



Pure-Flo® Chromatography

(CHRO & CHN)

In a typical chromatography process, there is an assembly of five diaphragm valves that connect the chromatography column to the process piping. Manipulating those valves allows the process to flow through the chromatography column in the forward and reverse direction, as well as bypass the column completely. The Pure-Flo Integral Chromatography Valve Assembly accomplishes this task by integrating the required valves while retaining flexibility, minimizing dead legs in the process piping, and reducing the overall space needed for the assembly. The Integral Chromatography Valve provides the process needs of three (3) P&IDs, utilizing four or five valves in one integrally machined assembly, dramatically reducing contact surfaces and hold up volume.

Typical Applications

Chromatography

Specifications

Standard Sizes:

- 0.25" 2" (DN 8 50) Valve size
- Other sizes available upon request Materials:
- 316L ASTM A479
- DN 177440, 1.4435
- AL6XN
- Hastelloy C-22 & C-276
- Other materials available upon request

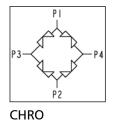
Standard End Connections:

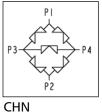
- 14, 16, 18, 20 Gauge OD tubing
- DIN/ISO
- Tri-Clover Tri-Clamp®
- Others available upon request

Compatible with standard Pure-Flo topworks: See PFTOP for details on available manual bonnets or actuator.

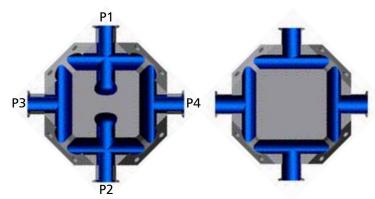


Patent # 6,112,767 and 5,906,223





Flow Path



How to Order a Chromatography Valve

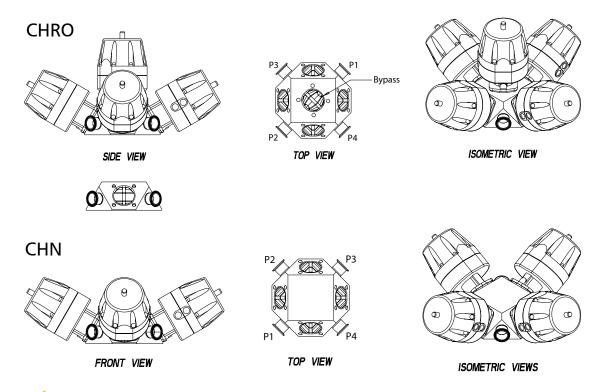
2" Chromatography Valve with Bypass, wrought stainless steel body, Tri-Clamp ends, standard mounting holes, 25 Ra interior finish, standard exterior finish (Scotch Brite).

Figure Number: CHRO-2-419-W-SM-6-1-0

Configuration Example		CHRO	2	419	W	SM	6-1-0
Bo	Block Type ¹	CHRO					
	Valve Size		2				
	Type (.5" only) ²						
	End Conections			419			
	Body Material				W		
	Standard Mounting ³					SM	
	Polish Selections						6-1-0

¹ Chromatography block includes bypass valve as a standard (CHRO). Use Block Type CHN for Chromatography block with no bypass valve.

To add topworks, see BBTOP. For additional figure numbers, see PFORD.





ITT Engineered Valves 33 Centerville Road Lancaster, PA 17603, USA Tel: +1 (717) 509-2200

Cam-Line, Cam-Tite, Dia-Flo, EnviZion, Pure-Flo, Skotch ITT Engineered Valves 1110 Bankhead Avenue Amory, MS 38821, USA Tel: +1 (662) 256-7185

Fabri-Valve

ITT Bornemann GmbH 31683 Obernkirchen Germany

Tel: +49 5724 390-0

EnviZion, Pure-Flo

Please contact ITT Engineered Valves for the latest drawing and dimensional information. The above drawing should only be used as a general reference.

² For .5 inch valve, must specify Pure-Flo (PF) or Bio-Tek (BT).

³ Standard mounting for Chromatography blocks consists of drilled and tapped holes on the bottom of the block. Contact factory for specific sizes and locations. Body can be mounted horizontally (as shown below) or vertically with port P1 at the top.