THREE-PIECE BALL VALVE
350 SERIES

GENERAL FEATURES:
- Full bore
- Locking device
- Mounting flange according to ISO 5211
- Anti-blow out stem
- Ball with cavity balancing hole
- CE approval
- EN 10204-3.1 material certificate

FIGURE:
351BAIIT: BSP according to ISO 228-1
352BAIIT: BW according to ANSI B16.25 & DIN 3239 part 1
353BAIIT: SW according to ANSI B16.11 & DIN 3239 part 2
354BAIIT: NPT according to ASME B1.20.1
355BAIIT: Extended BW according to ANSI B16.25 & DIN 3239 part 1
356BAIIT: Flanged PN25 / PN40



CE

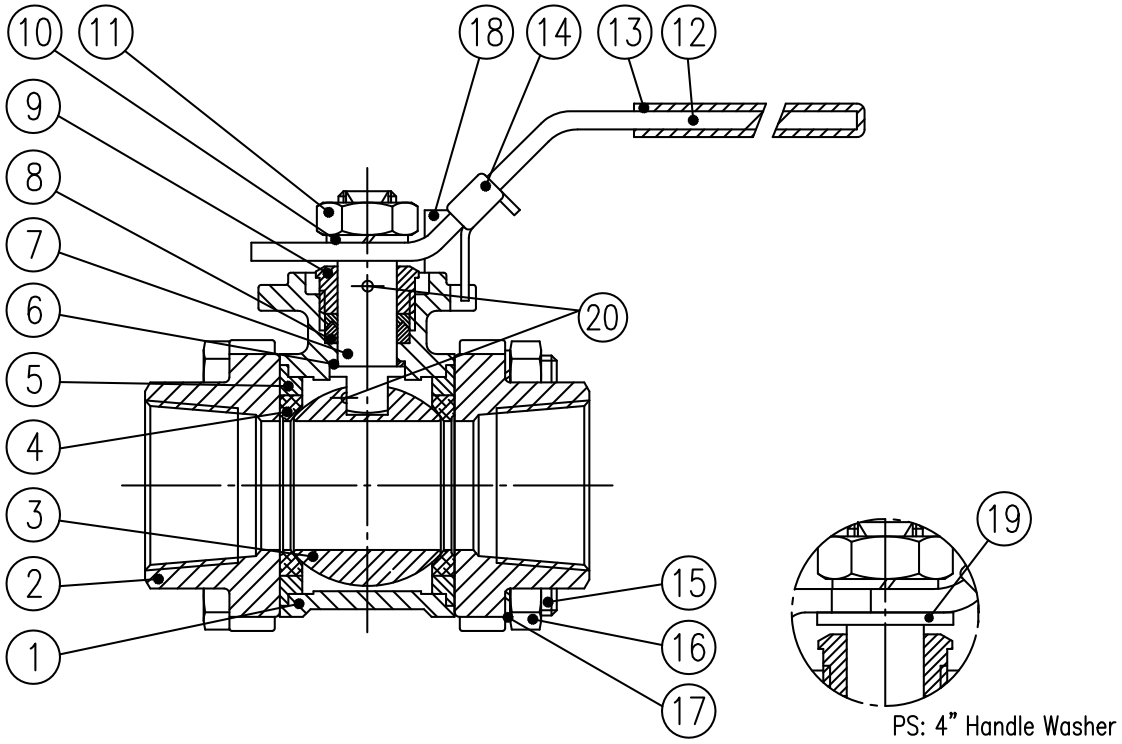
EC 1935/2004

DESIGN STANDARDS	
Compliance	ANSI B16.34, ANSI B16.25, ANSI B1.20, API 6D
Actuator mounting flange	ISO 5211
Marking	ISO 5209, EN 19
TESTS AND CERTIFICATES	
Quality Assurance	ISO 9001
Food approval	EU-Food
Material certificate	EN 10204-3.1
Pressure test	API 598

Subject to changes

THREE-PIECE BALL VALVE
350 SERIES - Materials

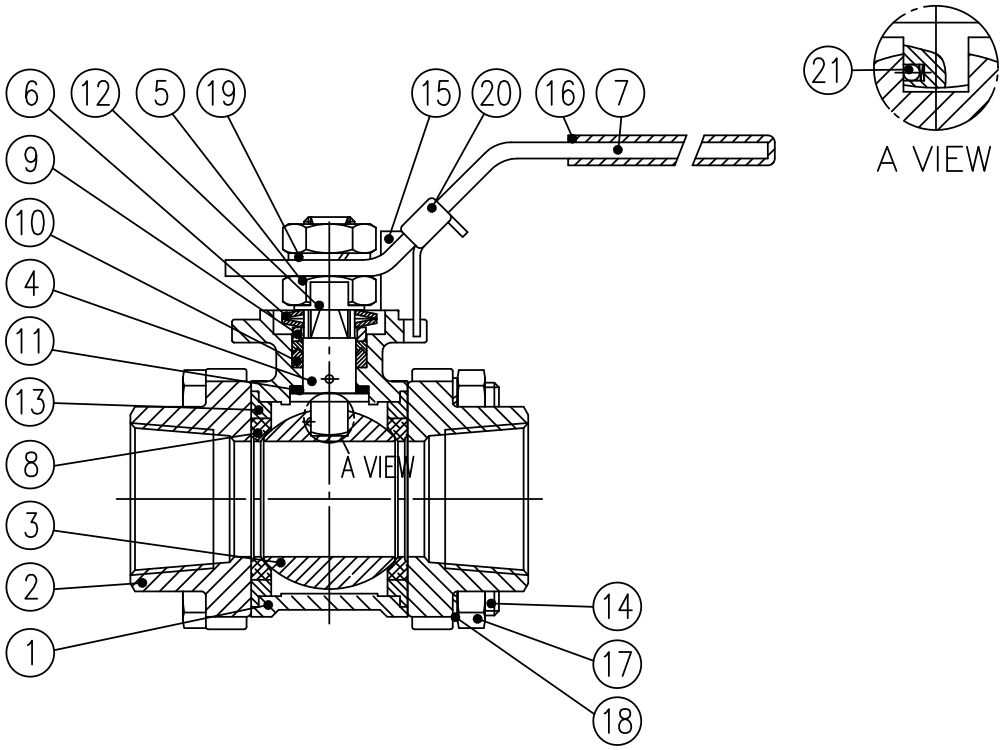
1/4" ~ 2"



Item	Description	Materials
1	Body	A351 Gr CF8M
2	End cap	A351 Gr CF8M
3	Ball	Stainless steel CF8M (1/2" ~ 2" ASTM A 316
4	Seat	PTFE
5	Joint gasket	PTFE
6	Stem seal	PTFE
7	Stem	Stainless steel 316
8	Gland packing	PTFE
9	Gland nut	Stainless steel 304
10	Stem washer	Stainless steel 304
11	Stem nut	Stainless steel 304
12	Handle	Stainless steel 304
13	Handel sleeve	Vinyl
14	Locking device	Stainless steel 304
15	Bolt	Stainless steel 304
16	Bolt nut	Stainless steel 304
17	Bolt washer	Stainless steel 304
18	Stop pin	Stainless steel 304
19	Handle washer	Stainless steel 304
20	Anti-static device	Stainless steel 316

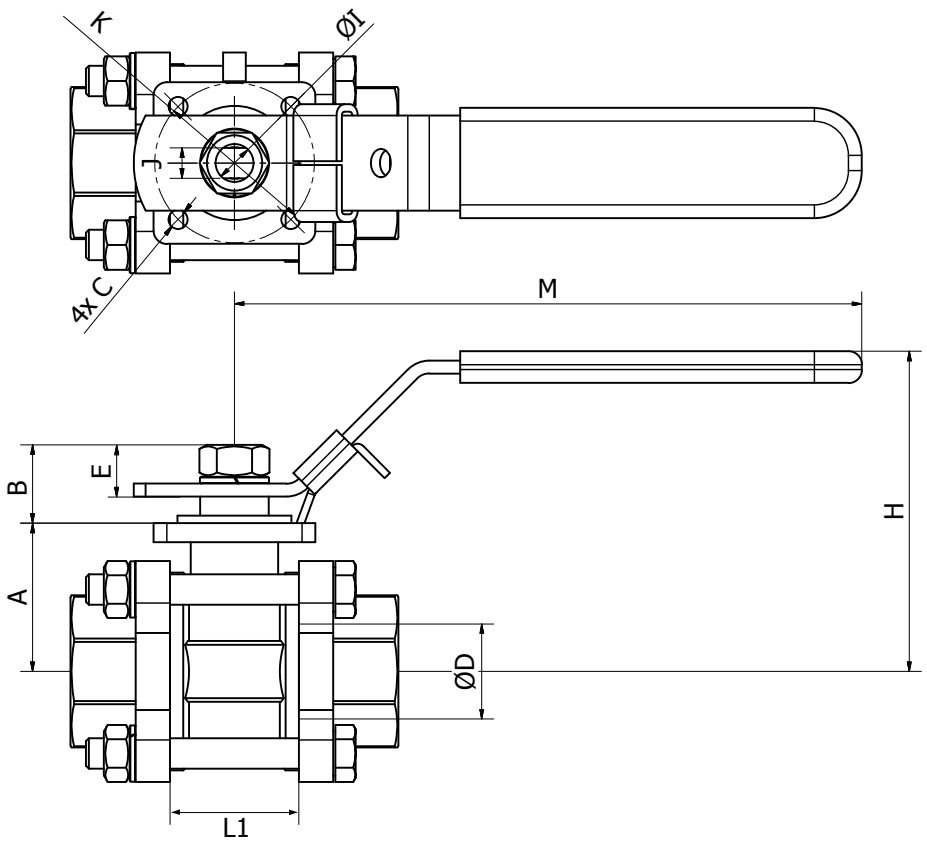
Subject to changes

2 1/2" ~ 4"



Item	Description	Materials
1	Body	A351 Gr CF8M
2	End cap	A351 Gr CF8M
3	Ball	A351 Gr CF8M
4	Stem	Stainless steel 316
5	Stem nut	Stainless steel 304
6	Belleville washer	Spring steel AISI 301
7	Lever	Stainless steel 304
8	Seat	PTFE
9	Gland	Stainless steel 304
10	Stem packing	RPTFE
11	Stem seal	RPTFE
12	Lock washer	Stainless steel 304
13	Joint gasket	PTFE
14	Bolt	ASTM A193 B8
15	Stop pin	Stainless steel 304
16	Handle sleeve	Vinyl
17	Bolt nut	ASTM A194 8
18	Bolt washer	Stainless steel 304
19	Stem washer	Stainless steel 304
20	Locking device	Stainless steel 304
21	Anti-static device	Stainless steel 316

Subject to changes



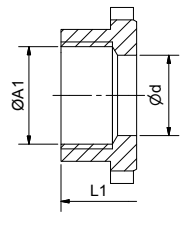
DIMENSIONS: (mm)

Ø	DN	A	B	C	D	E	H	ØI	J	K	L1	M	ISO 5211	Kg
1/4"	8	29,5	17,3	M5	11,6	11,0	65	9,5	6,5	36	23,6	130	F03	0,6
3/8"	10	29,5	17,3	M5	12,7	11,0	65	9,5	6,5	36	23,6	130	F03	0,6
1/2"	15	29,5	17,3	M5	15,0	11,0	65	9,5	6,5	36	23,6	130	F03	0,6
3/4"	20	33,0	17,3	M5	20,0	11,0	68	9,5	6,5	36	28,0	130	F03	0,8
1"	25	39,0	18,7	M5	25,0	13,5	80	11	8,0	42	33,9	160	F04	1,1
1 1/4"	32	41,0	22,5	M5	32,0	13,5	85	11	8,0	42	42,5	160	F04	1,7
1 1/2"	40	47,0	25,1	M6	38,0	15,6	94	14	9,7	50	53,2	185	F05	2,5
2"	50	55,5	25,1	M6	50,0	15,6	103	14	9,7	50	64,6	185	F05	3,7
2 1/2"	65	71,5	42,6	M8	65,0	23,2	150	19	12,0	70	87,0	260	F07	7,4
3"	80	84,5	39,3	M10	80,0	18,7	162	19	12,0	102	99,0	260	F10	11,2
4"	100	106,5	52,3	M10	100,0	34,2	190	24	15,0	102	127,0	290	F10	20,3

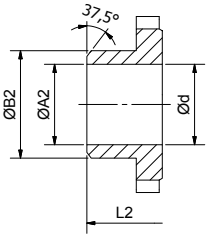
Subject to changes

THREE-PIECE BALL VALVE
350 SERIES - Dimensions

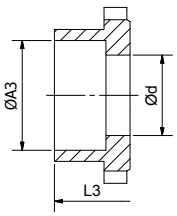
BSP/NPT



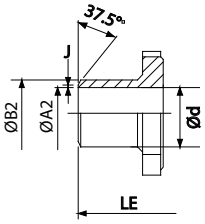
BW DIN



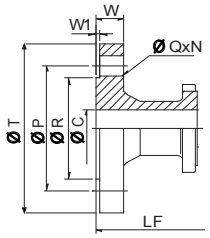
SW



Extended BW



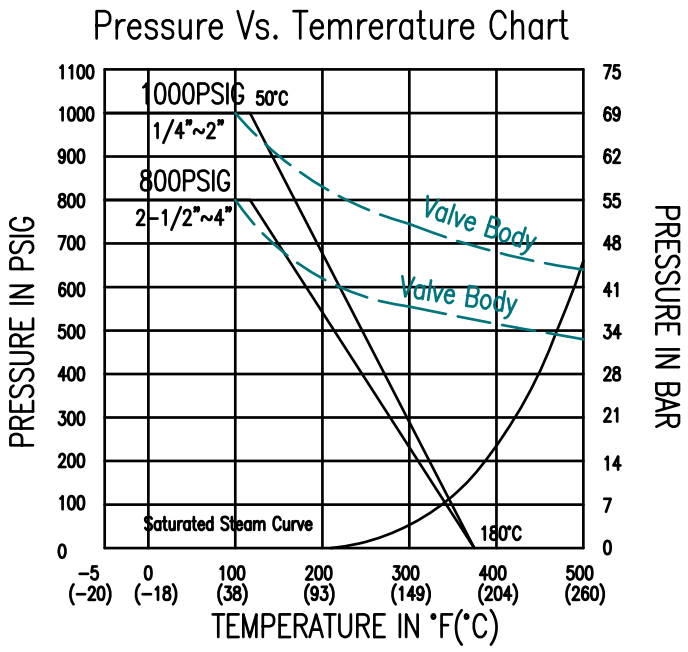
Flanged PN25/PN40



DIMENSIONS: (mm)

ØA1	Ød	L1	ØA2	ØB2	L2	ØA3	L3	LE	N	ØP	ØQ	ØR	ØT	W	W1	LF
1/4"	11,6	63,7	11,6	16,2	62,7	14,3	63,7	225	/	/	/	/	/	/	/	/
3/8"	12,7	63,7	12,7	17,5	62,7	17,6	63,7	225	/	/	/	/	/	/	/	/
1/2"	15,0	65,7	15,0	22,7	65,7	21,9	65,7	225	4	65	14	45	95	16	2	130
3/4"	20,0	76,2	20,0	27,5	76,2	27,3	76,2	225	4	75	14	58	105	18	2	150
1"	25,0	86,2	25,0	34,0	86,2	33,9	86,2	245	4	85	14	68	115	18	2	160
1 1/4"	32,0	102,8	32,0	42,7	102,8	42,8	102,8	255	4	100	18	78	140	18	2	180
1 1/2"	38,0	119,4	38,0	48,6	119,4	48,9	119,4	260	4	110	18	88	150	18	3	200
2"	50,0	131,4	50,0	60,5	131,4	61,3	131,4	275	4	125	18	102	165	20	3	230
2 1/2"	65,0	164,0	65,0	76,3	164,0	76,9	164,0	334	8	145	18	122	185	22	3	290
3"	80,0	182,7	80,0	90,0	182,7	90,0	182,7	354	8	160	18	138	200	24	3	310
4"	100,0	235,2	100,0	116,0	236,2	115,5	235,2	365	8	190	22	162	235	24	3	350

PRESSURE-TEMPERATURE CHART:



Kv VALUES & TORQUES:

Ø	Kv (m³/h)	T (Nm)
1/4"	6	7
3/8"	7	7
1/2"	13	7
3/4"	34	8
1"	60	14
1 1/4"	94	16
1 1/2"	213	26
2"	366	34
2 1/2"	595	56
3"	935	78
4"	1.700	100

Torques at 0 bar differential pressure

Subject to changes