

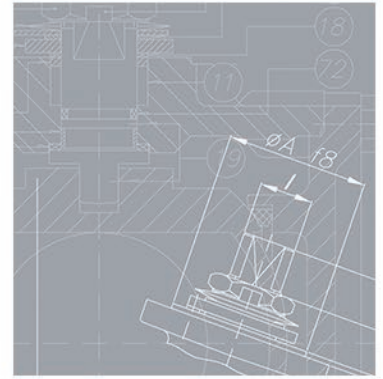
Technical Datasheet

ANSI Ball Valves

590B

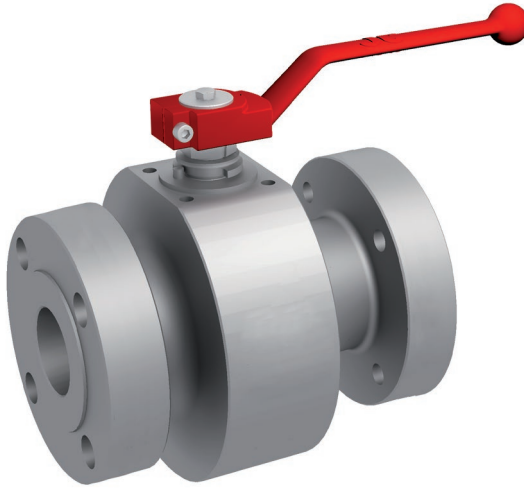
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2014/68/EV



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

- Valve design: Full Bore API 6D
- Body design: ASME VIII Div.1
- Shell thickness: ASME B16.34
- Flanges: ASME B16.5 Raised Face
- Face to face dimensions: ASME B16.10 Long Pattern
- Marking: API 6D / CE - PED / MSS SP 25
- Pressure testing: API 598 - API 6D
- ISO 5211

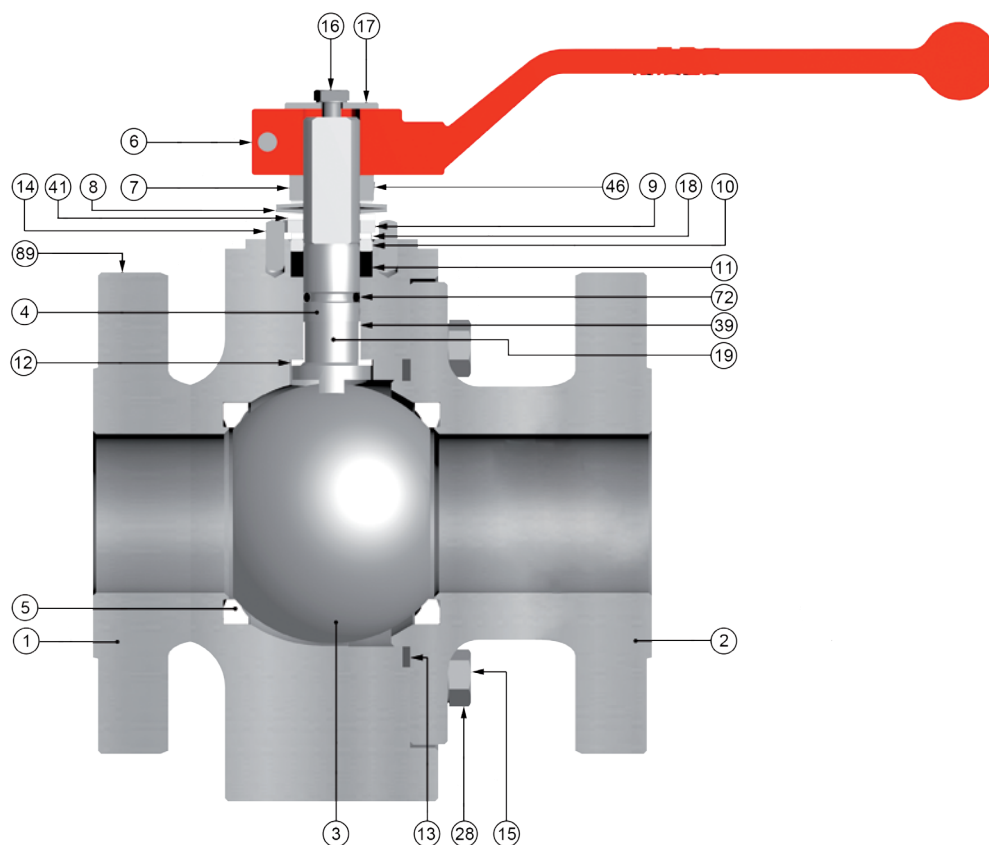
Certifications

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)
- Safety Integrity Level (SIL) LEVEL 3 IEC 61508
- Fugitive Emissions ISO 15848, TA LUFT (VDI 2440)

ANSI Ball Valves
F l o a t i n g

Other materials upon request

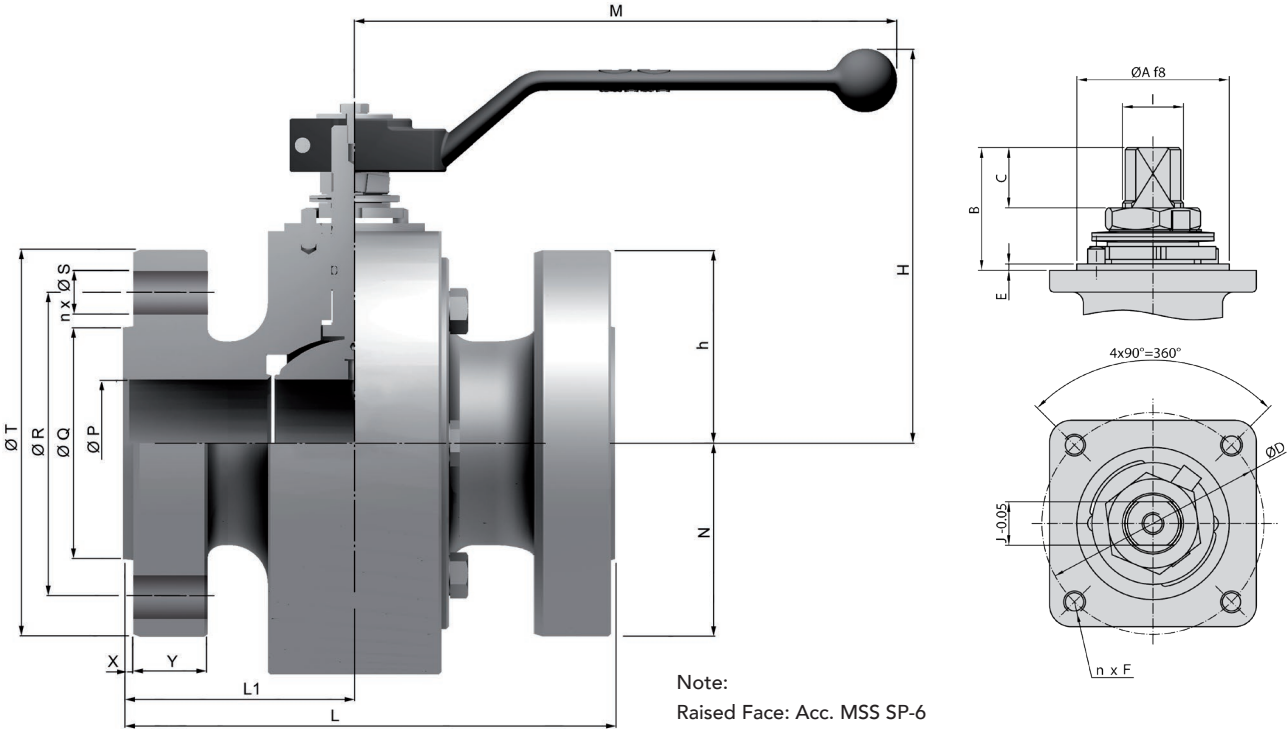
Item	Description	Material		
		A.I.DV.	I.I.DV.	L.I.DV.
1 / 2	Body / Body Connector	ASTM A105N	S.S. 316	ASTM A 352 LF2
3	Ball	ASTM A 351 Gr. CF8M (DN 15 to 50 A182 Gr. F316)		
4	Stem	A182 Gr. F51		
5	Seat ring	DEVLON		
6	Wrench	A 216 Gr. WCB		
7	Gland nut	Zinc plated carbon steel	AISI 303	
8	Disk spring	Carbon St.	A 666 Tp.301	
9	Stop plate	Carbon St.	AISI 304	
10	Gland	AISI 303	AISI 316	
11	Gland packing	Graphite		
12	Stem thrust seal	25% G.F. PTFE		
13	Body connector seal	SPW AISI 316L + Graphite		
14	Stop pin	Carbon St.	Stainless St.	
15	Bolt (DN 40 Stud)	A 193 Gr. B7M Zinc Bichromated	A 193 Gr. B8M	A 320 Gr. L7M Zinc Bichromated
16	Bolt	DIN 933 A4-70		
17	Washer	AISI 304		
18	Thrust washer	25% G.F. PTFE		
19	Antistatic device	Stainless St.		
28	Nut (DN 40)	A 194 Gr. 2HM Zinc Bichromated	A 194 Gr. 8M	A 194 Gr. 7M Zinc Bichromated
39	Stem bushing (DN 50)	25% G.F. PTFE		
41	Spacer (DN 25 to DN 50)	Carbon St.	AISI 304	
46	Washer	AISI 304		
72	O-Ring	FKM		
89	Identification Plate	Stainless St.		

Fig. 590B

Dimensions

ANSI Ball Valves

Floating



Note:
Raised Face: Acc. MSS SP-6

Series 590B (Class 900)

														* Weight in Kg	* Dimensions in mm
DN	$\varnothing P$	L	L1	$\varnothing Q$	$\varnothing R$	$n \times \varnothing S$	$\varnothing T$	X	Y	h	H	M	N	WEIGHT	Kv
15	15	216	90	34,9	82,6	4x22,2	120	7,0	22,3	38,5	113	164	--	8,0	22
20	20	229	99,5	42,9	88,9	4x22,2	130	7,0	25,4	45,5	117	164	--	11,3	43
25	25	254	105	50,8	101,6	4x25,4	150	7,0	28,6	53,0	119	210	--	16,3	81
40	40	305	121	73,0	123,8	4x28,6	180	7,0	31,8	79,5	151	348	--	35,5	224
50	50	368	143,5	92,1	165,1	8x25,4	215	7,0	38,1	84,5	180	445	--	53,8	270

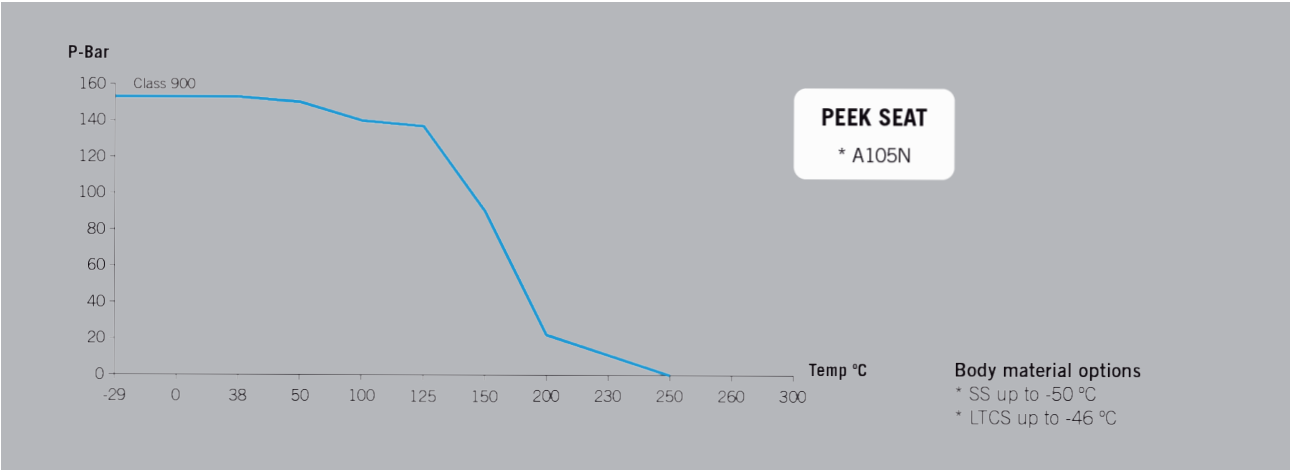
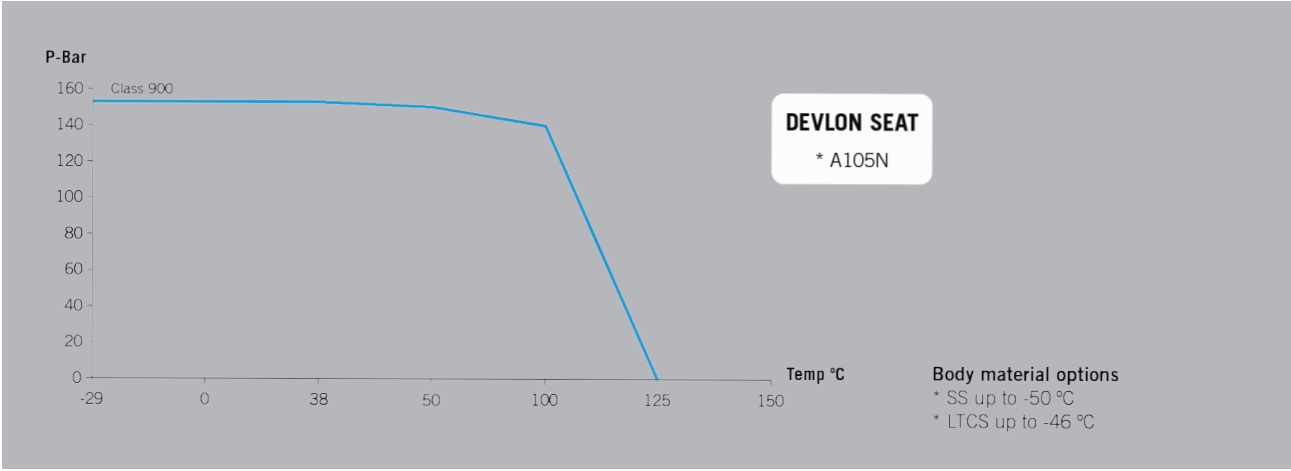
Actuator Connection

DN	ISO 5211	$\varnothing A$	B	C	$\varnothing D$	$n \times F$	E	I	J
15	F05	35	22,7	7	50	4 x M6	1,5	M12x1,5	9
20	F05	35	23,7	10,5	50	4 x M6	1,5	M12x1,5	9
25	F05	35	33,5	13,0	50	4 x M6	3	M16x1,5	12
40	F07	55	43,0	17,6	70	4 x M8	3	M22x1,5	16
50	F10	70	45,0	19,1	102	4 x M10	3	M25x1,5	18

Differential Pressure 900 Lbs

DN	BTO	RTO	ETO	BTC	RTC	ETC	MAST
15	27	14	16	20	14	22	63
20	32	16	19	24	16	26	57
25	72	36	43	54	36	58	151
40	111	56	67	83	56	89	386
50	155	78	93	116	78	124	539

Pressure – Temperature Charts

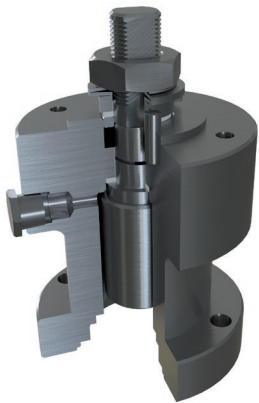




Simple Stem Extension



Stem Extension



Double Packing Stem Extension



Cavity Relief Seat



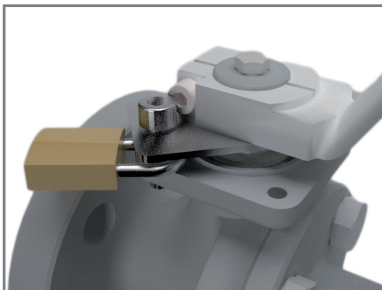
Other Seat materials



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