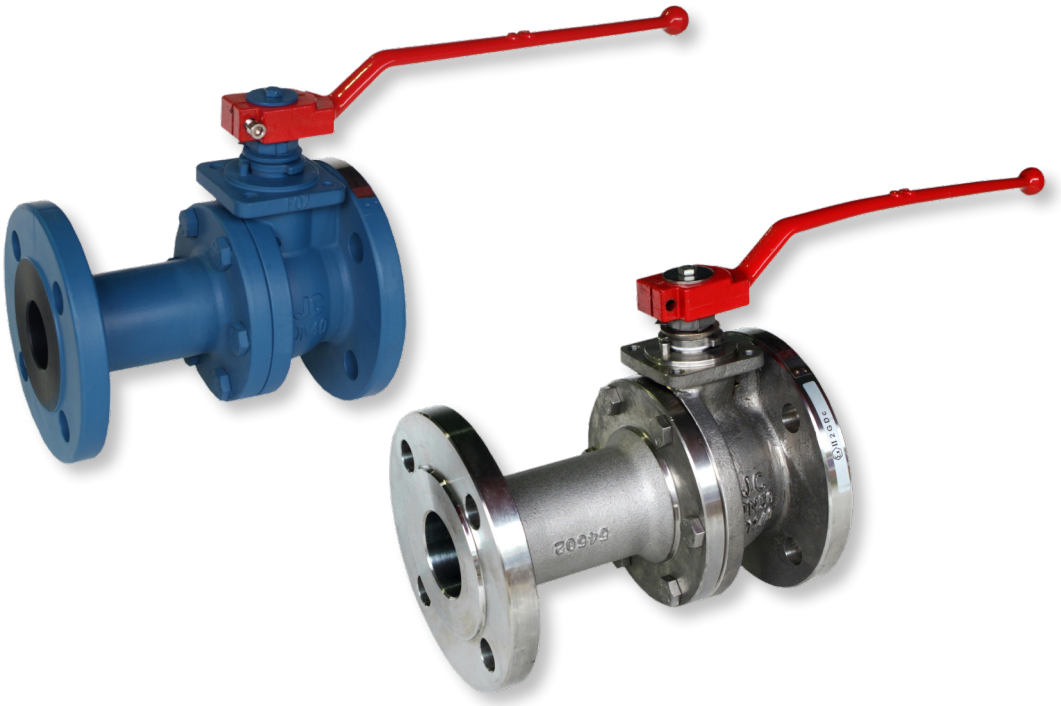
FLANGED BALL VALVE
316 SERIES - PN 16

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



Fire safe tested

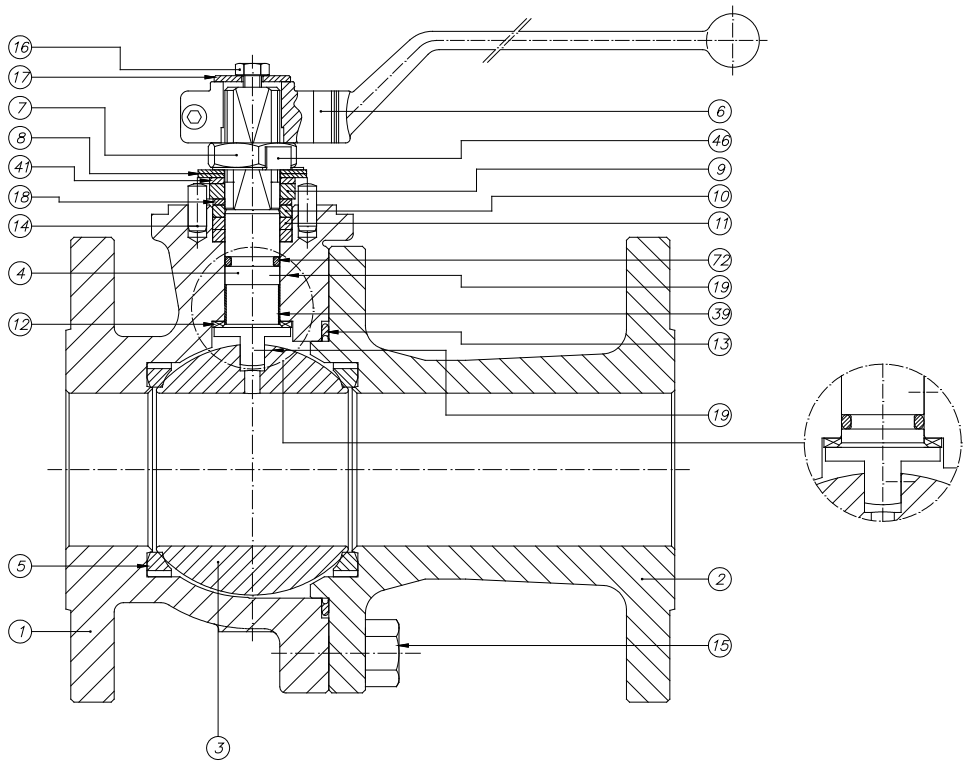
CE

TÜV
TA Luft

Ex
ATEX

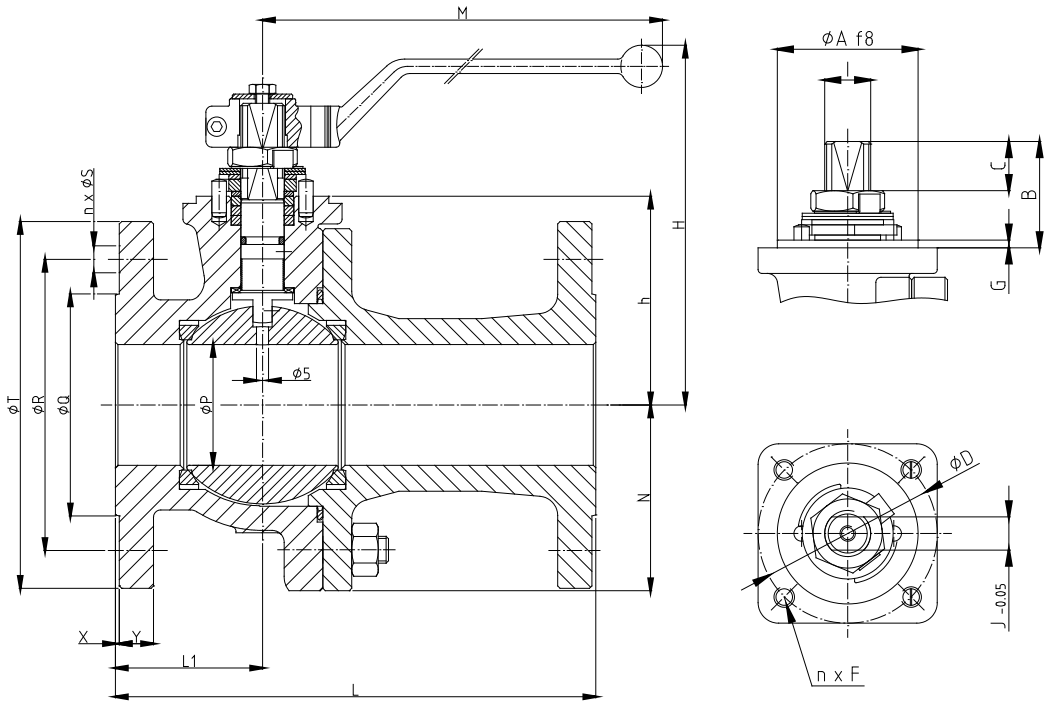
DESIGN STANDARDS	
Valves design	EN 1983
Body design	EN 12516
Shell thickness	EN ISO 17292
Flanges	DIN 2501, EN 1092
Face to face dimensions	EN 558 series 1
Actuator mounting flange	EN ISO 5211
Shell finishing quality	MSS SP 55
Marking	EN 19, CE-PED
TESTS AND CERTIFICATES	
Quality Assurance	ISO 9001,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

FLANGED BALL VALVE
316 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	A 479 Tp.316	
5	Seat ring	PTFE	
6	Wrench	Nodular Iron	
7	Gland nut	Zinc plated carbon steel	AISI 303
8	Disk spring	Carbon 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 (stud & nut DN32 - DN100)	DIN 993 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	
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	

FLANGED BALL VALVE
316 SERIES - Dimensions



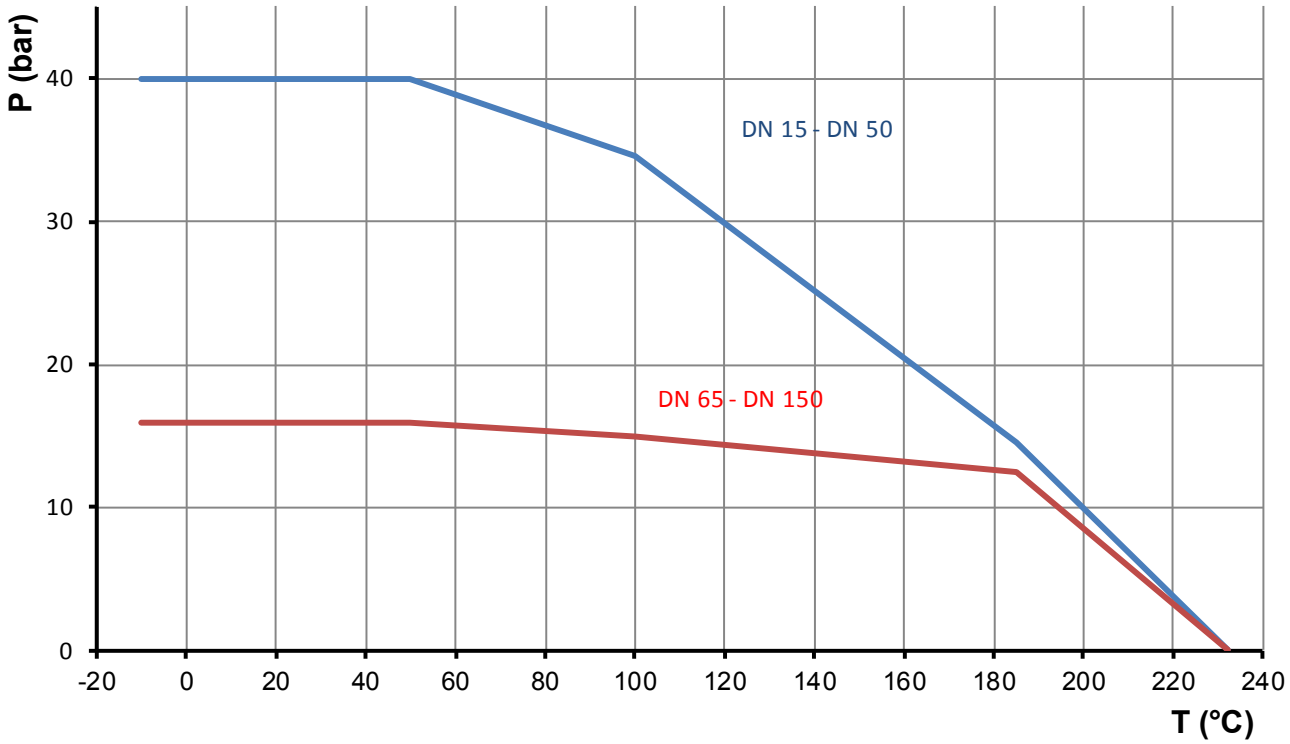
DIMENSIONS: (in mm)

DN	Ø	Ø P	L	L1	Ø Q	Ø R	n x Ø S	Ø T	X	Y	h	N	H	M	Kg
15	1/2"	15	130	53	45	65	4x14	95	2	14	46	-	111	164	3
20	3/4"	20	150	52	58	75	4x14	105	2	16	53	-	118	164	3,8
25	1"	25	160	48,5	68	85	4x14	115	2	16	58	-	130	164	5,2
32	1 1/4"	32	180	54	78	100	4x18	140	2	16	66,5	-	131	210	7,6
40	1 1/2"	40	200	55	88	110	4x18	150	3	15,5	76	-	148	213	9,6
50	2"	50	230	61	102	125	4x18	165	3	17	83,5	-	155	213	12,9
65	2 1/2"	65	290	75,5	122	145	4x18	185	3	15	97	-	169	348	18,3
80	3"	80	310	82	138	160	8x18	200	3	17	111	-	207	445	24
100	4"	100	350	90,5	158	180	8x18	220	3	17	133	118	232	495	36
125	5"	125	400	120	188	210	8x18	250	3	19	156	138	265	698	58
150	6"	151	480	135	212	240	8x22	285	3	19	183	160	298	698	81

ACTUATOR CONNECTION: (in mm)

DN	ISO	Ø A	B	C	Ø D	n x F	G	I	J
15	F05	35	11,2	5	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	13	50	4x M6	1,5	M16x1.5	12
40	F07	55	41,5	18,3	70	4x M8	3	M18x1.5	13
50	F07	55	41,5	18,3	70	4x M8	3	M18x1.5	13
65	F07	55	44	18,6	70	4x M8	3	M22x1.5	16
80	F10	70	44,5	18,6	102	4x M10	3	M25x1.5	18
100	F10	70	56,5	27,8	102	4x M10	3	M28x1.5	20
125	F12	85	56	24,7	125	4xM12	3	M35x2	25
150	F12	85	68	37,1	125	4xM12	3	M40x2	29

PRESSURE-TEMPERATURE CHART:



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	-

Kv VALUE: (in m³/h)

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