THREE-PIECE BALL VALVE
330A-0303 SERIES

GENERAL FEATURES:
- Full bore
- Locking device
- Anti-blow out stem
- Temperature range: -20°C ~ 180°C
- Max. working pressure: 63 bar (1/4" ~ 3/4"), 40 bar (1" ~ 2"), 25 bar (2 1/2" ~ 3"), 20 bar (4")

APPLICATION:
- Chemical, pharmaceutical and petrochemical industry

FIGURE:
Fig. 331AAIT-0303: BSP threaded, body in steel
Fig. 332AAIT-0303: BW, body in steel
Fig. 333AAIT-0303: SW, body in steel
Fig. 334AAIT-0303: NPT threaded, body in steel
Fig. 331AIIT-0303: BSP threaded, body in stainless steel
Fig. 332AIIT-0303: BW, body in stainless steel
Fig. 333AIIT-0303: SW, body in stainless steel
Fig. 334AIIT-0303: NPT threaded, body in stainless steel





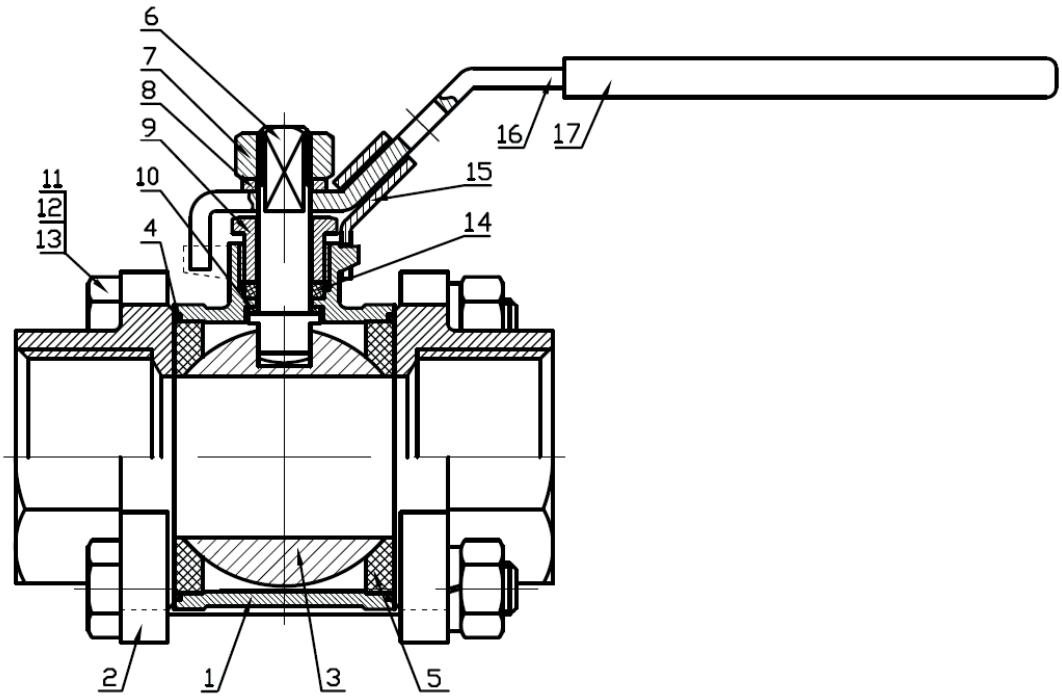
Lloyd's Register ISO 9001 : 2008

CE

Lloyd's Register PED/2014/68/EU

DESIGN STANDARDS	
Quality	ISO 9001 : 2008
Connection BSP	Cylindrical according to ISO 228-1
Connection NPT	According to ANSI B1.20.1
TESTS AND CERTIFICATES	
CE/PED	2014/68/EU
Pressure test	API 598, table 6

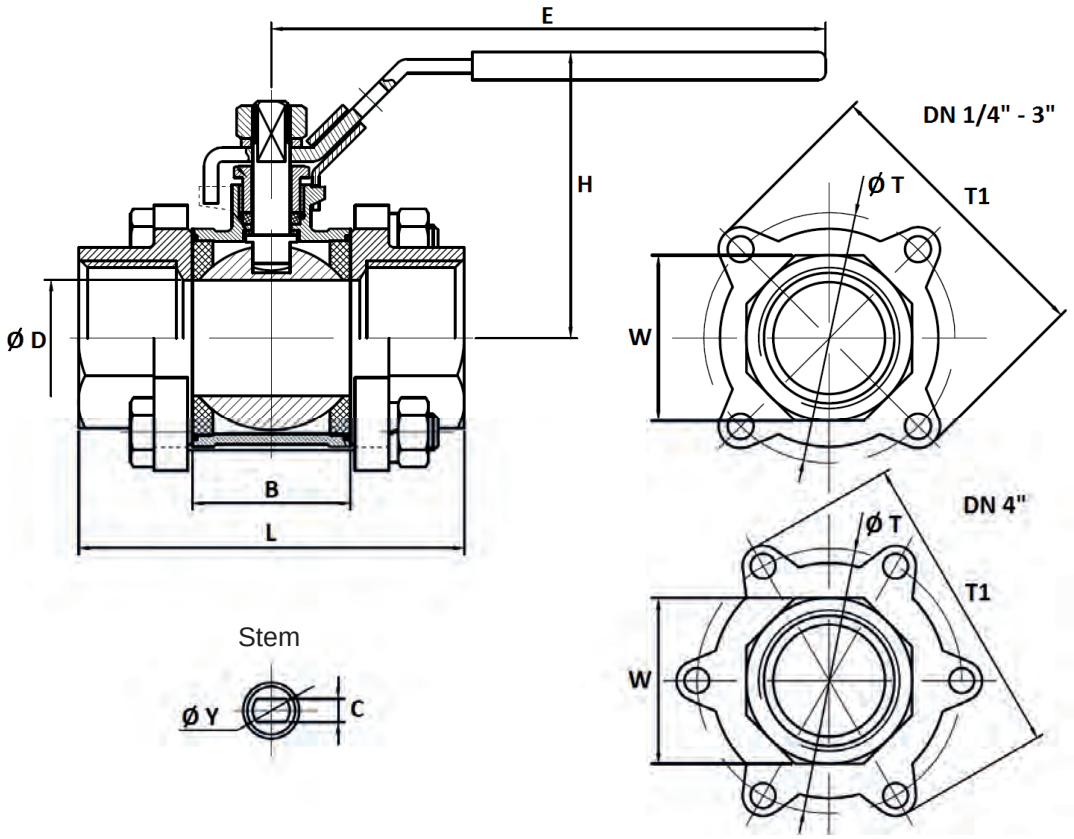
Subject to changes



Item	Description	Material	
		33*AAIT-0303	33*AIIT-0303
1	Body	Steel ASTM A 216 WCB	Stainless steel ASTMA A351 CF8M
2	End cap	Steel ASTM A 216 WCB	Stainless steel ASTMA A351 CF8M
3	Ball	Stainless steel AISI 304	Stainless steel AISI 316
4*	Body gasket	PTFE	
5*	Seat	PTFE + 15% glassfiber	
6	Stem	Stainless steel AISI 304	Stainless steel AISI 316
7	Packing nut	Stainless steel AISI 304	
8	Lever washer	Stainless steel AISI 304	
9	Packing gland	Stainless steel AISI 304	
10*	Thrust washer	PTFE	
11	Stud	Stainless steel AISI 304	
12	Stud washer	Stainless steel AISI 304	
13	Stud nut	Stainless steel AISI 304	
14*	Packing	PTFE	
15	Locking device	Stainless steel AISI 304	
16	Lever	Stainless steel AISI 304	
17	Lever sleeve	Plastic	

* Included in set of seats and joints

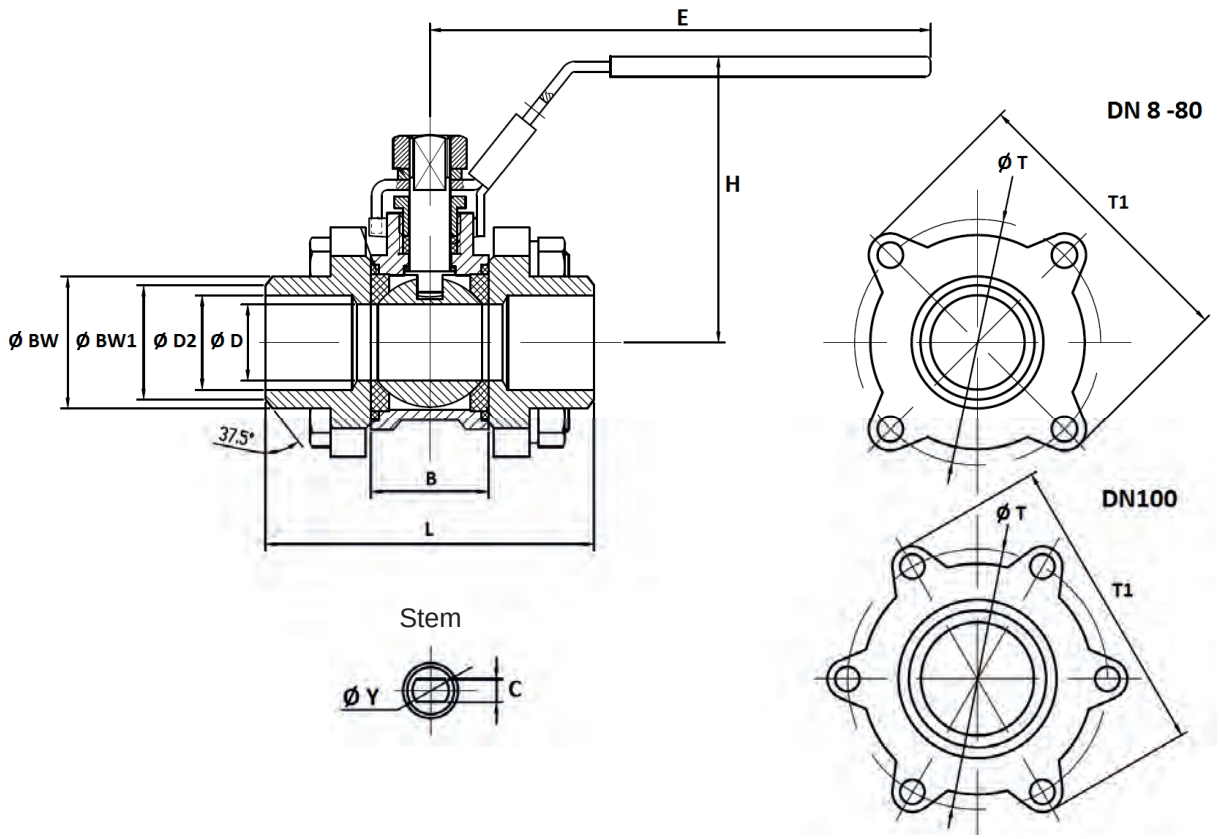
Subject to changes



DIMENSIONS BSP & NPT (mm):

Ø	DN	L	B	E	H	ØY	C	ØT	T1	W	Kg
1/4"	8	59,0	21,1	103	49	M8	5,0	38,5	51,0	18	0,30
3/8"	10	59,0	21,1	103	49	M8	5,0	38,5	51,0	21	0,30
1/2"	15	63,3	23,3	126	57	M8	5,0	43,0	57,5	26	0,45
3/4"	20	70,6	28,6	126	62	M8	5,0	51,5	66,0	32	0,60
1"	25	82,0	34,0	162	72	M10	6,5	58,0	74,5	39	0,86
1 1/4"	32	97,0	44,0	162	78	M10	6,5	70,0	86,5	48	1,32
1 1/2"	40	109,0	51,0	193	91	M12	8,5	81,5	100,5	55	2,03
2"	50	124,6	63,0	193	102	M12	8,5	101,0	121,5	67	3,19
2 1/2"	65	162,0	84,3	230	122	M14	9,8	136,0	161,0	83	7,06
3"	80	175,0	94,7	230	132	M14	9,8	157,0	185,0	99	10,70
4"	100	216,0	119,2	320	177	M20	16,0	195,5	226,5	127	20,95

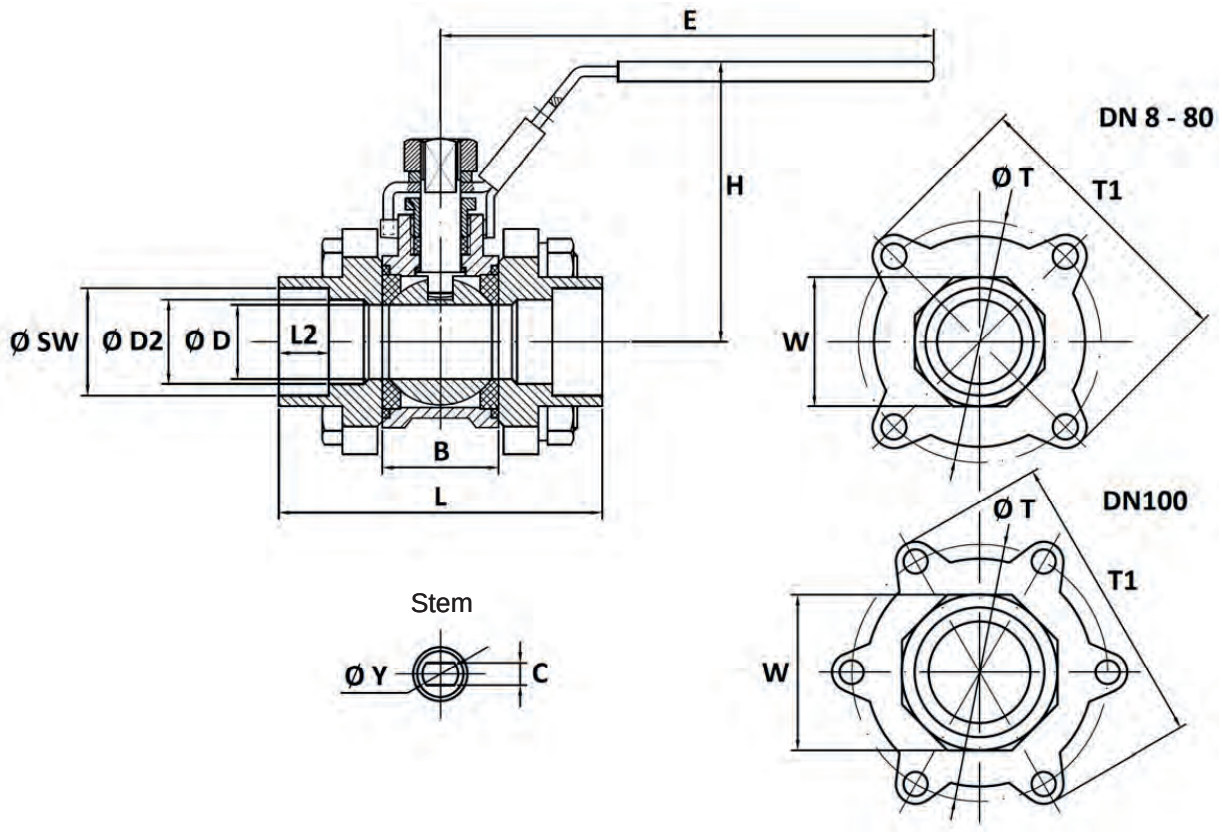
Subject to changes



DIMENSIONS BW (mm):

Ø	DN	ØD	L	B	E	H	ØY	C	ØT	T1	ØBW	ØBW1	ØD2	Kg
1/4”	8	11,6	59,0	21,1	103	49	M8	5,0	38,5	51,0	15,5	13,3	11,6	0,33
3/8”	10	12,5	59,0	21,1	103	49	M8	5,0	38,5	51,0	17,5	14,5	12,5	0,33
1/2”	15	15,0	63,3	23,3	126	57	M8	5,0	43,0	57,5	22,0	17,0	15,0	0,45
3/4”	20	20,0	70,6	28,6	126	62	M8	5,0	51,5	66,0	27,3	22,5	20,0	0,60
1”	25	25,0	82,0	34,0	162	72	M10	6,5	58,0	74,5	34,0	28,6	25,0	0,86
1 1/4”	32	32,0	97,0	44,0	162	78	M10	6,5	70,0	86,5	42,7	36,0	32,0	1,35
1 1/2”	40	38,0	109,0	51,0	193	91	M12	8,5	81,5	100,5	48,7	43,0	39,8	2,03
2”	50	50,0	124,6	63,0	193	102	M12	8,5	101,0	121,5	61,0	54,0	50,0	3,19
2 1/2”	65	64,0	162,0	84,3	230	122	M14	9,8	136,0	161,0	76,5	68,0	64,0	7,06
3”	80	76,0	175,0	94,7	230	132	M14	9,8	157,0	185,0	90,0	84,0	76,0	10,70
4”	100	100,0	216,0	119,2	320	177	M20	16,0	195,5	226,5	115,0	104,0	100,0	20,95

Subject to changes

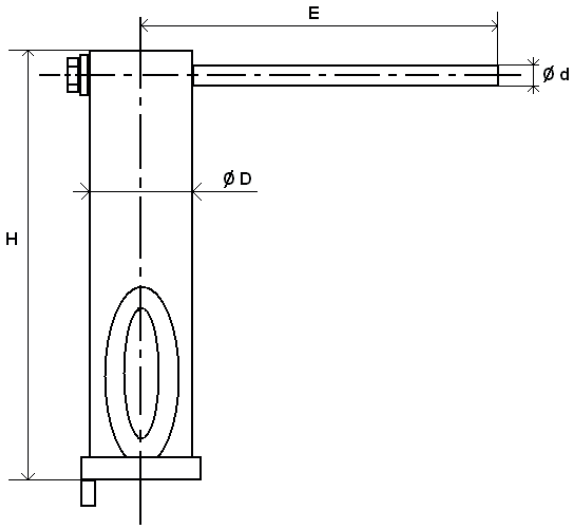


DIMENSIONS SW (mm):

Ø	DN	ØD	L	B	L2	E	H	ØY	C	ØT	T1	W	SW	Kg
1/4”	8	11,6	59,0	21,1	11	103	49	M8	5,0	38,5	51,0	18	14,1	0,30
3/8”	10	12,5	59,0	21,1	11	103	49	M8	5,0	38,5	51,0	21	17,6	0,30
1/2”	15	15,0	63,3	23,3	11	126	57	M8	5,0	43,0	57,5	26	21,9	0,45
3/4”	20	20,0	70,6	28,6	14	126	62	M8	5,0	51,5	66,0	32	27,4	0,60
1”	25	25,0	82,0	34,0	18	162	72	M10	6,5	58,0	74,5	39	34,2	0,86
1 1/4”	32	32,0	97,0	44,0	18	162	78	M10	6,5	70,0	86,5	48	42,8	1,32
1 1/2”	40	38,0	109,0	51,0	19	193	91	M12	8,5	81,5	100,5	55	48,8	2,03
2”	50	50,0	124,6	63,0	21	193	102	M12	8,5	101,0	121,5	67	61,1	3,19
2 1/2”	65	64,0	162,0	84,3	20	230	122	M14	9,8	136,0	161,0	83	77,0	7,06
3”	80	76,0	175,0	94,7	16	230	132	M14	9,8	157,0	185,0	99	89,9	10,70
4”	100	100,0	216,0	119,2	19	320	177	M20	16,0	195,5	226,5	127	115,4	20,95

Subject to changes

STEM EXTENSION:



DIMENSIONS (mm):

Ø	DN	H	E	ØD	Ød	ØY
1/4”	8	126,0	124	28,0	12	0,33
3/8”	10	126,0	124	28,0	12	0,33
1/2”	15	126,3	124	28,0	12	0,34
3/4”	20	126,3	124	28,0	12	0,34
1”	25	126,3	157,8	32,0	14	0,48
1 1/4”	32	126,3	157,8	32,0	14	0,48
1 1/2”	40	128,0	188,5	36,5	14	0,62
2”	50	128,0	188,5	36,5	14	0,62

OPTIONS:



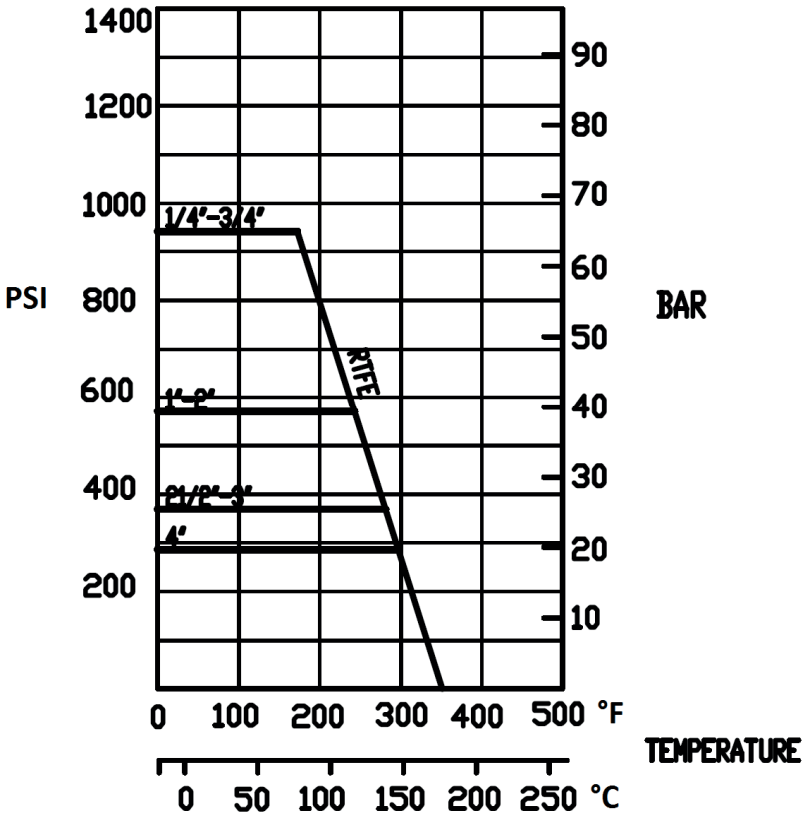
Stem extension in stainless steel AISI 304
(DN8 up to DN50 / 1/4” up to 2”)



Blue protection sleeve

Subject to changes

PRESSURE-TEMPERATURE CHART:



Kv VALUES:

Ø	DN	Kvs
1/4"	8	5,2
3/8"	10	5,2
1/2"	15	20,7
3/4"	20	30,2
1"	25	40,6
1 1/4"	32	70,0
1 1/2"	40	90,8
2"	50	208,4
2 1/2"	65	275,9
3"	80	501,6
4"	100	865,0

BREAK AWAY TORQUE: (Nm)

Ø	DN	Nm
1/4”	8	2,0
3/8”	10	2,0
1/2”	15	2,5
3/4”	20	3,5
1”	25	6,0
1 1/4”	32	7,0
1 1/2”	40	12,0
2”	50	16,0
2 1/2”	65	40,0
3”	80	50,0
4”	100	70,0

Subject to changes