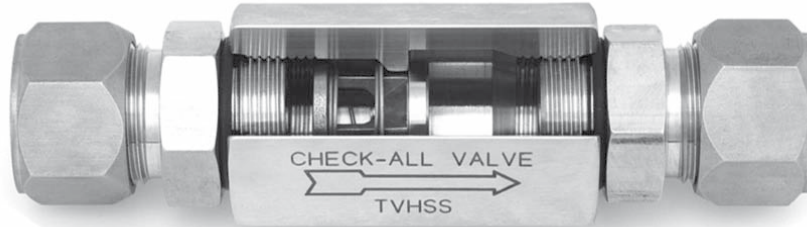


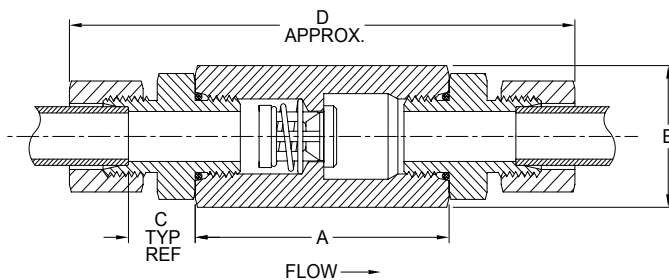


Tubing Check Valve

TM-CAV-TCV



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

¹ May 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

² Maximum Pressure 1500 PSIG for o-ring seats.

³ See page 53 for material grade information.

All specifications are subject to change without notice



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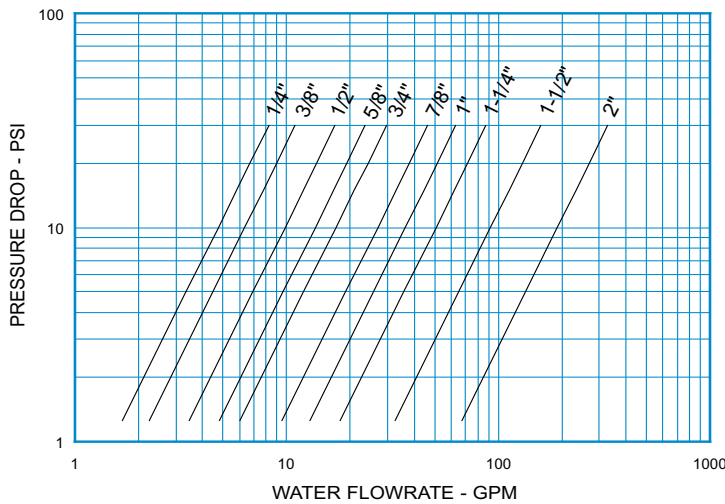
Kirschstrasse 20 • D-80999 München • Telefon (+49-89) 89.26.57-0 • Telefax (+49-89) 89.26.57-33



Tubing Check Valve

TM-CAV-TCV

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 MATERIAL¹
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 PRESSURES²
.125 .500 1.50 3.50
(Sizes B-I Only)

Note: Many other cracking pressures are available. Consult factory.

SPECIAL OPTIONS
T = FEP ENCAPSULATED SPRING
See p. 5 for Temperature ratings
Contact the factory for more options

VALVE STYLE TV

SIZE	SEAT MATERIAL ³	STANDARD END FITTING O-RING MATERIAL	SPRING MATERIAL
1/4 = B	AFLAS® = AS	PTFE (TF)	316 SS = SS
3/8 = C	BUNA-N = BN	BUNA-N (BN)	HASTELLOY® C = HC
1/2 = D	EPDM = EP	EPDM (EP)	INCONEL® X-750 = IX
5/8 = E	KALREZ® = KZ	PTFE (TF)	MONEL® = MO
3/4 = F	METAL-TO-METAL = MT	SEE NOTE BELOW ⁴	17-7PH SS = PH
7/8 = G	NEOPRENE = NE	NEOPRENE (NE)	TITANIUM = TI
1 = H	PTFE (TF) = TF	PTFE (TF)	
1-1/4 = I	VITON® = VT	VITON®(VT)	
1-1/2 = J			
2 = K			

See p. 4 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.

All specifications are subject to change without notice



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