

## Profile® Coreless Filter Elements

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

The large diameter filter element features low differential pressure polypropylene, nylon or polyphenylene sulphide (PPS) medium, meaning fewer elements are required for a given flow rate. Filter vessels are correspondingly smaller, resulting in lower capital and installation costs, as well as reduced operating costs.

### Convenience

The Profile Coreless filter element fits over a 316L stainless steel core, which is retained inside the filter housing. At changeout, the element is simply pulled up over the core which is then ready to accept the replacement element. By retaining the metallic core, the Coreless design significantly reduces the amount of waste material to dispose of, providing a lower cost, more environmentally-friendly option.

### Efficiency

Profile Coreless filter elements use the advanced and proven benefits of Profile medium's unique depth filter technology. The combination of a continuous graded pore prefilter section and a high performance inner section is an ideal combination, giving low clean differential pressure, high liquid flow rates and long service life.

### Quality

The Profile Coreless filter element is manufactured to a very high standard of quality assurance and cleanliness, and in accordance with BS EN ISO 9001:2008.

### Materials of Construction

Filter Element	Polypropylene, Nylon or Polyphenylene Sulphide (PPS)
Core Assembly	316L Stainless Steel



Profile Coreless Filter Element

### Features

- Large diameter cartridge utilizing low differential pressure media.
- Separate stainless steel core retained in the filter housing.
- Proven depth filter technology / continuous graded pore structure.
- Polypropylene, nylon or polyphenylene sulphide (PPS) filter media.
- Fully disposable design.

### Benefits

- Smaller systems with low capital cost, low installation costs and reduced operating costs.
- Providing high liquid flow rate capability, ease of fitment, low operating costs and increased cost efficiency.
- Reliable, consistent and verifiable filtration performance.
- Compatible with a wide range of applications.
- Less waste materials, lower cost of disposal and more environmentally-friendly.

# Technical Information

## Operating Characteristics in Compatible Fluids<sup>1</sup>

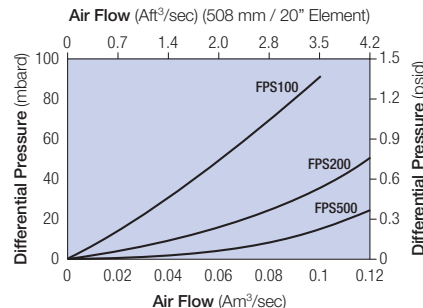
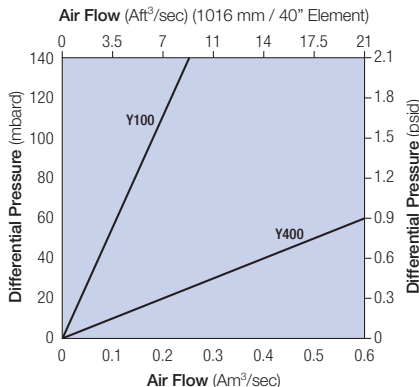
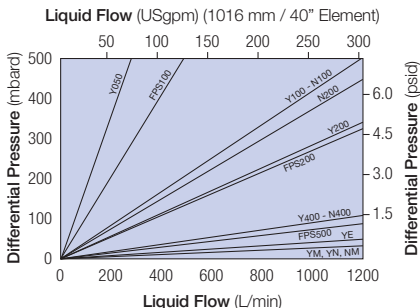
Maximum Differential Pressure	Operating Temperature		
	Polypropylene	Nylon	Polyphenylene Sulphide (PPS)
4.0 bard (58 psid)	30 °C (86 °F)	32 °C (89.6 °F)	20 °C (68 °F)
1.0 bard (14.5 psid)	82 °C (179.6 °F)	130 °C (266 °F)	204 °C (400 °F)

<sup>1</sup> Compatible fluids are defined as those which do not swell, soften or attack any of the filter components

## Core Assembly Seals (removable option only)

Seal Material
Ethylene Propylene Rubber (EPR)
Fluorocarbon Elastomer
FEP encapsulated Fluorocarbon Elastomer
Nitrile

## Flow Rates



\* For clean water at ambient temperature for liquids of viscosity other than 1cP multiply the  $\Delta P$  by the viscosity in cP.

\* For air at viscosity of 0.018cP. Correction for other gases: Use reading from Graph x

$$\frac{\text{Gas Viscosity}}{0.018\text{cP (Air)}} = \text{Actual Pressure Drop}$$

## Ordering Information

This information is a guide to the part number structure and possible options. For availability of specific options, please contact Pall. Refer to Pall for housing details.

Element Part Number: **E 60**  Table 1  Table 2

Core Assembly (removable option) Part Number: **EHS 60**  Table 1  Table 3

Table 1: Nominal Length

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

Table 2: Media Options

	Polypropylene <sup>2</sup>	Nylon <sup>2</sup>	Polyphenylene <sup>3</sup> Sulphide (PPS)	Removal Rating in Liquids ( $\mu\text{m}$ )	Removal Rating in Gases at 0.3 $\mu\text{m}$ <sup>4</sup>
Y050	—	—	—	5	—
Y100	—	N100	FPS100	10	99.997 % (Y100) 99.999 % (FPS100)
Y200	—	N200	FPS200	20	—
Y400	—	N400	—	40	99.995 % (Y400)
—	—	—	FPS500	50	99.869 % (FPS500)
YE <sup>5</sup>	—	—	—	Coarse grade media for use in E-coat paint baths	
YM <sup>5</sup>	—	NM	—	Coarse grade media for use in mica paint applications	
YN <sup>5</sup>	—	—	—	Coarse grade media for use in mica paint applications	

<sup>2</sup> Beta 5000, <sup>3</sup> Beta 1000 efficiency rating, <sup>4</sup> Determined in laboratory trials using sodium chloride aerosols at 300  $\text{Sm}^3 / \text{hr}$ , <sup>5</sup> Profile Coreless paint application filter elements are not given removal ratings.

## Replacement Core Assembly Seals

O-ring Seal	Part Number
Ethylene Propylene Rubber (EPR)	CA53418 and ORJPW-111P
Fluorocarbon Elastomer	LS00372 and LS00429
FEP encapsulated Fluorocarbon Elastomer	CC62592 and CC62591
Nitrile	LS0043 and LS543



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