

Style BVS3

Ball Valve

Carbon Steel (ASTM A 216, Grade WCB)

Stainless Steel (ASTM A 351, Grade CF8M)

NPT or Socket Weld Ends



Seal Welded High Pressure Ball Valve

APPLICATIONS

Industrial and Oil/Gas piping applications where the safety of seal welded construction is desired, any application that requires ASME B16.34 Class 1500 compliance and/or compliance with API 608, and operating pressures are 3600 PSIG or lower.

CONSTRUCTION

Keckley Style BVS3 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. ASME B16.34 Class 1500 compliance provides full conformance to ASME B31 Piping Codes.

FEATURES

- Seal Welded Construction
- Fully Compliant to ASME B16.34 Class 1500
- Fully Compliant to API 608
- API 607 6th Edition Fire-Safe
- Full and Reduced Port Sizes are available
- 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 Stem
- Optional PEEK Seats for High Temp Services

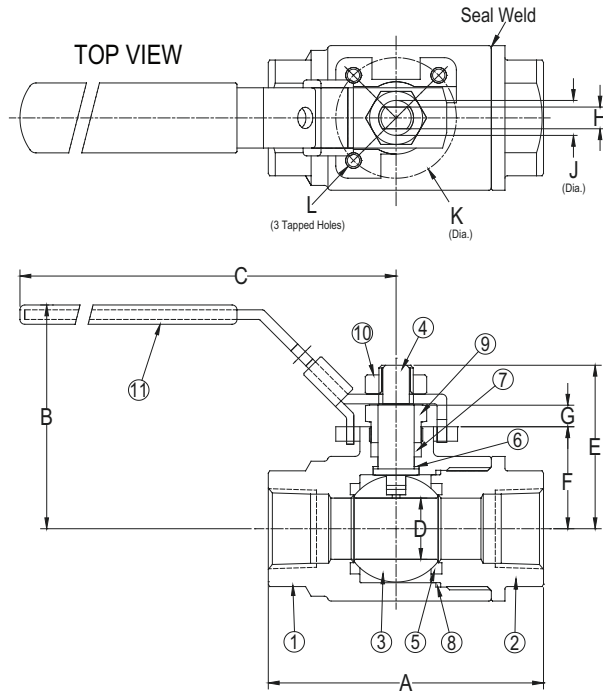
ORDERING

Reference *How to Order BVS3 Ball Valves* for building the Keckley Product Number.

WORKING PRESSURES - NON SHOCK

MATERIAL	MEDIA	1/4" to 2"	8 mm to 50 mm
ASTM A 216, Grade WCB	W.O.G.	3705 PSI @ 100°F	15306 KPa @ 38°C
	Saturated Steam (WSP)	Delrin AF Seats No Steam Rating	Delrin AF Seats No Steam Rating
		Optional PEEK Seats 250 PSI @ 406°F	Optional PEEK Seats 1724 KPa @ 208°C
MATERIAL	MEDIA	1/4" to 2"	8 mm to 50 mm
ASTM A 351, Grade CF8M	W.O.G.	3600 PSI @ 100°F	24821 KPa @ 38°C
	Saturated Steam (WSP)	Delrin AF Seats No Steam Rating	Delrin AF Seats No Steam Rating
		Optional PEEK Seats 250 PSI @ 406°F	Optional PEEK Seats 1724 KPa @ 208°C

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



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Seal Welded High Pressure Ball Valve
 NPT or Socket Weld Ends*

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)*	Delrin AF	Delrin AF
6	Thrust Washer	Delrin AF	Delrin AF
7	Stem Packing	Graphite	Graphite
8	Body Seal	Graphite	Graphite
9	Packing Gland	A 276 Gr. 316	A 276 Gr. 316
10	Lock Nut	304SS	304SS
11	Handle	300 Series SS	300 Series SS

*Note: Socket Weld Ends require PEEK seats.

*Size 1-1/2" & 2" S17400 SS.

*Optional PEEK Seats for High Temp Service are available.

SIZE		DIMENSIONS														WEIGHTS	
		A		B		C		D		E		F		G			
in (Port)	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kgs
1/4 (FP)	8	3.0	76.2	2.4	61.0	5.1	129.6	0.25	6.4	1.63	41.41	0.89	22.61	0.42	10.67	1.6	0.7
3/8 (RP)	10	3.0	76.2	2.4	61.0	5.1	129.6	0.25	6.4	1.63	41.41	0.89	22.61	0.42	10.67	1.6	0.7
1/2 (FP)	15	4.0	101.6	2.4	61.0	5.1	129.6	0.50	12.7	1.63	41.41	0.89	22.61	0.42	10.67	1.8	0.8
3/4 (FP)	20	4.3	109.3	3.0	76.2	5.6	142.3	0.75	19.1	2.22	56.39	1.29	32.77	0.42	10.67	3.1	1.4
1 (RP)	25	4.3	109.3	3.0	76.2	5.6	142.3	0.75	19.1	2.22	56.39	1.29	32.77	0.42	10.67	2.9	1.3
1 (FP)	32	4.5	114.3	3.5	88.9	7.4	188.0	1.00	25.4	2.80	71.12	1.65	41.91	0.43	10.93	4.4	2.0
1-1/2 (FP)	40	5.3	134.7	4.6	116.9	14.0	355.6	1.50	38.1	3.87	98.30	2.49	63.25	0.52	13.21	10.9	4.9
2 (RP)	50	6.3	160.1	4.6	116.9	14.0	355.6	1.50	38.1	3.87	98.30	2.49	63.25	0.52	13.21	12.3	5.6

Certified dimensional drawings are available upon request.

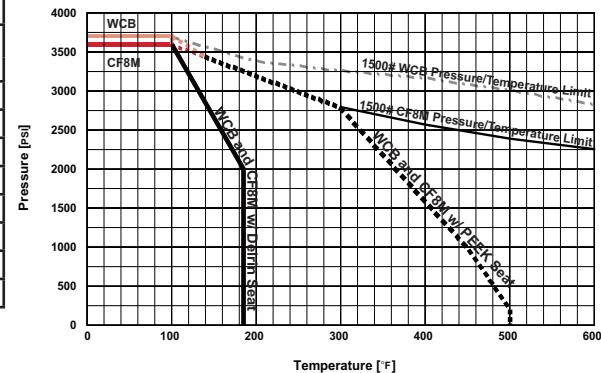
*This table reflects only the nearest metric equivalents.

SIZE		DIMENSIONS							
		H		J		K		L	ISO PATTERN
in (Port)	mm	in	mm	in	mm	in	mm	in	
1/4 (FP)	8	0.20	5.08	0.31	7.88	1.42	36.0	1/4"-20 UNC	F03
3/8 (RP)	10	0.20	5.08	0.31	7.88	1.42	36.0	1/4"-20 UNC	F03
1/2 (FP)	15	0.20	5.08	0.31	7.88	1.42	36.0	1/4"-20 UNC	F03
3/4 (FP)	20	0.28	7.12	0.44	11.18	1.65	42.0	1/4"-20 UNC	F04
1 (RP)	25	0.28	7.12	0.44	11.18	1.65	42.0	1/4"-20 UNC	F04
1 (FP)	32	0.35	8.89	0.56	14.23	1.97	50.0	1/4"-20 UNC	F05
1-1/2 (FP)	40	0.39	9.91	0.62	15.75	2.76	70.0	5/16"-18 UNC	F07
2 (RP)	50	0.39	9.91	0.62	15.75	2.76	70.0	5/16"-18 UNC	F07

Certified dimensional drawings are available upon request.

*This table reflects only the nearest metric equivalents.

PRESSURE vs. TEMPERATURE CHART



FLOW COEFFICIENTS

Size (Port)	C _v	Size (Port)	C _v	Size (Port)	C _v
1/4" (FP)	10	3/4" (FP)	32	1-1/2" (FP)	140
3/8" (RP)	10	1" (RP)	45	2" (RP)	125
1/2" (FP)	16	1" (FP)	65		

MAX TORQUE

Size (Port)	in/lb (Delrin AF)	in/lb (PEEK)	Size (Port)	in/lb (Delrin AF)	in/lb (PEEK)	Size (Port)	in/lb (Delrin AF)	in/lb (PEEK)
1/4" (FP)	75	100	3/4" (FP)	120	270	1-1/2" (FP)	750	1200
3/8" (RP)	75	100	1" (RP)	200	270	2" (RP)	750	1200
1/2" (FP)	75	100	1" (FP)	400	700			