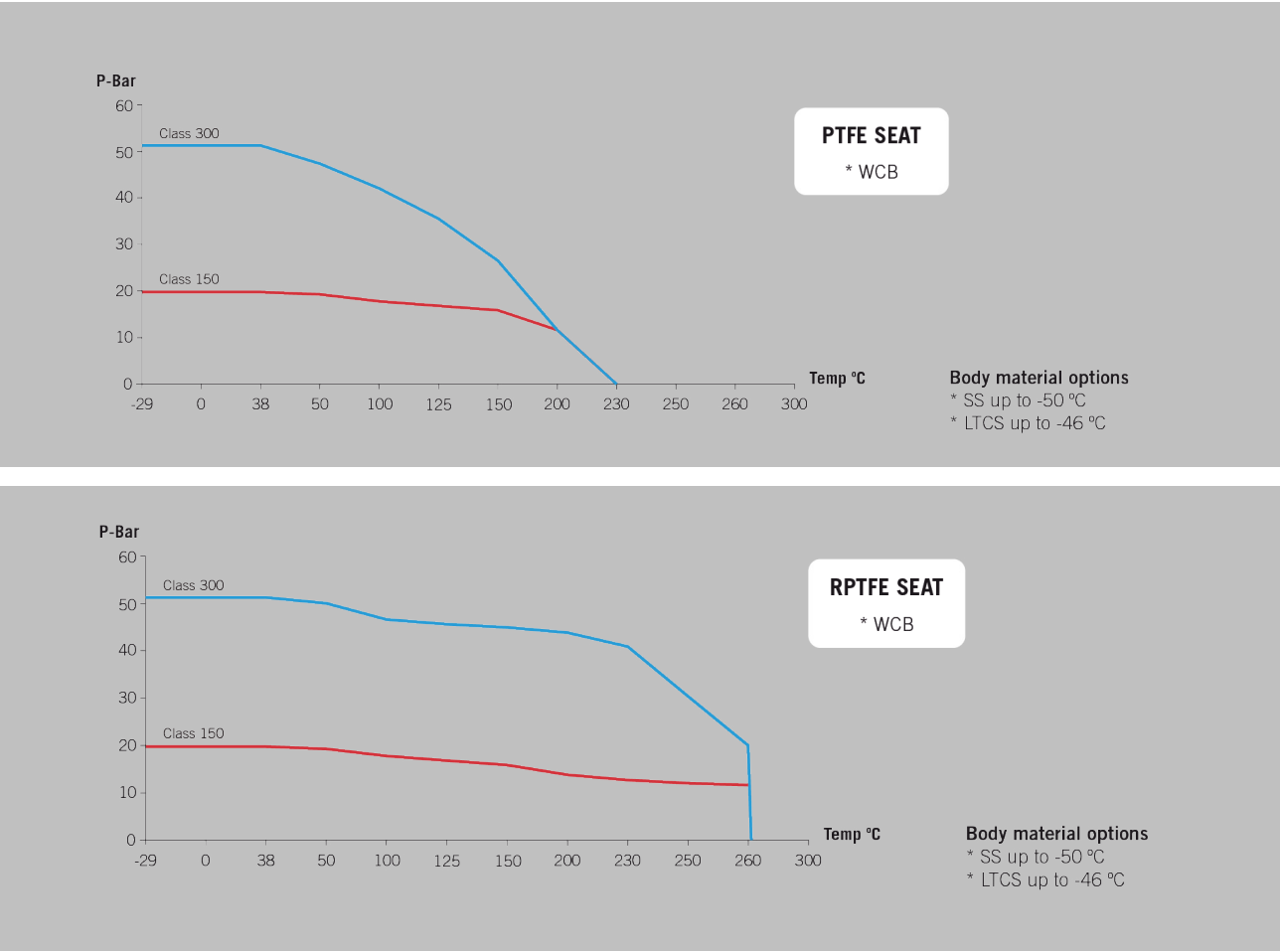
Differential Pressure 150 Lbs

DN	BTO	RTO	ETO	BTC	RTC	ETC	MAST
15	8	4	5	6	4	6	28
20	9	5	5	7	5	7	57
25	11	6	7	8	6	9	57
40	17	9	10	13	9	14	151
50	28	14	17	21	14	22	185
80	58	29	35	44	29	46	386
100	90	45	54	68	45	72	539
150	228	114	137	171	114	182	668
200	352	176	211	264	176	282	1329
250	540	270	324	405	270	432	3806
-	-	-	-	-	-	-	-

Differential Pressure 300 Lbs

DN	BTO	RTO	ETO	BTC	RTC	ETC	MAST
15	10	5	6	8	5	8	28
20	12	6	7	9	6	10	57
25	16	8	10	12	8	13	57
40	26	13	16	20	13	21	151
50	35	18	21	26	18	28	185
80	70	35	42	53	35	56	386
100	90	45	54	68	45	72	539
150	255	128	153	191	128	204	778
200	540	270	324	405	270	432	1606
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Pressure – Temperature Charts

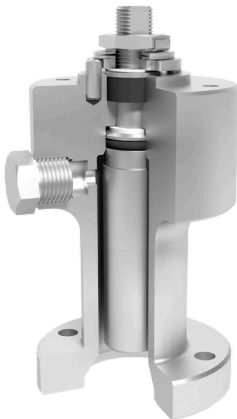




Simple Stem Extension



Standard Stem Extension



Double Packing Stem Extension



Cavity Relief Seat



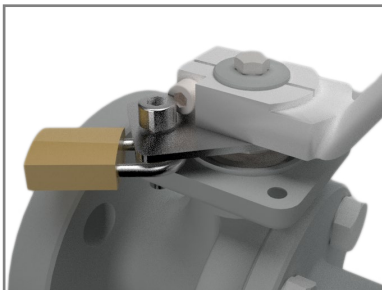
Other Seat materials



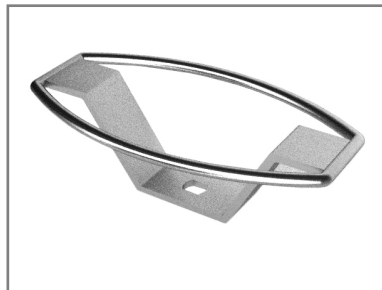
Cavity Filler Seat



Stainless Steel Lever



Locking Device



Oval Handwheel
Available from 1/2" to 2"



Manual and Declutchable
Gears



Pneumatic or Hydraulic
Scotch Yoke Actuators



Valve Automation option
available on Request