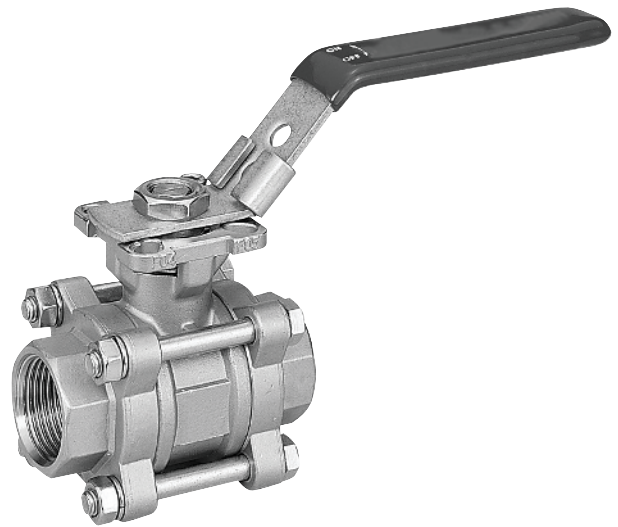


13SD / 13CD: DN15-50

Specifications

- 3-pce ball valve
- ISO5211 mounting flange for direct mounting
no brackets and adaptors have to be used
- Face to face for threaded valves acc. DIN3203
M4, for welded ends acc. DIN3202 S13
- Fire safe acc. API607 4th ed.
- Blow-out proof stem
- Lockable lever

Pressure: m ax. 63 bar (1000 psi)
 Temperature: -30°C upto +180°C
 Certificates: Fire safe acc. API607 4th ed.
 3.1 b material certificate

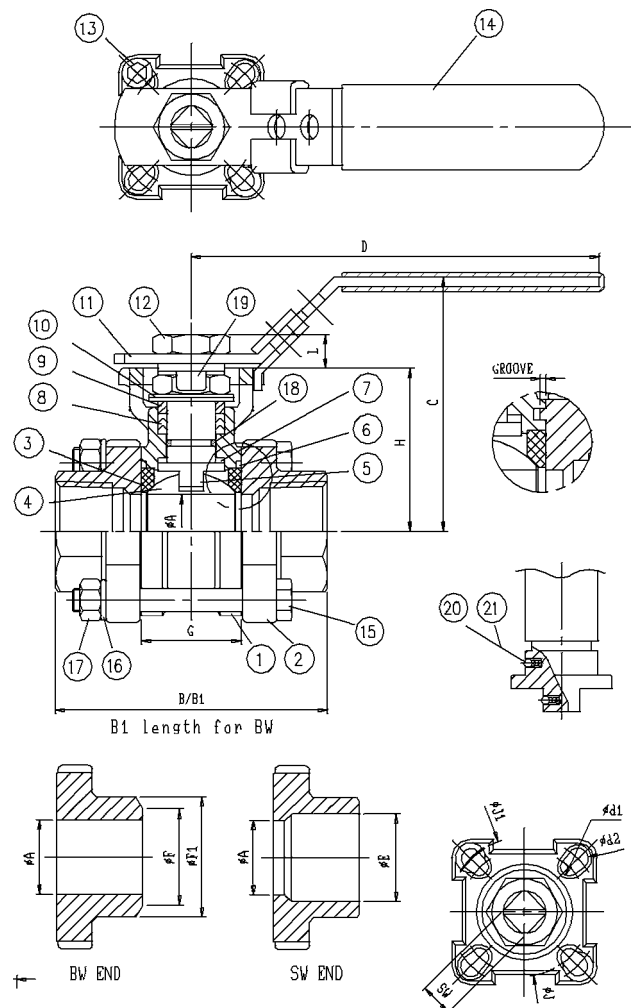


Options

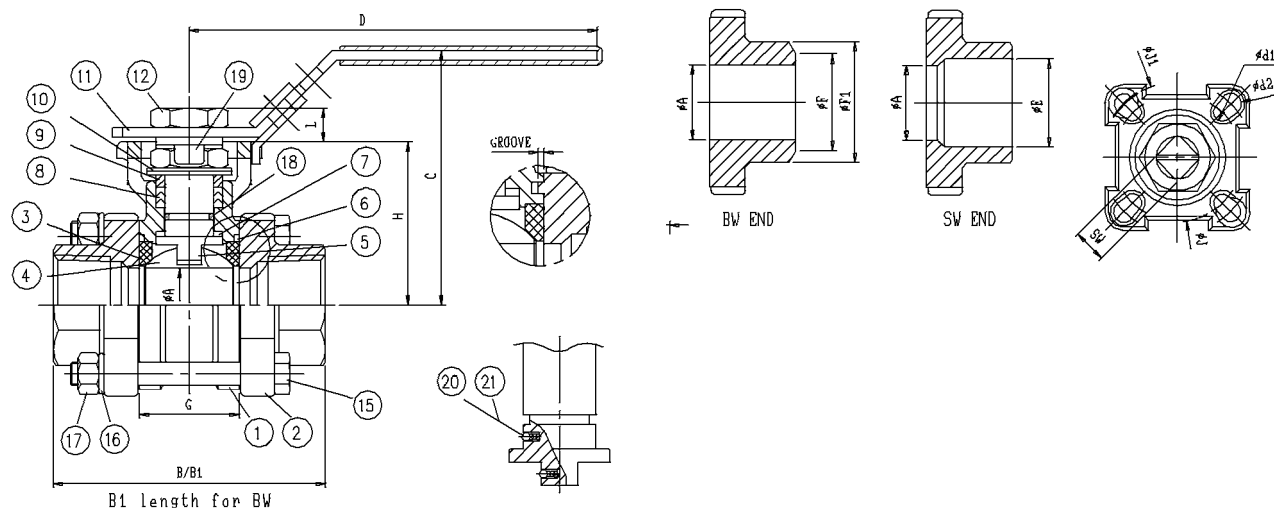
- 50% SS filled PTFE seats
- Carbon filled seats
- Kalrez® o-rings
- Etc.

Materials

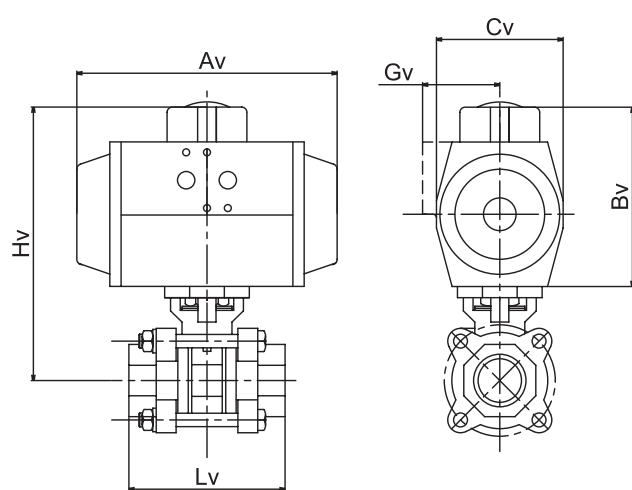
Item	Description	S 13D	C 13D
1	Body	SS 316	Carbon steel
2	Endcaps	SS 316	Carbon steel
3	Seats	PTFE 15% glass filled	PTFE 15% glass filled
4	Ball	SS 316	SS 304
5	Stem	SS 316	SS 304
6	Seal	PTFE	PTFE
7	Seal	PTFE	PTFE
8	Seal	PTFE	PTFE
9	Gland	SS 304	SS 304
10	Disc springs	SS	SS
11	Lever	SS	SS
12	Nut	SS	SS
13	Bolt	SS	SS
14	Grip	PVC	PVC
15	Bolts	SS	SS
16	Washer	SS	SS
17	Nuts	SS	SS
18	O-ring	Viton®	Viton®
19	Locking device	SS	SS
20	Anti static ball	SS	SS
21	Spring	SS	SS



13SD / 13CD: DN15-50, dimensions doc(mm)



DN	Afm.	A	B	B1	C	D	E	F	F1	G	J	J1	SW	d1	d2	H	L	kg
15	1/2"	16	75	75	70.9	110	21.9	17	21.3	25.2	36	42	9	6	6	42.3	8	0.596
20	3/4"	20	80	90	73.4	110	27.2	22	26.9	27.7	36	42	9	6	6	44.8	8	0.871
25	1"	24.5	90	100	84.1	135	34	28	33.7	33	42	50	11	6	7	54	10	1.359
32	1 1/4"	32	110	110	89.3	135	42.4	37	42.4	41.2	42	50	11	6	7	59.2	10	2.009
40	1 1/2"	38	120	125	109.5	165	48.3	43	48.3	49.3	50	70	14	7	9	73.5	14.8	2.904
50	2"	50	140	150	110.9	165	61.3	54	60.3	63.6	50	70	14	7	9	82.9	14.8	4.669



DN	ø	Lv BW	Lv BSP	Double acting						Single acting					
				Type	Av	Bv	Cv	Gv	Hv	Type	Av	Bv	Cv	Gv	Hv
15	1/2"	75	75	AP1D	137	87	60	41	130	AP2S	150	103	73	44.5	146
20	3/4"	90	80	AP1D	137	87	60	41	132	AP2S	150	103	73	44.5	148
25	1"	100	90	AP2D	150	103	73	44.5	158	AP3S	204	120	85	49.5	175
32	1 1/4"	110	110	AP2D	150	103	73	44.5	163	AP3S	204	120	85	49.5	180
40	1 1/2"	125	120	AP3D	204	120	85	49.5	194	AP3.5S	230	130	98	53	204
50	2"	150	140	AP3D	204	120	85	49.5	204	AP3.5S	230	130	98	53	214

Pneumatic actuators are calculated with air supply 6 bar(g)

13SD / 13CD: DN65-100

Specifications

- 3-pce ball valve
- ISO5211 mounting flange for direct mounting no brackets and adaptors have to be used
- Face to face for threaded valves acc. DIN3203 M4, for welded ends acc. DIN3202 S13
- Fire safe acc. API607 4th ed.
- Blow-out proof stem
- Lockable lever

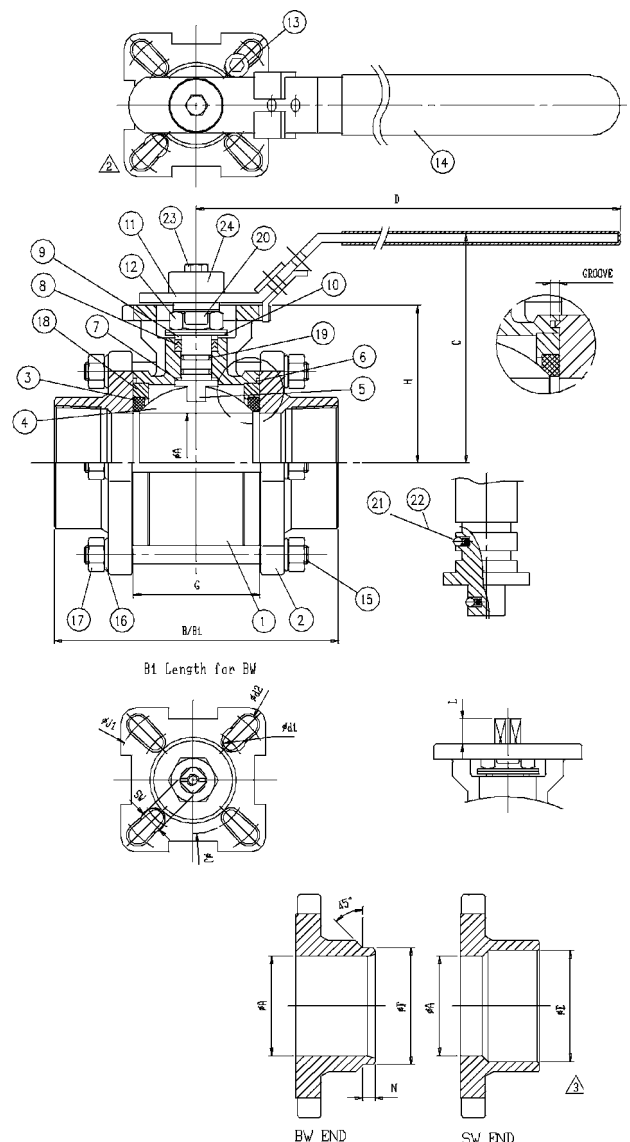
Pressure: m ax. 63 bar (1000 psi)
 Temperature: -30°C upto +180°C
 Certificates: Fire safe acc. API607 4th ed.
 3.1 b material certificate

Options

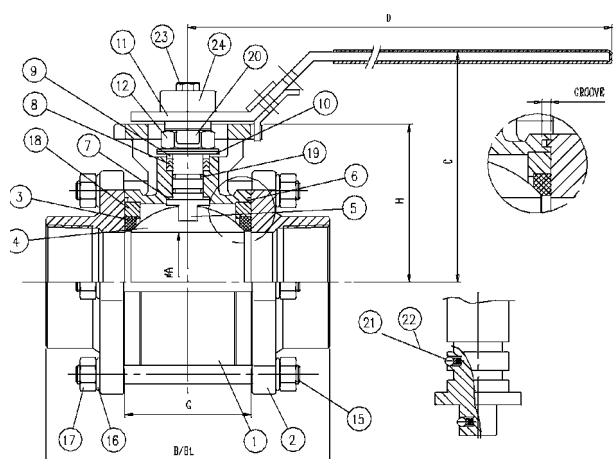
- 50% SS filled PTFE seats
- Carbon filled seats
- Kalrez® o-rings
- Etc.

Materials

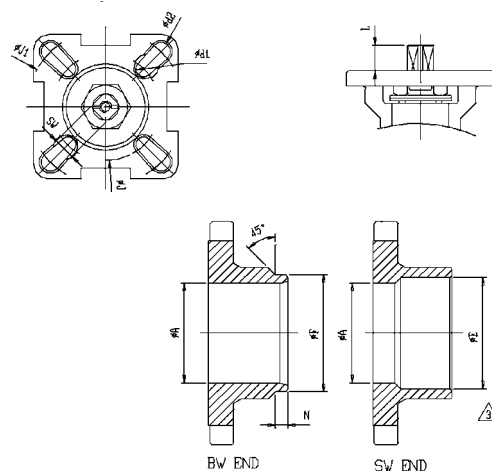
Item	Description	S 13D	C 13D
1	Body	CF8M/316	WCB
2	End caps	CF8M/316	WCB
3	Seats	PTFE+15%	PTFE+15%
4	Ball	CF8M/316	CF8/304
5	Stem	SS 316	SS 304
6	Body seal	PTFE	PTFE
7	Gasket	PTFE	PTFE
8	Seal	PTFE	PTFE
9	Gland ring	SS 304	SS 304
10	Belleville Spring washer	SS 301	SS 301
11	Handle	SS 304	SS 304
12	Lever nut	SS 304	SS 304
13	Stop screw	SS 304	SS 304
14	Plastic coating	PVC	PVC
15	Bolts	SS 304	SS 304
16	Spring washer	SS 304	SS 304
17	Bolts nut	SS 304	SS 304
18	Center ring	SS 304	SS 304
19	O-ring	Viton®	Viton®
20	Stop plate	SS 304	SS 304
21	Locking tab	SS 304	SS 304
22	Washer	SS 304	SS 304
23	Static device	SS 316	SS 316
24	Spring	SS 316	SS 316
25	Screw	SS 304	SS 304



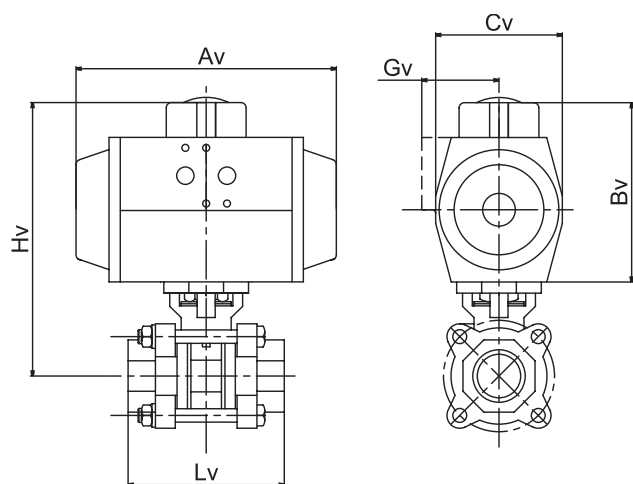
13SD / 13CD: DN65-100, dimensions (mm)



B1 Length for BW



DN	Afm.	A	B	B1	C	D	E	F	N	G	J	J1	SW	d1	d2	H	L	kg
65	2 1/2"	65	185	190	155	300	77	76.1	8	82.1	70	102	17	9	11	107	17.1	10.34
80	3"	80	205	220	165	335	90	88.9	8	95.8	70	102	17	9	11	117.3	17.1	15.26
100	4"	100	240	270	180	335	115.5	114.3	12	117.8	70	102	17	9	11	132.3	17.1	24.6



DN	ø	Lv BW	Lv BSP	Act DA	Av	Bv	Cv	Gv	Hv	Act SA	Av	Bv	Cv	Gv	Hv
65	2 1/2"	190	185	AP3.5D	230	130	98	53	237	AP4S	271	145	110	58	252
80	3"	220	205	AP3.5D	230	130	98	53	248	AP4.5S	305	172	128	69	290
100	4"	270	240	AP4.5D	305	172	128	69	305	AP5S	360	185	140	-	318

Pneumatic actuators are calculated with air supply 6 bar(g)