

The **Sanitary Insert (CB, TC)** 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. This valve style is designed to fit into grooved-end clamp-type fittings (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.

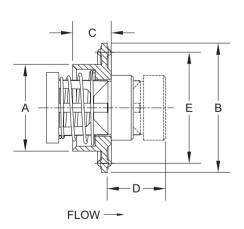
For applications requiring a 3-A compliant valve and/or 32 RA or finer surface finishes, see our 3S series on page 23.

Two different types of Sanitary Insert Valves are available. They are distinguished by the following designations in their part numbers:

TC – Designates Tri-Clamp° fittings manufactured by Alfa Laval Inc., as well as Cherry-Burrell S-Line Series of fittings.

CB – Designates the Cherry-Burrell Q-Line Series of fittings.

Note: Sanitary Insert Valve types TC and CB are not interchangeable! USP Class VI o-rings can be supplied with certification.



Line Size	Size Code	TC - Alfa Laval Inc. Cherry-Burrell S-Line					CB - Cherry-Burrell Q-Line Only					Orifice 0
		А	В	С	D 2	Е	А	В	С	D 2	Е	Dia.
3/4	F	0.590	55/64	0.55	0.63	0.800	-	-	1	-	-	0.348
1	Н	0.855	2	0.55	0.70	1.718	0.850	1-3/4	0.55	0.70	1.437	0.464
1-1/2	J	1.345	2	0.60	0.98	1.718	1.350	2	0.60	0.98	1.716	0.890
2	K	1.845	2-1/2	0.57	1.12	2.218	1.850	2-1/2	0.57	1.12	2.247	1.135
2-1/2	L	2.355	3	0.60	0.98	2.781	2.250	3-1/4	0.60	0.98	2.841	1.385
3	М	2.845	3-1/2	0.64	1.59	3.281	2.852	3-55/64	0.61	1.58	3.372	2.025
4	N	3.806	4-5/8	0.78	1.90	4.344	3.800	4-55/64	0.73	1.89	4.372	2.560

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

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

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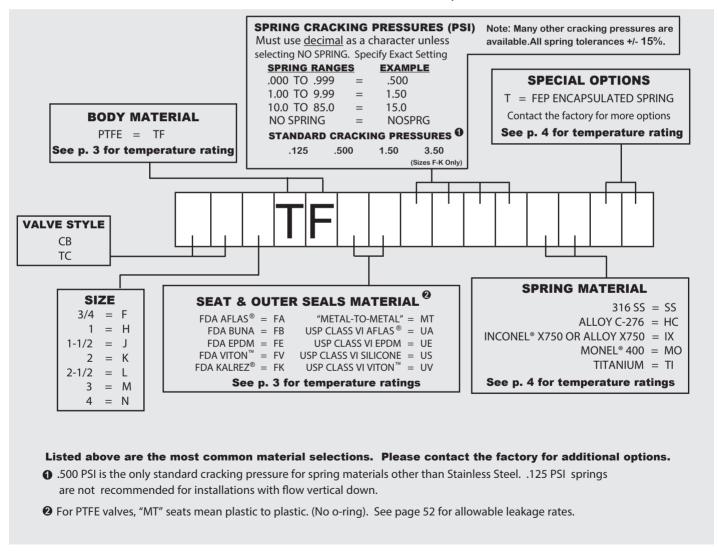
WATER FLOW RATE - GPM

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 CB, TC C _V VALUES & VALVE WEIGHTS					
C _v	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 51 for Flow Formulae. Valve weights are approximate.

HOW TO ORDER CHECK-ALL STYLE CB, TC



www.checkall.com sales@checkall.com ISO 9001 CERTIFIED MADE IN USA 2019

Page information references listed on this cut sheet are available in the printed catalog as well as the digital catalog, which is available at www.checkall.com.