



3 Piece Design Floating Ball Valve

THREE PIECE DESIGN BALL VALVES - (ASME CLASS 150, 300, 600, 1500 & 2500) ISO-17292

FlowBiz brand three-piece ball valves consist of three pieces, two end connections & a body. The end connections are typically Flanged, threaded or welded to the pipe. Users can easily remove the main body for cleaning or repair without removing the end connection. Hence it is a very vital option because it prevents a line shutdown if maintenance is required.

Our engineers have incarnated perfection in the design of the valve to make it an easy & smooth functioning valve. FlowBiz three-piece design ball valves are easy in disassembly for maintenance along with easy swapping of internal parts.

When seats and seals need to be routinely replaced, having three pieces allows for easy disassembly, servicing and reassembly without having to do the major cutting on the pipe. In case users need to weld the valve, it is possible to move the body with trims out of the way while welding, ensuring the internals stay intact. FlowBiz three-piece ball valves also allow elastomers to be changed to accommodate different process conditions, temperatures, pressures and flows.

Material of Construction

No.	Part	Material Specification	
1	Body / Connection Insert	CS to ASTM A216 Gr. WCB / Forged Steel to A105 / F304 / F316 / F304L / F316L CF8 - 304 / CF8M - SS 316 / CF3 - SS 304L / CF3M - SS 316L	
2	Ball	AISI 304, 316, 304L, SS316L, 410	
3	Seat	PTFE / RPTFE / Carbon Filled PTFE / Glass Filled PTFE, Peek, Devlon	
4	Stem	AISI 304, 316, 304L, SS316L, 410	
5	Body Seal	Graphite	PTFE / RPTFE Special Filled PTFE / Graphite
6	Stem Thrust Seal	Carbon - filled PTFE	
7	Stem Packing	Carbon - filled PTFE / Graphite	

Standards

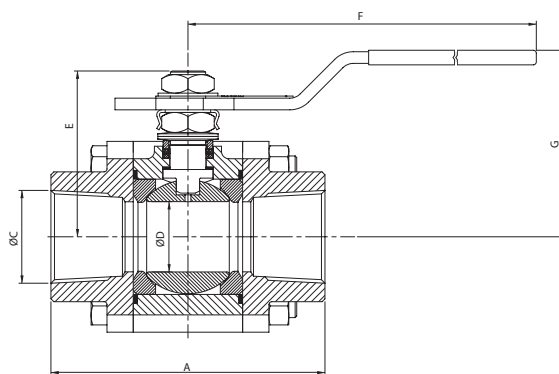
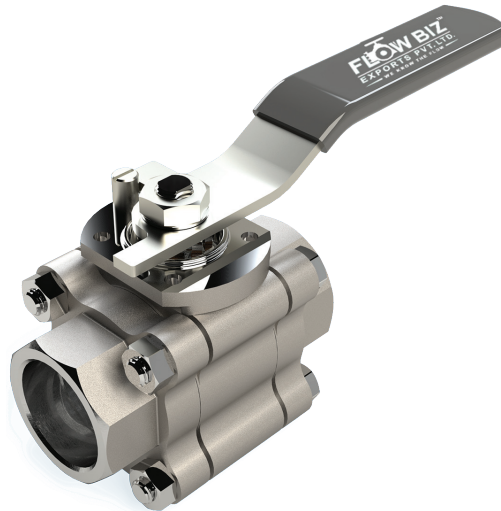
Scope		Standard
Design*		ISO 17292
End-to-End	Socket-weld ends	ASME B16.11
	Screwed-end BSPT	ISO 7-1
	Screwed-end NPT	ASME B1.20.1
	End flange	ASME B16.5 RF/FF/RTJ
Face-to-face (Flanged)		ASME B.16.10
Pressure testing		ISO 5208/ API 598
Fire Test		ISO 10497/ API 607

Test Pressure (bar)

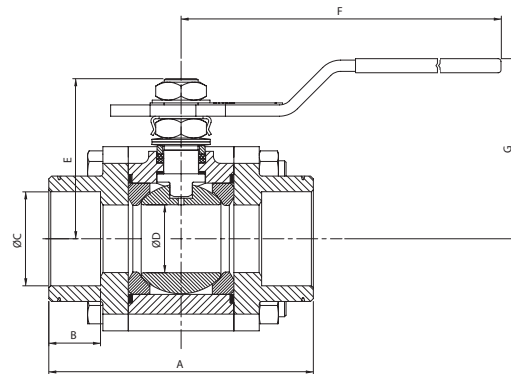
	Class 150	Class 300	Class 600*
Shell - Hydrostatic	30	77	155
Seat - Hydrostatic	22	56	113
Seat - Pneumatic	5.5	5.5	5.5

*With RPTFE/ Special Filled PTFE

SCREWED / SOCKET-WELD END (FULL BORE)



Screwed



Socket-weld end

Dimensions

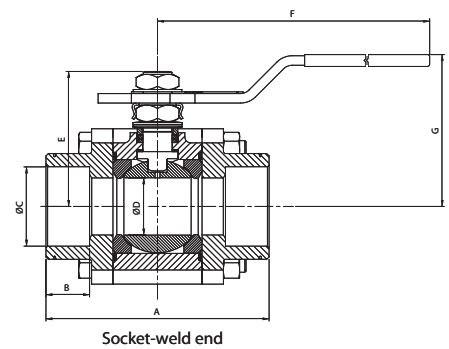
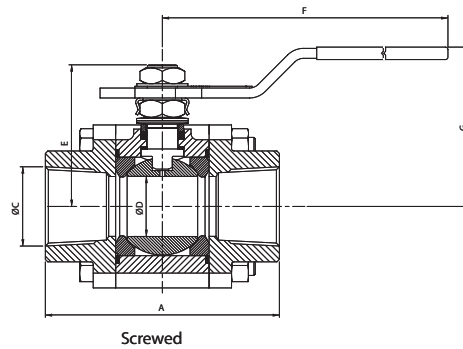
Screwed / Socket-Weld End

Size		C					D	E	F	G	Wt in Kgs
DN	NPS	A	B	SW	BSPT	NPT					
8	1/4	62	9.5	14.6 - 14.2	1/4" - 19	1/4" - 18	11	38	132	50	1
10	3/8	62	9.5	18.0 - 17.6	3/8" - 19	3/8" - 18	11	38	132	50	1
15	1/2	66	10	22.2 - 21.8	1/2" - 14	1/2" - 14	11	38	132	50	1
20	3/4	75	13	27.6 - 27.2	3/4" - 14	3/4" - 14	17	46	132	58	1
25	2	92	13	34.3 - 33.9	1" - 11	1" - 11 1/2	24	54	162	65	2
32	2 1/2	114	13	43.1 - 42.7	1 1/4" - 11	1 1/4" - 11 1/2	37	75	192	83	4
40	3	114	13	49.2 - 48.8	1 1/2" - 11	1 1/2" - 11 1/2	37	75	192	83	4
50	4	132	16	61.7 - 61.2	2" - 11	2" - 11 1/2	49	87	202	94	6
65	6	185	16	74.4 - 73.9	2 1/2" - 11	2 1/2" - 8	62	200	390	200	15.5
80	3	208	16	90.3 - 89.8	3" - 11	3" - 8	74	225	390	225	25
100	4	240	19	115.7 - 115.2	4" - 11	4" - 8	98	250	600	250	39

All dimensions in mm and weight in kg
Screwed/ socket-weld valves in sizes DN 8 to DN 50
have a body rating of Class 800.
In larger sizes, the body is rated to Class 300.

Cold Working Pressure (CWP)
69 bar, with PTFE seat
103 bar, with RPTFE and special filled PTFE
400 bar, with Devlon
425 bar, with PEEK

SCREWED / SOCKET-WELD END (REGULAR BORE)



Cold Working Pressure (CWP)
69 bar, with PTFE seat
103 bar, with RPTFE and special filled PTFE
400 bar, with Devlon
425 bar, with PEEK

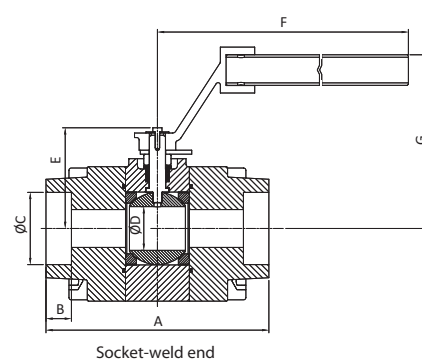
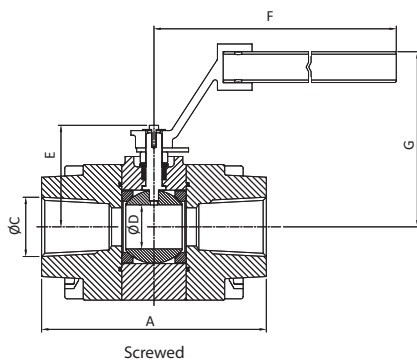
Dimensions

Screwed / Socket-Weld End

Size				C			D	E	F	G	Wt
DN	NPS	A	B	SW	BSPT	NPT					
8	¼"	62	9.5	14.6 - 14.2	¼" - 19	¼" - 18	11	38	132	50	1
10	3/8"	62	9.5	18.0 - 17.6	3/8" - 19	3/8" - 18	11	38	132	50	1
15	½"	66	10	22.2 - 21.8	½" - 14	½" - 14	11	38	132	50	1
20	¾"	69	13	27.6 - 27.2	¾" - 14	¾" - 14	11	38	132	50	1
25	1"	90	13	34.3 - 33.9	1" - 11	1" - 11½	17	46	132	58	1
32	1½"	97	13	43.1 - 42.7	1½" - 11	1½" - 11½	24	54	162	65	2
40	1½"	103	13	49.2 - 48.8	1½" - 11	1½" - 11½	27	56	162	66	2.5
50	2"	122	16	61.7 - 61.2	2" - 11	2" - 11½	37	75	192	83	4.5
80	3"	185	16	90.3 - 89.8	3" - 11	3" - 8	62	200	390	200	17
100	4"	212	19	115.7 - 115.2	4" - 11	4" - 8	74	225	600	225	27

All dimensions in mm and weights in kg

Valves in sizes DN 8 to DN 15 are offered in full bore construction



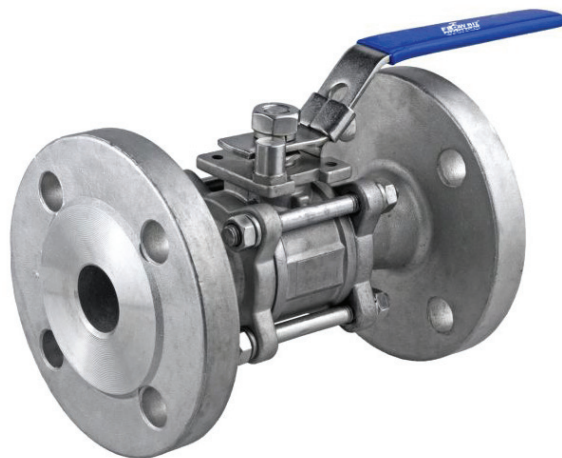
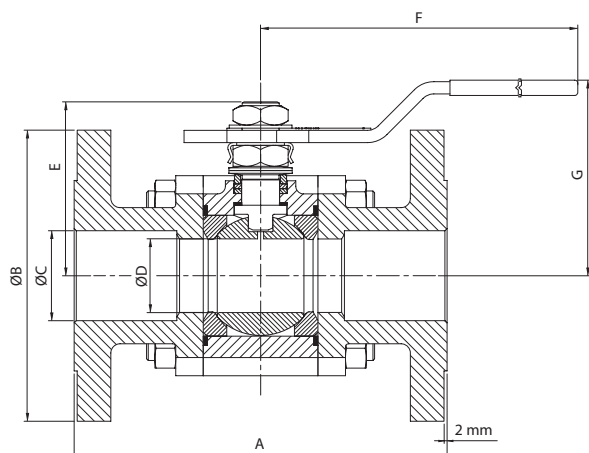
Screwed / Socket-Weld End - Class 1500

Size		A	B	C			D	E	F	G	Wt Kgs.
DN	NPS			SW	BSPT	NPT					
15	½"	85	10.5 - 10.0	22.2 - 21.8	½" - 14	½" - 14	14.3	41	120	52	3
20	¾"	85	13.5 - 13.0	27.6 - 27.2	¾" - 14	¾" - 14	14.3	41	120	52	3.5
25	1"	108	13.5 - 13.0	34.3 - 33.9	1" - 11	1" - 11	20.6	54	130	90	4
40	1½"	125	13.5 - 13.0	49.2 - 48.8	1½" - 11	1½" - 11	25.4	54	130	90	5
50	2"	142	16.5 - 16.0	61.7 - 61.2	2" - 11	2" - 11	38.5	88	210	155	6

All dimensions in mm and weights in kg



FLANGED END (FULL BORE)- CLASS 150, 300, 600 & 2500

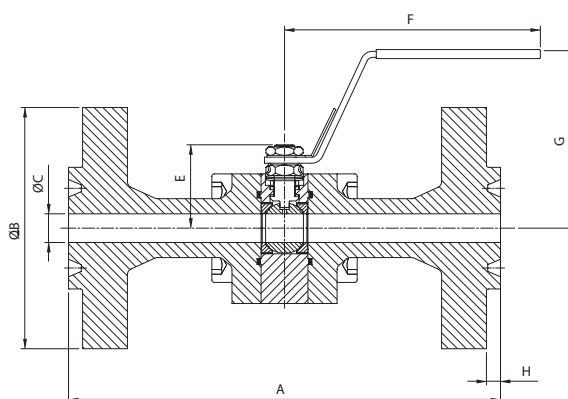


Dimensions

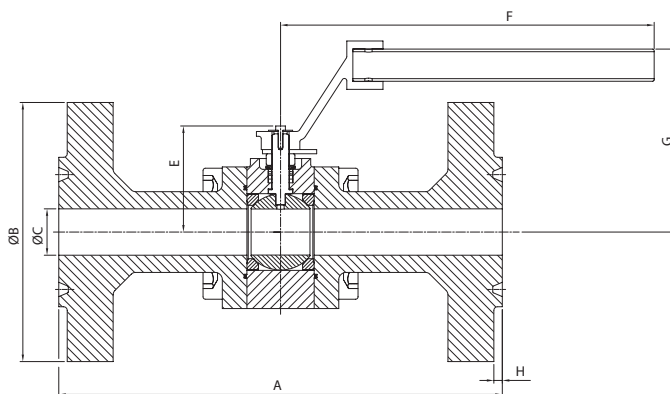
Flanged end - Class 150, 300 & 600

Size		A			B			C	D	E	F	G	Wt.		
DN	NPS	CI 150	CI 300	CI 600	CI 150	CI 300	CI 600						CI 150	CI 300	CI 600
15	½	108	140	165	90	95	95	13	11	38	112	92	2	2	2.5
20	¾	117	152	190	100	115	115	19	17	46	142	98	2	3	3.5
25	1	127	165	216	110	125	125	25	24	54	152	98	3	5	6.5
40	1½	165	190	241	125	155	155	38	37	75	212	125	8	11	12
50	2	178	216	292	150	165	165	51	49	87	212	125	13	15.5	12.5

All dimensions in mm and weights in kg



Lever operated
(DN 15 - DN 25)



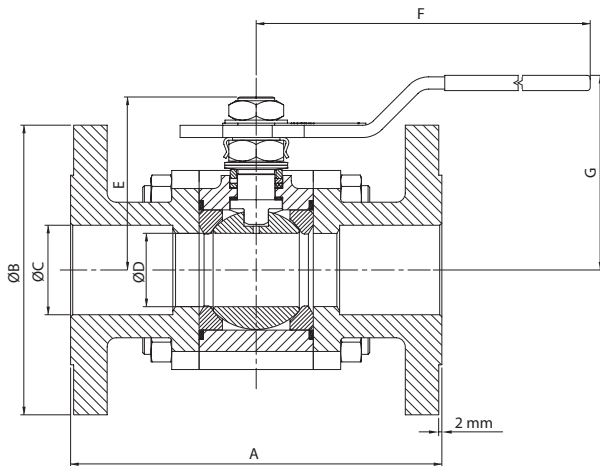
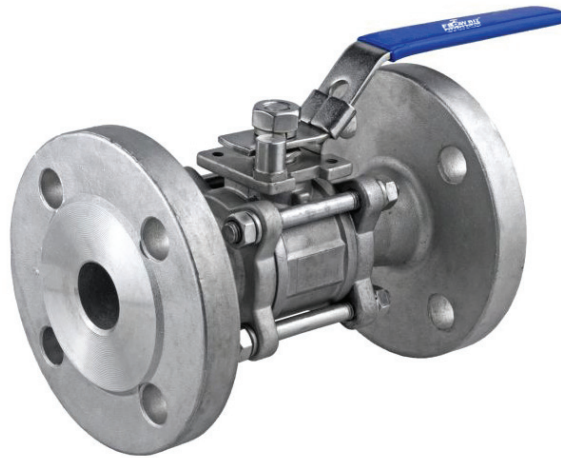
Wrench operated
(DN 40)

Flanged end - Class 2500

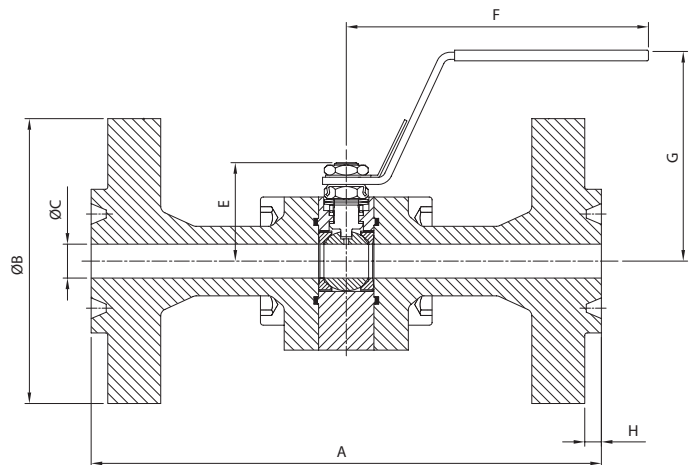
Size		A	B	C	E	F	G	H	Wt Kgs.
DN	NPS								
15	½	264	135	14.3	50	195	103	6.35	10
20	¾	273	140	20.6	66	250	125	6.35	14
25	1	308	160	25.3	92	360	153	6.35	25
40	1½	386	205	38.5	100	315	162	7.92	40

All dimensions in mm and weights in kg

FLANGED END (REGULAR BORE)- CLASS 150, 300, 600 & 1500



Class 150, 300 & 600



Class 1500

Dimensions

Flanged end - Class 150, 300 & 600

Size		A			B			C	D	E	F	G	Approx Weight in Kgs.		
DN	NPS	CI 150	CI 300	CI 600	CI150	CI 300	CI 600						CI 150	CI 300	CI 600
20	¾	117	152	190	100	115	115	19	11	38	122	92	1.8	3.0	4
25	1	127	165	216	110	125	125	25	17	46	142	98	2.5	4.2	5.5
40	1½	165	190	241	125	155	155	38	27	56	180	117	4.7	8.0	9.5
50	2	178	216	292	150	165	165	51	37	75	212	125	7.7	12.1	10.5

All dimensions in mm and weights in kg

Flanged end - Class 1500

Size		A	B	C	E	F	G	H	Wt Kgs.
DN	NPS								
15	½	216	120	14.3	41	120	88	6.35	7
20	¾	229	130	14.3	41	120	88	6.35	8
25	1	254	150	20.6	54	235	120	6.35	10
40	1½	305	180	25.4	54	235	127	6.35	18
50	2	368	215	38.5	93	240	157	7.92	27

All dimensions in mm and weights in kg