

Pall Corporation

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Profile® Star Filter Cartridges

Description

To keep pace with advancing technologies, Pall continues its tradition of filtration innovations with the Profile Star filter: a state-of-the-art concept for pleated polypropylene filters. The proven and successful Pall technique of varying the fiber diameter produces a pore-size gradient from coarse (upstream) to fine (downstream) while maintaining constant high void-volume throughout the depth of the filter medium. Profile Star filters offer longer life than many competitive pleated filters. Due to their proprietary construction, Profile Star filters deliver the benefits of both traditional pleated polypropylene and depth style filters — the ideal combination. The pressure drop and flow capability is comparable to competitive pleated polypropylene filters while also providing excellent removal of soft contaminants, such as gels, because of the depth of the medium. Profile Star filters are available in absolute removal ratings from 1.0 µm to 90 µm and in four nominal cartridge lengths:



- 254 mm (10 in.)
- 508 mm (20 in.)
- 762 mm (30 in.)
- 1016 mm (40 in.)

Their all-polypropylene construction makes them compatible with an extremely wide range of fluids. Cartridges are available in a P grade which is optimized for pharmaceutical applications.

Note: These filters are also available in Kleenpak Nova capsule format.

Features and Benefits

Pleated High-area

- Extraordinarily high dirt-holding capacity
- Long service life
- High flow-rates
- Excellent gel removal capability

Fixed Pore Structure

- No solids unloading under variations in flow or pressure differential
- Fibers will not migrate or become dislodged and contaminate process fluid

All-polypropylene Construction

- Extremely good chemical compatibility with a wide range of fluids
- Very low extractables
- No surfactants or binder resins are used during manufacture
- Continuous construction without side seam
- Media melt-sealed to solid components to ensure maximum integrity

Quality and Bio-Safety

Biological Tests

Meets USP Biological Reactivity, In Vivo, for Class VI-121 °C plastics

Effluent Quality Tests*

- Meets Cleanliness per USP Particulates in Injectables
- Non-Fiber-Releasing
- Non-Pyrogenic per USP Bacterial Endotoxins (< 0.25 EU/mL)</p>
- Meets Total Organic Carbon and Water Conductivity per USP Purified Water, pH per USP Sterile Purified Water

* Per lot sample soak or rinse-up flush aliquots.

Specifications

Materials of Construction

 Filter Medium, Cage, Core, End Caps and Adapters
 Polypropylene

 O-rings
 Silicone or Ethylene Propylene (EPDM) as standard

Maximum Operating Differential Pressures and Temperatures in Compatible Liquids¹

Maximum Operating Temperature	50 °C	80 °C
Maximum Differential Pressure	5.0 bar (72 psi)	3.4 bar (49 psi)

¹Fluids which do not soften, swell or adversely affect the filter or materials of construction.

Steam-sterilizing Temperature (in situ or Autoclave)

125 °C

Cartridge Style

AB Code 3 P grade and AB Code 7

Maximum Recommended Cumulative Steam Life at 125 °C

10 hours

Typical Flow Rates



Note: Differential pressures are for liquids with a viscosity of 1 cP. Differential pressures for liquids at other viscosities can be conservatively estimated by multiplying the indicated differential pressure by the viscosity in cP. For cartridges of 20 in. (508 mm), 30 in. (762 mm) and 40 in. (1016 mm) nominal length, divide the differential pressure by 2, 3 and 4 respectively. To obtain the total pressure drop of a complete filter assembly the housing pressure drop must be added. Please refer to the relevant housing literature or contact Pall

Ordering Information

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MCY 1000 Style Double open-ended 70 mm (2.75 in.) diameter element with gaskets on both ends. Sealing is assured by using a tie rod and seal nut.
MCY 1000

1 10 in. (254 mm) 2 20 in. (508 mm) 3 30 in. (762 mm)	A010 A015 A030 A050	1.0 μm ⁿ 1.5 μm ⁿ 3 μm 5 μm		Pharmaceutical* General Use	H4 J	Silicone Ethylene propylene	MCY1000 Style	AB S	
2 20 in. (508 mm) 3 30 in.	A030 A050	3 µm	* Pall pha		J	Ethylene propylene	Style	(Other mat	
(508 mm) 3 30 in.	A050			maceutical-grade		J Ethylene propylene	Style	(Other materials are	
3 30 in.		5 um		* Pall pharmaceutical-grade		Other materials available on request.		available on request) 70 mm 70 mm	
			filters are designed for use in conformance with CGMP in				70 mm diameter	diameter	70 mm diameter
(762 mm)	A100	10 µm	Manufac	turing, Processing,				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~
4 40 in.	A200	20 µm		or Holding of Drugs (10) and CGMP for			0		
(1016 mm)	A400	40 µm		Pharmaceuticals (11.72) including batch				00	
				certificate and full			Flat gasket	Code 7	Code 3
			a activity of					Double O-ring seal	

_		4		4		4		4	
Code	Nominal Length	Code	Removal Rating ^m	Code	Cartridge Style	Code	Filter Grade	Code	
1	1 10 in. (254 mm)	A010	1.0 µm ^a	3	Double 222 O-ring with flat end 70 mm (2.75 in.) diameter	Р	Pharmaceutical*	H4	
		A015	1.5 µm			Omit	General Use	J	
2	20 in. (508 mm)	A030	3 µm			* Pall phan	Other mat		
		A050	5 µm	7	Double 226 O-ring with bayonet lock and fin end. 70 mm (2.75 in.) diameter	and designed for use in conformations with CGMP in Manufacturing, Processing, Packing or Holding of Drugs (21C/F2210) and GGMP for finished Pharmacouricals (21C/F2211.22) including batch			
3	30 in. (762 mm)	A100	10 µm						
4	40 in. (1016 mm)	A200	20 µm						
		A400	40 µm						
	rating in this	0 O					ertificate and full		

publication means the value in microns at wh

the modified OSU-F2 gives a Beta value of

Extrapolated vi

If the above table does not display clearly in your browser, you may download it here for easier viewing.

Ethylene propyl

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