FACT SHEET

aspire® Poly-Clear D CV Series Filter Cartridges

High Solids Loading All Polypropylene Pleated Cartridges

Moulded Gage Extruded Gage

This state-of-the-art advanced filtration innovation is the Poly-Clear D CV, a unique polypropylene depth filter that utilizes long strand small and large diameter fibers to provide a high solids loading, absolute-rated, pleated depth filter. This binder-free depth media is excellent for removing gels and offers more than twice the surface area compared with industry standard non-pleated depth filters.

The increased surface area provides higher flow rates at reduced pressure, resulting in increased filter life. Our 100% polypropylene construction provides an excellent range of chemical compatibility for your most demanding applications. All polypropylene construction materials are CFR 21 listed for direct food contact, which makes this filter ideal for a broad range of applications.

Benefits

- Absolute-rated media provides reliable, consistent and repeatable filtration
- Low pressure drop yields higher flow rates and reduced processing time
- 100% Polypropylene,FDA compliant with CFR 21
- Maximum pleat design for greater surface area, ensuring longer service life, fewer changeouts and reduced operating costs per cartridge
- Thermally bonded construction minimizes extractables, eliminating particle bypass

Applications

- **Cosmetics**
- **Electroplating**
- **Fermentation Processes**
- **Food and Beverage**
- **High Purity Water**
- **Pharmaceutical**
- **Photochemical**
- **RO Pre-filtration**

For more information,
contact your aspire® representative at
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11501 Outlook Street, Suite 100, Overland Park, KS 66211
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Materials of Construction

Filter Media	Polypropylene Microfiber Composite
Support Material	Polypropylene
Hardware	Polypropylene
Cage Core	Polypropylene
Internal Support Ring	316 Stainless Steel
Sealing	Thermal Bond
Seals	EPR, Buna-N, Silicone, Viton®, Teflon©/Viton©

Performance Specifications

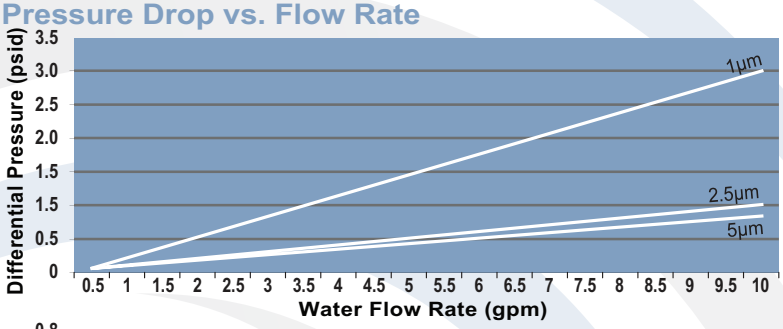
Retention Rating	1.0µm, 2.5µm, 5.0µm, 10.0µm, 15.0µm, 20.0µm, 25.0µm, 35.0µm, 70.0µm, 90.0µm, 120.0µm
Differential Pressure Forward	75 psid (5.1 bar) @ 68°F (20°C) 40 psid (2.8 bar) @ 150°F (65°C)
Maximum Operating Temperature	180°F (82°C) Continuous Duty

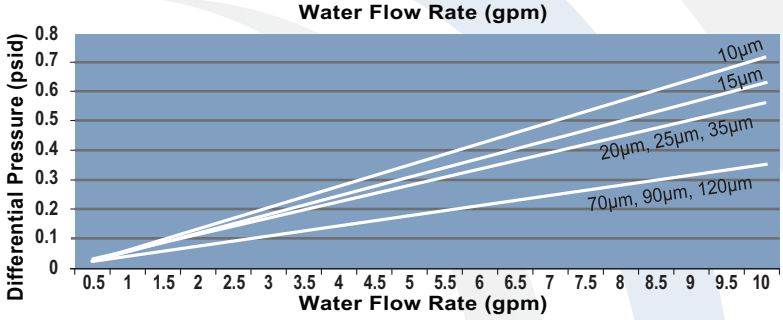
Toxicity	All components meet all USP XXII Class VI test for biological safety and FDA requirements for contact with food and beverage per 21CFR177.1520.

Dimensions (nominal)

Outside Diameter in (cm)	2.6 (6.5)
Lengths in (cm)	10 (25.4), 20 (50.8), 30 (76.2), 40 (102)

Pressure Drop vs. Flow Rate





POLY-CLEAR D	99.98% Efficiency
P010	1.0µm
P025	2.5µm
P050	5.0µm
P100	10.0µm
P150	15.0µm
P200	20.0µm
P250	25.0µm
P350	35.0µm
P700	70.0µm
P900	90.0µm
P1200	120.0µm

Cartridge Ordering Information

Media	Grade	Series	Cage Style	Type	Nominal Length	Cartridge Style	Gasket or O-Ring Material	Utilization
P	050	CV		D	20	3	03	N
P = Polypropylene	010 = 1.0µm	CV = Clear Vantage	Blank = Extruded	D = Depth	A = 10”	1 = DOE, 9 ¾”	01 = ERP	N = Non-Steam Sterilizable
	025 = 2.5µm		H = Molded		B = 20”	2 = DOE, 10”	03 = Silicone	S = Steam Sterilizable Steam Ring in Contact with Fluid
	050 = 5.0µm				C = 30”	3 = 222 O-Ring/Flat	04 = Nitrile	
	100 = 10.0µm				D = 40”	7 = 226 O-Ring/Fin	08 = Viton® *	
	150 = 15.0µm					7A = 222 O-Ring/Flat	11 = PTFE Viton®	
	200 = 20.0µm					8 = 222 O-Ring/Fin		
	250 = 25.0µm						*Non FDA	
	350 = 35.0µm							
	700 = 70.0µm							
	900 = 90.0µm							
	1200 = 120.0µm							

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