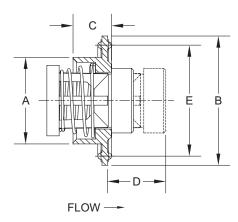


The **Sanitary Insert (TC)** check valve is a compact fluoropolymer (PTFE/FEP/PFA) valve which has been used for decades as the most economical solution for providing a check valve in a new or existing sanitary piping system. (ferrules not included). Since the Sanitary Insert Valve replaces the gasket normally used with clamp joints, no extra space is required to accommodate the valve. The Sanitary Insert valve can also be used as a low pressure relief valve or vacuum breaker by using the desired spring settings.

For applications requiring a 3-A compliant valve and/or 32 RA or finer surface finishes, see our 3S series on page 25.

Note: USP Class VI o-rings can be supplied with certification upon request.



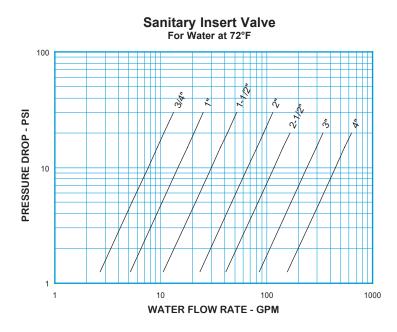
Line	Size Code		Orifice ⁰				
Size		Α	В	С	D 🤨	Е	Dia.
3/4	F	0.590	55/64	0.55	0.63	0.800	0.348
1	Н	0.855	2	0.55	0.70	1.718	0.464
1-1/2	J	1.345	2	0.60	0.98	1.718	0.890
2	K	1.845	2-1/2	0.57	1.12	2.218	1.135
2-1/2	L	2.355	3	0.60	0.98	2.781	1.385
3	М	2.845	3-1/2	0.64	1.59	3.281	2.025
4	Ν	3.806	4-5/8	0.78	1.90	4.344	2.560

Due to molding process, orifice may vary.Maximum nominal dimension for a fully open valve with no spring.

Body Material [®]	Line Size	Non-Shock Pressure-Temp. Rating @ 100°F Consult factory for P-T ratings above 100°F		
	3/4" - 2"	55 PSIG		
PTFE (TF)	2-1/2" - 4"	20 PSIG		

6 See page 58 for material grade information.

Phone: 515-224-2301



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

STYLE TC C _V VALUES & VALVE WEIGHTS						
Cv	SIZE	PTFE				
2.4	3/4	0.2 oz.				
4.6	1	0.6 oz.				
9.5	1-1/2	1.1 oz.				
20.9	2	1.8 oz.				
37.0 2-1/2		2.3 oz.				
76.0 3		5.1 oz.				
141 4		11.2 oz.				

See page 53 for Flow Formulae. Valve weights are approximate.

CHECK-ALL STYLE TC SPRING CRACKING PRESSURES (PSI) Note: Many other cracking pressures are Must use decimal as a character unless available. All spring tolerances +/- 15%. selecting NO SPRING. Specify Exact Setting SPRING RANGES EXAMPLE .000 TO .999 = .500 SPECIAL OPTIONS 1.00 TO 9.99 1.50 = T = FEP ENCAPSULATED SPRING 10.0 TO 15.0 = 15.0 **BODY MATERIAL** NO SPRING NOSPRG Contact the factory for more options = STANDARD CRACKING PRESSURES 0 See p. 4 for temperature rating PTFE = TF 125 .500 1.50 3.50 See p. 3 for temperature rating (Sizes F-K Only) VALVE STYLE **SPRING MATERIAL** SEAT MATERIAL SIZE 316 SS = SS3/4 = F FDA AFLAS[®] = FA "METAL-TO-METAL" = MT USP CLASS VI AFLAS® = UA ALLOY C-276 = HC FDA BUNA = FB Н 1 = FDA EPDM = FE USP CLASS VI EPDM = UE INCONEL[®] X750 OR ALLOY X750 = IX 1-1/2 J = FDA FKM = FV FDA KALREZ[®] = FK USP CLASS VI SILICONE = US $MONEL^{\circ} 400 = MO$ 2 Κ = USP CLASS VI FKM = UV USP CLASS VI KALREZ[®] = UK TITANIUM = TI2-1/2 L = See p. 4 for temperature ratings 3 = Μ See p. 3 for temperature ratings 4 = Ν

HOW TO ORDER

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. 0.125 PSI springs are not recommended for installations with flow vertical down.

• For PTFE valves, "MT" seats mean plastic to plastic. (No o-ring). See page 54 for allowable leakage rates.

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sales@checkall.com

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