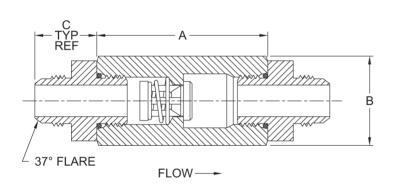


The **Tubing Check Valve-Flared (TF)** is a three-piece constructed check valve with 37° flared end fittings that conform to SAE J514 & ISO 8434-2 . These valves are designed for maximum flow with minimal pressure drop. The TF valve can also be used as a low pressure relief valve or vacuum breaker by using the desired spring settings.



Tubing O.D. Size	Size Code	А	Hex 0 Size B	С	Orifice Diameter
1/8	Α	2.16	7/8	0.69	0.348
1/4	В	2.16	7/8	0.89	0.348
3/8	С	2.16	7/8	0.91	0.348
1/2	D	2.47	1-1/8	1.04	0.464
5/8	Е	2.63	1-1/4	1.20	0.464
3/4	F	2.92	1-1/2	1.38	0.593
7/8	G	3.34	1-7/8	1.40	0.890
1	Н	3.34	1-7/8	1.46	0.890
1-1/4	I	3.48	2-1/4	1.58	1.135
1-1/2	J	3.81	2-1/2	1.79	1.385
2	K	5.09	3-1/2	2.19	2.025

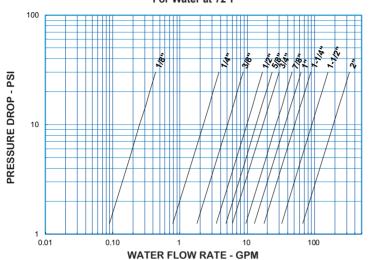
[•] May be larger and/or round.

Line Size	Non-Shock Pressure-Temperature @ Rating 100°F					
	Stainless Steel (SS) ²⁰	Carbon Steel (CS) ²⁰	Brass (BR) ²⁰			
1/8" - 1/2"	7700 PSIG (1500 PSIG for o-ring seats)	6000 PSIG (1500 PSIG for o-ring seats)	3000 PSIG (1500 PSIG for o-ring seats)			
5/8" - 3/4"	6000 PSIG (1500 PSIG for o-ring seats)	5000 PSIG (1500 PSIG for o-ring seats)	1600 PSIG (1500 PSIG for o-ring seats)			
7/8"	5400 PSIG (1500 PSIG for o-ring seats)	5000 PSIG (1500 PSIG for o-ring seats)	1600 PSIG (1500 PSIG for o-ring seats)			
1″	5400 PSIG (1500 PSIG for o-ring seats)	4500 PSIG (1500 PSIG for o-ring seats)	1600 PSIG (1500 PSIG for o-ring seats)			
1-1/4"	3600 PSIG (1500 PSIG for o-ring seats)	4000 PSIG (1500 PSIG for o-ring seats)	1600 PSIG (1500 PSIG for o-ring seats)			
1-1/2"	2400 PSIG (1500 PSIG for o-ring seats)	3000 PSIG (1500 PSIG for o-ring seats)	1600 PSIG (1500 PSIG for o-ring seats)			
2″	1800 PSIG (1500 PSIG for o-ring seats)	2000 PSIG (1500 PSIG for o-ring seats)	1600 PSIG (1500 PSIG for o-ring seats)			

² See page 56 for material grade information.

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

Tubing Check Valve Flared

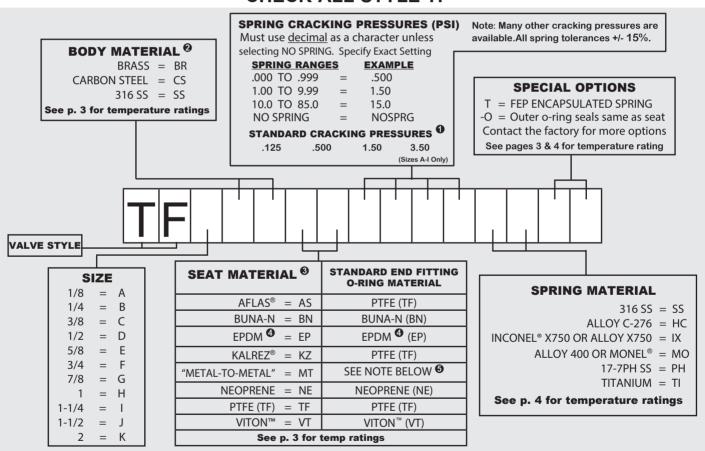


Note: All flow curves and Cv values presume the valves are fully open with 1/2 PSI cracking pressure springs. Consult the factory for more information.

STYLE TF C _V VALUES & VALVE WEIGHTS					
C _V	SIZE	ALL MATL			
0.08	1/8	5.5 oz.			
0.7	1/4	6.6 oz.			
1.6	3/8	7.2 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	5.7 lb.			
29.0	1-1/2	7.8 lb.			
60.0	2	15 lb.			

See page 51 for Flow Formulae. Valve weights are approximate.

HOW TO ORDER CHECK-ALL STYLE TF



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. .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
- 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 52 for allowable leakage rates.
- **4** 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 VITON™ for stainless steel valves. Consult the factory for further information.