FLANGED BALL VALVE
540 SERIES - PN 40

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

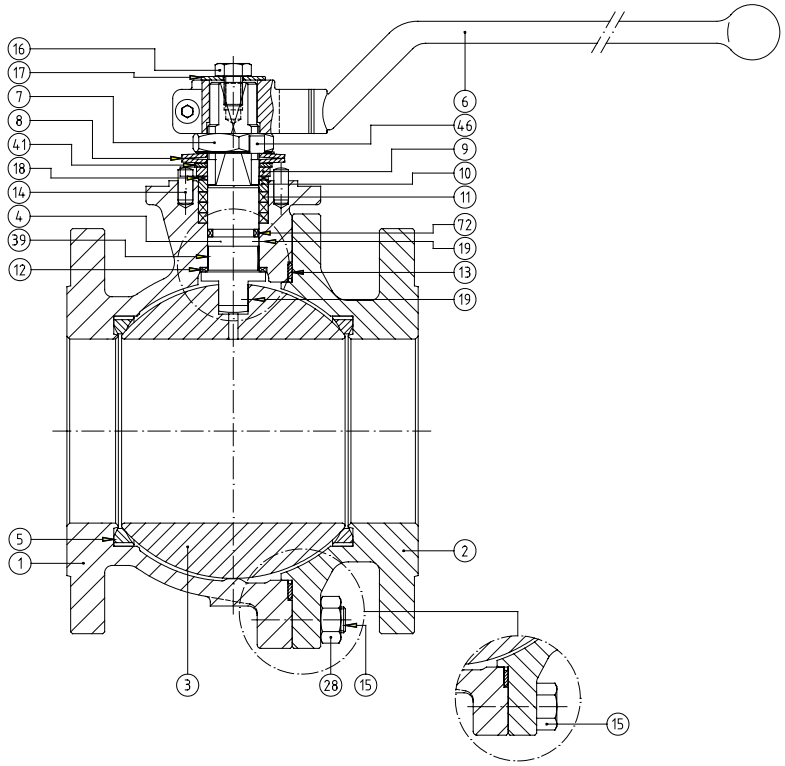
TÜV
TA Luft

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

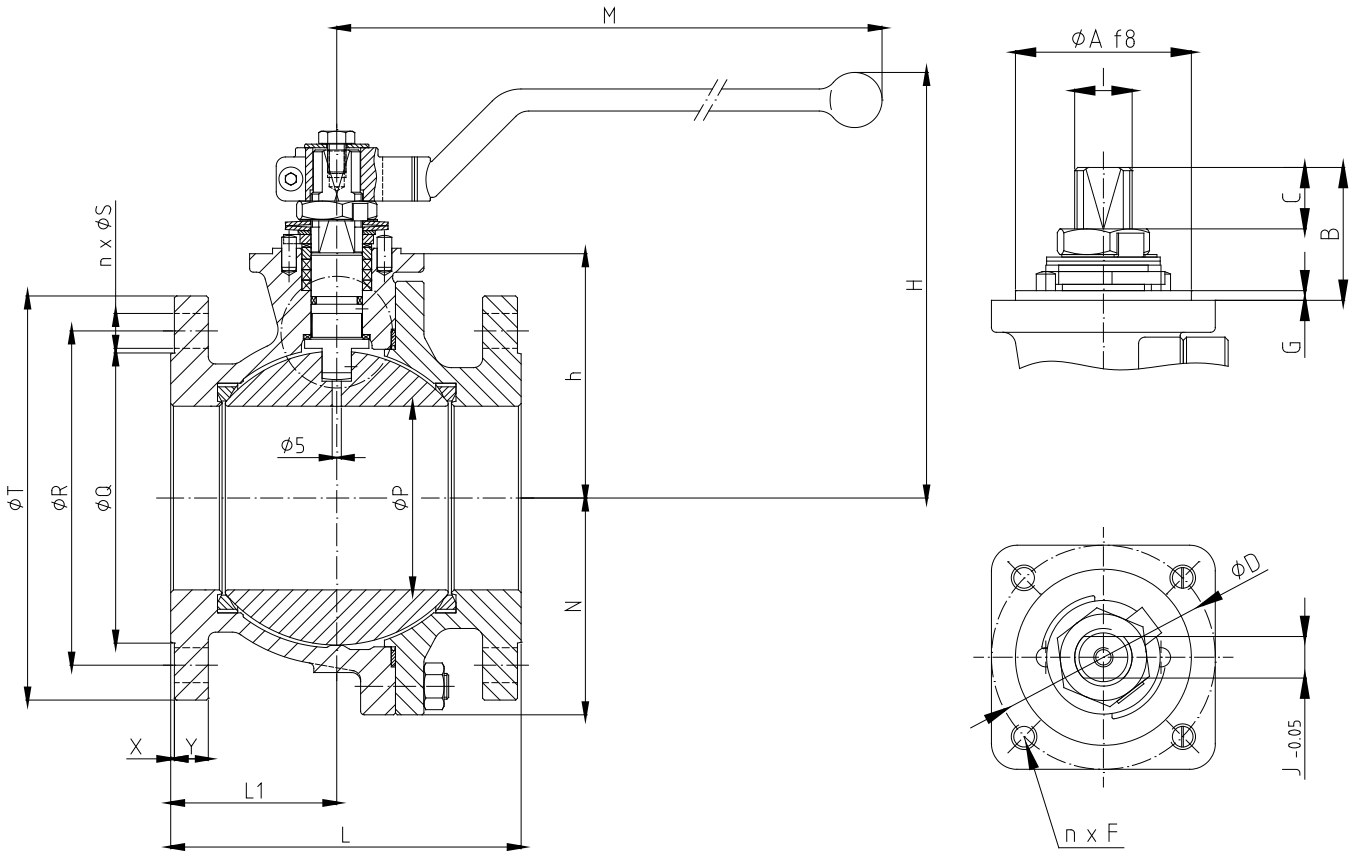
FLANGED BALL VALVE
540 SERIES - Materials



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
540 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
65	65	170	75,5	122	145	8x18	185	3	19	97	-	169	348	17,0
80	80	180	74,5	138	160	8x18	200	3	21	111	-	207	445	23,0
100	100	190	91	162	190	8x22	235	3	21	133	118,0	232	495	35,0
125	125	325	120	188	220	8x26	270	3	23	156	138,0	265	698	57,0
150	151	350	135	218	250	8x26	300	3	25	183	160,0	298	698	83,5

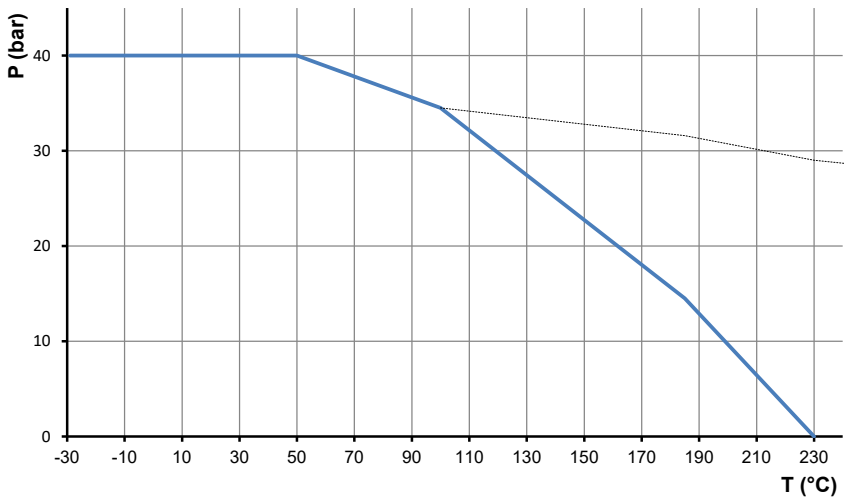
ACTUATOR CONNECTION: (in mm)

DN	ISO	Ø A	B	C	Ø D	n x F	G	I	J
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

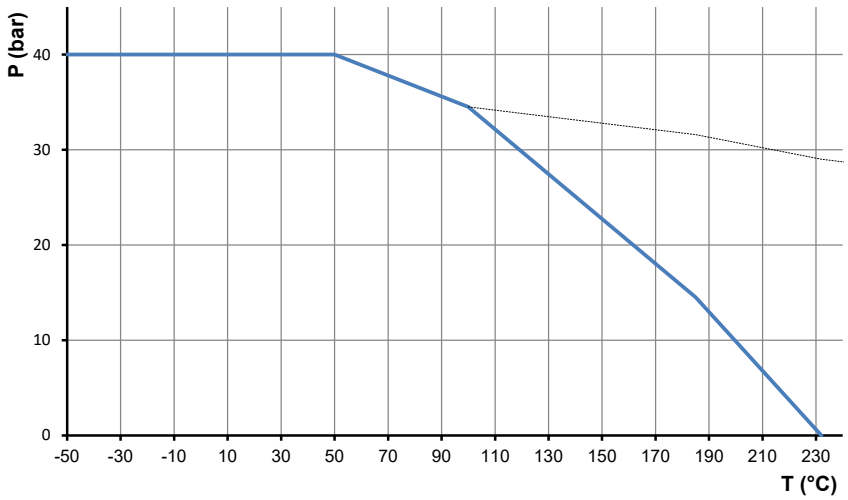
Subject to changes

PRESSURE-TEMPERATURE CHART:

AIT



IIT



TORQUES: (in Nm)

DN	Differential pressure
	40 bar
65	66
80	116
100	171
125	283
150	463

Kv VALUE: (in m³/h)

DN	Kv value
65	550
80	1.000
100	1.650
125	3.000
150	4.200

Subject to changes