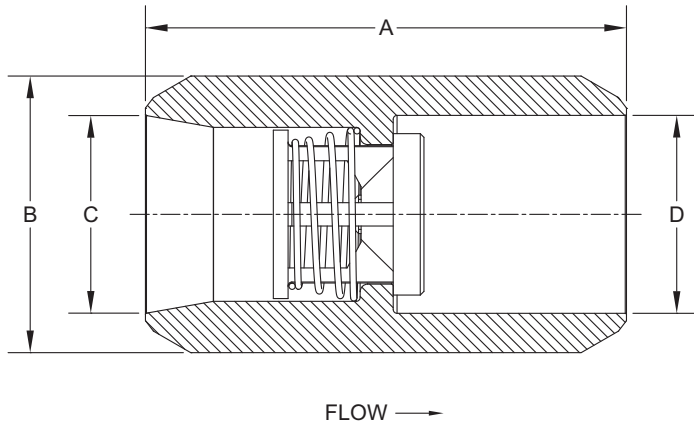


The **Butt Weld (B4)** check valve is a one piece body machined from bar stock, eliminating porosity concerns and providing uniform density for more consistent welds. Made to ASME/ANSI B16.25 for schedule 40 pipe, it carries rugged, dependable Check-All trim with a wide variety of seat materials and cracking pressures to choose from. This makes the **Butt Weld** valve the obvious choice.

NOTE: Please take precautionary measures when welding to prevent heat build-up and possible damage to the valve seat. See page 52 for additional installation information.



| Nom. Pipe Size | Size Code | A | B ^① | C ^② & D ^② | Orifice Diameter |
|----------------|-----------|------|----------------|---------------------------------|------------------|
| 1/2 | D | 2.16 | 15/16 | 0.622 | 0.348 |
| 3/4 | F | 2.71 | 1-3/16 | 0.824 | 0.464 |
| 1 | H | 2.95 | 1-1/2 | 1.049 | 0.593 |
| 1-1/4 | I | 3.64 | 1-7/8 | 1.380 | 0.890 |
| 1-1/2 | J | 3.91 | 2-1/4 | 1.610 | 1.135 |
| 2 | K | 4.36 | 2-3/4 | 2.067 | 1.385 |
| 2-1/2* | L | 5.00 | 3-1/4 | 2.469 | 1.555 |
| 3 | M | 5.44 | 3-3/4 | 3.068 | 2.025 |
| 4 | N | 6.80 | 4-3/4 | 4.026 | 2.560 |

^① May be larger.

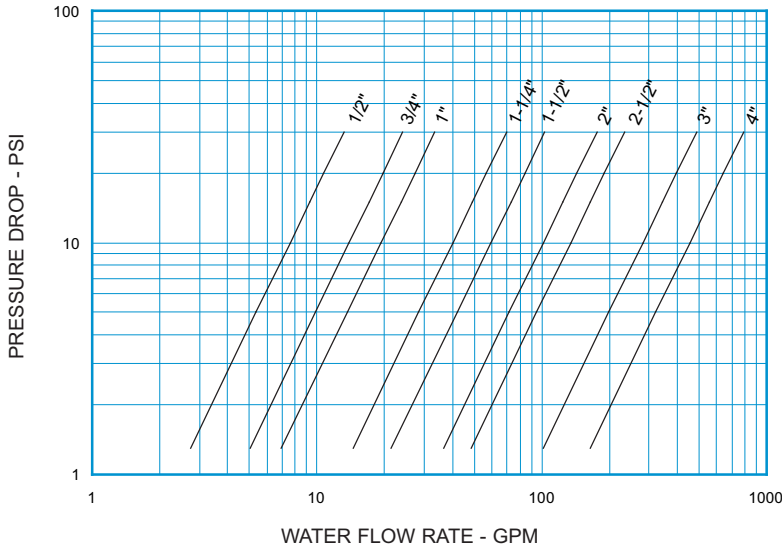
^② Ends per ASME/ANSI B16.25 for schedule 40 pipe.

*Not a stock item. Consult factory for delivery.

| Body Material ^③ | Availability | Non-Shock Pressure-Temperature Rating | | | |
|-------------------------------|--|---|---|---|-------------------|
| 316/316L Stainless Steel (SS) | Standard | 1/2 - 1 | 1-1/4 - 2-1/2 | 3 | 4 |
| Carbon Steel (CS) | | | | | |
| Alloy 20 (A2) | Semi-standard | 5000 PSIG @ 100°F (1500 PSIG for o-ring seats) | 4000 PSIG @ 100°F (1500 PSIG for o-ring seats) | 3000 PSIG @ 100°F (1500 PSIG for o-ring seats) | 1500 PSIG @ 100°F |
| Alloy C-276 (HC) | | | | | |
| Monel [®] (MO) | | | | | |
| Alloy B (HB) | Contact the factory for these or other materials | | | | |

^③ See page 54 for material grade information.

Butt Weld Valve
For Water at 72°F

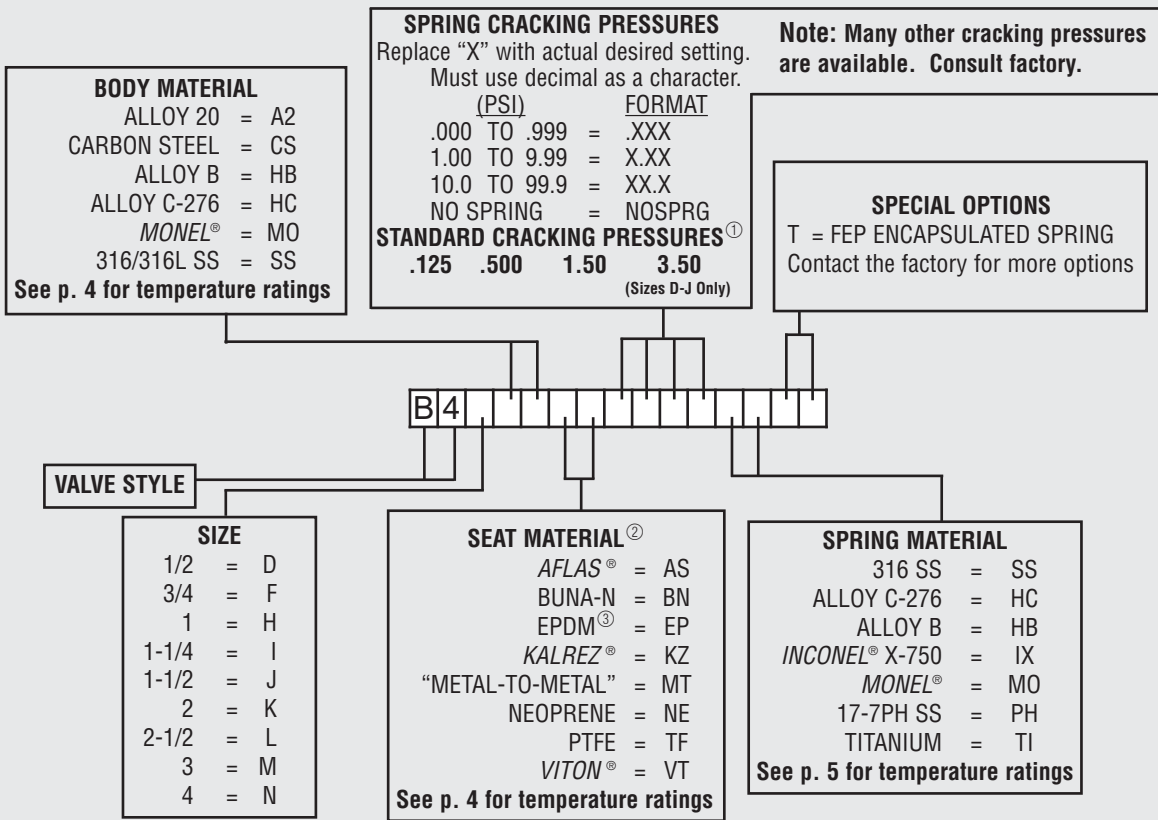


Note: All flow curves and Cv values presume the valves are fully open with 1/2 PSI cracking pressure springs. Consult the factory for more information.

| STYLE B4 C _v VALUES & VALVE WEIGHTS | | |
|---|-------|----------------|
| C _v | SIZE | SS & CS Alloys |
| 2.4 | 1/2 | 4.6 oz. |
| 4.4 | 3/4 | 8.8 oz. |
| 6.1 | 1 | 14.8 oz. |
| 12.7 | 1-1/4 | 1.7 lb. |
| 18.8 | 1-1/2 | 2.6 lb. |
| 32.0 | 2 | 4 lb. |
| 42.5 | 2-1/2 | 6.3 lb. |
| 89.0 | 3 | 8.3 lb. |
| 144 | 4 | 15 lb. |

See page 50 for Flow Formulae.
Valve weights are approximate.

**HOW TO ORDER
CHECK-ALL STYLE B4**



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. Cracking pressure tolerance is +/- 15%. .125 PSI springs are not recommended for installations with flow vertical down.
- ② 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 51 for allowable leakage rates.
- ③ EP seats not recommended for use with Carbon Steel valves.