

Poly-Clear™ CV Series Filter Cartridges

High Efficiency Filter Cartridges with Pleated Polypropylene Media



Description

The Poly-Clear™ CV Series pleated cartridge line has been developed to meet the process needs and throughput requirements of the pharmaceutical, food and beverage, electronics, chemical, and other critical industries. CV pleated cartridges are used to filter liquids with high efficiency, low pressure drop, robust debris holding capacity and long life. CV filters can be used as a prefilter or as a final filter depending on the application.

Poly-Clear CV Series filter cartridges deliver high efficiency and consistent filtration of fluids in a wide range of applications. Poly-Clear filter cartridges are constructed of pleated polypropylene melt blown filter media that provides particle removal from 0.2 to 50 µm. The high surface area Poly-Clear filters ensure long service life and low initial pressure drops.

All cartridge hardware components are high purity polypropylene materials for use in critical process applications. Poly-Clear cartridges are manufactured and assembled in a clean room to minimize the possibility of contamination. Poly-Clear Series cartridges are available in a wide range of configurations to fit most commercially available filter housings.

Features and Benefits

- Nominally rated filters (90%) with high flow rates and a low pressure drop
- Filter cartridges are constructed of microfiber melt blown media to provide high area, surfactant-free, and non-fiber releasing filtration.
- Constructed with a durable 2.5 inch cage and 1.0 inch core
- Available in 10, 20, 30, and 40 inch lengths
- Durable, thermal bonded construction. No adhesives, binders, lubricants, or anti-static agents are used in the manufacturing process.
- 100% polypropylene materials of construction provide wide chemical compatibility with acids, bases, salts, and most organic solvents. The high purity construction assures quick rinse up in critical applications.
- All materials of construction are FDA-listed for food and beverage contact according to CFR Title 21 and comply with USP Class VI toxicity test for plastics.

Materials of Construction

Filter Media	Polypropylene
Support Media	Polypropylene
Cage, Core, End caps	Polypropylene
O-rings/Gaskets	EPR, Silicone, PTFE*

* Other materials available

Applications

- Food and Beverage Processing
- High Purity Chemicals
- RO Pretreatment
- Cosmetics And Fragrances
- Chemical Mechanical Polishing
- Metal Finishing/Plating Solutions
- Solvent Filtration
- Paints and Coatings
- Pharmaceutical Prefiltration
- Photographic Solutions

Compliance

	USP Class VI	FDA Listed Per 21 CFR
Filter Media	Pass	Yes
Support Media	Pass	Yes
Cage, Core, Endcaps	Pass	Yes

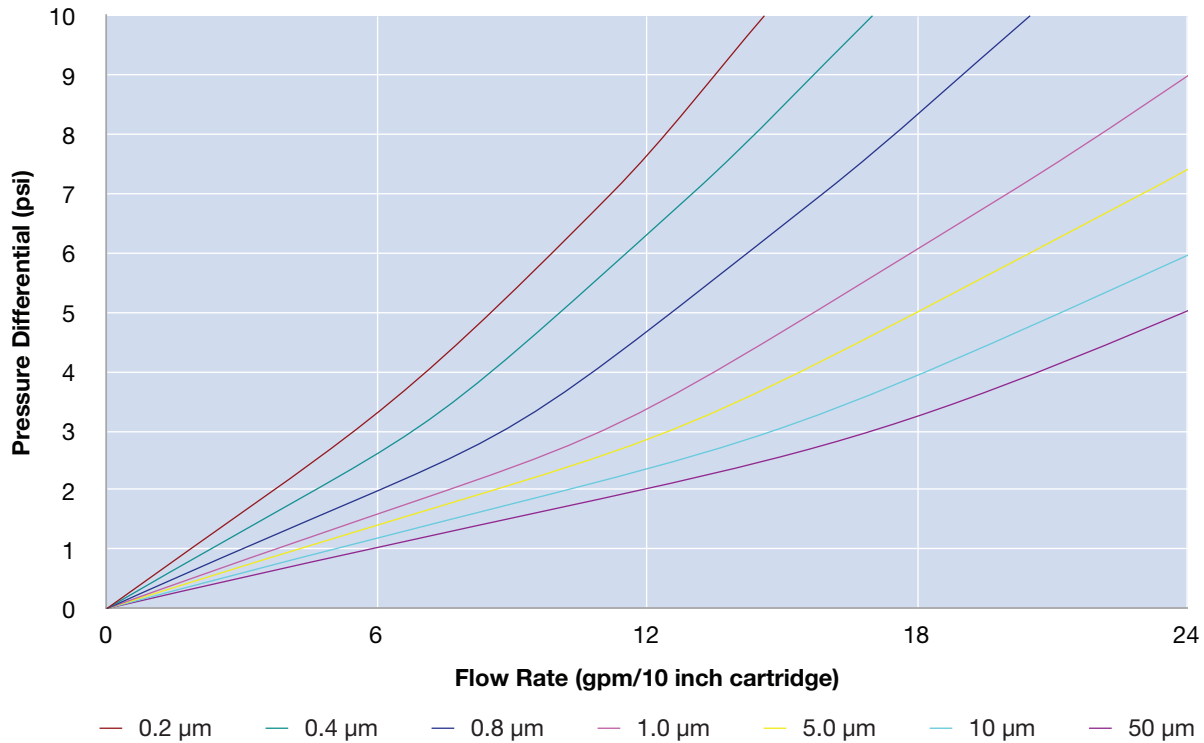
Nominal Dimensions

		A	B	C	D
Diameter	(in)	2.5	2.5	2.5	2.5
	(cm)	6.4	6.4	6.4	6.4
Length	(in)	10	20	30	40
	(cm)	25	51	76	102

Operating Conditions

Maximum Differential Pressure	Maximum Operating Temperature
60 psid (4 bar)	68 °F (20 °C)
30 psid (2 bar)	140 °F (60 °C)

Water Flow Rate



Cartridge Selection Guide

Media Type	Micron Rating* (fluid)	Series	Nominal Length (inch)	Cartridge Style	Gasket or O-Ring Material	Utilization
P	002	CV	B	7	03	S
Polypropylene	002 = 0.2 µm 004 = 0.4 µm 006 = 0.6 µm 008 = 0.8 µm 010 = 1.0 µm 020 = 2.0 µm 025 = 2.5 µm 050 = 5.0 µm 100 = 10.0 µm 300 = 30.0 µm 400 = 40.0 µm 500 = 50.0 µm	Clear Vantage	A = 10 B = 20 C = 30 D = 40	1 = DOE, 9.75 inch 1x = DOE, 9.75 inch with Extension 2 = DOE, 10 inch 3 = 222 O-Ring/Flat 7 = 226 O-Ring/Fin 7A = 226 O-Ring/Flat 8 = 222 O-Ring/Fin 9 = 222 O-Ring (Locking)/Fin	01 = EPR 03 = Silicone 04 = Nitrile 08 = Viton 11 = PTFE/ Viton other materials available	S = Steam Sterilizable N = Non-Steam Sterilizable

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