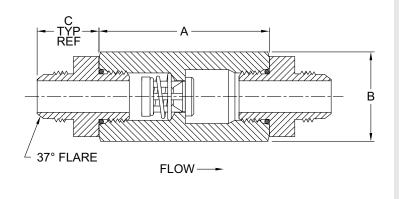


The **Tubing Check Valve-Flared (TF)** is a three-piece constructed check valve with 37° flared end fittings that conform to SAE J514 & ISO 8434-2. These valves are designed for maximum flow with minimal pressure drop. The TF valve can also be used as a low pressure relief valve or vacuum breaker by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



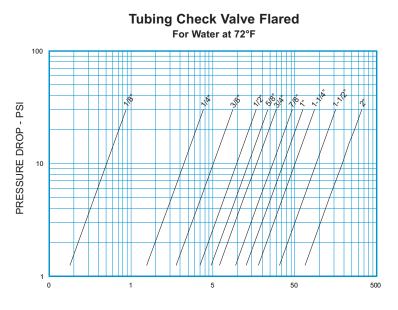
Tubing O.D. Size	Size Code	A	Hex 1 Size B	C	Orifice Diameter
1/8	A	2.16	7/8	0.69	0.348
1/4	В	2.16	7/8	0.89	0.348
3/8	С	2.16	7/8	0.91	0.348
1/2	D	2.47	1-1/8	1.04	0.464
5/8	E	2.63	1-1/4	1.20	0.464
3/4	F	2.92	1-1/2	1.38	0.593
7/8	G	3.34	1-7/8	1.40	0.890
1	Н	3.34	1-7/8	1.46	0.890
1-1/4	I	3.48	2-1/4	1.58	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 🛛				
LING SIZE	Stainless Steel (SS) 3	Carbon Steel (CS) 3	Brass (BR) 3		
1/8" - 1/2"	7700 PSIG @ 100°F	6000 PSIG @ 100°F	3000 PSIG @ 100°F		
5/8" - 3/4"	6000 PSIG @ 100°F	5000 PSIG @ 100°F	1600 PSIG @ 100°F		
7/8"	5400 PSIG @ 100°F	5000 PSIG @ 100°F	1600 PSIG @ 100°F		
1"	5400 PSIG @ 100°F	4500 PSIG @ 100°F	1600 PSIG @ 100°F		
1-1/4"	3600 PSIG @ 100°F	4000 PSIG @ 100°F	1600 PSIG @ 100°F		
1-1/2"	2400 PSIG @ 100°F	3000 PSIG @ 100°F	1600 PSIG @ 100°F		
2"	1800 PSIG @ 100°F	2000 PSIG @ 100°F	1600 PSIG @ 100°F		

2 Maximum Pressure 1500 PSIG for o-ring seats.

3See page 54 for material grade information.



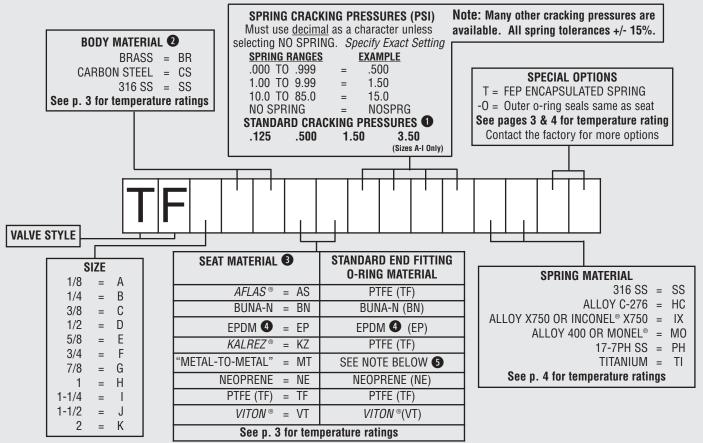
WATER FLOW RATE - GPM

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					
Cv	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 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.

●.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.

GEP 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.

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