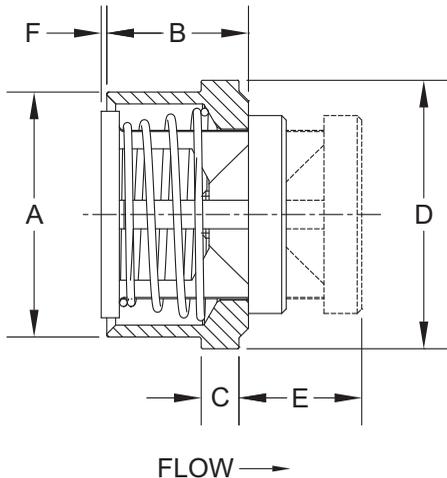


The **Straight Sided Insert (SI)** is a **threadless** check valve designed to be inserted into any cavity where a check valve is needed and threads are not desired. Consult the factory if your application requires tolerancing for a press fit installation.

PED Conformance Statement: Due to the unique design of the **Straight Sided Insert Valve**, this series is not considered a pressure vessel, but must be installed inside of another pressure containing device. As a result, the SI series is available for sale in the European Community and no CE Mark is required.



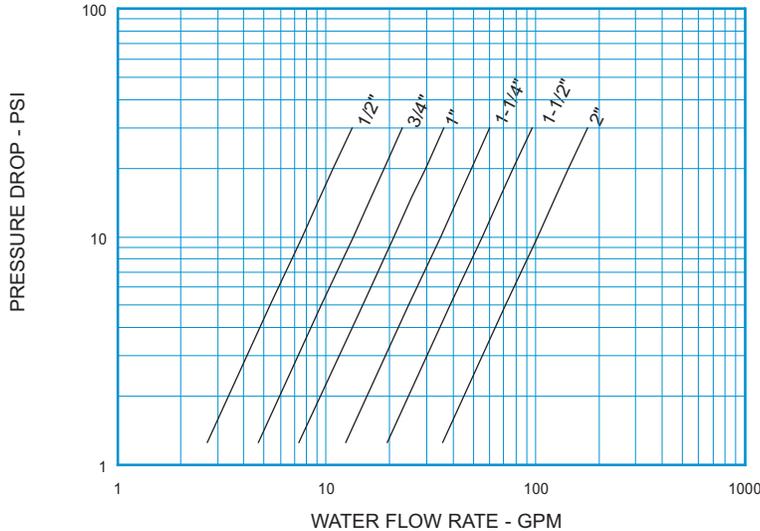
| Nom. Pipe Size | Size Code | A | B | C | D | E ^① | F | G | Orifice Diameter |
|----------------|-----------|-------|------|------|-------|----------------|------|-------|------------------|
| 1/2 | D | 0.656 | 0.56 | 0.16 | 0.718 | 0.53 | 0.01 | 0.031 | 0.348 |
| 3/4 | F | 0.780 | 0.59 | 0.16 | 0.900 | 0.61 | 0.00 | 0.063 | 0.464 |
| 1 | H | 1.000 | 0.69 | 0.19 | 1.125 | 0.78 | 0.11 | 0.063 | 0.593 |
| 1-1/4 | I | 1.312 | 0.81 | 0.19 | 1.500 | 0.85 | 0.09 | 0.063 | 0.890 |
| 1-1/2 | J | 1.625 | 0.88 | 0.25 | 1.781 | 1.01 | 0.15 | 0.063 | 1.135 |
| 2 | K | 1.875 | 0.88 | 0.25 | 2.187 | 1.19 | 0.70 | 0.063 | 1.385 |

^① Maximum nominal dimension for a fully open valve with no spring.

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

^② See page 55 for material grade information.

Straight Sided Insert
For Water at 72°F

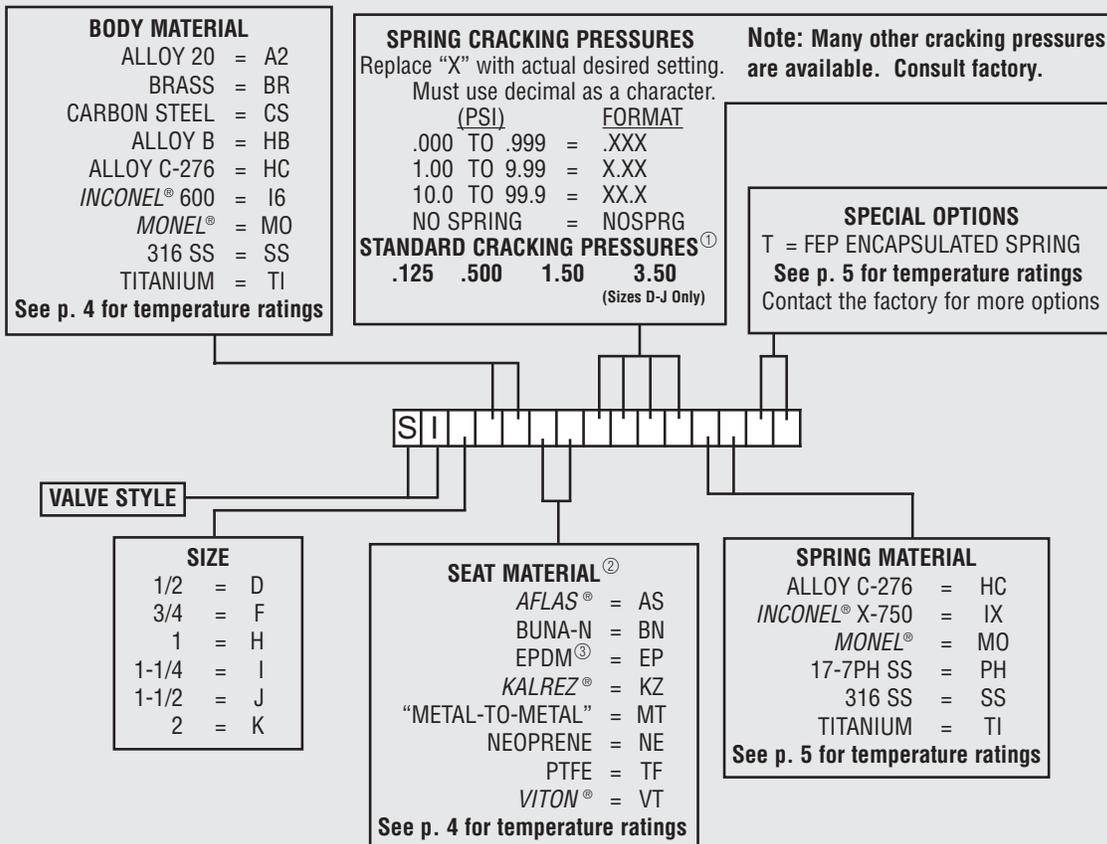


Note: All flow curves and Cv values presume the valves are fully open with 1/2 PSI cracking pressure springs. Consult the factory for more information.

| STYLE SI (SSI) C _v VALUES & VALVE WEIGHTS | | |
|---|-------|---------------|
| C _v | SIZE | ALL MATERIALS |
| 2.4 | 1/2 | 0.6 oz. |
| 4.2 | 3/4 | 1.0 oz. |
| 6.6 | 1 | 1.7 oz. |
| 11.0 | 1-1/4 | 3.3 oz. |
| 17.4 | 1-1/2 | 5.3 oz. |
| 32.0 | 2 | 8.2 oz. |

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

HOW TO ORDER
CHECK-ALL STYLE SI (SSI)



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.