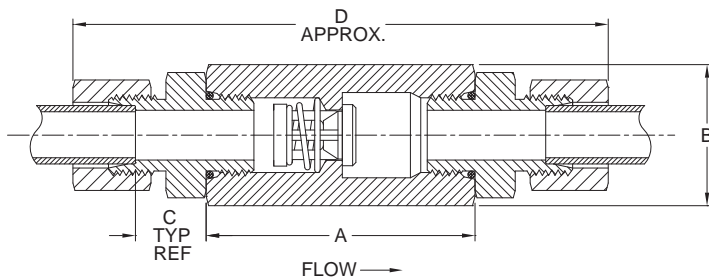


The **Tubing Check (TV)** valve is constructed with **flareless** tube ends designed for minimum pressure drop. The valves are furnished complete with ferrules and nuts. Consult the factory for more information.



Tubing O.D. Size	Size Code	A	Hex ^① Size B	C	D	Orifice Diameter
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	1-3/4	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.

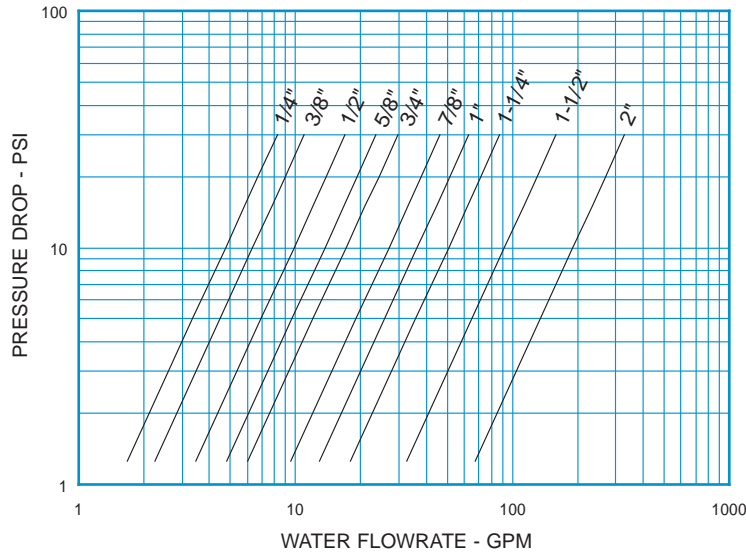
*Not a stock item. Consult factory for delivery.

Line Size	Non-Shock Pressure-Temperature Rating ^②		
	Stainless Steel (SS) ^③	Carbon Steel (CS) ^③	Brass (BR) ^③
1/4 - 1/2	8500 PSIG @ 100°F	7000 PSIG @ 100°F	2000 PSIG @ 100°F
5/8 - 1	6600 PSIG @ 100°F	5000 PSIG @ 100°F	1600 PSIG @ 100°F
1-1/4 - 1-1/2	4800 PSIG @ 100°F	4000 PSIG @ 100°F	1600 PSIG @ 100°F
2	3000 PSIG @ 100°F	2500 PSIG @ 100°F	1600 PSIG @ 100°F

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

^③See page 53 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 (TCV) C _v VALUES & VALVE WEIGHTS		
C _v	SIZE	ALL MATL
1.5	1/4	6.6 oz.
2.0	3/8	7.2 oz.
3.1	1/2	13.0 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	15.0 lb.

See page 48 for Flow Formulae
Valve weights are approximate.

**HOW TO ORDER
CHECK-ALL STYLE TV (TCV)**

BODY MATERIAL ①

BRASS = BR
CARBON STEEL = CS
316 SS = SS

See p. 4 for Temperature ratings

SPRING CRACKING PRESSURES

Replace "X" with actual desired setting.
Must use decimal as a character.

(PSI)	FORMAT
0.000 TO 0.999	= .XXX
1.00 TO 9.99	= X.XX
10.0 TO 99.9	= XX.X
NO SPRING	= NOSPRG

STANDARD CRACKING PRESSURES ②

.125	.500	1.50	3.50
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(Sizes B-I Only)

SPECIAL OPTIONS

T = FEP ENCAPSULATED SPRING

See p. 5 for Temperature ratings
Contact the factory for more options

VALVE STYLE

TV

SIZE

1/4	= B
3/8	= C
1/2	= D
5/8	= E
3/4	= F
7/8	= G
1	= H
1-1/4	= I
1-1/2	= J
2	= K

SEAT MATERIAL	STANDARD END FITTING O-RING MATERIAL
AFLAS® = AS	PTFE (TF)
BUNA-N = BN	BUNA-N (BN)
EPDM = EP	EPDM (EP)
KALREZ® = KZ	PTFE (TF)
METAL-TO-METAL = MT	SEE NOTE BELOW ④
NEOPRENE = NE	NEOPRENE (NE)
PTFE (TF) = TF	PTFE (TF)
VITON® = VT	VITON®(VT)

See p. 4 for Temperature ratings

SPRING MATERIAL

316 SS = SS
HASTELLOY® C = HC
INCONEL® X-750 = IX
MONEL® = MO
17-7PH SS = PH
TITANIUM = TI

See p. 5 for Temperature ratings

Listed above are the most common material selections. Please contact the factory for additional options.

- ① Brass valves have plated Carbon Steel fittings. Consult factory if other body or fitting materials are desired.
- ② .500 PSI is the only standard cracking pressure for spring materials other than Stainless Steel. Cracking pressure tolerance is +/- 15%. .125 PSI springs are not recommended for installations with flow vertical down.
- ③ Seat materials other than metal-to-metal have a maximum pressure rating of 1500 PSI. PTFE seats are not resilient. See page 49 for allowable leakage rates.
- ④ Brass and Carbon Steel valves have Buna-N end fitting o-rings, 316 SS valves have Viton® end fitting o-rings.