FLANGED BALL VALVE
516 SERIES - PN 16

JC VALVES

GENERAL FEATURES:

- Split body - floating ball - full bore - blow out proof stem
- Anti-static device according to BS 5351, ISO 7121 and NF E29-470
- Cavity balancing hole (standard= 5 mm diameter) in the top of the ball avoids overpressure in the cavity
- All valves meet the TA Luft requirements
- Fire Safe
- Max. temperatures: -29°C ~ 230°C (AIT) and -50°C ~ 230°C (IIT)





Fire safe tested

CE

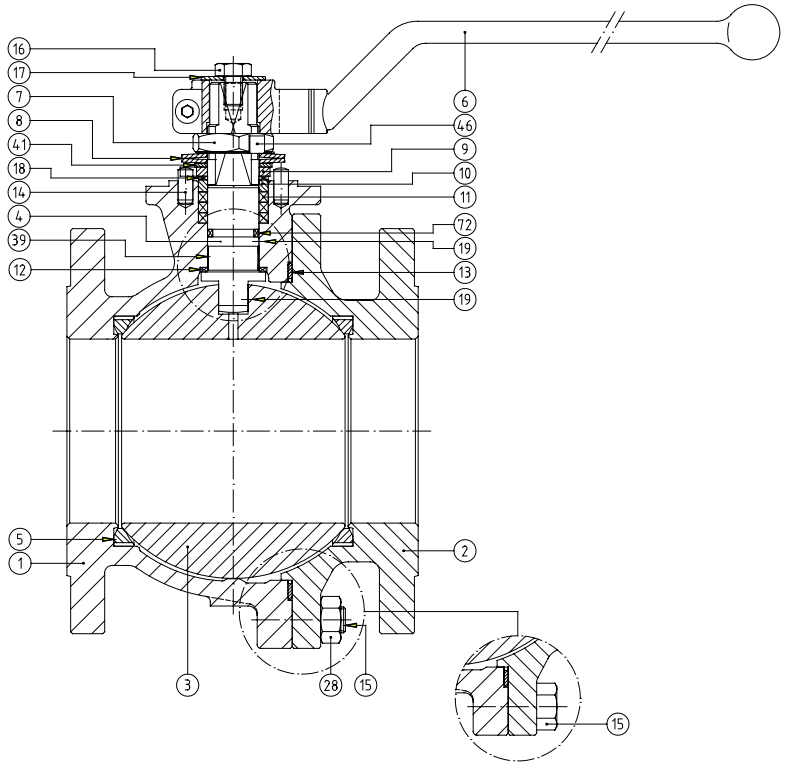
TÜV
TA Luft

ATEX

DESIGN STANDARDS	
Valves design	EN 1983
Body design	EN 12516
Shell thickness	EN ISO 17292
Flanges	DIN 2501, EN 1092-1
Face to face dimensions	EN 558-1 Series 27
Actuator mounting flange	ISO 5211
Shell finishing quality	MSS SP-55
Marking	EN 19, CE-PED, MSS SP-25
TESTS AND CERTIFICATES	
Quality Assurance	ISO 9001, CE-PED, AD2000-Merkblatt W0/A4
Fire Safe certification	ISO 10497, API 607, API 6FA
Pressure testing	EN 12266
Fugitive emissions	ISO 15848-1, TA-Luft VDI 2440, API 641
SIL	Level 3 IEC 61508
Other	ISO 14001, ATEX, EN13774, PAS 1085

Subject to changes

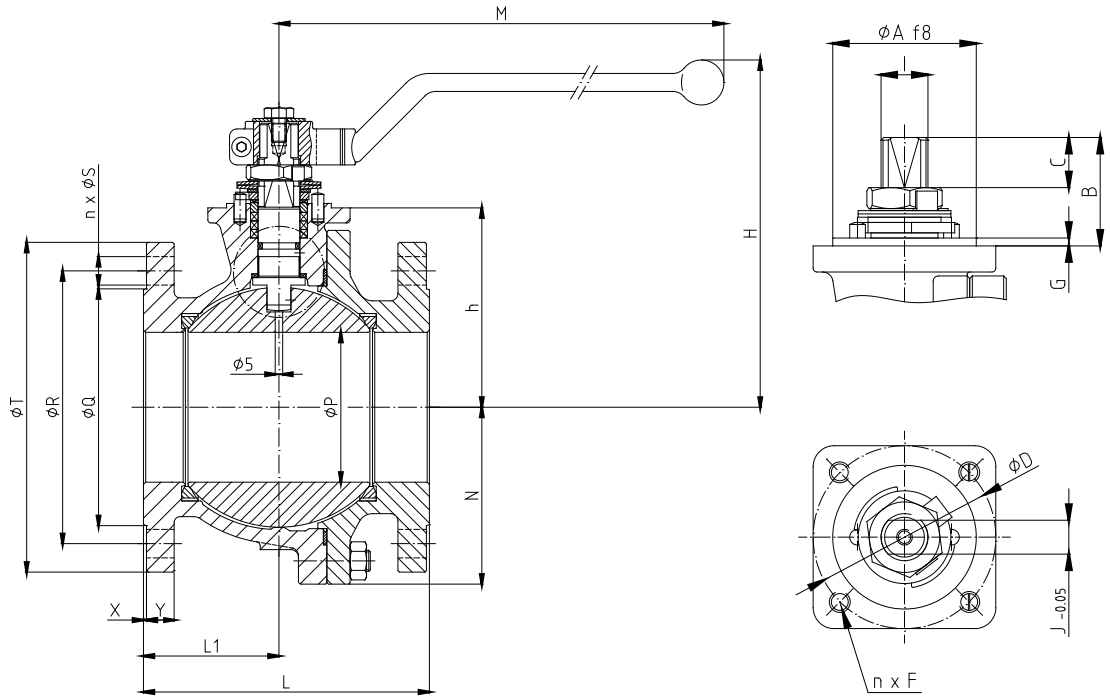
FLANGED BALL VALVE
516 SERIES - Materials



Item	Description	Materials	
		AIT	IIT
1	Body	1.0619	1.4408
2	Body connector	1.0619	1.4408
3	Ball	A 351 Gr. CF8M (DN 15 : 25 A 479 Tp.316)	
4	Stem	F51	
5	Seat ring	PTFE	
6	Wrench	A 216 Gr. WCB	
7	Gland nut	Zinc plated carbon steel	AISI 303
8	Disk spring	Carbon Steel	Stainless steel A666 TP.301
9	Stop plate	Carbon Steel	AISI 304
10	Gland	AISI 303	AISI 316
11	Gland packing	Graphite	
12	Stem thrust seal	25% G.F. PTFE	
13	Body connector seal	AISI 316L + PTFE + Graphite	
14	Stop pin	Carbon Steel	Stainless steel
15	Bolt (DN 32 to DN 100 stud)	DIN 933 Gr.8.8	DIN 933 A4-70
16	Bolt	DIN 933 A4-70	
17	Washer	Zinc plated carbon steel	AISI 304
18	Thrust washer	25% G.F. PTFE	
19	Antistatic device	Stainless Steel	
28	Nut (DN 32 to DN 100)	DIN 934 Gr.8	DIN 934 A4-70
39	Stem bushing (DN 25 to DN 200)	25% G.F. PTFE	
41	Spacer (DN 40 to 200)	Carbon Steel	AISI 304
46	Washer	AISI 304	
72	"O" Ring	FKM	
	Identification plate	Stainless Steel	

Subject to changes

FLANGED BALL VALVE
516 SERIES - Dimensions



DIMENSIONS: (in mm)

DN	Ø P	L	L1	Ø Q	Ø R	n x Ø S	Ø T	X	Y	h	N	H	M	Kg
15	15	115	53	45	65	4x14	95	2	14	46	-	111	164	2,8
20	20	120	52	58	75	4x14	105	2	16	53	-	118	164	3,6
25	25	125	48,5	68	85	4x14	115	2	16	58	-	130	164	5
32	32	130	54	78	100	4x18	140	2	16	67	-	131	210	7
40	40	140	55	88	110	4x18	150	3	15	76	-	148	213	9
50	50	150	61	102	125	4x18	165	3	17	84	-	155	213	12
65	65	170	75,5	122	145	4x18	185	3	15	97	-	169	348	16
80	80	180	82	138	160	8x18	200	3	17	111	-	207	445	22
100	100	190	90,5	158	180	8x18	220	3	17	133	118	232	495	32
125	125	325	120	188	210	8x18	250	3	19	156	138	265	698	53
150	151	350	135	212	240	8x22	285	3	19	183	160	298	698	76
200	203	400	200	268	295	12x22	340	3	21	233	208	353	868	111

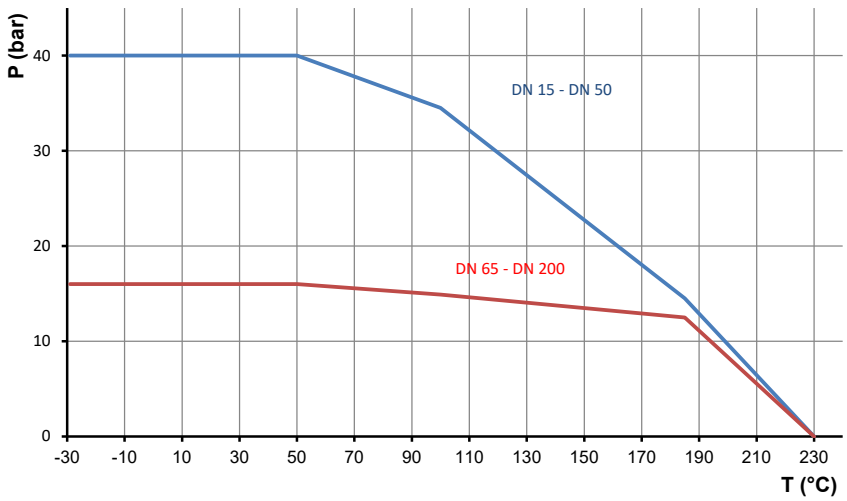
ACTUATOR CONNECTION: (in mm)

DN	ISO	Ø A	B	C	Ø D	n x F	G	I	J
15	F05	35	11,2	5,0	50	4x M6	1,5	M12x1.5	9
20	F05	35	14,7	8,5	50	4x M6	1,5	M12x1.5	9
25	F05	35	22,7	9,5	50	4x M6	1,5	M12x1.5	9
32	F05	35	32,0	13,0	50	4x M6	1,5	M16x1.5	12
40	F07	55	41,5	18,3	70	4x M8	3,0	M18x1.5	13
50	F07	55	41,5	18,3	70	4x M8	3,0	M18x1.5	13
65	F07	55	44,0	18,6	70	4x M8	3,0	M22x1.5	16
80	F10	70	44,5	18,6	102	4x M10	3,0	M25x1.5	18
100	F10	70	56,5	27,8	102	4x M10	3,0	M28x1.5	20
125	F12	85	56,0	24,8	125	4x M12	3,0	M35x2	25
150	F12	85	68,0	37,1	125	4x M12	3,0	M40x2	29
200	F14	100	72,0	36,5	140	4x M16	4,0	M45x2	32

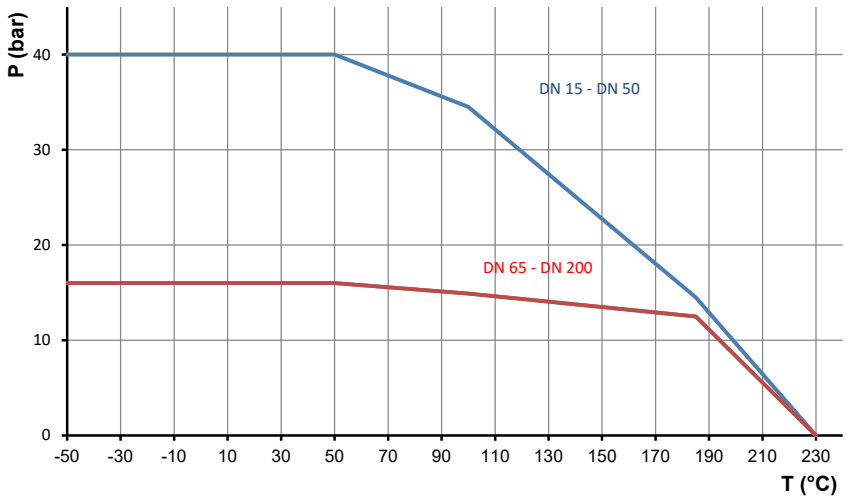
Subject to changes

PRESSURE-TEMPERATURE CHART:

AIT



IIT



TORQUES: (in Nm)

DN	Differential pressure	
	16 bar	40 bar
15	11	
20	14	
25	20	
32	25	
40	33	
50	46	
65	61	-
80	97	-
100	133	-
125	226	-
150	320	-
200	694	-

Kv VALUE: (in m³/h)

DN	Kv value
15	20
20	20
25	75
32	130
40	170
50	270
65	550
80	1.000
100	1.650
125	3.000
150	4.200
200	9.000

Subject to changes