

Style BVS2

Ball Valve

Carbon Steel (ASTM A 216, Grade WCB)

Stainless Steel (ASTM A 351, Grade CF8M)

MNPT x FNPT Ends

Seal Welded High Pressure Ball Valve

APPLICATIONS

Industrial and Oil/Gas piping applications where the safety of seal welded construction is desired, the high flow capacity of full bore design is required, and operating pressures are 2160 PSIG or lower.

CONSTRUCTION

Keckley Style BVS2 seal welded high pressure ball valves are constructed from investment cast ASTM grade materials that are NACE MR0175 compliant. They are machined to exacting specifications. Full seal welding of body to tailpiece eliminates the possibility of the tailpiece unthreading, leaking or “blowing out” in service. All valves are shell and seat tested in accordance with API 598.

FEATURES

- Seal Welded Construction
- API 607 6th Edition Fire-Safe
- Full Port - All Sizes
- All Models are NACE MR0175 Compliant
- Elongated Packing Gland for Ease of Access When Automated
- Standard ISO Actuator Mounting Pads on All Sizes
- Standard Locking Stainless Steel Handles
- Electrically Grounded Ball and Stem
- Optional PEEK Seats for High Temp Services
- Optional Oval Handles

ORDERING

Reference *How to Order BVS2 Ball Valves* for building the Keckley Product Number.

WORKING PRESSURES - NON SHOCK

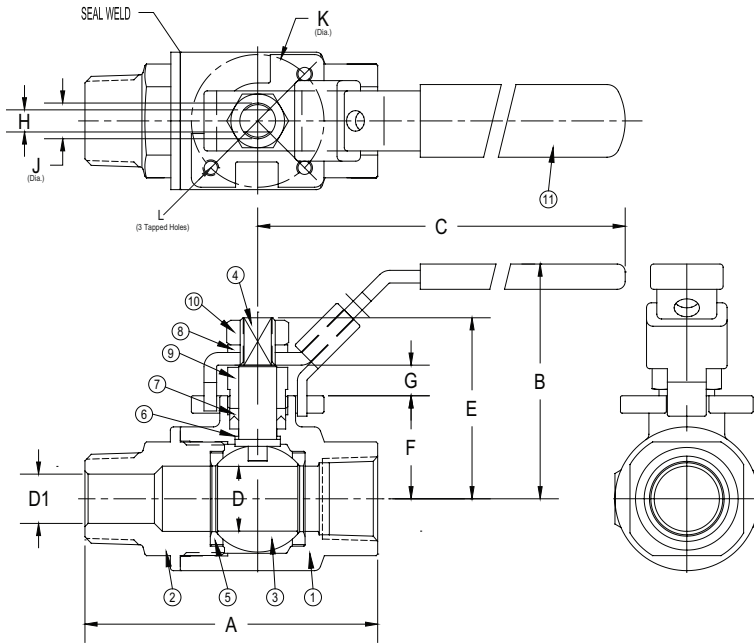
MATERIAL	MEDIA	¼" to 1"	8 mm to 25 mm
ASTM A 216, Grade WCB	W.O.G.	2220 PSI @ 100°F	15306 KPa @ 38°C
MATERIAL	MEDIA	¼" to 1"	8 mm to 25 mm
ASTM A 351, Grade CF8M	W.O.G.	2160 PSI @ 100°F	14893 KPa @ 38°C

Note: Optional PEEK Seats WSP is 250 PSIG @ 406°F (1724 KPa @ 208°C)

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PARTS LIST

ITEM	DESCRIPTION	MATERIAL	
1	Body	A 216 Gr. WCB	A 351 Gr. CF8M
2	Tailpiece	A 216 Gr. WCB	A 351 Gr. CF8M
3	Ball	A 276 Gr. 316	A 276 Gr. 316
4	Stem	A 276 Gr. 316	A 276 Gr. 316
5	Seat (2)*	R-PTFE	R-PTFE
6	Thrust Washer	R-PTFE	R-PTFE
7	Stem Packing	Graphite	Graphite
8	Spring Washer	304SS	304SS
9	Packing Gland	A 276 Gr. 316	A 276 Gr. 316
10	Lock Nut	304SS	304SS
11	Handle	300 Series SS	300 Series SS

*Optional PEEK Seats for High Temp Service are available.

SIZE		DIMENSIONS															
		A		B		C		D		D1		E		F		G	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
1/4	8	3.06	77.8	2.22	56.3	5.04	128.0	0.43	11.0	0.25	6.4	1.53	38.86	0.78	19.90	0.35	8.90
3/8	10	3.06	77.8	2.22	56.3	5.04	128.0	0.43	11.0	0.37	9.4	1.53	38.86	0.78	19.90	0.35	8.90
1/2	15	3.20	81.4	2.22	56.3	5.04	128.0	0.50	12.7	0.45	11.4	1.53	38.86	0.78	19.90	0.35	8.90
3/4	20	3.69	93.6	2.93	74.3	5.61	142.5	0.81	20.5	0.65	16.5	2.26	57.40	1.30	33.02	0.37	9.40
1	25	4.23	107.5	3.15	79.9	5.61	142.5	1.00	25.4	0.85	21.6	2.49	63.25	1.47	37.34	0.41	10.41

SIZE		DIMENSIONS								WEIGHTS	
		H		J		K		L	ISO		
in	mm	in	mm	in	mm	in	mm	in	PATTERN	lbs	kgs
1/4	8	0.20	5.08	0.31	7.87	1.42	36.0	1/4"-20 UNC	F03	1.0	0.5
3/8	10	0.20	5.08	0.31	7.87	1.42	36.0	1/4"-20 UNC	F03	1.0	0.5
1/2	15	0.20	5.08	0.31	7.87	1.42	36.0	1/4"-20 UNC	F03	1.0	0.5
3/4	20	0.28	7.11	0.44	11.18	1.65	42.0	1/4"-20 UNC	F04	1.7	0.8
1	25	0.28	7.11	0.44	11.18	1.65	42.0	1/4"-20 UNC	F04	2.7	1.2

Certified dimensional drawings are available upon request.

*This table reflects only the nearest metric equivalents.

FLOW COEFFICIENTS

Size	C _v	Size	C _v	Size	C _v
1/4"	10	1/2"	18	1"	62
3/8"	10	3/4"	32		

MAX TORQUE R-PTFE SEATS

Size	in/lb	Size	in/lb	Size	in/lb
1/4"	50	1/2"	75	1"	180
3/8"	50	3/4"	120		

PRESSURE vs. TEMPERATURE CHART
