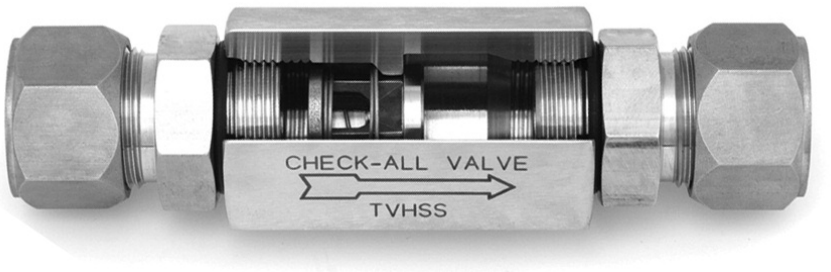
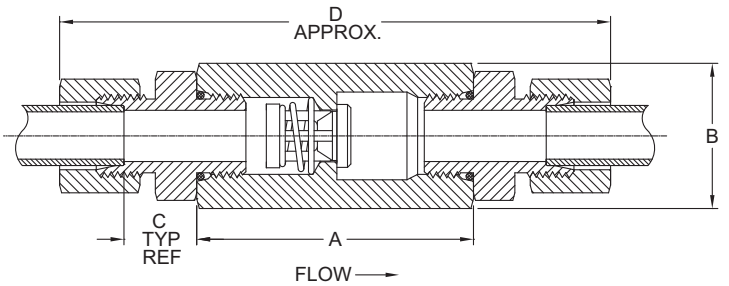
PED 97/23/EC COMPLIANT
See page 56 for Details

TUBING CHECK



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
1/8	A	2.16	7/8	0.42	3.99	0.348
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

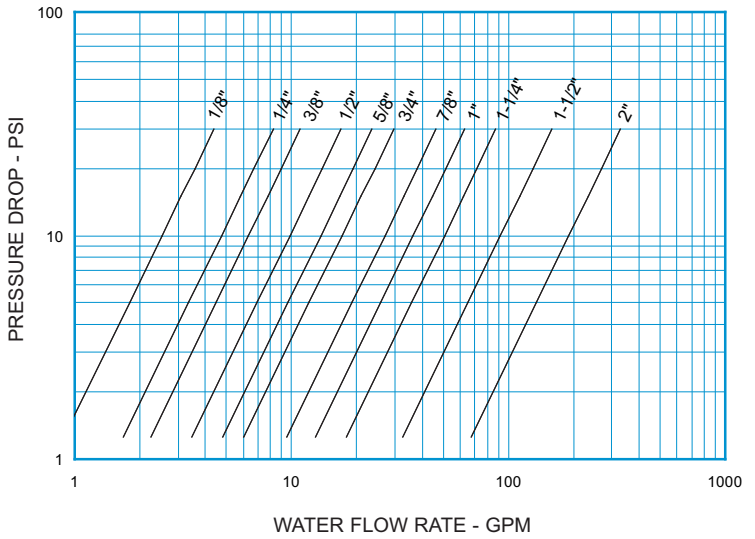
①**May be larger and/or round.**
***Not a stock item. Consult factory for delivery.**

Line Size	Non-Shock Pressure-Temperature Rating ②	
	Stainless Steel (SS) and Carbon Steel ③	Brass (BR) ③
1/8 - 3/8	8000 PSIG @ 100°F	3000 PSIG @ 100°F
1/2	6600 PSIG @ 100°F	3000 PSIG @ 100°F
5/8 - 3/4	6000 PSIG @ 100°F	1600 PSIG @ 100°F
7/8 - 1	5000 PSIG @ 100°F	1600 PSIG @ 100°F
1-1/4 - 1-1/2	4000 PSIG @ 100°F	1600 PSIG @ 100°F
2	2600 PSIG @ 100°F	1600 PSIG @ 100°F

②**Maximum Pressure 1500 PSIG for o-ring seats.**
③**See page 55 for material grade information.**

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

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
0.8	1/8	6.9 oz.
1.5	1/4	7.6 oz.
2.0	3/8	8.1 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	4.9 lb.
29.0	1-1/2	7.8 lb.
60.0	2	15.0 lb.

See page 50 for Flow Formulae.
Valve weights are approximate.

HOW TO ORDER
CHECK-ALL STYLE TV (TCV)

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

(PSI)		FORMAT
.000 TO .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
(Sizes A-I Only)

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

BODY MATERIAL ①

BRASS	=	BR
CARBON STEEL	=	CS
316 SS	=	SS

See p. 4 for temperature ratings

SPECIAL OPTIONS
T = FEP ENCAPSULATED SPRING
-O = Outer o-ring seals same as seat
See p. 5 for temperature rating
Contact the factory for more options

VALVE STYLE

TV

SIZE

1/8	=	A
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 ③		STANDARD END FITTING O-RING MATERIAL
AFLAS®	= AS	PTFE (TF)
BUNA-N	= BN	BUNA-N (BN)
EPDM ④	= EP	EPDM ④ (EP)
KALREZ®	= KZ	PTFE (TF)
"METAL-TO-METAL"	= MT	SEE NOTE BELOW ⑤
NEOPRENE	= NE	NEOPRENE (NE)
PTFE (TF)	= TF	PTFE (TF)
VITON®	= VT	*VITON*® (VT)

See p. 4 for temperature ratings

SPRING MATERIAL

316 SS	=	SS
ALLOY C-276	=	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.

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.

③Seat 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 51 for allowable leakage rates.

④EP seats not recommended for use with Carbon Steel valves.

⑤Fitting 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.