

Style BVF1

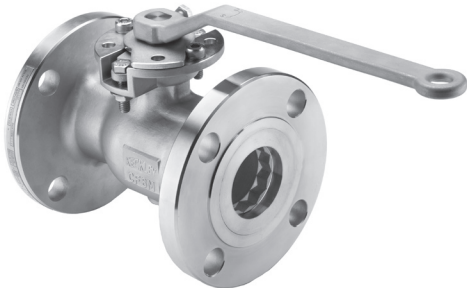
Ball Valve

Carbon Steel (ASTM A 216, Grade WCB)

150 lb. & 300 lb. Flanged

Stainless Steel (ASTM A 351, Grade CF8M)

150 lb. & 300 lb. Flanged



Unibody Flanged Ball Valve

1-1/2" - 6"

APPLICATIONS

Industrial and Oil/Gas piping applications requiring ASME Class 150 or 300 flanged end ball valves with one-piece body construction.

CONSTRUCTION

The Keckley Style BVF1 Unibody flanged end ball valves are constructed from rugged investment castings that are machined to exacting specifications. Unibody construction provides high structural strength and minimizes external leak paths.

FEATURES

- Unibody Construction
- Fully Compliant to ASME B16.34
- Fully Compliant to API 608
- API 607 6th Edition Fire-Safe
- All Models are NACE MR0175 Compliant
- Submerged Packing System & Direct-Mount Actuation
- Standard ISO Actuator Mounting Pads on All Sizes
- Standard Locking Stainless Steel Handles
- Second Generation PTFE Seats Provide Higher Operating Temperatures
- Standard Electrically Grounded Ball & Stem

ORDERING

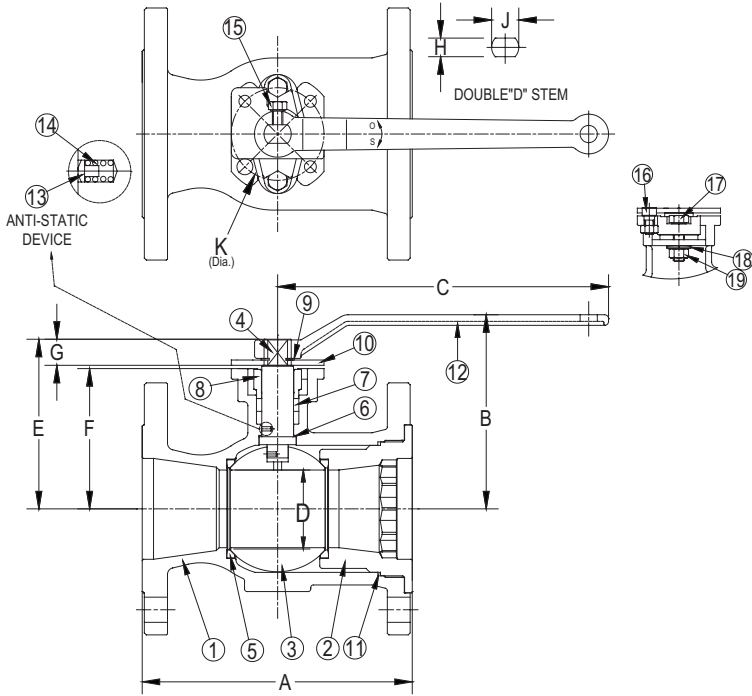
Reference *How to Order BVF1 Ball Valves* for building the Keckley Product Number.

WORKING PRESSURES - NON SHOCK

NOM. RATING	MATERIAL	MEDIA	1-1/2" to 6"	40 mm to 150 mm
ASME CLASS 150	A 216, WCB	W.O.G.	285 PSI @ 100°F	1965 KPa @ 38°C
		Saturated Steam (WSP)	200 PSI @ 388°F	1379 KPa @ 198°C
	MATERIAL	MEDIA	1-1/2" to 6"	40 mm to 150 mm
	A 351,CF8M	W.O.G.	275 PSI @ 100°F	1896 KPa @ 38°C
		Saturated Steam (WSP)	195 PSI @ 386°F	1344 KPa @ 197°C
	MATERIAL	MEDIA	1-1/2" to 6"	40 mm to 150 mm
NOM. RATING	MATERIAL	MEDIA	1-1/2" to 6"	40 mm to 150 mm
ASME CLASS 300	A 216, WCB	W.O.G.	740 PSI @ 100°F	5102 KPa @ 38°C
		Saturated Steam (WSP)	250 PSI @ 406°F	1724 KPa @ 208°C
	MATERIAL	MEDIA	1-1/2" to 6"	40 mm to 150 mm
	A 351, CF8M	W.O.G.	720 PSI @ 100°F	4964 KPa @ 38°C
		Saturated Steam (WSP)	250 PSI @ 406°F	1724 KPa @ 208°C
	MATERIAL	MEDIA	1-1/2" to 6"	40 mm to 150 mm

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PARTS LIST

ITEM	DESCRIPTION	MATERIAL	
1	Body	A 216, WCB	A 351, CF8M
2	Tailpiece	A 216, WCB	A 351, CF8M
3	Ball	A 351, CF8M or 316SS	A 351, CF8M or 316SS
4	Stem	A 276, 316	A 276, 316
5	Seat (2)	R-PTFE	R-PTFE
6	Thrust Washer	PTFE	PTFE
7	Stem Packing	Graphite	Graphite
8	Packing Gland	A 351, CF8M	A 351, CF8M
9	Retaining Ring	300 Series SS	300 Series SS
10	Lock Plate	304SS	304SS
11	Body Gasket	Graphite	Graphite
12	Handle Assembly	300 Series SS	300 Series SS
13	Grounding Ball (2)	304SS	304SS
14	Grounding Spring (2)	304SS	304SS
15	Handle Bolt	304SS	304SS
16	Stop Bolt	304SS	304SS
17	Packing Bolt (2)	A 193, B8	A 193, B8
18	Belleville Washers	300 Series SS	300 Series SS
19	Packing Nut (2)	A 194, Grade 8	A 194, Grade 8

SIZE		DIMENSIONS															
		A				B				C		D		E			
		150 lb.		300 lb.		150 lb.		300 lb.		150 lb. & 300 lb.		150 lb. & 300 lb.		150 lb.		300 lb.	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
1-1/2	40	6.5	165.1	7.50	190.5	4.07	103.38	4.07	103.38	10.02	254.51	1.19	30.23	3.33	84.58	3.33	84.58
2	50	7.0	177.8	8.50	215.9	4.61	117.09	4.83	122.68	10.02	254.51	1.50	38.10	3.87	98.30	4.08	103.63
*2-1/2	65	7.5	190.5	N/A		5.35	135.89	N/A		10.02	254.51	2.00	50.80	4.61	117.09	N/A	
3	80	8.0	203.2	11.12	284.5	5.73	145.54	5.73	145.54	10.02	254.51	2.31	58.67	4.99	126.75	4.99	126.75
4	100	9.0	228.6	12.00	304.8	6.71	170.43	6.99	177.55	18.11	459.99	2.99	75.95	6.14	155.96	6.42	163.07
6	150	10.5	266.7	15.88	403.4	8.43	214.12	8.43	214.12	18.11	459.99	4.49	114.05	7.85	199.39	7.85	199.69

SIZE		DIMENSIONS														ISO PATTERN
		F				G		H		J		K				
		150 lb.		300 lb.		150 lb. & 300 lb.		150 lb. & 300 lb.		150 lb. & 300 lb.		150 lb. & 300 lb.				
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
1-1/2	40	2.51	63.75	2.55	64.77	0.76	19.30	0.55	13.97	0.71	18.03	2.76	70.0	F07		
2	50	3.07	77.98	3.29	83.57	0.76	19.30	0.55	13.97	0.71	18.03	2.76	70.0	F07		
*2-1/2	65	3.80	96.52	N/A		0.76	19.30	0.55	13.97	0.71	18.03	2.76	70.0	F07		
3	80	4.17	105.92	4.17	105.92	0.76	19.30	0.55	13.97	0.71	18.03	2.76	70.0	F07		
4	100	4.84	122.94	5.12	130.05	1.26	32.00	0.67	17.02	1.03	26.16	4.02	102.0	F10		
6	150	6.50	165.10	6.50	165.10	1.26	32.00	0.67	17.02	1.03	26.16	4.02 & 4.92	102.0 & 125.0	F10 & F12		

*2-1/2" only offered in 150lb Class.

Certified dimensional drawings are available upon request.

†This table reflects only the nearest metric equivalents.

WEIGHTS

Size		1-1/2"	2"	2-1/2"	3"	4"	6"
150	lbs	12.5	18.5	27.0	33.0	61.0	99.0
	kgs	5.7	8.4	12.2	15.0	27.7	44.9
300	lbs	20.0	24.0	N/A	49.0	83.0	157.0
	kgs	9.1	10.9	N/A	22.2	37.6	71.2

FLOW COEFFICIENTS

Size	C _v	Size	C _v	Size	C _v
1-1/2"	100	2-1/2"	285	4"	610
2"	145	3"	425	6"	920

MAX TORQUE

Size	in/lb	Size	in/lb	Size	in/lb
1-1/2"	250	2-1/2"	475	4"	1000
2"	400	3"	550	6"	1700

PRESSURE vs. TEMPERATURE CHART
