

Omni-Clear™ CV Series Filter Cartridges

High Efficiency Filter Cartridges Utilizing Polyethersulfone Membranes



Description

The Omni-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 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.

Omni-Clear CV pleated cartridges are manufactured with advanced hydrophilic polyethersulfone membranes and all polypropylene components. The PES membrane provides sharp particle cut-offs and is compatible with a broad range of chemical and pH extremes. Omni-Clear CV cartridges provide reliable particle retention and enhanced throughput for superior performance in critical applications.

Omni-Clear CV Series filter cartridges are constructed in a clean room environment, are manufactured using components that are FDA listed as being appropriate for food contact, and meet the requirements of USP Class VI test for plastics. These filter cartridges are available in a wide range of configurations to fit most commercially available filter housings.

Features and Benefits

- Absolute rated filters with high flow rates and a low pressure drop
- High efficiency filter cartridge, constructed of pleated polyethersulfone membrane, provides consistent particle retention and long on-stream life cycles.
- Removal ratings available from 0.1 to 0.65 µm.
- 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 and PES 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 tests for plastics.

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

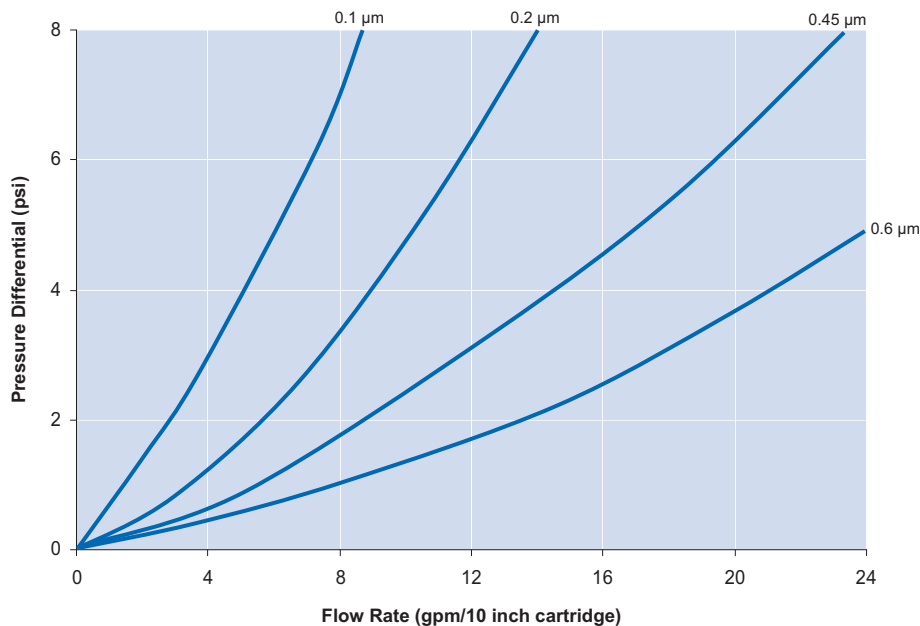
Operating Conditions

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

Nominal Dimensions

Length Designation	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

Water Flow Rate



Cartridge Selection Guide

Media Type	Micron Rating* (fluid)	Series	Layer	Nominal Length (in)	Cartridge Style	Gasket or O-Ring Material	Utilization
S	001	CV	1	B	7	03	S
S = Polyethersulfone Membrane	001 = 0.1 µm 002 = 0.2 µm 004 = 0.45 µm 006 = 0.65 µm	Clear Vantage	1 = Single	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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