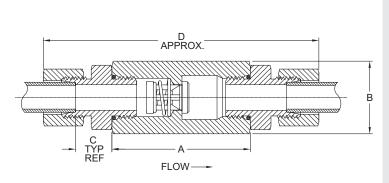


The **Tubing Check (TV)** check valve is constructed with compression tube fittings (flareless) and is designed for a minimum pressure drop. The valves are furnished complete with ferrules and nuts. The TV valve can also be used as a low pressure relief valve or vacuum breaker by using the desired spring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

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



Tubing O.D. Size	Size Code	Α	Hex <b>0</b> Size B	С	D	Orifice Diameter
1/8	Α	2.16	7/8	0.42	3.99	0.348
1/4	В	2.16	7/8	0.57	4.58	0.348
3/8	С	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	Е	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	Н	3.34	1-7/8	0.81	7.18	0.890
1-1/4	- 1	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

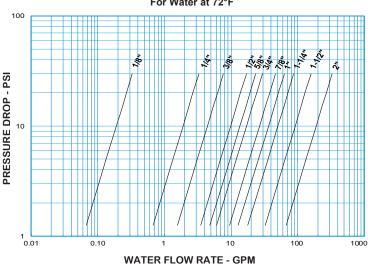
May be larger and/or round.

Line Size	Non-Shock Pressure-Temp. Rating @ 100°F Consult factory for P-T rating above 100°F				
	Stainless Steel (SS) and Carbon Steel (CS) <sup>❷</sup>	Brass (BR) <b></b>			
1/8"	7700 PSIG (CS) (1500 PSIG for o-ring seats)	3000 PSIG (1500 PSIG for o-ring seats)			
1/4" - 1/2"	6000 PSIG (SS) (1500 PSIG for o-ring seats)	3000 PSIG (1500 PSIG for o-ring seats)			
5/8"	5000 PSIG (1500 PSIG for o-ring seats)	1600 PSIG (1500 PSIG for o-ring seats)			
3/4"	4500 PSIG (1500 PSIG for o-ring seats)	1600 PSIG (1500 PSIG for o-ring seats)			
7/8" - 1"	4000 PSIG (1500 PSIG for o-ring seats)	1600 PSIG (1500 PSIG for o-ring seats)			
1-1/4" - 1-1/2"	3000 PSIG (1500 PSIG for o-ring seats)	1600 PSIG (1500 PSIG for o-ring seats)			
2"	2000 PSIG (1500 PSIG for o-ring seats)	1600 PSIG (1500 PSIG for o-ring seats)			

<sup>2</sup> See page 58 for material grade information.

MADE IN USA CHECK-ALL VALVE® MFG. CO. Phone: 515-224-2301 Fax: 515-224-2326

## Tubing Check Valve For Water at 72°F

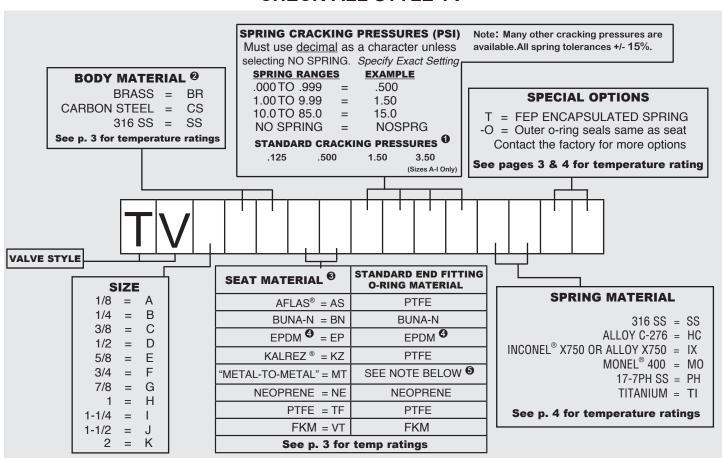


**Note:** All flow curves and Cv values presume the valves are fully open with 1/2 PSI cracking pressure springs. Consult the factory for more information.

STYLE TV C <sub>V</sub> VALUES & VALVE WEIGHTS					
C <sub>v</sub>	SIZE	ALL MATL			
0.06	1/8	6.9 oz.			
0.6	1/4	7.6 oz.			
1.4	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 53 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.

- .500 PSI is the only standard cracking pressure for spring materials other than Stainless Steel. 0.125 PSI springs are not recommended for installations with flow vertical down.
- Brass valves have plated Carbon Steel tube fittings if applicable. Consult factory if other body or fitting materials are desired.
- 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 54 for allowable leakage rates.
- EP seats not recommended for use with Carbon Steel valves.
- 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 FKM for stainless steel valves. Consult the factory for further information.