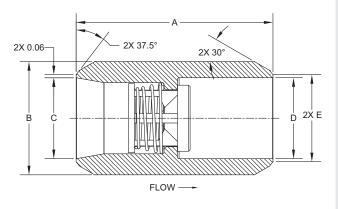


The **Butt Weld (B4, B8)** check valve is a one piece body machined from bar stock, eliminating porosity concerns and providing uniform density for more consistent welds. Made to ASME/ANSI B16.25 for schedule 40 pipe (B4), or schedule 80 pipe (B8) it carries rugged, dependable Check-All[®] trim with a wide variety of seat materials and cracking pressures to choose from. The Butt Weld valve can also be used as a low pressure relief valve or vacuum breaker by using the desired spring settings.

CAUTION: Please take sufficient measures when welding to prevent heat build-up and possible damage to the valve seat. See page 51 for additional installation information.

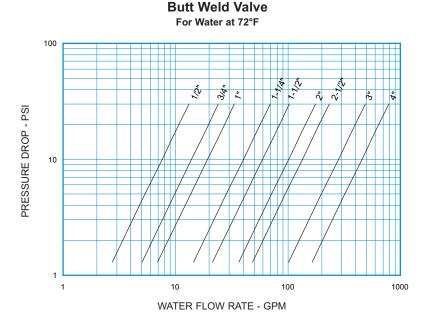


NOTE: Many valves in this series can be supplied with B16.34 certification. Consult the factory for more information.

Nom. Pipe Size	Size Code	A	B 🛈	B4 Valve C & D	B8 Valve C & D	E	Orifice Diameter
1/2	D	2.16	15/16	0.622	0.546	0.84	0.348
3/4	F	2.71	1-3/16	0.824	0.742	1.05	0.464
1	Н	2.95	1-1/2	1.049	0.957	1.32	0.593
1-1/4	I	3.64	1-7/8	1.380	1.278	1.66	0.890
1-1/2	J	3.91	2-1/4	1.610	1.500	1.90	1.135
2	K	4.36	2-3/4	2.067	1.939	2.38	1.385
2-1/2	L	5.00	3-1/4	2.469	2.323	2.88	1.555
3	М	5.44	3-3/4	3.068	2.900	3.50	2.025
4	N	6.80	4-3/4	4.026	3.826	4.50	2.560
May be larger.							

Body Material 🛛	Availability	Non-Shock Pressure-Temperature Rating					
316/316L Stainless Steel (SS)	Standard						
Carbon Steel (CS)	Stanuaru						
Alloy 20 (A2)		1/2" - 1"	1-1/4" - 2-1/2"	3"	4"		
Alloy C-276 (HC)	Semi-standard		4000 PSIG @ 100°F (1500 PSIG for o-ring seats)		1500 PSIG @ 100°F		
Alloy 400 or Monel ® (MO)		5000 PSIG @ 100°F					
Alloy B (HB)	Contact the factory for these or other materials	(1500 PSIG for o-ring seats)		(1500 PSIG for o-ring seats)			

2 See page 53 for material grade information.

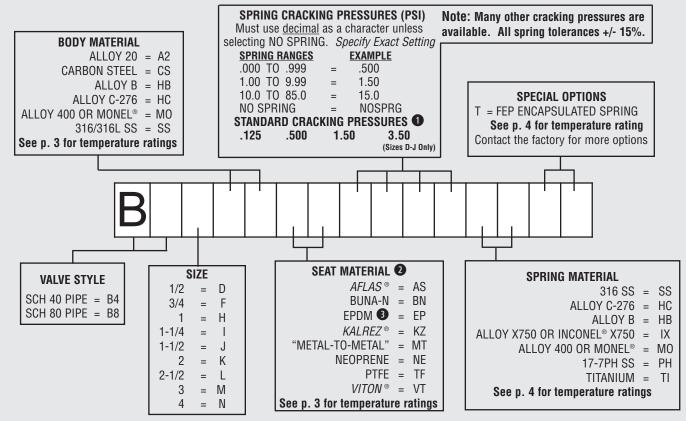


Note: All flow curves and Cv values presume the valves are fully open with 1/2 PSI cracking pressure springs. Consult the factory for more information.

STYLE B4 C _V VALUES & VALVE WEIGHTS					
Cv	SIZE	SS & CS Alloys			
2.4	1/2	4.6 oz.			
4.4	3/4	9.1 oz.			
6.1	1	15.0 oz. 1.7 lb. 2.6 lb.			
12.7	1-1/4				
18.8	1-1/2				
32.0	2	4.1 lb.			
42.5	2-1/2	6.3 lb.			
89.0	3	8.4 lb.			
144	4	15.2 lb.			
See name 49 for Flow Formulae					

See page 49 for Flow Formulae. Valve weights are approximate.

HOW TO ORDER CHECK-ALL STYLE B4, B8



Listed above are the most common material selections. Please contact the factory for additional options.

1.500 PSI is the only standard cracking pressure for spring materials other than Stainless Steel. .125 PSI springs are not recommended for installations with flow vertical down.

Seat materials other than "metal-to-metal" have a maximum pressure rating of 1500 PSI. "Metal-to-Metal" and PTFE seats are not resilient. See page 50 for allowable leakage rates.

BEP seats not recommended for use with Carbon Steel valves.

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