

Profile® Coreless Filter Elements For High Capacity Liquid Filtration

Profile Coreless filters are large diameter cartridges designed for cost-effective, highly efficient clarification and particle filtration in high flow rate food and beverage applications.

Description

Profile Coreless filter elements combine Pall proven Profile depth filter technology with a design that eliminates the core to provide a convenient, cost effective and environmentally-friendly solution for liquid clarification applications.

Constructed of melt blown polypropylene media, Profile Coreless elements feature a fixed fiber matrix with graded pore structure. With coarsest pore sizes in the outermost layers and decreasing pore sizes towards the innermost layers of the cartridge, pre-filtration and fine filtration can occur within the same cartridge. These features are the key to the superior removal performance and high contaminant holding capacity of these filters.

The large diameter filter elements enable smaller sizing for a given flow rate than standard melt blown cartridges. Filter vessels are correspondingly smaller, resulting in lower capital and installation costs, as well as reduced operating costs.

The Profile Coreless filter element fits over a 316L stainless steel core, which is retained inside the filter housing. At change-out, the element is simply pulled up over the core, which is then ready to accept the replacement element.

Features and Benefits

Features	Benefits
Large diameter cartridge utilizing high void volume, low differential pressure media	<ul style="list-style-type: none"> • Smaller systems with low capital and installation costs, and reduced operating costs
Continuous graded pore structure with pre-filter section and high performance inner section	<ul style="list-style-type: none"> • Superior filtrate quality • High contaminant holding capacity • Long service life
Highly stable all-polypropylene structure with fixed fiber matrix and no adhesives or surfactants	<ul style="list-style-type: none"> • Consistent filtrate quality • Wide chemical compatibility
Separate stainless steel core retained in filter housing	<ul style="list-style-type: none"> • Ease of fitment • Less waste, lower disposal costs



Profile Coreless Filter Element

Materials of Construction

Filter Medium	Polypropylene
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Quality

- Cartridges produced in a controlled environment
- Manufactured according to ISO 9001:2008 certified Quality Manufacturing System

Food Contact Compliance

Please refer to the Pall website <http://www.pall.com/foodandbev> for a Declaration of Compliance to specific national legislation and/or regional regulatory requirements for food contact use.

Technical Information

The technical information provided is based on controlled laboratory tests done on typical production filters at the conditions described, unless otherwise indicated. Actual operating conditions may affect the filter's performance.

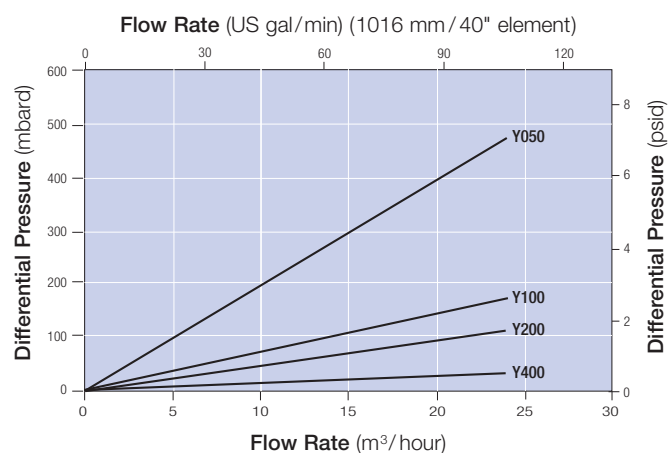
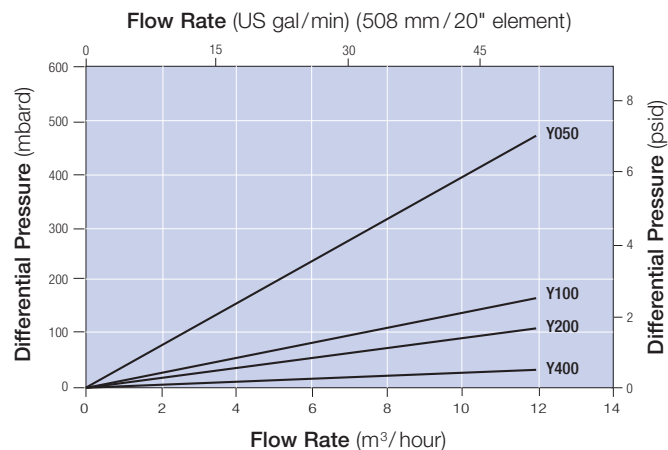
Operating Characteristics in Compatible Fluids¹

Maximum Differential Pressure ²	Operating Temperature
4.0 bar (58 psid)	32 °C (90 °F)
1.0 bar (14.5 psid)	82 °C (180 °F)

¹ Fluids which do not swell, soften or adversely affect any of the filter components

² In forward (out to in) flow direction.

Typical Flow Rates³



Profile Coreless filters (1016 mm / 40") are generally recommended for water flow rates up to 20 m³/hour (88 US gal/min). Please contact your Pall representative for individual fluid applications and product options more suitable to higher flow rates.

Ordering Information

This information is a guide to the part numbering structure and possible options. For availability of specific options, housing and core assembly details, please contact Pall.

Element Part Number: **E60** **W**
Table 1 Table 2

Example Part Number: **E604Y400W**

See bold reference code in tables.

Table 1: Nominal Length

Code	Description
2	508 mm (20")
4	1016 mm (40")

Table 2: Removal Rating⁴

Code	Rating (µm) at 99.98% efficiency (B-5000)
Y050	6
Y100	10
Y200	20
Y400	40

³ Typical initial clean delta p, for 508 mm (20") and 1016 mm (40") elements, water at 20 °C (68 °F). For assistance in filter assembly sizing, especially for fluids with a viscosity greater than 1 centipoise, contact your Pall representative.

⁴ Profile Coreless filter cartridge liquid retention ratings are based on a modified OSU-F2 single pass test in an aqueous medium.



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Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

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