

Constant Pressure Cylinders



Constant Pressure Cylinders should be used for calibration standards or samples that contain partially soluble gases that will not stay in solution in a Constant Volume Cylinder.

Constant Pressure Cylinders are composed of two chambers separated by a leak tight piston. The first chamber, the Pre-charge Side, is for the pressure pad and the second, the Product Side, is for the sample. While the product chamber can be equipped with or without a mixing device, DCG recommends using this feature. Even though the calibration standard is in a leak tight chamber the sample will still stratify in the cylinder. By properly mixing the sample before injecting into the analyzer and maintaining a proper pressure pad during injection the sample will remain homogenous and be representative of the product stream or calibration standard.* Uniformity between samples generates fewer runs and provides the added benefits of highly accurate analyses and improved laboratory production.

Traditional cylinders, also known as Constant Volume Cylinders, employ a pressure pad in an attempt to keep partially soluble gases in solution. The pressure pad pushes down on the Calibration Standard or Sample and the Standard or Sample is withdrawn from the cylinder via a full-length eductor tube. Constant Volume Cylinders are effective for sampling compositions with components that are soluble enough to stay in solution but not ideal for samples that contain lighter components. Constant Volume Cylinders offer marginal protection against the loss of dissolved gases into the headspace. Additionally, they offer no real means of mixing stratified standards except by rolling.

DCG offers a variety of Constant Pressure Cylinders for sale along with rugged carry cases. Please contact your DCG Technical Specialist for assistance in determining which features best meet your needs.

*See DCG Brochure titled Directions for Attachment of CPC to GC

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Chromatographic Reference Materials

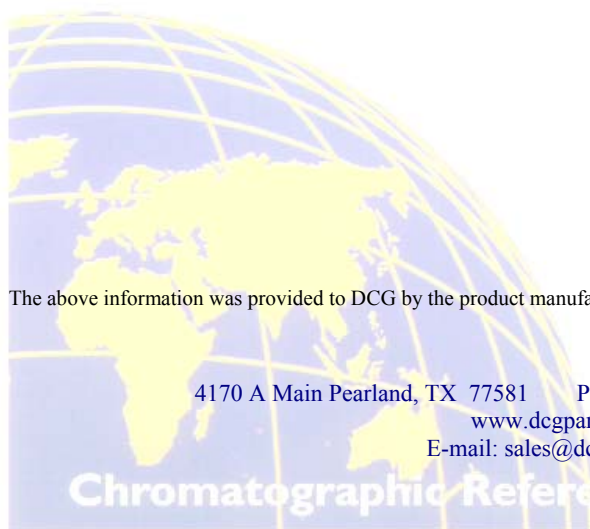


Constant Pressure Cylinders (continued)

Ordering Information

Capacity	Materials of Construction	Gauges	Burst Discs	O'Rings	Valve Seats
1000cc	Valves: 316L SS End Caps: 316L SS Cylinder: 316L SS Mixing Device: 316L SS	0-2000 PSIG	1800 PSIG	Viton®	PEEK
1000cc	Valves: 316L SS End Caps: 316L SS Cylinder: 316L SS Mixing Device: 316L SS	0-2000 PSIG	1800 PSIG	Kalrez®/ product side Viton®/pre-charge side	PEEK
500cc	Valves: 316L SS End Caps: 316L SS Cylinder: 316L SS Mixing Device: 316L SS	0-2000 PSIG	1800 PSIG	Viton®	PEEK
500cc	Valves: 316L SS End Caps: 316L SS Cylinder: 316L SS Mixing Device: 316L SS	0-2000 PSIG	1800 PSIG	Kalrez®/ product side Viton®/pre-charge side	PEEK
300cc	Valves: 316L SS End Caps: 316L SS Cylinder: 316L SS Mixing Device: 316L SS	0-2000 PSIG	1800 PSIG	Viton®	PEEK
300cc	Valves: 316L SS End Caps: 316L SS Cylinder: 316L SS Mixing Device: 316L SS	0-2000 PSIG	1800 PSIG	Kalrez®/ product side Viton®/pre-charge side	PEEK

Viton® is a registered trademark of E.I. Du Pont de Nemours & Co.
Kalrez® is a registered trademark of DuPont Dow Elastomers L.L.C.



The above information was provided to DCG by the product manufacturer. DCG makes no additional warranties or representations.

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