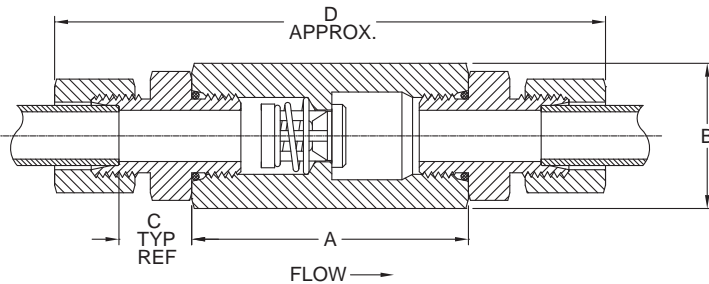


The **Tubing Check (TV)** valve is constructed with compression tube fittings (flareless) and is designed for a minimum pressure drop. The valves are furnished complete with ferrules and nuts. The TV valve can also be used as a low pressure relief valve or vacuum breaker by using the desired spring settings.

NOTE: Consult the factory for instrumentation applications or for more information.



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

Tubing O.D. Size	Size Code	A	Hex ^① Size B	C	D	Orifice Diameter
1/8	A	2.16	7/8	0.42	3.99	0.348
1/4	B	2.16	7/8	0.57	4.58	0.348
3/8	C	2.16	7/8	0.57	4.80	0.348
1/2	D	2.48	1-1/8	0.63	5.44	0.464
5/8	E	2.63	1-1/4	0.72	5.89	0.464
3/4	F	2.93	1-1/2	0.85	6.47	0.593
7/8	G	3.34	1-7/8	0.85	6.98	0.890
1	H	3.34	1-7/8	0.81	7.18	0.890
1-1/4	I	3.48	2-1/4	0.89	7.56	1.135
1-1/2	J	3.81	2-1/2	0.89	7.99	1.385
2	K	5.09	3-1/2	1.05	9.66	2.025

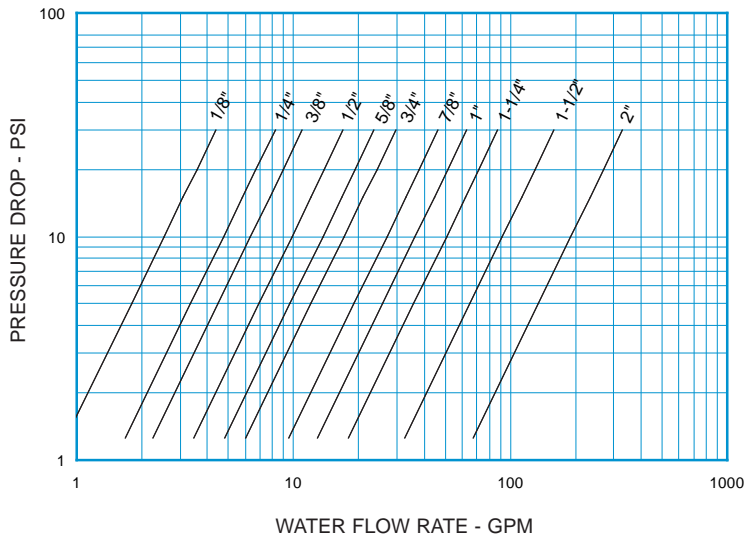
^①May be larger and/or round.

Line Size	Non-Shock Pressure-Temperature Rating ^②	
	Stainless Steel (SS) and Carbon Steel ^③	Brass (BR) ^③
1/8" - 3/8"	8000 PSIG @ 100°F	3000 PSIG @ 100°F
1/2"	6600 PSIG @ 100°F	3000 PSIG @ 100°F
5/8" - 3/4"	6000 PSIG @ 100°F	1600 PSIG @ 100°F
7/8" - 1"	5000 PSIG @ 100°F	1600 PSIG @ 100°F
1-1/4" - 1-1/2"	4000 PSIG @ 100°F	1600 PSIG @ 100°F
2"	2600 PSIG @ 100°F	1600 PSIG @ 100°F

^②Maximum Pressure 1500 PSIG for o-ring seats.

^③See page 54 for material grade information.

Tubing Check
For Water at 72°F

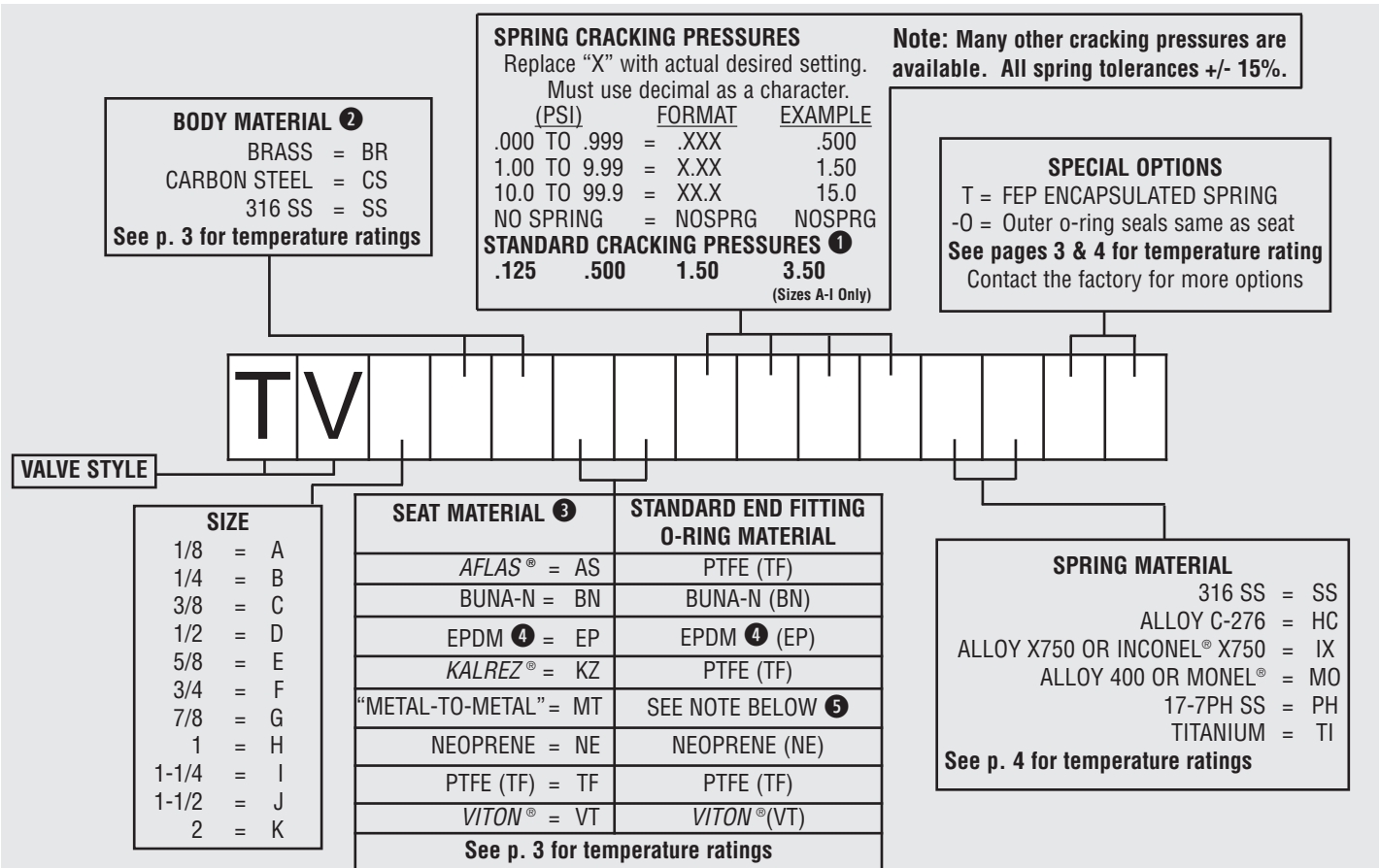


Note: All flow curves and Cv values presume the valves are fully open with 1/2 PSI cracking pressure springs. Consult the factory for more information.

STYLE TV C _v VALUES & VALVE WEIGHTS		
C _v	SIZE	ALL MATL
0.8	1/8	6.9 oz.
1.5	1/4	7.6 oz.
2.0	3/8	8.1 oz.
3.1	1/2	13 oz.
4.3	5/8	1.8 lb.
5.4	3/4	2.3 lb.
8.5	7/8	2.7 lb.
11.5	1	3.0 lb.
16.0	1-1/4	4.9 lb.
29.0	1-1/2	7.8 lb.
60.0	2	15 lb.

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

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



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.
- ② Brass valves have plated Carbon Steel tube fittings if applicable. Consult factory if other body or fitting materials are desired.
- ③ 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.
- ④ EP seats not recommended for use with Carbon Steel valves.
- ⑤ Fitting o-rings are the same as the seat for standard seat materials. For "metal-to-metal" seated valves, end fitting o-rings are Buna-N for brass and carbon steel valves and Viton® for stainless steel valves. Consult the factory for further information.