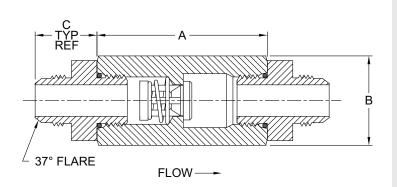


The **Tubing Check Valve-Flared (TF)** is a three-piece constructed check valve with 37° flared end fittings that conform to SAE J514 & ISO 8434-2. These valves are designed for maximum flow with minimal pressure drop. The TF valve can also be used as a low pressure relief valve or vacuum breaker by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

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	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	1-3/4	1.40	0.890
1	Н	3.34	1-7/8	1.46	0.890
1-1/4		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.

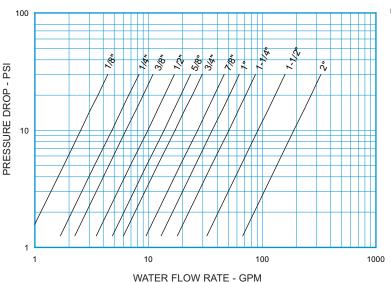
	Non-Shock Pressure-Temperature Rating ②				
Line Size	Stainless Steel (SS) 3	Carbon Steel (CS) 3	Brass (BR) 3		
1/8" - 1/2"	8500 PSIG @ 100°F	7000 PSIG @ 100°F	3000 PSIG @ 100°F		
5/8" - 1"	6600 PSIG @ 100°F	5000 PSIG @ 100°F	1600 PSIG @ 100°F		
1-1/4" - 1-1/2"	5800 PSIG @ 100°F	4000 PSIG @ 100°F	1600 PSIG @ 100°F		
2"	3000 PSIG @ 100°F	2500 PSIG @ 100°F	1600 PSIG @ 100°F		

² Maximum Pressure 1500 PSIG for o-ring seats.

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See page 54 for material grade information.

Tubing Check Valve Flared For Water at 72°F

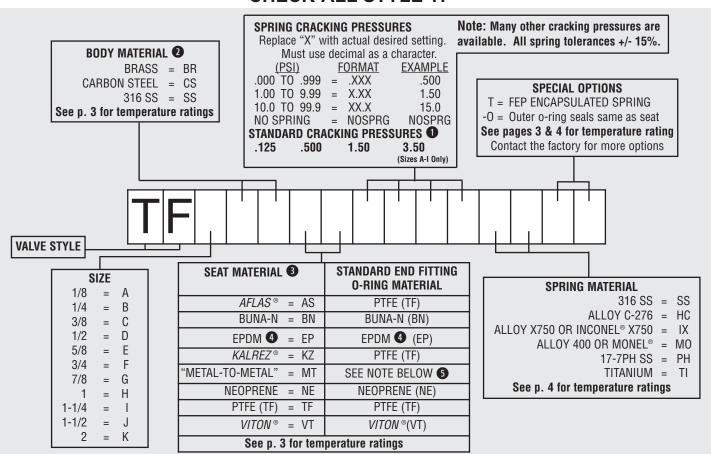


Note: All flow curves and Cv values presume the valves are fully open with 1/2 PSI cracking pressure springs. Consult the factory for more information.

STYLE TF C _V VALUES & VALVE WEIGHTS					
C _V	SIZE	ALL MATL			
0.8	1/8	5.5 oz.			
1.5	1/4	6.6 oz.			
2.0	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 49 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.

- **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.
- ②Brass 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 50 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 of for stainless steel valves. Consult the factory for further information.