BIO-CHEM VALVE™

Bio-Chek™ In-line Check Valves

FEATURES OF BIO-CHEK™ CHECK VALVES

- Inert Flow Path - no metallic parts
- Choice of EPDM, FKM and FFKM check elements
- PEEK housing material
- Check against backflow pressure to 100 psi
- Small Internal Volume
- Low Cracking Pressure
- Gravity Independent Installation

SPECIFICATIONS

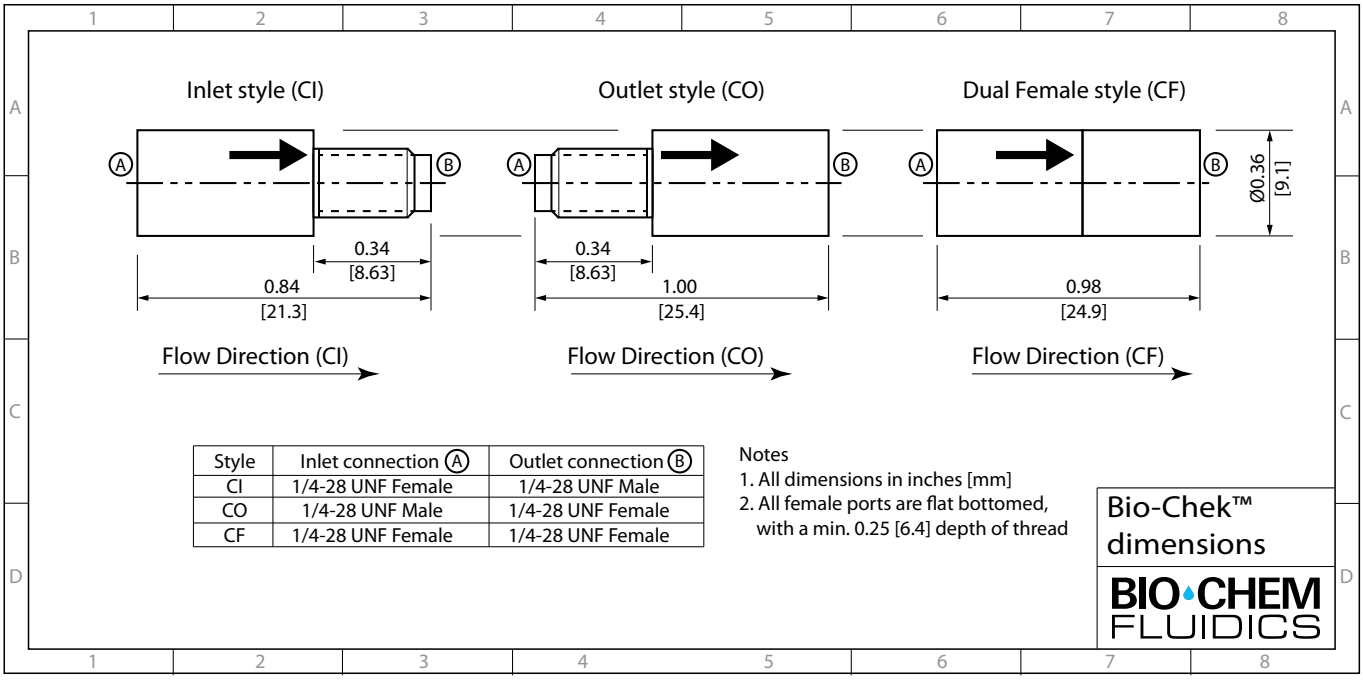
Cracking pressure	<1 psi	
Backpressure generated	@0-30 psi	<1 psi
	@30-50 psi	1-2 psi
Maximum pressure rating	50 psi	
Maximum Backpressure	100 psi	
Internal volume	CI	60 µl
	CO	68 µl
	CF	49 µl
Connection	1/4-28 UNF flat bottom	

Bio-Chem Valve™ Bio-Chek™ in-line check valves feature an inert flow path, no metal components and zero maintenance in high-purity, low-pressure applications. Unlike spring-actuated check valves that can restrict or impede the flow path, the Bio-Chek™ in-line check valve features a smooth flow path that minimizes shear and turbulence. The Bio-Chek™ valve provides a flow rate equivalent to a 0.030" (0.76mm) orifice, a cracking pressure of 1 psi or less and check against backflow pressure to 100 psi. Available in inlet, outlet or dual-female configurations, applications include handling syringe pump systems, vacuum systems and other low-flow processes. The valves connect to standard 1/4-28 flat bottom ports and fittings.

		Check element material		
Style	Housing material	EPDM	FKM	FFKM
Inlet style (CI)	PEEK	CI-5E	CI-5V	CI-5C
Outlet style (CO)	PEEK	CO-5E	CO-5V	CO-5C
Dual-Female style (CF)	PEEK	CF-5E	CF-5V	CF-5C

Polymers referenced in this brochure:
EPDM = ethylene-propylene-diene
FKM = fluorinated elastomer
FFKM = perfluoro elastomer
PEEK = polyetheretherketone

INSTALLATION DRAWING



Style	Inlet connection Ⓐ	Outlet connection Ⓑ
CI	1/4-28 UNF Female	1/4-28 UNF Male
CO	1/4-28 UNF Male	1/4-28 UNF Female
CF	1/4-28 UNF Female	1/4-28 UNF Female

Notes
1. All dimensions in inches [mm]
2. All female ports are flat bottomed, with a min. 0.25 [6.4] depth of thread

Bio-Chek™ dimensions

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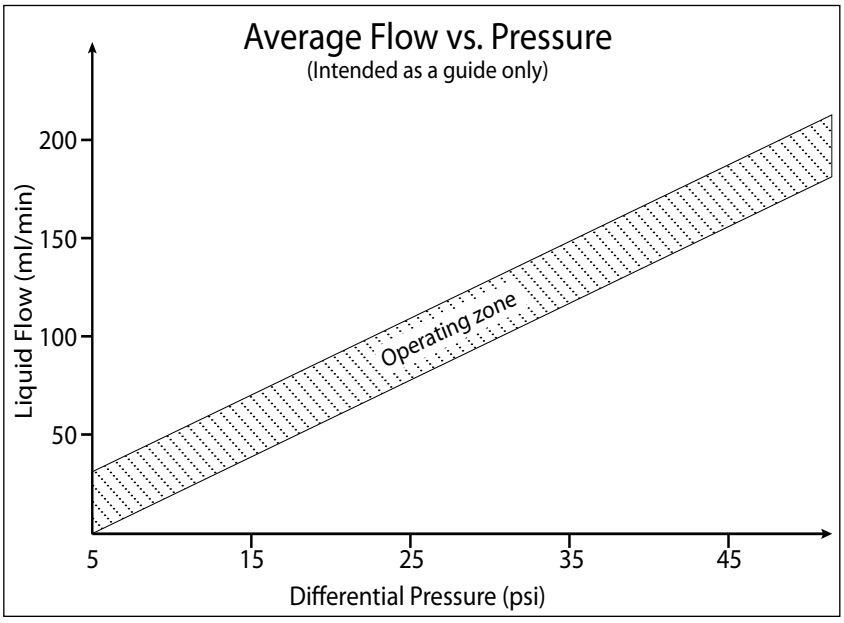
FLOW CHARACTERISTICS



BIO·CHEM FLUIDICS

www.biochemfluidics.com

Bio-Chem Fluidics Inc
85 Fulton Street, Boonton NJ 07005 USA
t: 973 263 3001 f: 973 263 2880 e: sales.us@biochemfluidics.com

Bio-Chem Fluidics Technology (Shanghai) Co. Ltd
South Metropolis Industrial Park, Jindu Road, Minhang District, Shanghai, PRC 201108
t: +86 21 61519058 f: +86 21 61519090