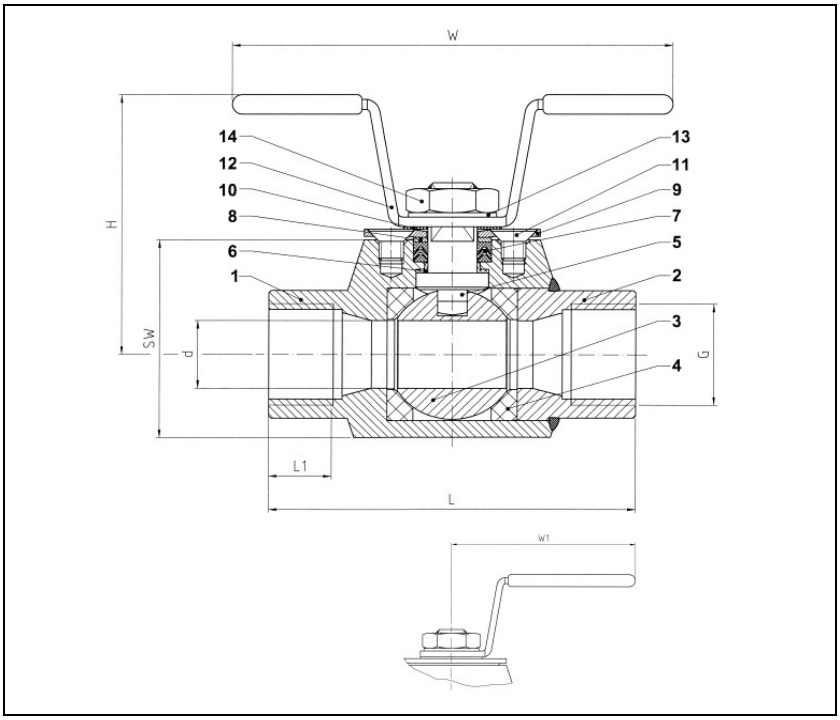
BALL VALVES INTEC

K110, DN8 - DN20, PN100/160

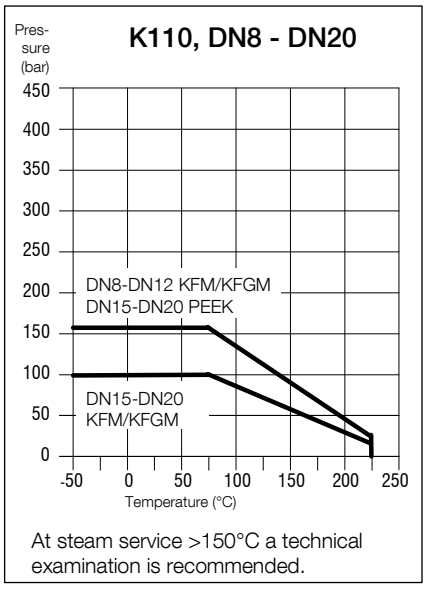


Mini plant ball valve
with female threaded ends
acc. to EN ISO 228-1
face to face dimensions acc. to
DIN 3202 part 4-M3

Specification:
One-piece ball valve, female threaded ends acc. to EN ISO 228-1, blow-out-proof-stem, body material stainless steel (1.4571/1.4404), free of non ferrous metals, seat KFM/KFGM or PEEK for higher pressures and temperatures, stem packing KF chevron ring, certified acc. to GERMAN clean air act VDI 2440, with lever.

Marking: INTEC
Type: K110

No.	Part	Material code
1	body	1.4571/1.4404
2	cap	1.4571/1.4404
3	ball	1.4571/1.4404
4	seat	KFM/KFGM/PEEK-KFM
5	stem	1.4571/1.4404
6	fricion washer	KFSM/PEEK
7	chevron ring	KFM
8	washer	1.4301/1.4571/1.4404
9	gland	1.4310
10	thrust washer	PEEK
11	countersunk screw	A2
12	lever	1.4301/1.4571/plasticised PVC
13	serrated lock washer	A2
14	hex. nut	A2



At steam service >150°C a technical examination is recommended.

Dimensions

DN mm	connect. G in inch	PN	dimensions (mm) d	L	L1	H	W	W1	SW* mm
8	G 1/4	160	7.5	50	9.7	45	90		27
12	G 3/8	160	11	60	10.1	49	90		32
12	G 1/2	160	11	65	13.2	49	90		32
15	G 1/2	100	14	75	13.2	53		100	41
15	G 1/2	160	14	75	13.2	53		100	41
15	G 3/4	100	14	80	14.5	53		100	41
15	G 3/4	160	14	80	14.5	53		100	41
20	G 3/4	100	17	80	14.5	66		120	46
20	G 3/4	160	17	80	14.5	66		120	46
20	G 1	100	17	90	16.8	66		120	46
20	G 1	160	17	90	16.8	66		120	46

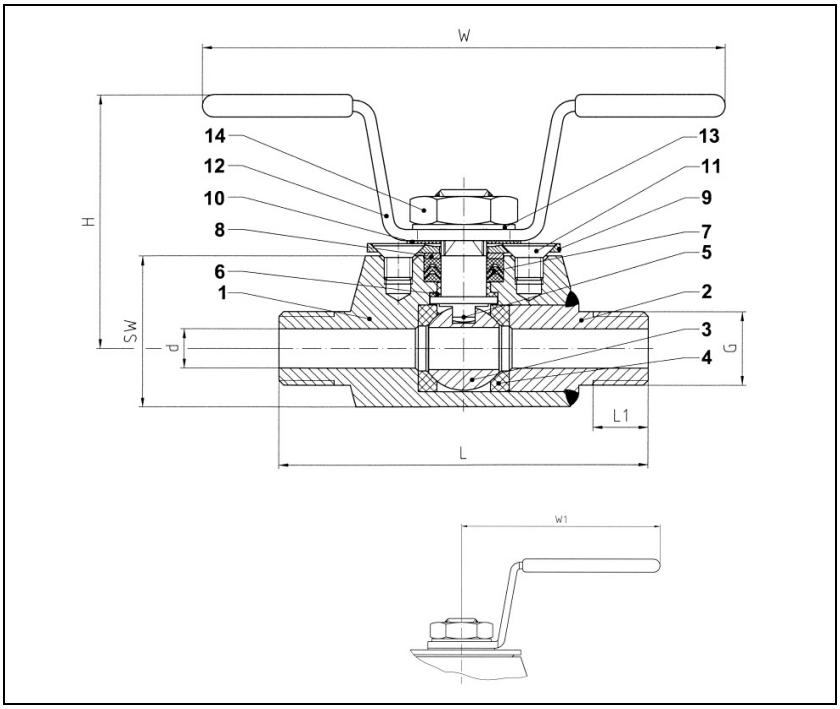
Gearbox with connection acc. to DIN EN ISO 5211 is possible.

* Width across in mm

Ordering example:
INTEC K110, DN 12, G ½", KFGM, PN160, 1.4571

BALL VALVES INTEC

K120, DN8 - DN20, PN100/160

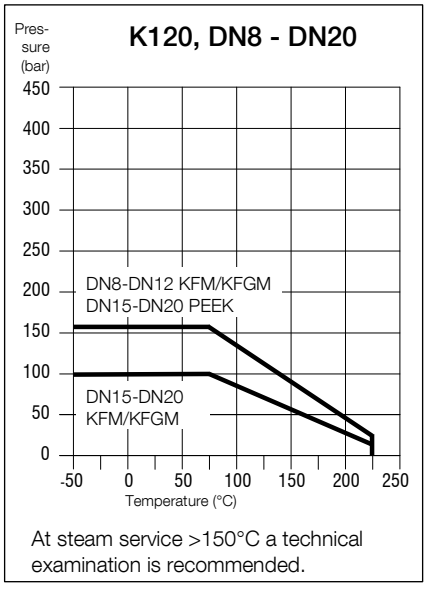


Mini plant ball valve
with male threaded ends
acc. to EN ISO 228-1
face to face dimensions acc. to producers standard

Specification:
One-piece ball valve, male threaded ends acc. to EN ISO 228-1, blow-out-proof-stem, body material stainless steel (1.4571/1.4404), free of non ferrous metals, seat KFM/KFGM or PEEK for higher pressures and temperatures, stem packing KF chevron ring, certified acc. to GERMAN clean air act VDI 2440, with lever.

Marking: INTEC
Type: K120

No.	Part	Material code
1	body	1.4571/1.4404
2	cap	1.4571/1.4404
3	ball	1.4571/1.4404
4	seat	KFM/KFGM/PEEK-KFM
5	stem	1.4571/1.4404
6	friction washer	KFSM/PEEK
7	chevron ring	KFM
8	washer	1.4301/1.4571/1.4404
9	gland	1.4310
10	thrust washer	PEEK
11	countersunk screw	A2
12	lever	1.4301/1.4571/plasticised PVC
13	serrated lock washer	A2
14	hex. nut	A2



At steam service >150°C a technical examination is recommended.

Dimensions

DN mm	connect. G in inch	PN	dimensions (mm) d	L	L1	H	W	W1	SW* mm
8	G 1/4	160	7.5	65	9.7	45	90		27
12	G 3/8	160	11	70	10.1	49	90		32
12	G 1/2	160	11	80	13.2	49	90		32
15	G 1/2	100	14	85	13.2	53		100	41
15	G 1/2	160	14	85	13.2	53		100	41
15	G 3/4	100	14	90	14.5	53		100	41
15	G 3/4	160	14	90	14.5	53		100	41
20	G 3/4	100	17	90	14.5	66		120	46
20	G 3/4	160	17	90	14.5	66		120	46
20	G 1	100	17	95	16.8	66		120	46
20	G 1	160	17	95	16.8	66		120	46

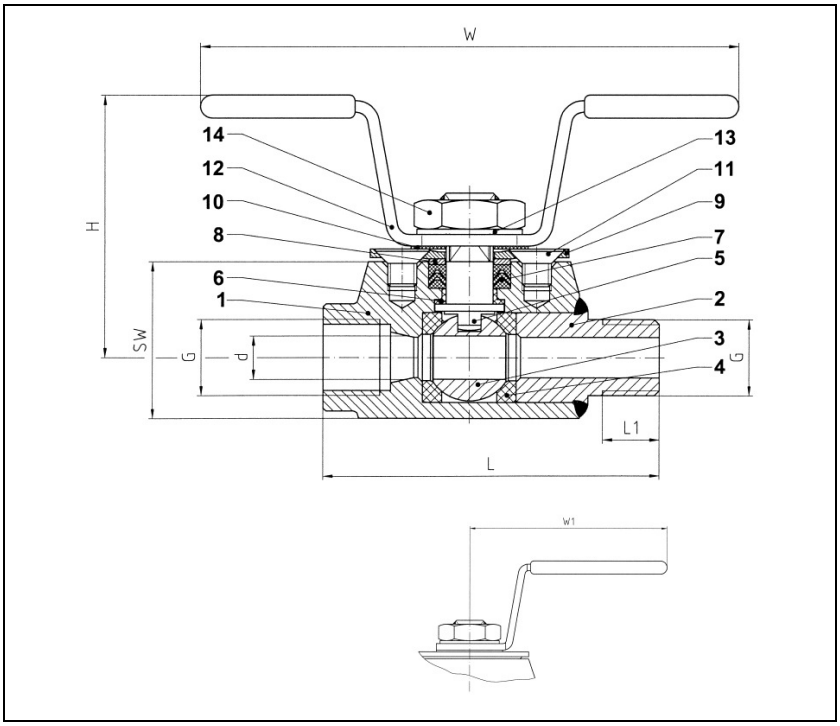
Gearbox with connection acc. to DIN EN ISO 5211 is possible.

* Width across in mm

Ordering example:
INTEC K120, DN 15, G ¾", KFGM, PN100, 1.4571

BALL VALVES INTEC

K130, DN8 - DN20, PN100/160

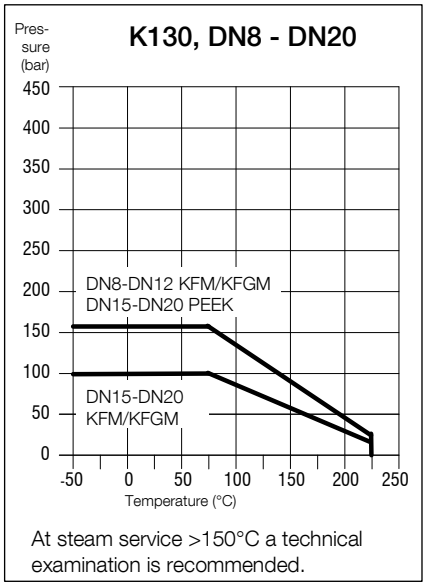


Mini plant ball valve with male and female threaded ends acc. to EN ISO 228-1 face to face dimensions acc. to producers standard

Specification:
One-piece ball valve, male and female threaded ends acc. to EN ISO 228-1, blow-out-proof-stem, body material stainless steel (1.4571/1.4404), free of non ferrous metals, seat KFM/KFGM or PEEK for higher pressures and temperatures, stem packing KF chevron ring, certified acc. to GERMAN clean air act VDI 2440, with lever.

Marking: INTEC
Type: K130

No.	Part	Material code
1	body	1.4571/1.4404
2	cap	1.4571/1.4404
3	ball	1.4571/1.4404
4	seat	KFM/KFGM/PEEK-KFM
5	stem	1.4571/1.4404
6	friction washer	KFSM/PEEK
7	chevron ring	KFM
8	washer	1.4301/1.4571/1.4404
9	gland	1.4310
10	thrust washer	PEEK
11	countersunk screw	A2
12	lever	1.4301/1.4571/plasticised PVC
13	serrated lock washer	A2
14	hex. nut	A2



At steam service >150°C a technical examination is recommended.

Dimensions

DN mm	connect. G in inch	PN	dimensions (mm) d	L	L1	H	W	W1	SW* mm
8	G 1/4	160	7.5	57,5	9.7	45	90		27
12	G 3/8	160	11	65	10.1	49	90		32
12	G 1/2	160	11	80	13.2	49	90		32
15	G 1/2	100	14	80	13.2	53		100	41
15	G 1/2	160	14	80	13.2	53		100	41
15	G 3/4	100	14	85	14.5	53		100	41
15	G 3/4	160	14	85	14.5	53		100	41
20	G 3/4	100	17	85	14.5	66		120	46
20	G 3/4	160	17	85	14.5	66		120	46
20	G 1	100	17	92,5	16.8	66		120	46
20	G 1	160	17	92,5	16.8	66		120	46

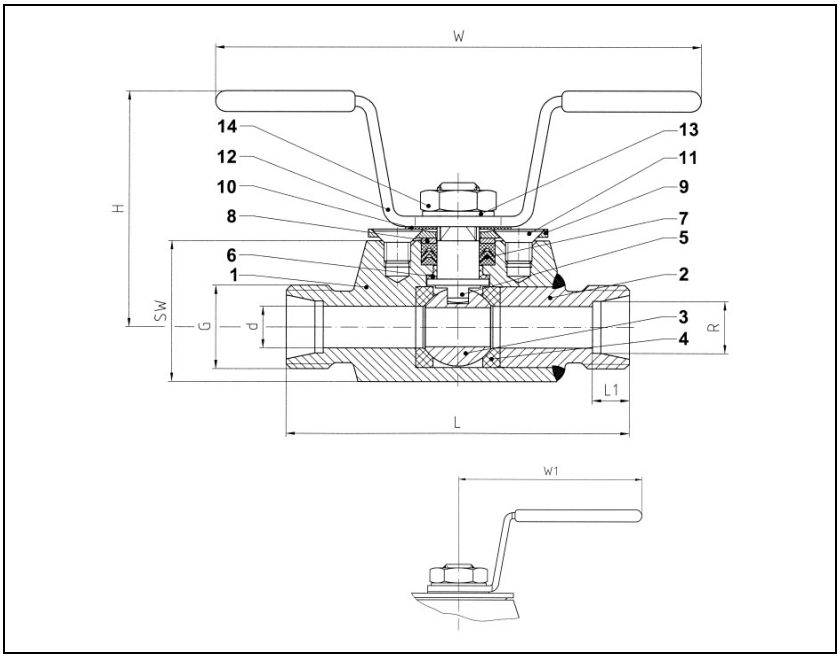
Gearbox with connection acc. to DIN EN ISO 5211 is possible.

* Width across in mm

Ordering example:
INTEC K130, DN 12, G ½", KFGM, PN160, 1.4571

BALL VALVES INTEC

K140, DN8 – DN15, PN100/160/250

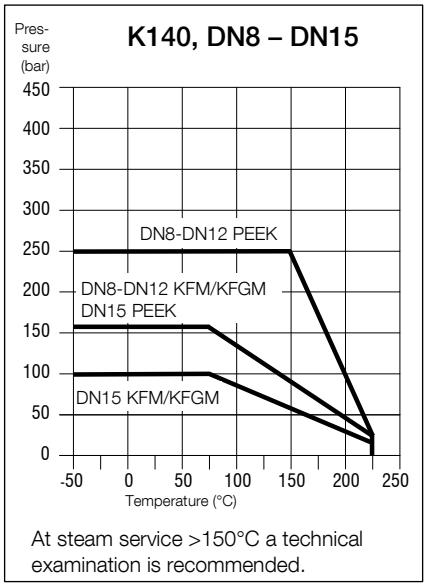


Mini plant ball valve with pipe screwing light/heavy series acc. to DIN 2353 face to face dimensions acc. to producers standard

Specification:
One-piece ball valve with pipe screwing light/heavy series acc. to DIN 2353, blow-out-proof-stem, body material stainless steel (1.4571/1.4404), free of non ferrous metals, seat KFM/KFGM or PEEK for higher pressures and temperatures, stem packing KF chevron ring, certified acc. to GERMAN clean air act VDI 2440, with lever.

Marking: INTEC
Type: K140

No.	Part	Material code
1	body	1.4571/1.4404
2	cap	1.4571/1.4404
3	ball	1.4571/1.4404
4	seat	KFM/KFGM/PEEK-KFM
5	stem	1.4571/1.4404
6	friction washer	KFSM/PEEK
7	chevron ring	KFM
8	washer	1.4301/1.4571/1.4404
9	gland	1.4310
10	thrust washer	PEEK
11	countersunk screw	A2
12	lever	1.4301/1.4571/plasticised PVC
13	serrated lock washer	A2
14	hex. nut	A2



At steam service >150°C a technical examination is recommended.

Dimensions

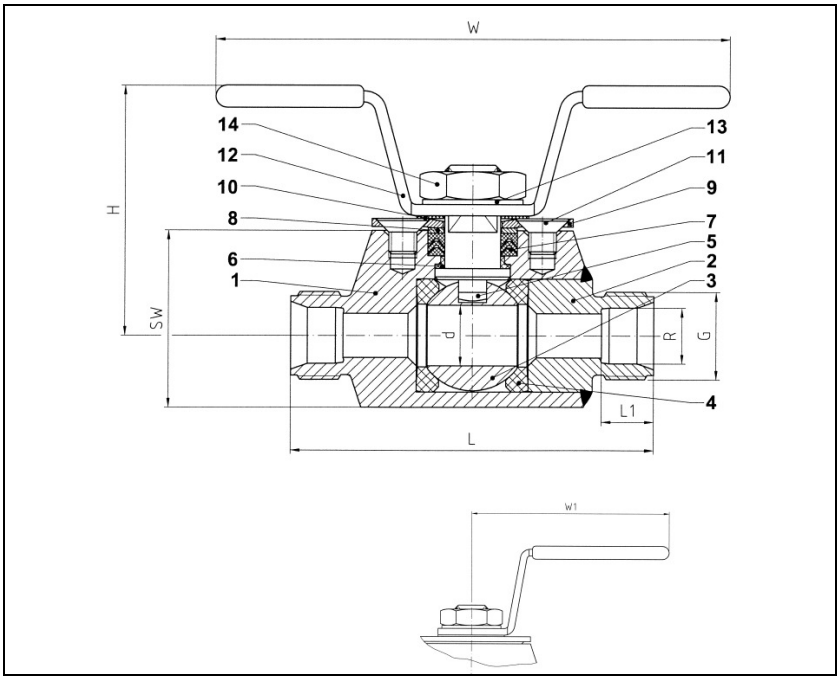
DN mm	R	G	PN	dimensions (mm) d	L	L1	H	W	W1	SW* mm
8	6-L	M12 x 1.5	160	7.5	60	7	45	90		27
8	6-S	M14 x 1.5	160	7.5	60	7	45	90		27
8	6-S	M14 x 1.5	250	7.5	60	7	45	90		27
8	8-L	M14 x 1.5	160	7.5	60	7	45	90		27
8	8-S	M16 x 1.5	160	7.5	60	7	45	90		27
8	8-S	M16 x 1.5	250	7.5	60	7	45	90		27
8	10-L	M16 x 1.5	160	7.5	65	7	45	90		27
8	10-S	M18 x 1.5	160	7.5	65	7.5	45	90		27
8	10-S	M18 x 1.5	250	7.5	65	7.5	45	90		27
12	12-L	M18 x 1.5	160	11	65	7	49	90		32
12	12-S	M20 x 1.5	160	11	65	7.5	49	90		32
12	12-S	M20 x 1.5	250	11	65	7.5	49	90		32
12	15-L	M22 x 1.5	160	11	70	7	49	90		32
15	15-L	M22 x 1.5	100	14	75	7	53		100	41
15	15-L	M22 x 1.5	160	14	75	7	53		100	41
15	18-L	M26 x 1.5	100	14	75	7.5	53		100	41
15	18-L	M26 x 1.5	160	14	75	7.5	53		100	41

Gearbox with connection acc. to DIN EN ISO 5211 is possible. * Width across in mm

Ordering example:
INTEC K140, DN 12, 12-L, KFGM, PN160, 1.4571

BALL VALVES INTEC

K150, DN8 – DN15, PN100/160/250

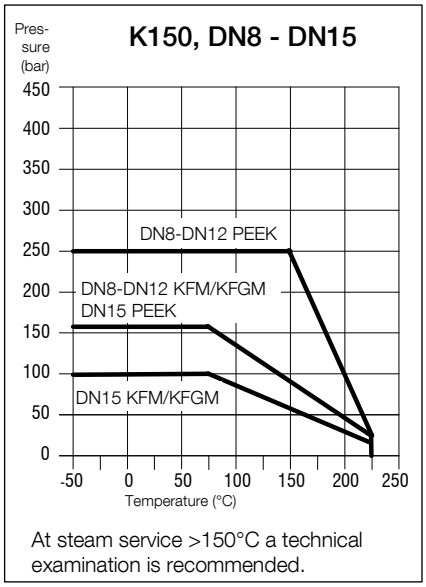


Mini plant ball valve for clamping ring connection face to face dimensions acc. to producers standard

Specification:
One-piece ball valve for clamping ring connection, blow-out-proof-stem, body material stainless steel (1.4571/1.4404), free of non ferrous metals, seat KFM/KFGM or PEEK for higher pressures and temperatures, stem packing KF chevron ring, certified acc. to GERMAN clean air act VDI 2440, with lever.

Marking: INTEC
Type: K150

No.	Part	Material code
1	body	1.4571/1.4404
2	cap	1.4571/1.4404
3	ball	1.4571/1.4404
4	seat	KFM/KFGM/PEEK-KFM
5	stem	1.4571/1.4404
6	friction washer	KFSM/PEEK
7	chevron ring/packing	KFM/Graphite
8	washer	1.4301/1.4571/1.4404
9	gland	1.4310
10	thrust washer	PEEK
11	countersunk screw	A2
12	lever	1.4301/1.4571/plasticised PVC
13	serrated lock washer	A2
14	hex. nut	A2



At steam service >150°C a technical examination is recommended.

Dimensions

DN mm	R	G in inch	PN	dimensions (mm) d	L	L1	H	W	W1	SW* mm
8	6	7/16	160	7.5	60	7.9	45	90		27
8	6	7/16	250	7.5	60	7.9	45	90		27
8	8	1/2	160	7.5	60	8.6	45	90		27
8	8	1/2	250	7.5	60	8.6	45	90		27
8	10	5/8	160	7.5	65	9.5	45	90		27
8	10	5/8	250	7.5	65	9.5	45	90		27
12	12	3/4	160	11	65	12.5	49	90		32
12	12	3/4	250	11	65	12.5	49	90		32
15	16	7/8	100	14	80	14.5	53		100	41
15	16	7/8	160	14	80	14.5	53		100	41
15	18	1	100	14	80	14.5	53		100	41
15	18	1	160	14	80	14.5	53		100	41

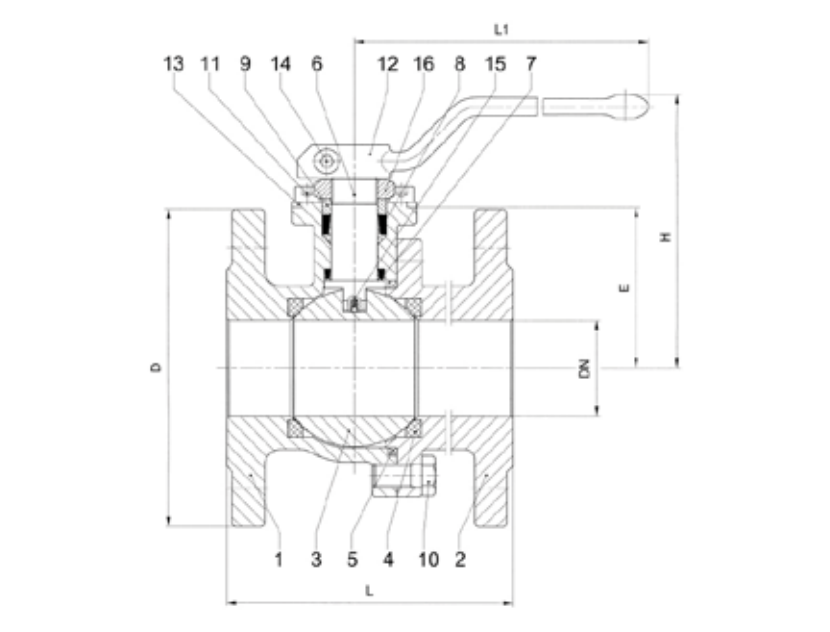
Gearbox with connection acc. to DIN EN ISO 5211 is possible.

* Width across in mm

Ordering example:
INTEC K150, DN 12, R 12, KFGM, PN160, 1.4571

BALL VALVES INTEC

K200, DN15 - DN100, PN16/40
floating ball, soft seated



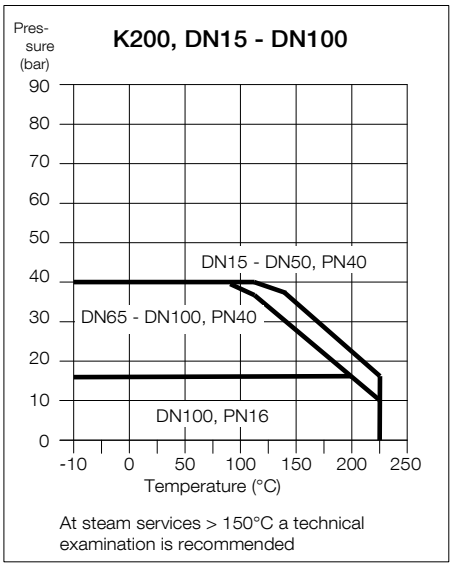
Flanged ball valve
full bore
face to face acc. to EN 558, GR. 1
face to face acc. to EN 558, GR. 27
flanges acc. to EN 1092

Specification:

Two-piece ball valve with flanges acc. to EN 1092, face to face dimensions acc. to EN 558, GR.1/GR.27, full bore, blow-out-proof stem, vacuum-tight, body material stainless steel (1.4408) or carbon steel (1.0619), antistatic device, free of non ferrous metals, seat full chambered, stem packing Graphite/KFGN/KFAM cone ring system dynamic loaded adjustable, top flange DIN EN ISO 5211, approved by PED, certified acc. to GERMAN clean air act VDI 2440, Fire-Safe acc. to API 607 and DIN EN ISO 10497, with lever.

Marking: INTEC K200

No.	Part	Material	Material
Standard design			
1	body	1.0619	1.4408
2	cap	1.0619	1.4408
3	ball	1.4408	
4	seat	KFGN/KFM	
5	body seal	KF	
6	stem	1.4462	
7	below seal	KFGN/Graphite	
8	upper seal	KFAM/Graphite	
9	bearing	PEEK	
10	hex. screw	A4-70	
11	allen screw	A2-70	
12	lever	1.4408/1.4308/steel zincplated	
13	stopper	1.4301	
14	allen screw	A2-70	
15	antistatic element	1.4401/1.4571/1.4404	
16	hex. nut self-locking	A2/1.4301	
Fire-Safe design			
5	combined body seal	KF-Graphite	
9	Fire-Safe seal	Graphite	
	ring	1.4571/1.4404	
	thrust washer	PEEK	



At steam services > 150°C a technical examination is recommended

Dimensions

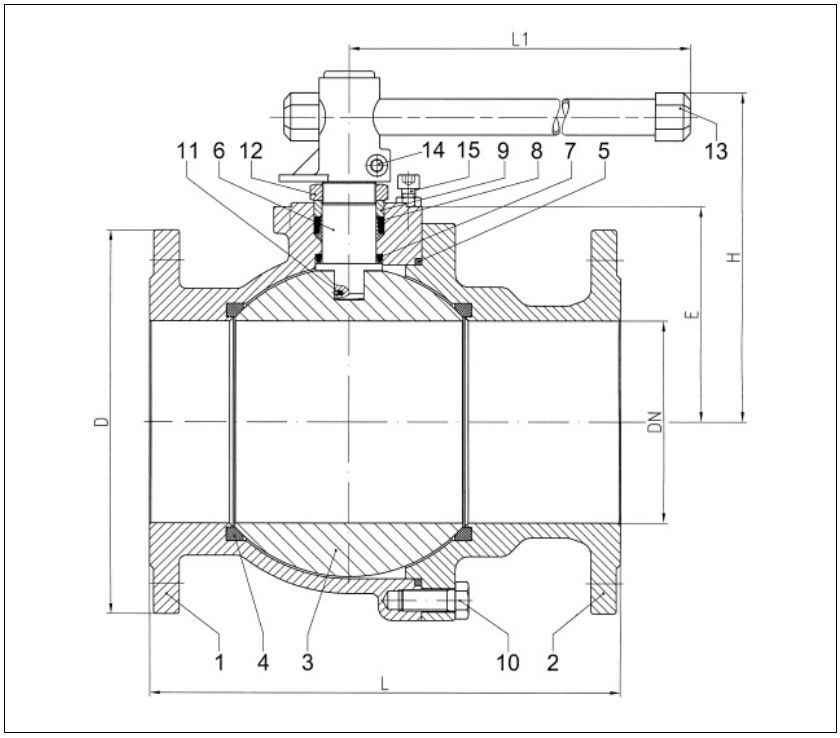
DN mm	PN	dimensions (mm) H	L1	L GR.1	L GR.27	D	E	top flange ISO	torque Nm**	weight kg GR.1	GR.27
15	40	95	160	130	115	95	39.5	F05	9	3.0	2.9
20	40	105	160	150	120	105	46.0	F05	10	4.0	3.7
25	40	114	180	160	125	115	49.5	F05	14	4.9	4.6
32	40	130	180	180	130	140	59.0	F05	17	6.7	6.4
40	40	135	300	200	140	150	76.0	F07	37	9.3	8.8
50	40	143	300	230	150	165	83.5	F07	45	13.0	12.1
65	40	155	300	290	170	185	94.0	F07	65	17.0	16.0
80	40	197	500	310	180	200	102.5	F10	109	26.0	23.0
100	16	215	500	350	190	220	120.5	F10	148	33.0	30.0
100	40	215	500	350	190	235	120.5	F10	148	34.0	32.0

** Necessary torque measured with treated water at Δ P = 16 bar and room temperature.

Ordering example:
INTEC K200, DN50, PN40, GR.27, 1.4408, Fire-Safe

BALL VALVES INTEC

K200, DN125 - DN200, PN16/40
floating ball, soft seated



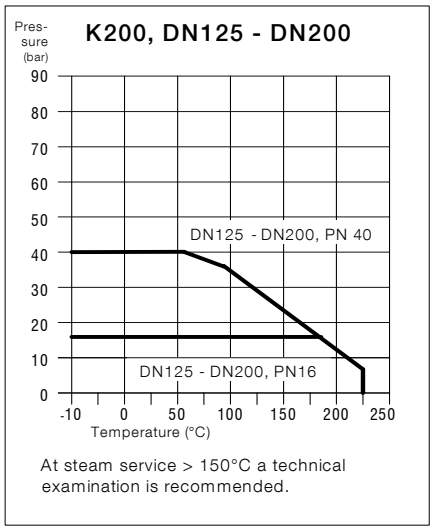
Flanged ball valve
full bore
face to face acc. to EN 558, GR. 27
flanges acc. to EN 1092

Specification:

Two-piece ball valve with flanges acc. to EN 1092, face to face dimensions acc. to EN 558, GR.27, full bore, blow-out-proof stem, vacuum-tight, body material stainless steel (1.4408) or carbon steel (1.0619), antistatic device, free of non ferrous metals, seat full chambered, stem packing Graphite/ KFGN/KFAM cone ring system dynamic loaded adjustable, top flange DIN EN ISO 5211, approved by PED, certified acc. to GERMAN clean air act VDI 2440, Fire-Safe acc. to DIN EN ISO 10497, with lever.

Marking: INTEC K200

No.	Part	Material	Material
Standard design			
1	body	1.0619	1.4408
2	cap	1.0619	1.4408
3	ball	1.4408	
4	seat	KFGN/KFM	
5	body seal	KF	
6	stem	1.4462	
7	below seal	KFGN/Graphite	
8	upper seal	KFAM/Graphite	
9	bearing	PEEK	
10	hex. screw	A4-70	
11	antistatic element	1.4401/1.4571/1.4404	
12	hex. screw self-locking	A2/1.4301	
13	lever	1.4408/1.4308/steel zincplated	
14	allen screw	A2-70	
15	stopper	A2	
Fire-Safe design			
5	combined body seal	KF-Graphite	
9	Fire-Safe seal	Graphite	
	ring	1.4571/1.4404	
	thrust washer	PEEK	



At steam service > 150°C a technical examination is recommended.

Ordering example:
INTEC K200, DN150, PN40, GR.27, 1.4408, Fire-Safe

Dimensions

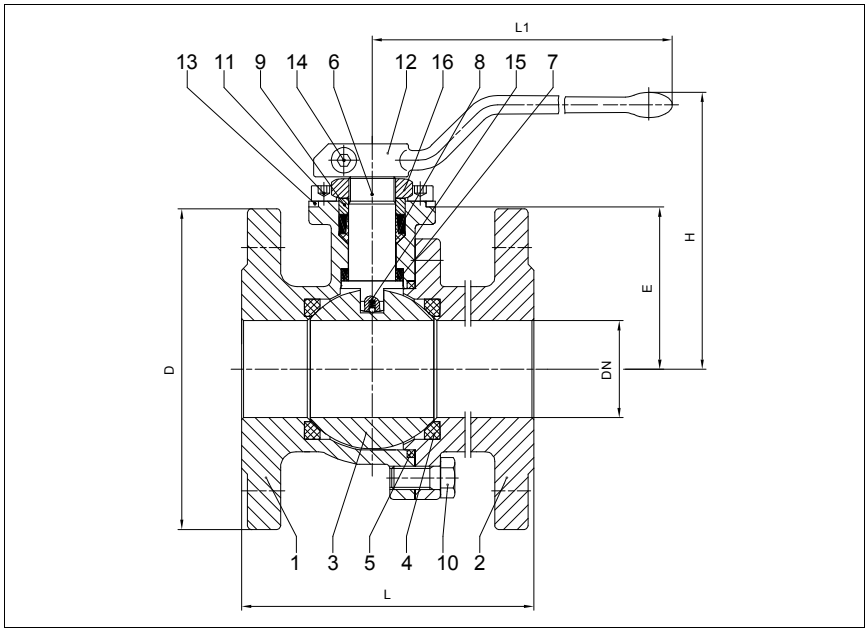
DN mm	PN	dimensions (mm) H	L1	L	D	E	top flange ISO	torque Nm**	weight kg
125	16	263	700	325	250	164	F12	260	56
125	40	263	700	325	270	164	F12	260***	58
150	16	265	700	350	285	160	F12	286	80
150	40	265	700	350	300	181	F12	286***	85
200	16	340	1000	400	340	225	F14	442	152
200	40	340	1000	400	375	225	F14	442***	160

** Necessary torque measured with treated water at Δ P = 16 bar and room temperature.

*** PN 40 gearbox recommended.

BALL VALVES INTEC

K200, ½” - 4”, Class 150/300
with floating ball, soft seated

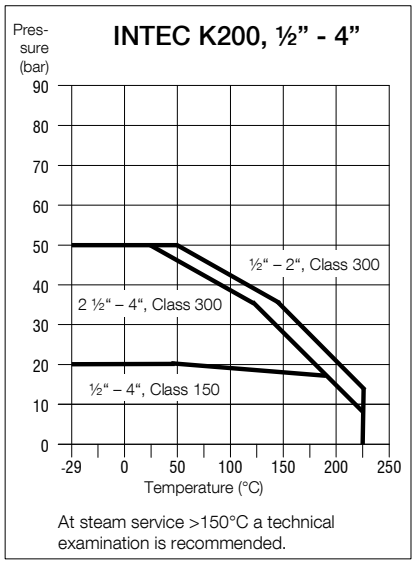


Flanged ball valve
full bore
face to face acc. to ANSI B 16.10
flanges acc. to ANSI B 16.5

Specification:
Two-piece ball valve, flanges acc. to ANSI B 16.5, face to face dimensions acc. to ANSI B 16.10, full bore, blow-out-proof stem, body material stainless steel (ASTM A351-CF8M) or carbon steel (ASTM A216-WCB), antistatic device, free of non ferrous metals, seat full chambered, stem packing Graphite/ KFGN/KFAM cone ring system dynamic loaded adjustable, top flange DIN EN ISO 5211, approved by PED, certified acc. to GERMAN clean air act VDI 2440, Fire-Safe acc. to API 607 and DIN EN ISO 10497, with lever.

Marking: INTEC K200

No.	Part	Material	Material
Standard design			
1	body	A216-WCB	ASTM A351-CF8M
2	cap	A216-WCB	ASTM A351-CF8M
3	ball	1.4408 (ASTM A351-CF8M)	
4	seat	KFGN/KFM	
5	body seal	KF	
6	stem	1.4462 (A479 UNS S31803)	
7	below seal	KFGN/Graphite	
8	upper seal	KFAM/Graphite	
9	bearing	PEEK	
10	hex. screw	A4-70 (A193-B8M)	
11	allen screw	A2-70 (A193-B8)	
12	lever	1.4408 (ASTM A351-CF8M)/1.4308 (ASTM A351-CF8)	
13	stopper	1.4301 (AISI 304)	
14	allen screw	A2-70 (A193-B8)	
15	antistatic element	1.4401 (AISI 316)/1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
16	hex. nut self-locking	A2/1.4301 (AISI 304)	
Fire-Safe design			
5	combined body seal	KF-Graphite	
9	Fire-Safe seal	Graphite	
	ring	1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
	thrust washer	PEEK	



At steam service >150°C a technical examination is recommended.

Ordering example:
INTEC K200, 2”, Class 300, CF8M, Fire-Safe

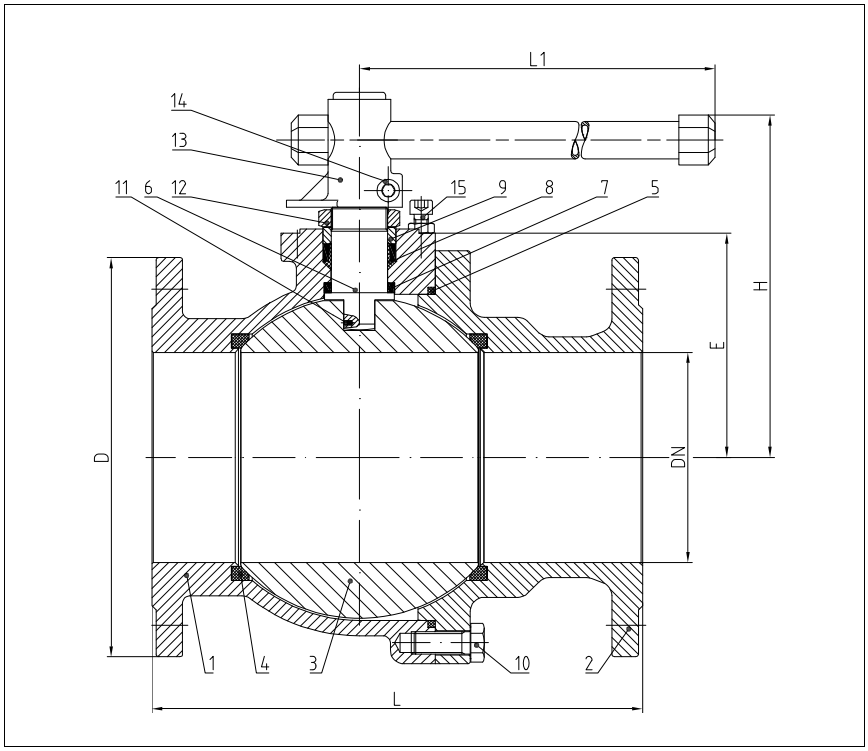
Dimensions

NPS inch	dimensions H	L1	L 150 lbs.	L 300 lbs.	D 150 lbs.	D 300 lbs.	E	top flange ISO	torque Nm** 150 lbs.	Nm** 300 lbs.	ca. weight kg 150 lbs.	kg 300 lbs.
½“	95	160	108	140	89	95	39.5	F05	9	10	2.1	2.9
¾“	105	160	117	152	98	117	46	F05	11	13	3.0	4.2
1“	114	180	127	165	108	124	49.5	F05	14	18	4.1	5.0
1 ¼“	130	180	140	178	117	133	59	F05	18	25	5.0	7.0
1 ½“	135	300	165	190	127	156	76	F07	39	52	8.0	10.5
2“	143	300	178	216	152	165	83.5	F07	48	70	11.8	13.0
2 ½“	155	300	190	241	178	190	94	F07	71	118	17.0	20.0
3“	197	500	203	283	190	210	102.5	F10	121	215	24.4	31.0
4“	215	500	229	305	229	254	120.5	F10	170	333	35.0	47.0

**Necessary torque measured with treated water at Δ P acc. to pressure class and room temperature

BALL VALVES INTEC

K200, 6” - 8”, Class 150/300
with floating ball, soft seated

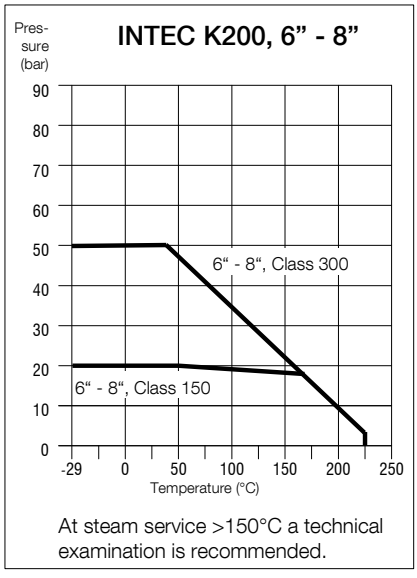


Flanged ball valve
full bore
face to face acc. to ANSI B 16.10
flanges acc. to ANSI B 16.5

Specification:
Two-piece ball valve, flanges acc. to ANSI B 16.5, face to face dimensions acc. to ANSI B 16.10, full bore, blow-out-proof stem, body material stainless steel (ASTM A351-CF8M) or carbon steel (ASTM A216-WCB), antistatic device, free of non ferrous metals, seat full chambered, stem packing Graph-ite/KFGN/KFAM cone ring system dynamic loaded adjustable, top flange DIN EN ISO 5211, approved by PED, certified acc. to GERMAN clean air act VDI 2440, Fire-Safe acc. to DIN EN ISO 10497, with lever.

Marking: INTEC K200

No.	Part	Material	Material
Standard design			
1	body	A216-WCB	ASTM A351-CF8M
2	cap	A216-WCB	ASTM A351-CF8M
3	ball	1.4408 (ASTM A351-CF8M)	
4	seat	KFGN/KFM	
5	body seal	KF	
6	stem	1.4462 (A479 UNS S31803)	
7	below seal	KFGN/Graphite	
8	upper seal	KFAM/Graphite	
9	bearing	PEEK	
10	hex. screw	A4-70 (A193-B8M)	
11	antistatic element	1.4401 (AISI 316)/1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
12	hex. nut self-locking	A2/1.4301 (AISI 304)	
13	lever	1.4408 (ASTM A351-CF8M)/1.4308 (ASTM A351-CF8)	
14	allen screw	A2-70 (A193-B8)	
15	stopper	1.4301 (AISI 304)	
Fire-Safe design			
5	combined body seal	KF-Graphite	
9	Fire-Safe seal	Graphite	
	ring	1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
	thrust washer	PEEK	



At steam service >150°C a technical examination is recommended.

Ordering example:
INTEC K200, 6”, Class 300, CF8M, Fire-Safe

Dimensions

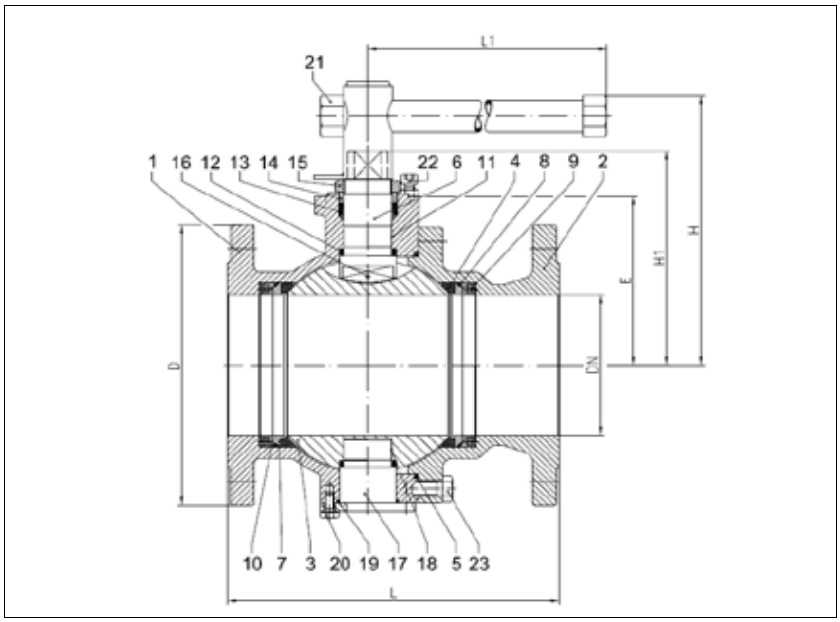
NPS inch	dimensions (mm) H	L1	L 150 lbs.	L 300 lbs.	D 150 lbs.	D 300 lbs.	E	top flange ISO	torque Nm* 150 lbs.	Nm* 300 lbs.	ca. weight kg 150 lbs.	kg 300 lbs.
6“	280	700	394	403	279	318	181	F12	380	847**	89.0	on request
8“	340	1000	457	502	343	381	225	F14	742	1731**	145.0	on request

* Necessary torque measured with treated water at Δ P acc. to pressure class and room temperature.

** Class 300 gearbox recommended.

BALL VALVES INTEC

K210, DN80 - DN250, PN16/40
trunnion mounted ball, soft seated, both sides spring loaded seat rings

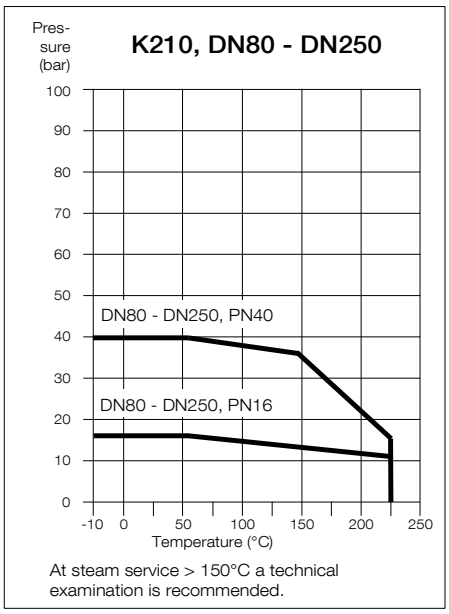


Flanged ball valve
full bore
face to face acc. to EN 558, GR.1
face to face acc. to EN 558, GR.27
flanges acc. to EN 1092

Specification:
Two-piece ball valve with flanges acc. to EN 1092, face to face dimensions acc. to EN 558, GR. 1/GR. 27, full bore, blow-out-proof stem, body material stainless steel (1.4408) or carbon steel (1.0619), antistatic device, free of non ferrous metals, trunnion mounted ball, seats full chambered, stem packing Graphite/KFGN/KFAM cone ring system dynamic loaded adjustable, top flange DIN EN ISO 5211, approved by PED, certified acc. to GERMAN clean air act VDI 2440, Fire-Safe acc. to API 607 and DIN EN ISO 10497, with lever.

Marking: INTEC K210

No.	Part	Material	Material
Standard design			
1	body	1.0619	1.4408
2	cap	1.0619	1.4408
3	ball	1.4408	
4	seat	KFGN/KFM	
5	body seal	KF	
6	stem	1.4462	
7	seat bearing ring	1.4571/1.4404	
8	seat seal	KF	
9	spiral spring	1.4401	
10	follower ring	1.4571/1.4404	
11	stem bearing	1.4401/KF	
12	below seal	KFGN/Graphite	
13	upper seal	KFAM/Graphite	
14	bearing	PEEK	
15	hex. nut self-locking	A2/1.4301	
16	antistatic element	1.4401/1.4571/1.4404	
17	trunnion (up to DN125 with screwed end))	1.4571/1.4404	
18	bearing	1.4401/KF	
19	trunnion seal	KF	
20	hex. screw (as from DN150)	A4-70	
21	lever	1.4408/1.4308/steel zincplated	
22	stopper	A2	
23	hex. screw	A4-70	
Fire-Safe design			
5	combined body seal	KF-Graphite	
8	seat seal	Graphite	
9	spiral spring	Inconel X750	
11	Fire-Safe seal	Graphite	
	ring	1.4571/1.4404	
	thrust washer	PEEK	
19	trunnion seal	KF-Graphite	



At steam service > 150°C a technical examination is recommended.

Ordering example:
INTEC K210, DN100, PN40, GR. 27, 1.4408, Fire-Safe

Other flange connections and materials on request.

Dimensions

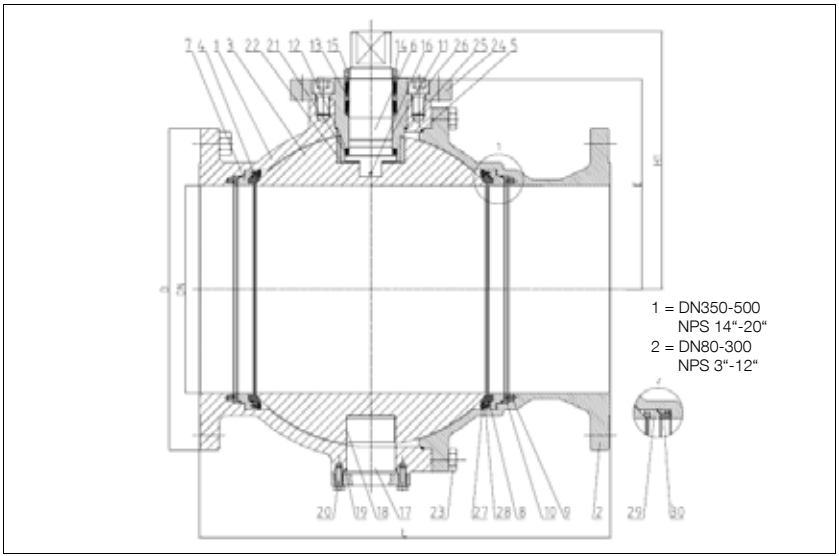
DN mm	PN	dimensions (mm) H	L1	L (GR. 1)	L (GR. 27)	D	E	H1	top flange ISO	torque Nm *	weight kg GR. 1	GR. 27
80	40	194	500	310	180	200	112.5	155	F10	170	24	23
100	16	221.5	500	350	190	220	137	179.5	F12	140	32.5	31.5
100	40	221.5	500	350	190	235	137	179.5	F12	255	33.5	33
125	16	246.5	700	-	325	250	164	206.5	F12	185	-	56.5
125	40	246.5	700	-	325	270	164	206.5	F12	370	-	58.5
150	16	263	700	-	350	285	181	229.5	F12	265	-	81
150	40	263	700	-	350	300	181	229.5	F12	565**	-	85
200	16	304	1000	-	400	340	225	284.5	F14	490	-	153
200	40	304	1000	-	400	375	225	284.5	F14	1110**	-	161
250	16	340.5	1200	-	450	405	261.5	321	F14/F16	760**	-	256
250	40	340.5	1200	-	450	450	261.5	321	F14/F16	1735**	-	274

* Necessary torque measured with treated water at Δ P acc. to pressure class and room temperature.

** gearbox recommended

BALL VALVES INTEC

K210, DN300 - DN500, PN16/40
trunnion mounted ball, soft seated, both sides spring loaded seat rings



No.	Part	Material	Material
Standard design			
1	body	1.0619	1.4408
2	cap	1.0619	1.4408
3	ball	1.4408	
4	seat	KFM	
5	body seal	KF	
6	stem	1.4462	
7	seat bearing ring	1.4571/1.4404	
8	seat seal	KF	
9	spiral spring	1.4401	
10	follower ring	1.4571/1.4404	
11	stem bearing	1.4401/KF	
12	below seal	KFGN/Graphite	
13	upper seal	KFAM/Graphite	
14	bearing	PEEK	
15	hex. nut self-locking	A2/1.4301	
16	antistatic element	1.4401/1.4571/1.4404	
17	trunnion	1.4571/1.4404	
18	bearing	1.4401/KF	
19	trunnion seal	KF	
20	hex. screw	A4-70	
21	friction washer	PEEK	
22	ball bearing	PEEK	
23	hex. screw	A4-70	
24	stuffing box	1.4571/1.4404	
25	stuffing box seal	KF	
26	allen screw	A4-70	
27	stop plate	1.4571/1.4404	
28	countersunk screw	A4-70	
29	seat bearing ring	1.4571/1.4404	
30	spring washer	1.4571/1.4404	
Fire-Safe design			
5	combined body seal	KF-Graphite	
8	seat seal	Graphite	
9	spiral spring	Inconel X750	
11	Fire-Safe seal ring	Graphite / 1.4571/1.4404	
	thrust washer	PEEK	
19	trunnion seal	Graphite	
25	stuffing box seal	KF-Graphite	

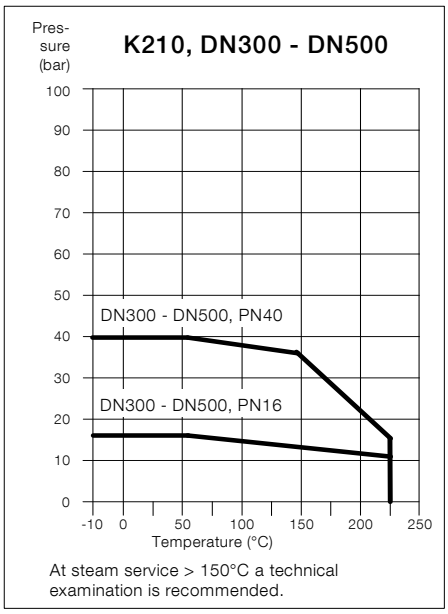
Dimensions

DN mm	PN	dimensions (mm) L	D	E	H1	top flange ISO	torque Nm *	weight kg
300	16	500	460	311	400	F16	1364**	343
300	40	500	515	311	400	F16/F25	3239**	380
350	16	550	520	350	439	F25	1970**	505
350	40	550	580	350	439	F25	4613**	615
400	16	762	580	388.5	477.5	F25-F30	2540**	692
400	40	762	660	388.5	477.5	F25-F30	5950**	772
500	16	914	715	485	589	F25-F30	4890**	1363
500	40	914	755	485	589	F30/F35	11600**	1438

Flanged ball valve
full bore
face to face acc. to EN 558, GR.27
flanges acc. to EN 1092

Specification:
Two-piece ball valve with flanges acc. to EN 1092, face to face dimensions acc. to EN 558, GR.27, full bore, blow-out-proof stem, body material stainless steel (1.4408) or carbon steel (1.0619), antistatic device, free of non ferrous metals, trunnion mounted ball, seats full chambered, stem packing Graphite/KFGN/KFAM cone ring system dynamic loaded adjustable, top flange DIN EN ISO 5211, approved by PED, certified acc. to GERMAN clean air act VDI 2440, Fire-Safe acc. to API 607 and DIN EN ISO 10497.

Marking: INTEC K210



At steam service > 150°C a technical examination is recommended.

Ordering example:
INTEC K210, DN400, PN40,
GR. 27, 1.4408, Fire-Safe

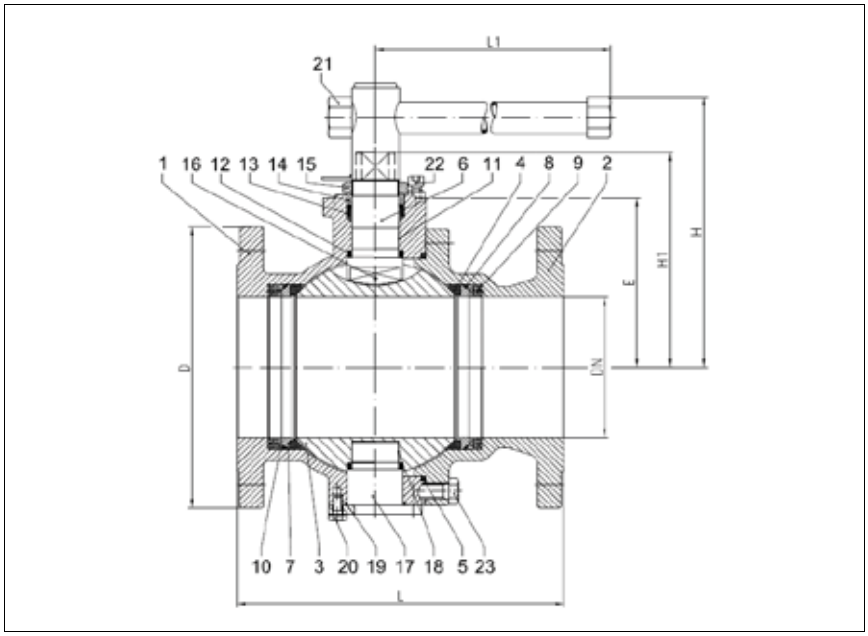
* Necessary torque measured with treated water at Δ P acc. to pressure class and room temperature.

** gearbox recommended

Other flange connections and materials on request.

BALL VALVES INTEC

K210, 3” - 10”, Class 150/300
trunnion mounted ball, soft seated, both sides spring loaded seat rings

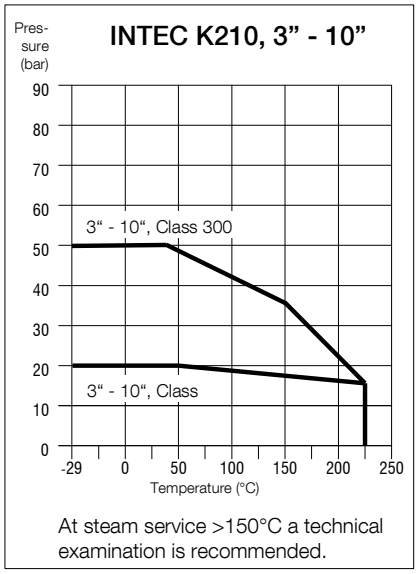


Flanged ball valve
full bore
face to face acc. to ANSI B 16.10
flanges acc. to ANSI B 16.5

Specification:
Two-piece ball valve, flanges acc. to ANSI B 16.5, face to face dimensions acc. to ANSI B 16.10, full bore, blow-out-proof stem, body material stainless steel (ASTM A351-CF8M) or carbon steel (ASTM A216-WCB), antistatic device, free of non ferrous metals, trunnion mounted ball, seats full chambered, both sides spring loaded seat rings, stem packing graphite/KFGN/KFAM cone ring system dynamic loaded adjustable, top flange DIN EN ISO 5211, approved by PED, certified acc. to GERMAN clean air act VDI 2440, Fire-Safe acc. to API 607 and DIN EN ISO 10497, with lever.

Marking: INTEC K210

No.	Part	Material	Material
Standard design			
1	body	ASTM A216-WCB	ASTM A351-CF8M
2	cap	ASTM A216-WCB	ASTM A351-CF8M
3	ball	1.4408 (ASTM A351-CF8M)	
4	seat	KFGN/KFM	
5	body seal	KF	
6	stem	1.4462 (A479 UNS S31803)	
7	seat bearing ring	1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
8	bearing ring seal	KF	
9	spiral spring	1.4401 (AISI 316)	
10	follower ring	1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
11	stem bearing	1.4401 (AISI 316)/KF	
12	below seal	KFGN/Graphite	
13	upper seal	KFAM/Graphite	
14	bearing	PEEK	
15	hex. nut self-locking	1.4301 (AISI 304)	
16	antistatic element	1.4401 (AISI 316)/1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
17	trunnion (up NPS 5” with screwed end)	1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
18	bearing	1.4401 (AISI 316)/KF	
19	trunnion seal	KF	
20	hex. screw (as from NPS 6”)	A4-70 (A193-B8M)	
21	lever	1.4408 (ASTM A351-CF8M)/1.4308 (ASTM A351-CF8)	
22	stopper	A2	
23	hex. screw	A4-70 (A193-B8M)	
Fire-Safe design			
5	combined body seal	KF-Graphite	
8	bearing ring seal	Graphite	
9	spiral spring	Inconel X750	
14	Fire-Safe seal ring	Graphite	
		1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
	thrust washer	PEEK	
19	trunnion seal	KF-Graphite	



At steam service >150°C a technical examination is recommended.

Ordering example:
INTEC K210, 8“, Class 300, CF8M, Fire-Safe

Dimensions

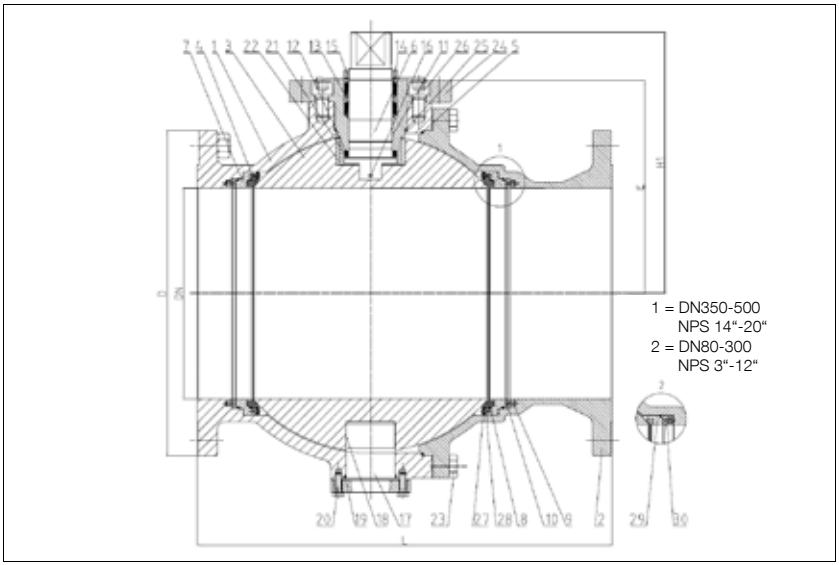
NPS inch	dimensions (mm) H	L1	L 150 lbs.	L 300 lbs.	D 150 lbs.	D 300 lbs.	E	H1	top flange ISO	torque Nm** 150 lbs.	torque Nm** 300 lbs.
3“	194	500	203	283	190	210	112.5	155	F10	121	214
4“	221.5	500	229	305	229	254	137	179.5	F12	168	324
6“	263	700	394	403	279	318	181	229.5	F12	333	733***
8“	304	1000	457	502	343	381	225	284.5	F14	634**	1462***
10“	340.5	1200	533	568	406	444	261.5	321	F14	993**	2309***

** Necessary torque measured with treated water at Δ P acc. to pressure class and room temperature.

*** Class 300 gearbox recommended.

BALL VALVES INTEC

K210, 12“ - 20“, Class 150/300
trunnion mounted ball, soft seated, both sides spring loaded seat rings

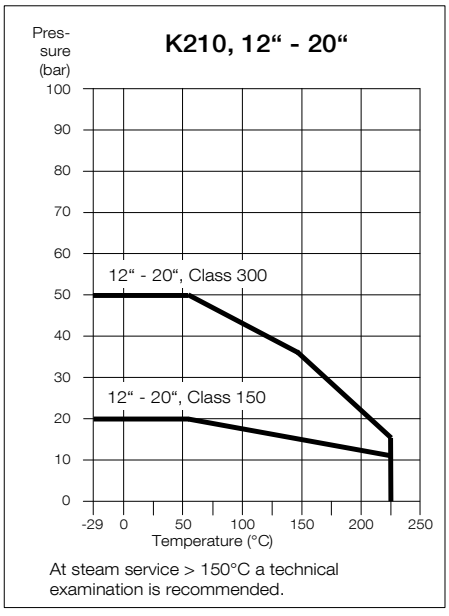


Flanged ball valve
full bore
face to face acc. to ANSI B 16.10
flanges acc. to ANSI B 16.5

Specification:
Two-piece ball valve, flanges acc. to ANSI B 16.5, face to face dimensions acc. to ANSI B 16.10, full bore, blow-out-proof stem, body material stainless steel (ASTM A351-CF8M) or carbon steel (ASTM A216-WCB), antistatic device, free of non ferrous metals, trunnion mounted ball, seats full chambered, stem packing graphite/KFGN/KFAM cone ring system dynamic loaded adjustable, top flange DIN EN ISO 5211, approved by PED, certified acc. to GERMAN clean air act VDI 2440, Fire-Safe acc. to API 607 and DIN EN ISO 10497.

Marking: INTEC K210

No.	Part	Material	Material
Standard design			
1	body	ASTM A216-WCB	ASTM A351-CF8M
2	cap	ASTM A216-WCB	ASTM A351-CF8M
3	ball	1.4408 (ASTM A351-CF8M)	
4	seat	KFM	
5	body seal	KF	
6	stem	1.4462 (A479 UNS S31803)	
7	seat bearing ring	1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
8	bearing ring seal	KF	
9	spiral spring	1.4401 (AISI 316)	
10	follower ring	1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
11	stem bearing	1.4401 (AISI 316)/KF	
12	below seal	KFGN/Graphite	
13	upper seal	KFAM/Graphite	
14	bearing	PEEK	
15	hex. nut self-locking	A2/1.4301 (AISI 304)	
16	antistatic element	1.4401 (AISI 316)/1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
17	trunnion	1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
18	bearing	1.4401 (AISI 316)/KF	
19	trunnion seal	KF	
20	hex. screw	A4-70 (A193-B8M)	
21	friction washer	PEEK	
22	ball bearing	PEEK	
23	hex. screw	A4-70 (A193-B8M)	
24	stuffing box	1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
25	stuffing box seal	KF	
26	allen screw	A4-70 (A193-B8M)	
27	stop plate	1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
28	countersunk screw	A4-70 (A193-B8M)	
29	seat bearing ring	1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
30	spring ring	1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
Fire-Safe design			
5	combined body seal	KF-Graphite	
8	bearing ring seal	Graphite	
9	spiral spring	Inconel X750	
11	Fire-Safe seal	Graphite	
	ring	1.4571	
	thrust washer	PEEK	
19	trunnion seal	Graphite	
25	stuffing box seal	KF-Graphite	



At steam service > 150°C a technical examination is recommended.

Ordering example:
INTEC K210, 20”, Class 300, CF8M, Fire-Safe

* Necessary torque measured with treated water at Δ P acc. to pressure class and room temperature

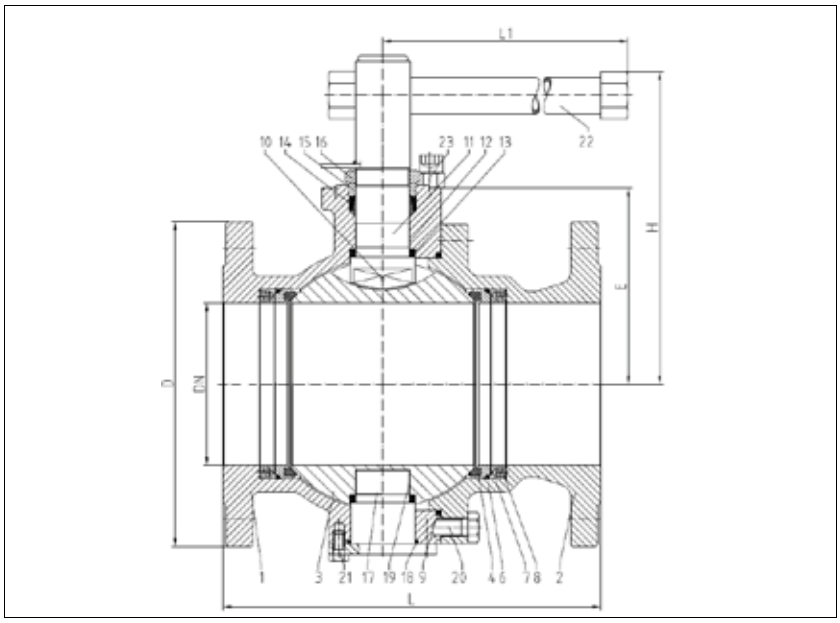
** gearbox recommended

Dimensions

NPS inch	dimensions (mm) L 150lbs.	L 300 lbs.	D 150 lbs.	D 300 lbs.	E	H1	top flange ISO	torque Nm * 150 lbs.	300 lbs.	ca. weight kg 150 lbs.	300 lbs.
12”	610	648	485	520	311	400	F16/F25	1642**	3921**	385	445
14”	686	762	535	585	350	439	F25	2420**	5820**	530	640
16”	762	838	595	650	389	477.5	F25-F35	3110**	7510**	715	870
20”	914	911	700	775	485	589	F25-F35	6020**	14770**	1365	1500

BALL VALVES INTEC

K214, DN80 - DN250, PN16/40
trunnion mounted ball, PEEK seated, both sides spring loaded seat rings



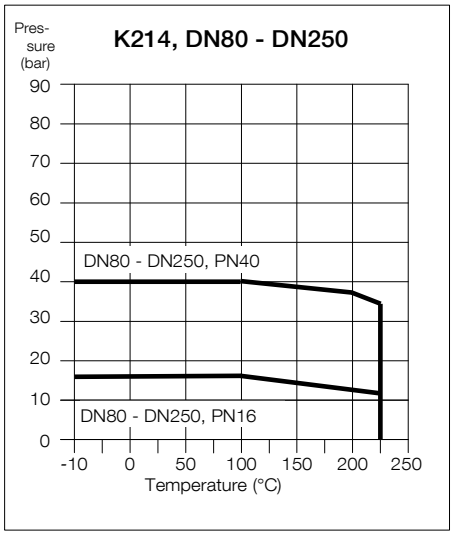
Flanged ball valve
full bore
face to face acc. to EN 558, GR.1
face to face acc. to EN 558, GR.27
flanges acc. to EN 1092

Specification:
Two-piece ball valve with flanges acc. to EN 1092, face to face dimensions acc. to EN 558, GR.1/GR.27, full bore, blow-out-proof stem, body material stainless steel (1.4408) or carbon steel (1.0619), antistatic device, free of non ferrous metals, trunnion mounted ball, seats full chambered, stem packing Graphite/KFGN/KFAM cone ring system dynamic loaded adjustable, top flange DIN EN ISO 5211, approved by PED, certified acc. to GERMAN clean air act VDI 2440, with lever.

Also possible as high-temperature version up to +260°C.

Marking: INTEC K214

No.	Part	Material	Material
Standard design			
1	body	1.0619	1.4408
2	cap	1.0619	1.4408
3	ball	1.4408	
4	seat (flanged)	PEEK/Graphite/1.4571-1.4404 PEEK mod./Graphite/1.4571-1.4404	
6	seat seal	KF	
7	follower ring	1.4571/1.4404	
8	spiral spring	1.4401	
9	body seal	KF	
10	antistatic element	1.4401/1.4571/1.4404	
11	stem	1.4462	
12	below stem bearing	1.4401/KF	
13	below seal	KFGN/Graphite	
14	upper seal	KFAM/Graphite	
15	upper stem bearing	PEEK	
16	hex. nut self-locking	A2/1.4301	
17	trunnion	1.4571/1.4404	
18	trunnion seal	KF	
19	bearing	1.4401/KF	
20+21	hex. screw	A4-70	
22	lever	1.4408/1.4308/steel zincplated	
23	stopper	A2	
Fire-Safe design			
5	combined body seal	KF-Graphite	
6	seat seal	Graphite	
8	spiral spring	Inconel X750	
11	Fire-Safe seal	Graphite	
	ring	1.4571/1.4404	
	thrust washer	PEEK	
18	trunnion seal	KF-Graphite	



Ordering example:
INTEC K214, DN100, PN40, GR.27, 1.4408, Fire-Safe

Other flange connections and materials on request.

Dimensions

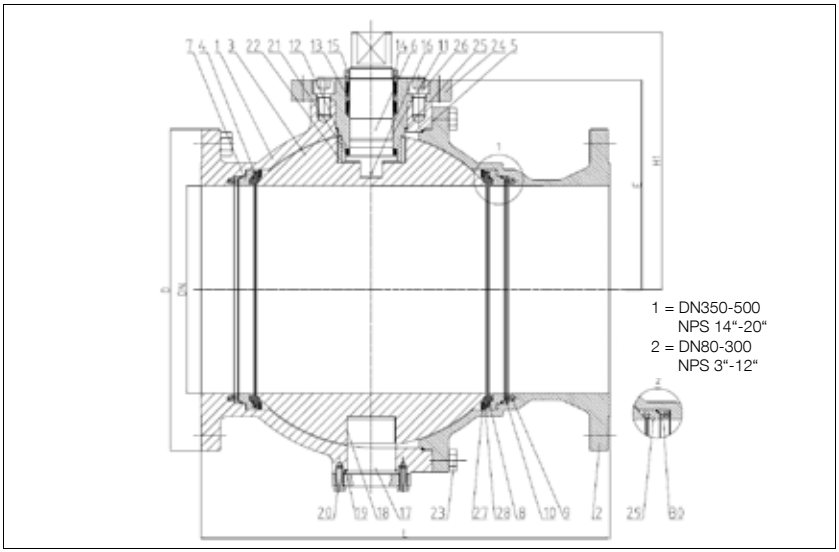
DN	PN	dimensions (mm)							top flange	torque	ca. weight kg	
mm		H	L1	L GR. 1	L GR. 27	D	E	H1	ISO	Nm *	GR. 1	GR. 27
80	40	194	500	310	180	200	112.5	155	F10	294**	26	24
100	16	221.5	500	350	190	220	137	179.5	F12	238**	34	32
100	40	221.5	500	350	190	235	137	179.5	F12	456**	35	34
125	16	246.5	700	-	325	250	164	206.5	F12	255**	-	57
125	40	246.5	700	-	325	270	164	206.5	F12	521**	-	60
150	16	263	700	-	350	285	181	229.5	F12	359**	-	80
150	40	263	700	-	350	300	181	229.5	F12	780**	-	85
200	16	304	1000	-	400	340	225	284.5	F14	683**	-	140
200	40	304	1000	-	400	375	225	284.5	F14	1558**	-	150
250	16	340.5	1200	-	450	405	261.5	321	F14	1092**	-	245
250	40	340.5	1200	-	450	450	261.5	321	F14	2511**	-	250

* Necessary torque measured with treated water at Δ P acc. to pressure class and room temperature

** gearbox recommended

BALL VALVES INTEC

K214, DN300 - DN500, PN16/40
trunnion mounted ball, PEEK seated, both sides spring loaded seat rings

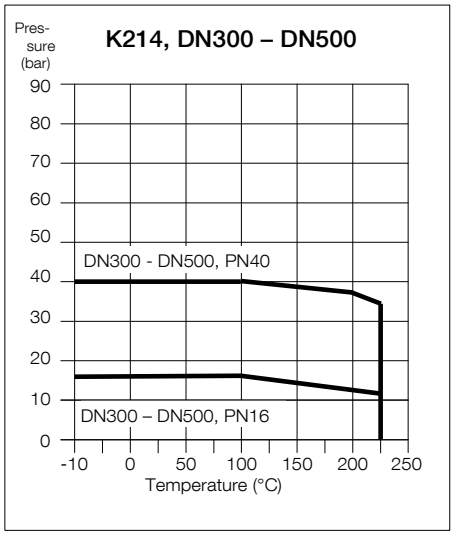


Flanged ball valve
full bore
face to face acc. to EN 558, GR.27
face to face acc. to EN 1092

Specification:
Two-piece ball valve acc. to EN 1092, face to face dimensions acc. to EN 558, GR.27, full bore, blow-out-proof stem, body material stainless steel (1.4408) or carbon steel (1.0619), antistatic device, free of non ferrous metals, trunnion mounted ball, seats full chambered, stem packing Graphite/KFGN/KFAM cone ring system dynamic loaded adjustable, top flange DIN EN ISO 5211, approved by PED, certified acc. to GERMAN clean air acr VDI 2440.

Marking: INTEC K214

No.	Part	Material	Material
Standard design			
1	body	1.0619	1.4408
2	cap	1.0619	1.4408
3	ball	1.4408	
4	seat	PEEK	
5	body seal	KF	
6	stem	1.4462	
7	seat bearing ring	1.4571/1.4404	
8	seat seal	KF	
9	spiral spring	1.4401	
10	follower ring	1.4571/1.4404	
11	stem bearing	1.4401/KF	
12	below seal	KFGN/Graphite	
13	upper seal	KFAM/Graphite	
14	bearing	PEEK	
15	hex. nut self-locking	A2/1.4301	
16	antistatic element	1.4401/1.4571/1.4404	
17	trunnion	1.4571/1.4404	
18	bearing	1.4401/KF	
19	trunnion seal	KF	
20	hex. screw	A4-70	
21	friction washer	PEEK	
22	ball bearing	PEEK	
23	hex. screw	A4-70	
24	stuffing box	1.4571/1.4404	
25	stuffing box seal	KF	
26	allen screw	A4-70	
27	stop plate	1.4571/1.4404	
28	countersunk screw	A4-70	
29	seat bearing ring	1.4571/1.4404	
30	spring washer	1.4571/1.4404	
Fire-Safe design			
5	combined body seal	KF-Graphite	
8	seat seal	Graphite	
9	spiral spring	Inconel X750	
11	Fire-Safe seal	Graphite	
	ring	1.4571/1.4404	
	thrust washer	PEEK	
19	trunnion seal	Graphite	
25	stuffing box seal	KF-Graphite	



Ordering example:
INTEC K214, DN400, PN40, GR. 27, 1.4408, Fire-Safe

Dimensions

DN mm	PN	dimensions (mm) L	D	E	H1	top flange ISO	torque Nm *	ca. weight kg
300	16	500	460	311	400	F16	1789**	343
300	40	500	515	311	400	F16/F25	4226**	380
350	16	550	520	350	439	F25	2711**	505
350	40	550	580	350	439	F25	6270**	615
400	16	762	580	388.5	477.5	F25-F30	3496**	692
400	40	762	660	388.5	477.5	F25-F30	8106**	772
500	16	914	715	485	589	F25-F30	6394**	1363
500	40	914	755	485	589	F30/F35	15076**	1438

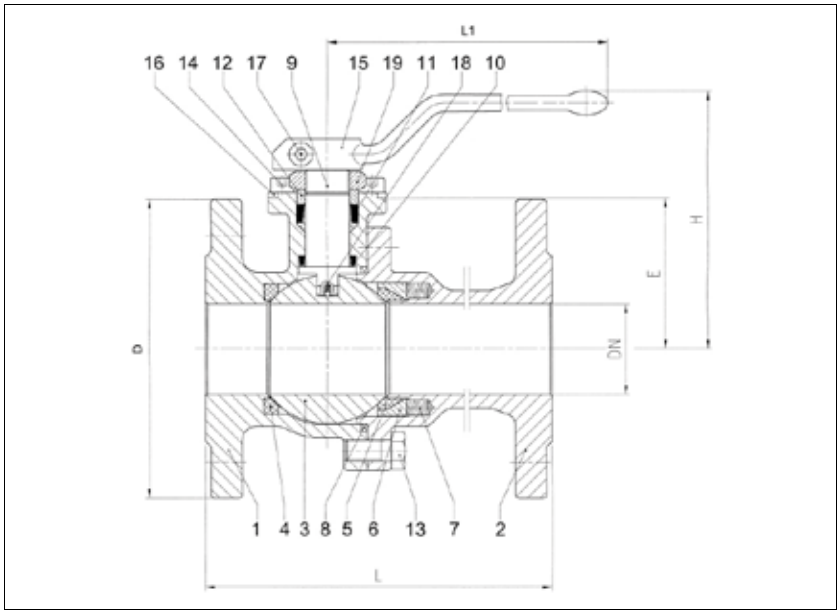
* Necessary torque measured with treated water at Δ P acc. to pressure class and room temperature.

** gearbox recommended

Other flange connections and materials on request.

BALL VALVES INTEC

K220, DN15 - DN100, PN16/40
floating ball, soft seated,
single side spring loaded seat ring



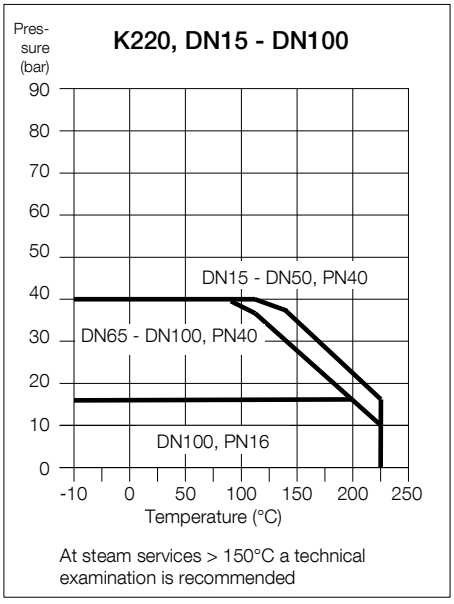
Flanged ball valve
full bore
face to face acc. to EN 558, GR. 1
face to face acc. to EN 558, GR. 27
flanges acc. to EN 1092

Specification:

Two-piece ball valve with flanges acc. to EN 1092, face to face dimensions acc. to EN 558, GR.1/GR.27, full bore, blow-out-proof stem, body material stainless steel (1.4408) or carbon steel (1.0619), antistatic device, free of non ferrous metals, seat full chambered, single side spring loaded seat ring, stem packing Graphite/KFGN/KFAM cone ring system dynamic loaded adjustable, top flange DIN EN ISO 5211, approved by PED, certified acc. to GERMAN clean air act VDI 2440, Fire-Safe acc. to DIN EN ISO 10497, with lever.

Marking: INTEC K220

No.	Part	Material	Material
Standard design			
1	body	1.0619	1.4408
2	cap	1.0619	1.4408
3	ball	1.4408	
4	seat	KFGN/KFM	
5	spring loaded seat ring	KFGN/KFM	
6	seat bearing ring	1.4571/1.4404	
7	spiral spring	1.4401	
8	body seal	KF	
9	stem	1.4462	
10	below seal	KFGN/Graphite	
11	upper seal	KFAM/Graphite	
12	bearing	PEEK	
13	hex. screw	A4-70	
14	allen screw	A2-70	
15	lever	1.4408/1.4308/steel zincplated	
16	stopper	1.4301	
17	allen screw	A2-70	
18	antistatic element	1.4401/1.4571/1.4404	
19	hex. nut self-locking	A2/1.4301	
Fire-Safe design			
7	spiral spring	Inconel X750	
8	combined body seal	KF-Graphite	
9	Fire-Safe seal	Graphite	
	ring	1.4571/1.4404	
	thrust washer	PEEK	



Dimensions

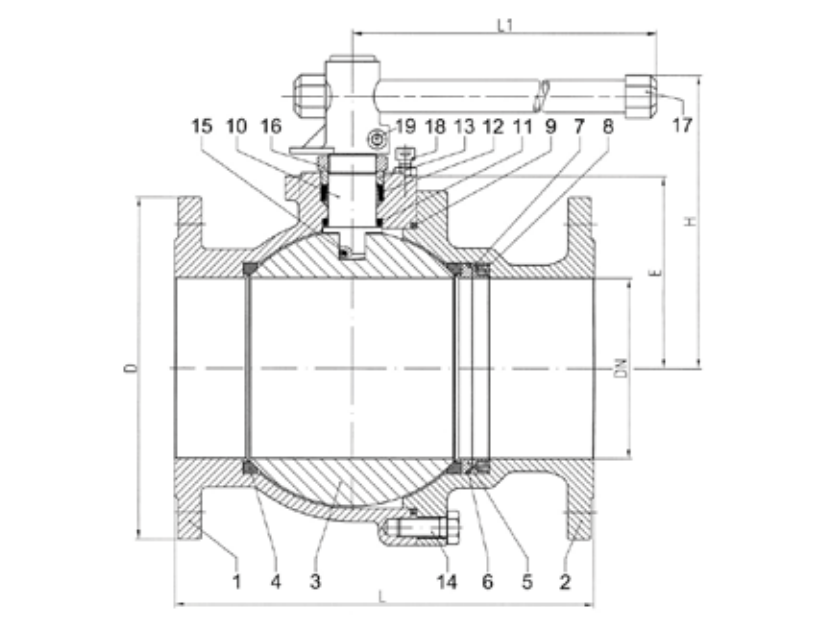
DN mm	PN	dimensions (mm) H	L1	L GR.1	L GR.27	D	E	top flange ISO	torque Nm**	weight kg GR.1	GR.27
15	40	95	160	130	115	95	39.5	F05	9	3.0	2.9
20	40	105	160	150	120	105	46.0	F05	10	4.0	3.7
25	40	114	180	160	125	115	49.5	F05	14	4.9	4.6
32	40	130	180	180	130	140	59.0	F05	17	6.7	6.4
40	40	135	300	200	140	150	76.0	F07	37	9.3	8.8
50	40	143	300	230	150	165	83.5	F07	45	13.0	12.1
65	40	155	300	290	170	185	94.0	F07	65	17.0	16.0
80	40	197	500	310	180	200	102.5	F10	109	26.0	23.0
100	16	215	500	350	190	220	120.5	F10	148	33.0	30.0
100	40	215	500	350	190	235	120.5	F10	148	34.0	32.0

** Necessary torque measured with treated water at Δ P = 16 bar and room temperature.

Ordering example:
INTEC K220, DN50, PN40, GR.27, 1.4408, Fire-Safe

BALL VALVES INTEC

K220, DN125 - DN200, PN16/40
with floating ball, soft seated,
single side spring loaded seat ring



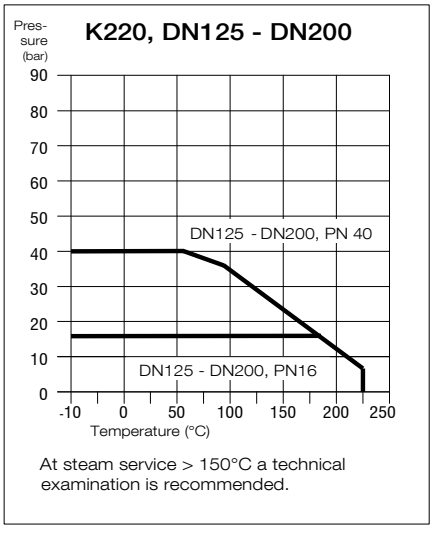
Flanged ball valve
full bore
face to face acc. to EN 558, GR. 27
flanges acc. to EN 1092

Specification:

Two-piece ball valve with flanges acc. to EN 1092, face to face dimensions acc. to EN 558, GR.27, full bore, blow-out-proof stem, body material stainless steel (1.4408) or carbon steel (1.0619), antistatic device, free of non ferrous metals, seat full chambered, single side spring loaded seat ring, stem packing Graphite/KFGN/KFAM cone ring system dynamic loaded adjustable, top flange DIN EN ISO 5211, approved by PED, certified acc. to GERMAN clean air act VDI 2440, Fire-Safe acc. to DIN EN ISO 10497, with lever.

Marking: INTEC K220

No.	Part	Material	Material
Standard design			
1	body	1.0619	1.4408
2	cap	1.0619	1.4408
3	ball	1.4408	
4	seat	KFGN/KFM	
5	seat bearing ring	1.4571/1.4404	
6	seat seal	KF	
7	follower ring	1.4571/1.4404	
8	spiral spring	1.4401	
9	body seal	KF	
10	stem	1.4462	
11	below seal	KFGN/Graphite	
12	upper seal	KFAM/Graphite	
13	bearing	PEEK	
14	hex. screw	A4-70	
15	antistatic element	1.4401/1.4571/1.4404	
16	hex. nut self-locking	A2/1.4301	
17	lever	1.4408/1.4308/steel zincplated	
18	stopper	A2	
19	allen screw	A2-70	
Fire-Safe design			
6	seat seal	Graphite	
8	spiral spring	Inconel X750	
9	combined body seal	KF-Graphite	
13	Fire-Safe seal	Graphite	
	ring	1.4571/1.4404	
	thrust washer	PEEK	



Ordering example:
INTEC K220, DN150, PN40, GR.27, 1.4408, Fire-Safe

Dimensions

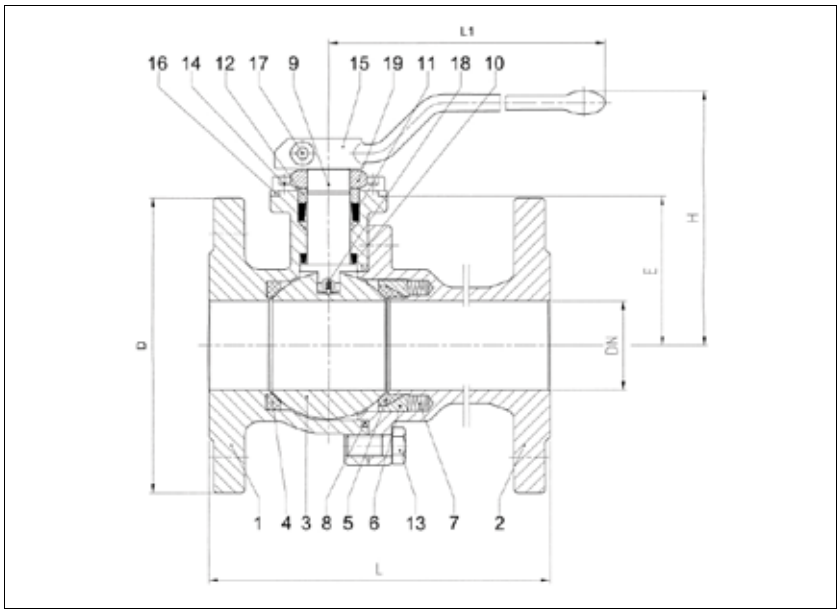
DN	PN	dimensions (mm)					top flange	torque	weight
mm		H	L1	L	D	E	ISO	Nm**	kg
125	16	263	700	325	250	164	F12	260	56
125	40	263	700	325	270	164	F12	260***	58
150	16	265	700	350	285	160	F12	286	80
150	40	265	700	350	300	181	F12	286***	85
200	16	340	1000	400	340	225	F14	442	152
200	40	340	1000	400	375	225	F14	442***	160

** Necessary torque measured with treated water at Δ P = 16 bar and room temperature.

*** PN40 gearbox recommended.

BALL VALVES INTEC

K220, ½“ - 4“, Class 150/300
floating ball, soft seated,
single side spring loaded seat ring

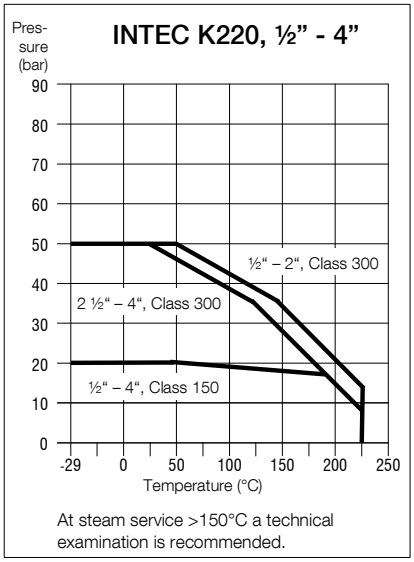


Flanged ball valve
full bore
face to face acc. to ANSI B 16.10
flanges acc. to ANSI B 16.15

Specification:
Two-piece ball valve, flanges acc. to ANSI B 16.5, face to face dimensions acc. to ANSI B 16.10, full bore, blow-out-proof stem, body material stainless steel (ASTM A351-CF8M) or carbon steel (ASTM A216-WCB), antistatic device, free of non ferrous metals, seat full chambered, single side spring loaded seat ring, stem packing Graphite/KFGN/KFAM cone ring system dynamic loaded adjustable, top flange DIN EN ISO 5211, approved by PED, stuffing box acc. to GERMAN clean air act VDI 2440, Fire-Safe acc. to API 607 and DIN EN ISO 10497, with lever.

Marking: INTEC K220

No.	Part	Material	Material
Standard design			
1	body	A216-WCB	ASTM A351-CF8M
2	cap	A216-WCB	ASTM A351-CF8M
3	ball	1.4408 (ASTM A351-CF8M)	
4	seat	KFGN/KFM	
5	spring loaded seatring	KFGN/KFM	
6	seat bearing ring	1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
7	spiral spring	1.4401 (AISI 316)	
8	body seal	KF	
9	stem	1.4462 (A479 UNS S31803)	
10	below seal	KFGN/Graphite	
11	upper seal	KFAM/Graphite	
12	bearing	PEEK	
13	hex. screw	A4-70 (A193-B8M)	
14	allen screw	A2-70 (A193-B8)	
15	lever	1.4408 (ASTM A351-CF8M)/1.4308 (ASTM A351-CF8)	
16	stopper	1.4301 (AISI 304)	
17	allen crew	A2-70 (A193-B8)	
18	antistatic element	1.4401 (AISI 316)/1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
19	hex. nut self-locking	A2/1.4301 (AISI 304)	
Fire-Safe design			
7	spiral spring	Inconel X750	
8	combined body seal	KF-Graphite	
12	Fire-Safe seal	Graphite	
	ring	1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
	thrust washer	PEEK	



At steam service >150°C a technical examination is recommended.

Dimensions

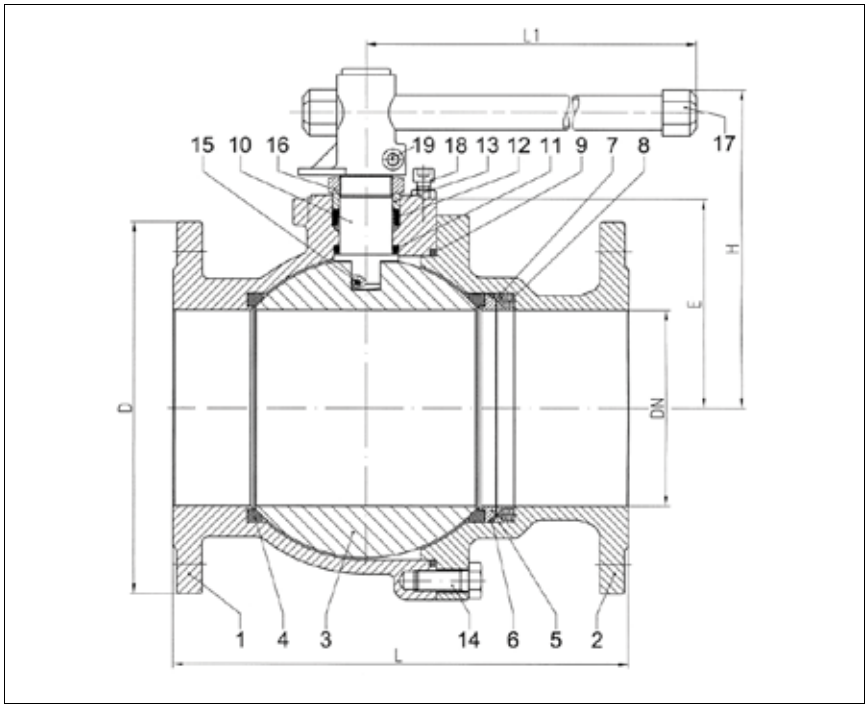
NPS inch	dimensions (mm) H	L1	L 150 lbs.	L 300 lbs.	D 150 lbs.	D 300 lbs.	E	top flange ISO	torque Nm** 150 lbs.	Nm** 300 lbs.
½“	95	160	108	140	89	95	39.5	F05	9	10
¾“	105	160	117	152	98	117	46	F05	11	13
1“	114	180	127	165	108	124	49.5	F05	14	18
1 ¼“	130	180	140	178	117	133	59	F05	18	25
1 ½“	135	300	165	190	127	156	76	F07	39	52
2“	143	300	178	216	152	165	83.5	F07	48	70
2 ½“	155	300	190	241	178	190	94	F07	71	118
3“	197	500	203	283	190	210	102.5	F10	121	215
4“	215	500	229	305	229	254	120.5	F10	170	333

** Necessary torque measured with treated water at Δ P acc. to pressure class and room temperature.

Ordering example:
INTEC K220, 2”, Class 300, CF8M, Fire-Safe

BALL VALVES INTEC

K220, 6” - 8”, Class 150/300
floating ball, soft seated,
single side spring loaded seat ring

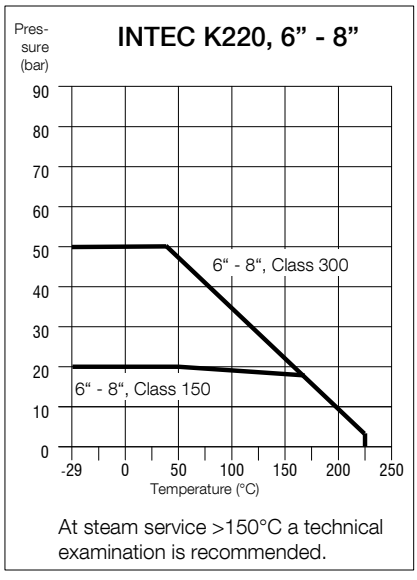


Flanged ball valve
full bore
face to face acc. to ANSI B 16.10
flanges acc. to ANSI B 16.5

Specification:
Two-piece ball valve, flanges acc. to ANSI B 16.5, face to face dimensions acc. to ANSI B 16.10, full bore, blow-out-proof stem, body material stainless steel (ASTM A351-CF8M) or carbon steel (ASTM A216-WCB), antistatic device, free of non ferrous metals, seat full chambered, single side spring loaded seat ring, stem packing Graph-ite/KFGN/KFAM cone ring system dynamic loaded adjustable, top flange DIN EN ISO 5211, approved by PED, stuffing box acc. to GERMAN clean air act VDI 2440, Fire-Safe acc. to DIN EN ISO 10497, with lever.

Marking: INTEC K220

No.	Part	Material	Material
Standard design			
1	body	A216-WCB	ASTM A351-CF8M
2	cap	A216-WCB	ASTM A351-CF8M
3	ball	1.4408 (ASTM A351-CF8M)	
4	seat	KFGN/KFM	
5	seat bearing ring	1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
6	bearing ring seal	KF	
7	follower ring	1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
8	spiral spring	1.4401 (AISI 316)	
9	body seal	KF	
10	stem	1.4462 (A479 UNS S31803)	
11	below seal	KFGN/Graphite	
12	upper seal	KFAM/Graphite	
13	bearing	PEEK	
14	hex. screw	A4-70 (A193-B8M)	
15	antistatic element	1.4401 (AISI 316)/1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
16	hex. nut self-locking	A2/1.4301 (AISI 304)	
17	lever	1.4408 (ASTM A351-CF8M)/1.4308 (ASTM A351-CF8)	
18	stopper	A2	
19	allen screw	A2-70 (A193-B8)	
Fire-Safe design			
6	bearing ring seal	Graphite	
8	spiral spring	Inconel X750	
9	combined body seal	KF-Graphite	
13	Fire-Safe seal	Graphite	
	ring	1.4571 (AISI 316 Ti)/1.4404 (AISI 316 L)	
	thrust washer	PEEK	



At steam service >150°C a technical examination is recommended.

Ordering example:
INTEC K220, 6”, Class 300, CF8M, Fire-Safe

Dimensions

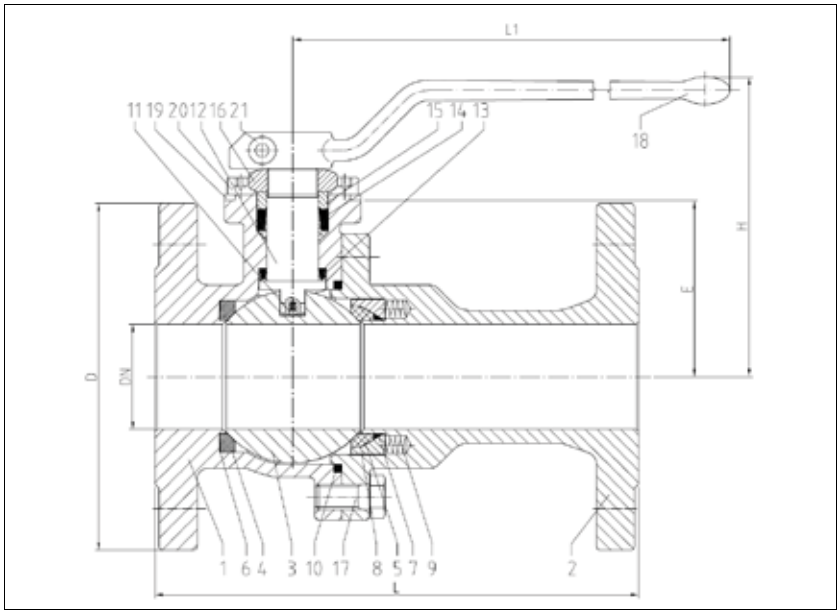
NPS inch	dimensions (mm) H	L1	L 150 lbs.	L 300 lbs.	D 150 lbs.	D 300 lbs.	E	top flange ISO	torque Nm** 150 lbs.	Nm** 300 lbs.
6“	280	700	394	403	279	318	181	F12	380	847***
8“	340	1000	457	502	343	381	225	F14	742	1731***

** Necessary torque measured with treated water at Δ P acc. to pressure class and room temperature.

*** Class 300 gearbox recommended.

BALL VALVES INTEC

K224, DN15 - DN100, PN16/40
floating ball, PEEK seated,
single side spring loaded seat ring



No.	Part	Material	Material
Standard design			
1	body	1.0619	1.4408
2	cap	1.0619	1.4408
3	ball	1.4408	
4	seat	PEEK / PEEK mod.	
5	spring loaded seat	PEEK / PEEK mod.	
6	seat back seal	Graphite	
7	seat seal	KF	
8	seat bearing ring	1.4571/1.4404	
9	spiral spring	1.4401	
10	body seal	KF	
11	antistatic element	1.4401/1.4571/1.4404	
12	stem	1.4462	
13	below seal	KFGN/Graphite	
14	upper seal	KFAM/Graphite	
15	upper stem bearing	PEEK	
16	hex. nut self-locking	A2/1.4301	
17	hex. screw	A4-70	
18	lever	1.4408/1.4308/steel zincplated	
19	stopper	1.4301	
20	allen screw	A2-70	
21	allen screw	A2-70	
Fire-Safe design			
7	seat seal	Graphite	
9	spiral spring	Inconel X750	
10	combined body seal	KF-Graphite	
12	Fire-Safe seal	Graphite	
	ring	1.4571/1.4404	
	thrust washer	PEEK	

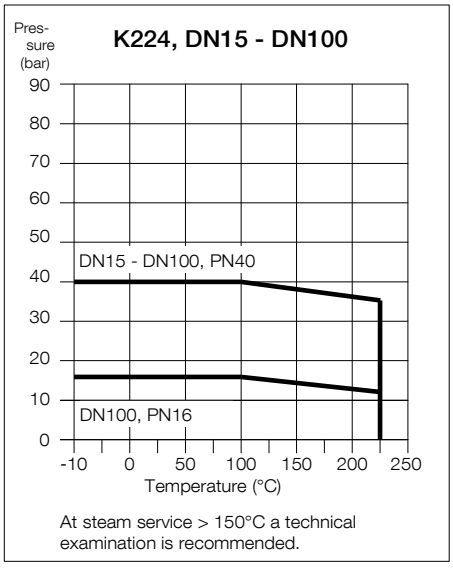
Flanged ball valve
full bore
face to face acc. to EN 558, GR. 1
face to face acc. to EN 558, GR. 27
flanges acc. to EN 1092

Specification:

Two-piece ball valve with flanges acc. to EN 1092, face to face dimensions acc. to EN 558, GR.1/GR.27, full bore, blow-out-proof stem, body material stainless steel (1.4408) or carbon steel (1.0619), antistatic device, free of non ferrous metals, seat full chambered, single side spring loaded seat ring, stem packing Graphite/KFGN/KFAM cone ring system dynamic loaded adjustable, top flange DIN EN ISO 5211, approved by PED, certified acc. to GERMAN clean air act VDI 2440, with lever.

Also possible as high-temperature version up to +260°C.

Marking: INTEC K224



Dimensions

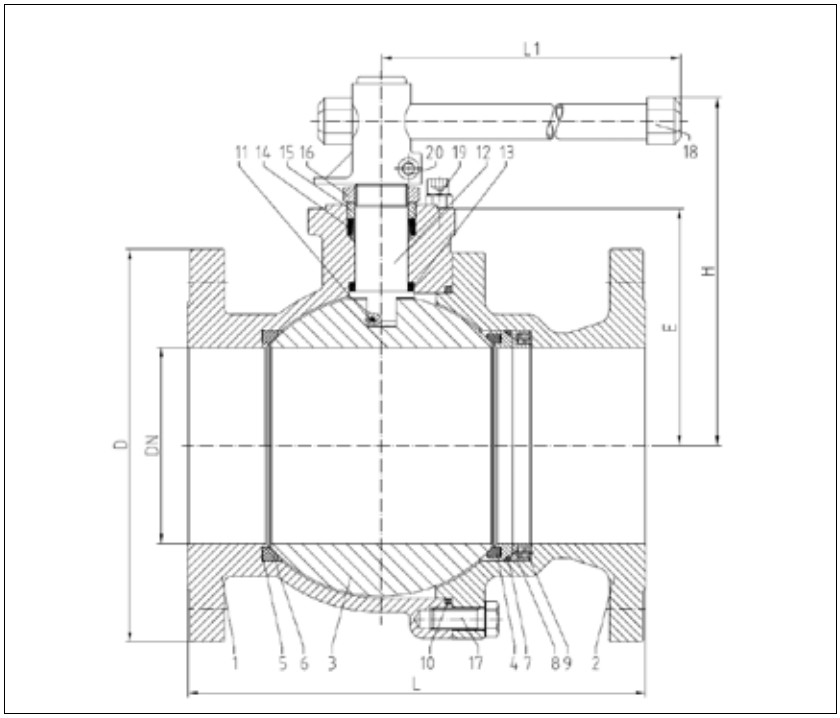
DN mm	PN	dimensions (mm) H	L1	L GR.1	L GR.27	D	E	top flange ISO	torque Nm**	ca. weight kg GR.1	GR.27
15	40	95	160	130	115	95	39.5	F05	12	3.0	2.9
20	40	105	160	150	120	105	46	F05	16	4.0	3.7
25	40	114	180	160	125	115	49.5	F05	23	4.9	4.6
32	40	130	180	180	130	140	59	F05	35	6.7	6.4
40	40	135	300	200	140	150	76	F07	70	9.3	8.8
50	40	143	300	230	150	165	83.5	F07	101	13.0	12.1
65	40	155	300	290	170	185	94	F07	180	17.0	16.0
80	40	197	500	310	180	200	102.5	F10	327	26.0	23.0
100	16	215	500	350	190	220	120.5	F10	257	33.0	30.0
100	40	215	500	350	190	235	120.5	F10	517	34.0	32.0

** Necessary torque measured with treated water at Δ P acc. to pressure class and room temperature

Ordering example:
INTEC K224, DN50, PN40, GR.27, 1.4408, Fire-Safe

BALL VALVES INTEC

K224, DN125 - DN200, PN10/16
floating ball, PEEK seated,
single side spring loaded seat ring



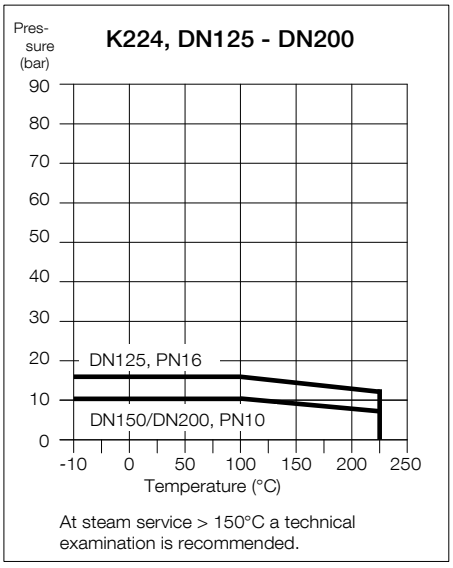
Flanged ball valve
full bore
face to face acc. to EN 558, GR. 27
flanges acc. to EN 1092

Specification:

Two-piece ball valve with flanges acc. to EN 1092, face to face dimensions acc. to EN 558, GR.27, full bore, blow-out-proof sem, body material stainless steel (1.4408) or carbon steel (1.0619), antistatic device, free of non ferrous metals, seats full chambered, single side spring loaded seat ring, stem packing Graphite/KFGN/KFAM cone ring system dynamic loaded adjustable, top flange DIN EN ISO 5211, approved by PED, certified acc. to GERMAN clean air act VDI 2440, with lever.

Marking: INTEC K224

No.	Part	Material	Material
Standard design			
1	body	1.0619	1.4408
2	cap	1.0619	1.4408
3	ball	1.4408	
4	seat (flanged)	PEEK/ Graphite/ 1.4571 - 1.4404 PEEK mod./ Graphite/ 1.4571 - 1.4404	
5	seat back seal	Graphite	
6	seat	PEEK / PEEK mod.	
7	seat seal	KF	
8	follower ring	1.4571/1.4404	
9	spiral spring	1.4401	
10	body seal	KF	
11	antistatic element	1.4401/1.4571/1.4404	
12	stem	1.4462	
13	below seal	KFGN/Graphite	
14	upper seal	KFAM/Graphite	
15	upper stem bearing	PEEK	
16	hex. nut self-locking	A2/1.4301	
17	hex. screw	A4-70	
18	lever	1.4408/1.4308/steel zincplated	
19	stopper	A2	
20	allen screw	A2-70	
Fire-Safe design			
7	seat seal	Graphite	
9	spiral spring	Inconel X750	
10	combined body seal	KF-Graphite	
12	Fire-Safe seal	Graphite	
	ring	1.4571/1.4404	
	thrust washer	PEEK	



At steam service > 150°C a technical examination is recommended.

Ordering example:
INTEC K224, DN150, PN10, GR.27, 1.4408, Fire-Safe

Dimensions

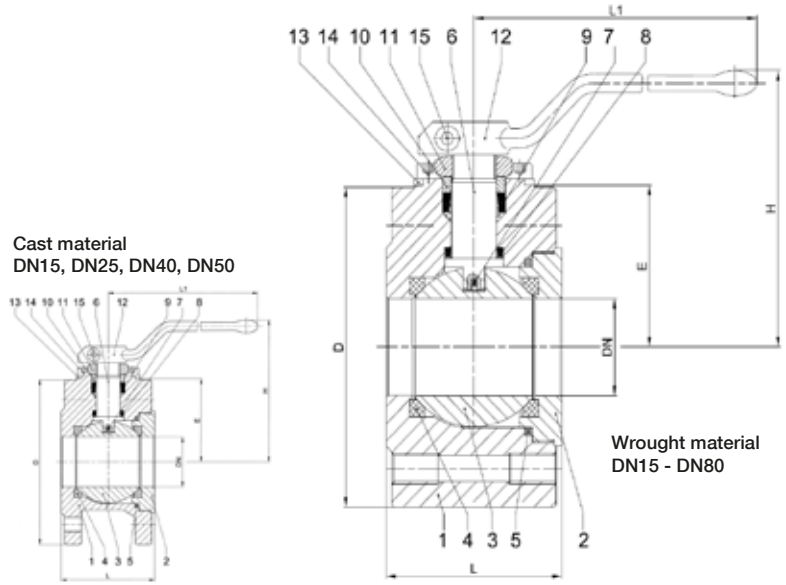
DN	PN	dimensions (mm)					top flange	torque	ca. weight
mm		H	L1	L	D	E	ISO	Nm*	kg
125	16	263	700	325	250	164	F12	475**	56
150	10	265	700	350	285	160	F12	362**	80
200	10	340	1000	400	340	225	F14	558**	152

* Necessary torque measured with treated water at Δ P acc. pressure class and room temperature.

** gearbox recommended

BALL VALVES INTEC

K200-K, DN15 - DN80, PN40
floating ball, soft seated

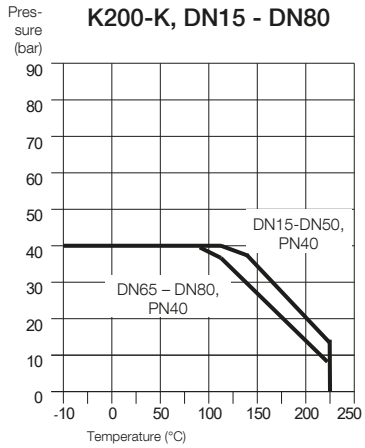


Wafer type ball valve
full bore
face to face acc. to EN 558, GR. 107
flanges acc. to EN 1092

Specification:
One-piece ball valve with flanges acc. to EN 1092, face to face dimensions acc. to EN 558, GR.107, full bore, blow-out-proof stem, body material stainless steel (1.4571/1.4404/1.4408) or carbon steel (1.0460/1.0619), antistatic device, free on non-ferrous metals, flange facing without interruption, cap mounted on block, body seal contact arrangement full chambered, seat full chambered, stem packing Graphite/KFGN/ KFAM system dynamic loaded adjustable, top flange DIN EN ISO 5211, approved by PED, certified acc. to GERMAN clean air act VDI 2440, Fire-Safe acc. to DIN EN ISO 10497, with lever.

Marking: INTEC K200-K

No.	Part	Material code	Material code
Standard design			
1	body	1.0460/1.0619	1.4571/1.4404/1.4408
2	cap	1.0460/1.0619	1.4571/1.4404/1.4408
3	ball	1.4408	
4	seat	KFGN/KFM	
5	body seal	KF	
6	stem	1.4462	
7	antistatic element	1.4401/1.4571/1.4404	
8	below seal	KFGN/Graphite	
9	upper seal	KFAM/Graphite	
10	bearing	PEEK	
11	hex. nut self-locking	A2/1.4301	
12	lever	1.4408/1.4308/steel zincplated	
13	stopper	1.4301	
14	allen screw	A2-70	
15	allen screw	A2-70	
Fire-Safe design			
5	combined body seal	KF-Graphite	
9	Fire-Safe seal	Graphite	
	ring	1.4571/1.4404	
	thrust washer	PEEK	



At steam service > 150°C a technical examination is recommeded.

Ordering example:
INTEC K200-K, DN50, PN40, 1.0460, Fire-Safe

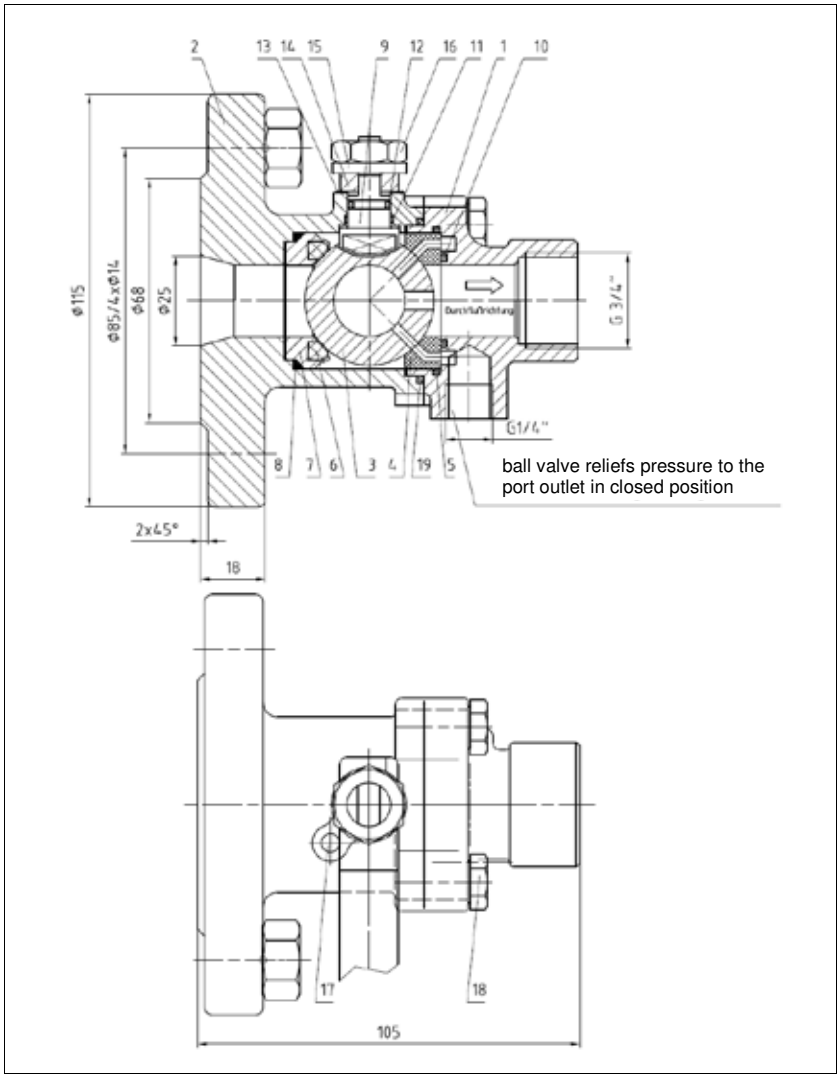
Dimensions

DN mm	PN	dimensions (mm) H	L1	L	D	E	top flange ISO	torque Nm**	weight kg ca. wrought material	cast material
15	40	95	160	50	95	39.5	F05	10	2.8	1.9
20	40	105	160	50	105	46.0	F05	16	3.3	--
25	40	114	180	60	115	49.5	F05	29	4.8	4.1
32	40	130	180	65	140	59.0	F05	46	7.6	--
40	40	135	300	80	150	76.0	F07	55	10.5	6.8
50	40	143	300	95	165	83.5	F07	88	14.8	9.1
65	40	155	300	110	185	94.0	F07	143	20.7	--
80	40	197	500	145	200	102.5	F10	208	30.6	--

** Necessary torque measured with treated water at Δ P acc. to pressure class and room temperature.

BALL VALVES INTEC

K204-S-D, DN25/20, PN25
with outlet pressure relief connection

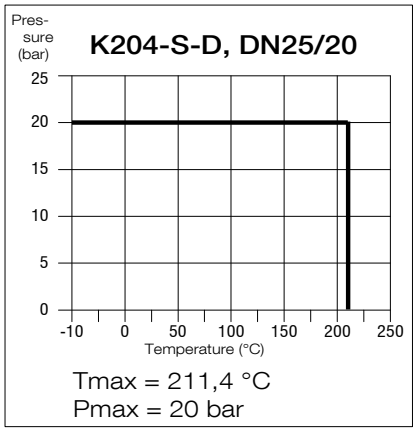


Steam ball valve
reduced bore
inlet with flange connection acc. to EN 1092
outlet with threaded end G ¾“
outlet pressure relief connection threaded end G ¼”
face to face dimensions acc. to producers standard

Specification:
Two-piece split body steam ball valve, inlet with flange connection acc. to EN 1092, outlet with threaded end G¾“ and outlet with automatic pressure relief in closed position, connection threaded end G ¼“, reduced bore, body material stainless steel (1.4408), free of non-ferrous metals, inlet seat ring KFCM, outlet seat ring made of modified PEEK, maintenance free shaft sealing with friction washer and o-ring, approved by PED, with lever.

Marking: INTEC
Type: K204-S-D

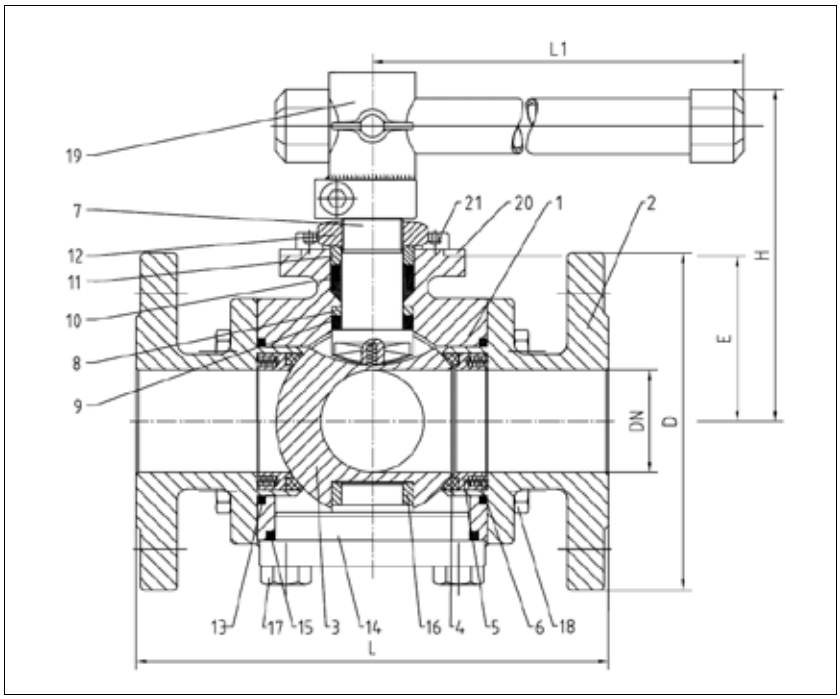
No.	Part	Material
1	body	1.4408
2	cap	1.4408
3	ball	1.4408
4	seat outlet	PEEK-mod.
5	o-ring	EPDM peroxyd. cross linked
6	seat inlet	KFC
7	seat bearing ring	1.4571/1.4404
8	seat	Graphite
9	stem	1.4462
10	o-ring	EPDM peroxyd. cross linked
11	friction washer	KFSM
12	o-ring	EPDM peroxyd. cross linked
13	thrust washer	PEEK
14	lever	1.4301/plasticised PVC
15	clamping washer	A2
16	hex. nut	A2
17	stopper	1.4571/1.4404
18	hex. screw	A4-70
19	body seal	KF



Ordering example:
INTEC K204-S-D, DN25/20, PN25, 1.4408

BALL VALVES INTEC

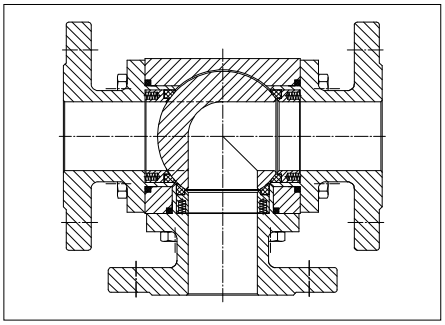
K410, DN15 - DN100, PN16/40
trunnion mounted, soft seated, spring loaded seat rings



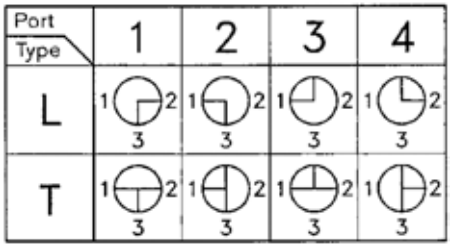
3-way ball valve with flanges
full bore
face to face acc. to EN 558, GR.1
flanges acc. to EN 1092

Specification:
3-way ball valve with flanges acc. to EN 1092, face to face dimensions acc. to EN 558, GR.1, full bore, ball with L- or T-bore, blow-out-proof stem, body material stainless steel (1.4408/1.4571/1.4404) or carbon steel (1.0619/1.0460), antistatic device, free of non ferrous metals, seats full chambered, stem packing Graphite/KFGN/KFAM cone ring system dynamic loaded adjustable, top flange DIN EN ISO 5211, approved by PED, certified acc. to GERMAN clean air act VDI 2440, with lever.

Bezeichnung: INTEC K410



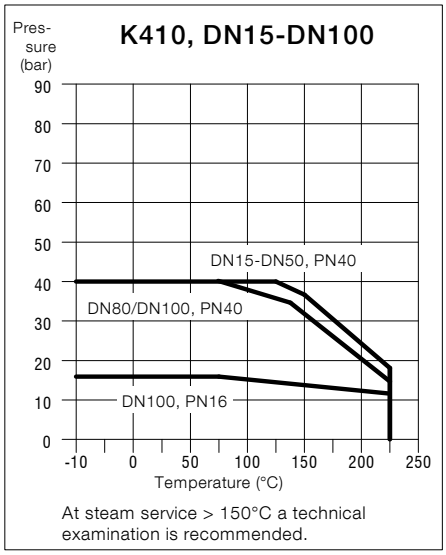
No.	Part	Material	Material
1	body	1.0619/1.0460	1.4408/1.4571/1.4404
2	cap	1.0619/1.0460	1.4408/1.4571/1.4404
3	ball	1.4408/1.4571/1.4404	
4	seat	KFGN/KFM	
5	seat bearing ring	1.4571/1.4404	
6	spiral spring	1.4401	
7	stem	1.4462	
8	below stem bearing	PEEK	
9	below seal	KFGN/Graphite	
10	upper seal	KFAM/Graphite	
11	upper stem bearing	PEEK	
12	hex. nut self-locking	A2/1.4301	
13	body seal	KF	
14	bearing neck	1.4408/1.4571/1.4404	
15	trunnion seal	KF	
16	bearing	PEEK	
17	hex. screw	A4-70	
18	hex. screw	A4-70	
19	lever	1.4408/1.4308/steel zincplated	
20	stopper	1.4301	
21	allen screw	A2-70	



Dimensions

DN mm	PN	dimensions (mm) H	L1	L	D	E	top flange ISO	torque Nm*	weight kg
15	40	119.5	180	130**/210	95	55.0	F05	25	8.5
25	40	124.5	300	160	115	65.0	F07	46	10.0
40	40	171.0	500	200	150	76.5	F10	91	20.1
50	40	175.5	500	230	165	81.0	F10	95	24.4
80	40	204.0	700	310	200	120.0	F12	197	35.5
100	40	218.0	700	350	235	134.0	F12	243	48.2
100	16	218.0	700	350	220	134.0	F12	133	45.5

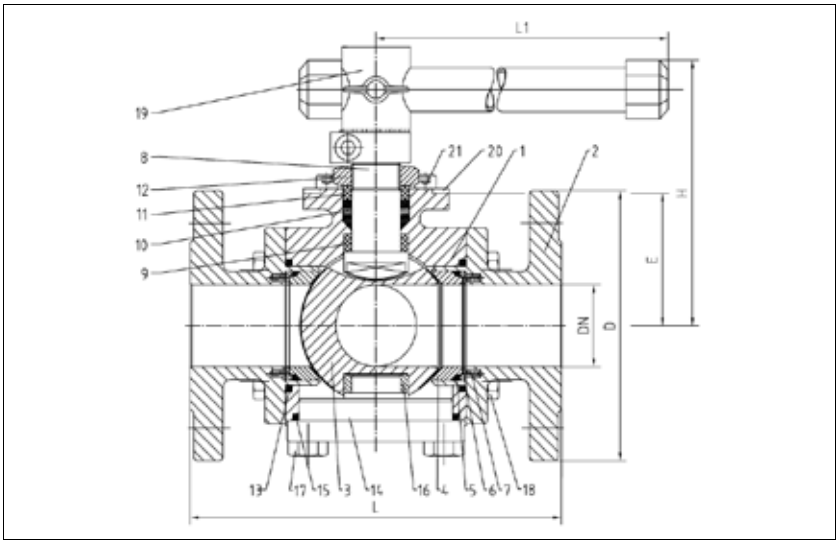
* Necessary torque measured with treated water at Δ P acc. to pressure class and room temperature
** Compact type



Ordering example:
INTEC K410, DN50, PN40, Gr.1, 1.4408

BALL VALVES INTEC

K411, DN15 - DN100, PN16/40
trunnion mounted ball, metal seated, spring loaded seat rings

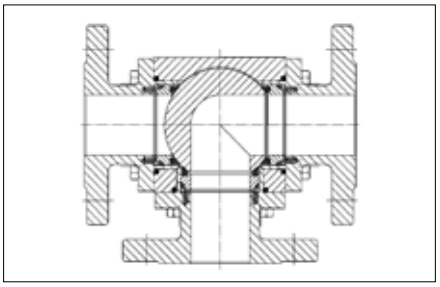


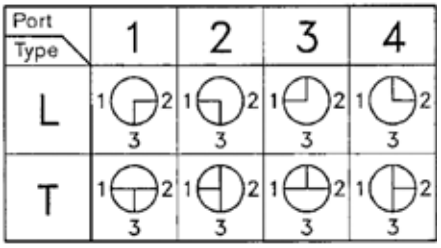
3-way ball valve with flanges
full bore
face to face acc. to EN 558, GR.1
flanges acc. to EN 1092

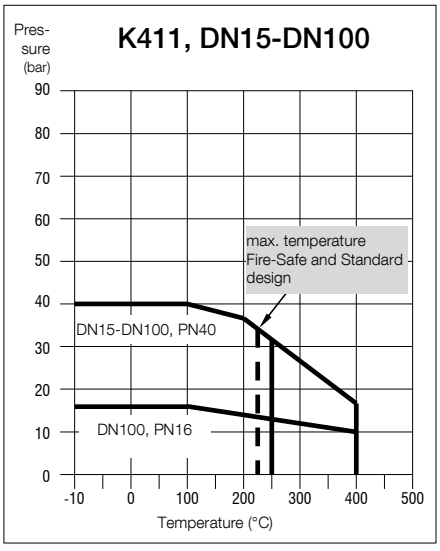
Specification:
3-way ball valve with flanges acc. to EN 1092, face to face dimensions acc. to EN 558, GR.1, full bore, ball with L- or T-bore, blow-out-proof stem, body material stainless steel (1.4408/ 1.4571/1.4404) or carbon steel (1.0619/1.0460), antistatic device, free of non ferrous metals, trunnion mounted ball, seats 1.4571/1.4404 hard facing metal coated, stem packing cone ring system acc. to temperature use, dynamic loaded adjustable, top flange DIN EN ISO 5211, approved by PED, certified acc. to GERMAN clean air act VDI 2440, with lever.

Marking: INTEC K411

No.	Part	Material		Material
High-temperature design				
1	body	1.0619/1.0460		1.4408/1.4571/1.4404
2	cap	1.0619/1.0460		1.4408/1.4571/1.4404
3	seal	1.4408/1.4571/1.4404 hard facing metal coated		
4	seat	1.4408/1.4571/1.4404 hard facing metal coated		
5	seat seal	Graphite		
6	follower ring	1.4571/1.4404		
7	spiral spring	Inconel X750		
8	stem	250°C	350°C	400°C
		1.4462	1.4980	1.4980
9	below stem bearing	E-carbon		
10	stem seal	1.4571/1.4404/Graphite		
11	upper stem bearing	E-carbon		
12	hex. nut self-locking	A2/1.4301		
13	body seal	Graphite		
14	bearing neck	1.4571/1.4404		
15	trunnion seal	Graphite		
16	bearing	E-carbon		
17+18	hex. screw	A4-70		
19	lever	1.4408/1.4308/steel zincplated		
20	stopper	1.4301		
21	allen screw	A2-70		
Fire-Safe design				
9	below stem seal	KFGN/Graphite		
	bearing	PEEK		
10	upper stem seal	KFAM/Graphite		
11	Fire-Safe seal	Graphite		
	ring	1.4571/1.4404		
	thrust washer	PEEK		
13	combined body seal	KF-Graphite		
16	bearing	PEEK		
Standard design				
5	seat seal	KF		
7	spiral spring	1.4401		
9	below stem seal	KFGN/Graphite		
	bearing	PEEK		
10	upper stem seal	KFAM/Graphite		
11	bearing	PEEK		
13	body seal	KF		
15	trunnion seal	KF		
16	bearing	PEEK		







Dimensions

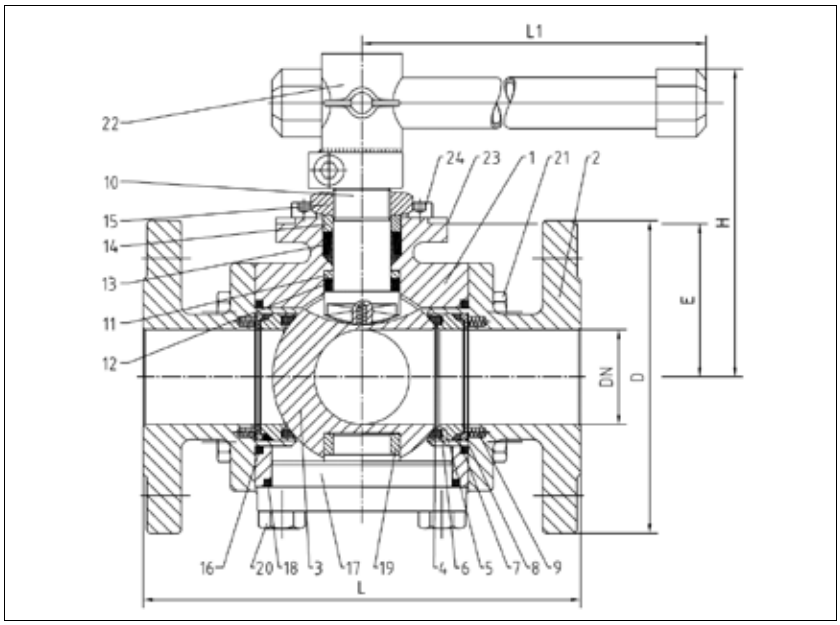
DN mm	PN	dimensions (mm) H	L1	L	D	E	top flange ISO	weight kg
15	40	119.5	180	130**/210	95	55.0	F05	8.5
25	40	124.5	300	160	115	65.0	F07	10.0
40	40	171.0	500	200	150	76.5	F10	20.1
50	40	175.5	500	230	165	81.0	F10	24.4
80	40	204.0	700	310	200	120.0	F12	35.5
100	40	218.0	700	350	235	134.0	F12	48.2
100	16	218.0	700	350	220	134.0	F12	45.5

** wafer type

Ordering example:
INTEC K411, DN50, PN40, Gr.1, 1.4408

BALL VALVES INTEC

K414, DN15 - DN100, PN16/40
trunnion mounted, PEEK seated, spring loaded seat rings



No.	Part	Material	Material
Standard design			
1	body	1.0619/1.0460	1.4408/1.4571/1.4404
2	cap	1.0619/1.0460	1.4408/1.4571/1.4404
3	ball	1.4408/1.4571/1.4404	
4	seat	PEEK	
5	seat bearing ring	1.4571/1.4404	
6	seat back seal	Graphite	
7	seat seal	KF	
8	follower ring	1.4571/1.4404	
9	spiral spring	1.4401	
10	stem	1.4462	
11	below stem bearing	PEEK	
12	below seal	KFGN/Graphite	
13	upper seal	KFAM/Graphite	
14	upper stem bearing	PEEK	
15	hex. nut self-locking	A2/1.4301	
16	body seal	KF	
17	bearing neck	1.4571/1.4404	
18	trunnion seal	KF	
19	bearing	PEEK	
20+21	hex. screw	A4-70	
22	lever	1.4408/1.4308/steel zincplated	
23	stopper	1.4301	
24	allen screw	A2-70	
Fire-Safe design			
7	seat seal	Graphite	
9	spiral spring	Inconel X750	
16	combined body seal	KF-Graphite	
18	trunnion seal	KF-Graphite	
14	Fire-Safe seal ring	Graphite	
	thrust washer	1.4571/1.4404	
		PEEK	

Dimensions

DN mm	PN	dimensions (mm) H	L1	L	D	E	top flange ISO	weight kg
15	40	119.5	180	130**/210	95	55.0	F05	8.5
25	40	124.5	300	160	115	65.0	F07	10.0
40	40	171.0	500	200	150	76.5	F10	20.1
50	40	175.5	500	230	165	81.0	F10	24.4
80	40	204.0	700	310	200	120.0	F12	35.5
100	40	218.0	700	350	235	134.0	F12	48.2
100	16	218.0	700	350	220	134.0	F12	45.5

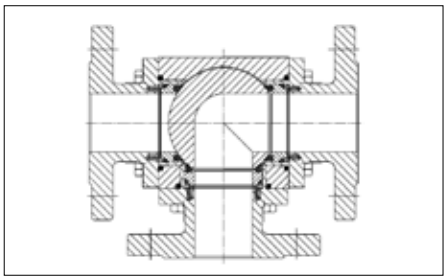
** wafer type

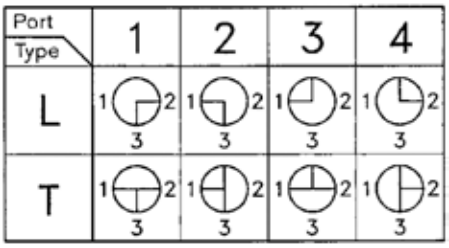
3-way ball valve with flanges
full bore
face to face acc. to EN 558, GR.1
flanges acc. to EN 1092

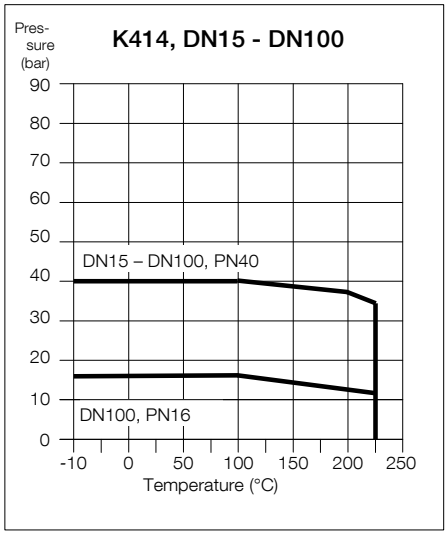
Specification:
3-way ball valve with flanges acc. to EN 1092, face to face dimensions acc. to EN 558, GR.1, full bore, ball with L- or T-bore, blow-out-proof stem, body material stainless steel (1.4408/1.4571/1.4404) or carbon steel (1.0619/1.0460), antistatic device, free of non ferrous metals, trunnion mounted ball, seats full chambered, stem packing Graphite/KFGN/KFAM cone ring system dynamic loaded adjustable, top flange DIN EN ISO 5211, approved by PED, certified acc. to GERMAN clean air act VDI 2440, with lever.

Also possible as high temperature version up to +260°C.

Marking: INTEC K414



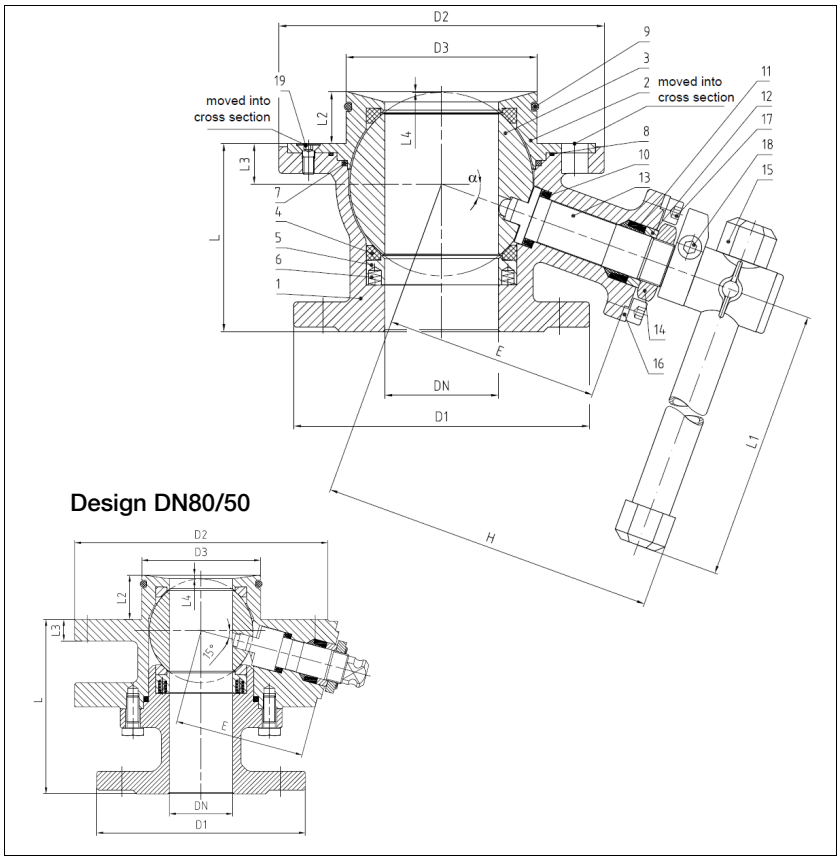




Ordering example:
INTEC K414, DN50, PN40, GR.1, 1.4408

BALL VALVES INTEC

K500, DN80/50 - DN200/150, PN10/16
floating ball, soft seated, single side spring loaded seat ring
Tank connection acc. to DIN 28140 part 1



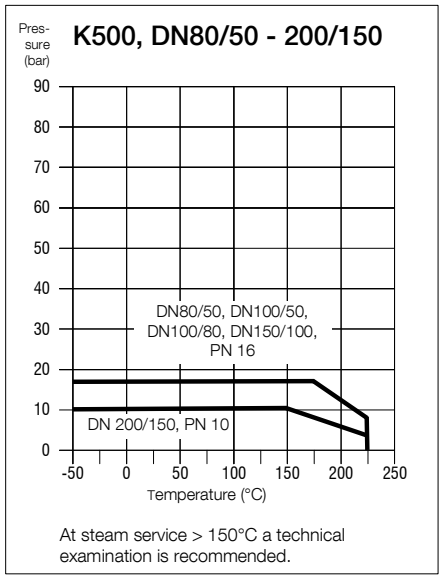
Design DN80/50

Tank bottom ball valves with flanges
full bore
face to face acc. to EN 558, GR. 13
flanges acc. to EN 1092

Specification:
Tank bottom ball valve with two-piece body, outlet flange acc. to EN 1092, face to face dimension acc. to EN 558, GR.13, full bore, body material stainless steel (1.4408/1.4571/ 1.4404), antistatic device, free of non ferrous metals, tank connection acc. to DIN 28140 part 1, single spring loaded seat ring, stem sealing maintenance free, dynamic loaded adjustable, stem is angularly placed and thus a marsh free installation and trouble free automation is possible, top flange DIN EN ISO 5211, approved by PED, certified acc. to GERMAN clean air act VDI 2440,
Fire-Safe design, with lever.

Marking: INTEC K500

No.	Part	Material
1	body	1.4408/1.4571/1.4404
2	cap	1.4408/1.4571/1.4404
3	ball	1.4408
4	seat	KFM/KFGN
5	seat bearing ring	1.4571/1.4404
6	spiral spring	1.4401
7	body seal	KF
8	O-ring	Viton
9	O-ring	Viton
10	below seal	KFGN/Graphite
11	upper seal	KFAM/Graphite
12	bearing	PEEK
13	stem	1.4462
14	hex. nut self locking	A2/1.4301
15	lever	1.4408/1.4308
16	stopper	1.4301
17	allen screw	A2-70
18	allen screw	A2-70
19	countersunk screw	A4-70



* Necessary torque measured with treated water at Δ P acc. to pressure class and room temperature

**Outlet flange Compact design with threaded holes. Also available in flange version, then with length = 138 mm

*** No FTF standard

Dimensions

DN	PN	dimensions (mm)											top flange	torque	weight
mm		H	L1	L2	L3	L4	L	E	D1	D2	D3	α	ISO	Nm*	kg
80/50	16	184.0	300	35	17	3.0	114**	102.5	165	200	94	15°	F07	45	11.8
100/50	16	178.0	300	35	27	29.8	127	118.5	165	220	129	15°	F07	45	16.0
100/80	16	339.0	500	35	27	0.3	127	144.5	200	220	129	20°	F10	90	17.5
150/100	16	368.5	500	40	41	0.5	140	174.0	220	285	179	20°	F10	130	43.0
200/150	10	405.0	700	40	76	1.0	200***	206.0	285	340	233	15°	F12	220	66.0

Ordering example:
INTEC K500, DN100/80, PN16, GR.13, 1.4408

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