

Purtrex PX Depth Filters

FACT SHEET



Melt blown depth filter for general industrial use

Features & Benefits

- Exceptional value for general applications
- Progressive graded density captures particles throughout the entire filter
- Long life and lower change-out frequency
- Exceptional dirt holding capacity
- Pure polypropylene construction
- No wetting agents, solvents, antistatic agents, or binders
- Made with 90% to 100% pre-consumer recycled polypropylene material to reduce landfill waste
- Meets FDA requirements for food and beverage contact
- Made in the USA



Specifications

Table 2: Specifications and performance information

Ratings	1, 3, 5, 10, 20, 30, 50, 75 microns (nominal)
Inner Diameter	1.0 in (2.5 cm)
Outer Diameter	2.5 in (6.4 cm)
Lengths	9 ¾ in (24.5 cm) 10 in (25.4 cm) 19 ½ in (49.5 cm) 20 in (50.8 cm) 29 ¼ in (74.3 cm) 30 in (76.2 cm) 40 in (101.6 cm) 50 in (127.06 cm)
Materials of Construction	
Filter Media	Polypropylene
Adaptors	Polypropylene
Elastomer	Buna, EPDM, Silicone, Viton ¹ Santoprene ² (flat gasket only)
Performance Conditions	
Maximum pressure drop: 35 psid (2.4 bar) @ 100°F (38°C) Recommended change-out pressure drop: 20 psid (1.4 bar) @ 77°F (25°C)	

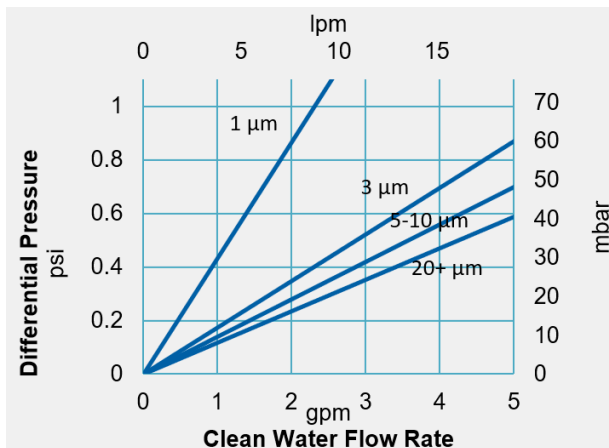
Typical Applications

- General industrial use
- Potable water filtration
- Chemical filtration
- Plating baths
- Amine filtration

Efficiency Information

Table 1: Removal efficiency based on a modified ASTM 795 test procedure

Micron Rating	Removal Rating (µm) at various efficiencies		
	90.0%	99.0%	99.9%
1 µm	Efficiency of nominal filters varies by application. See note for information on nominal filter efficiency ³		
3 µm			
5 µm			
10 µm			
20+ µm			



Graph 1: Purtrex PX clean water flow rate based on a 10 in length filter

Quality

Purtrex PX filters are manufactured under a quality management system that has been certified to meet ISO 9001 standards. Each filter is assigned a lot code to ensure traceability of the data and materials used in the manufacturing process.

Certifications

- U.S. FDA 21CFR 177.1520 food contact requirements
- Article 3 of the EU Framework Regulation No. 1935/2004/EC safety requirements
- EU Plastics Regulation No. 10/2011 (may be used as intended in compliant EU Member states)
- USP class VI-121°C Plastics criteria
- NSF 61 criteria
- ISO 9001 criteria

Veolia filter cartridges are designed and manufactured for resistance to a wide range of chemical solutions. Conditions will vary with each application and users should carefully verify chemical compatibility. Please contact your Veolia representative for more information.

Ordering Information

Replace the numbers with your desired values from each column. Columns 3, 4, and 5 are optional depending on the desired configuration. Use “-B” if you would like bulk packaging.

Example: PX 05-40-EHB

PX 1 - 2 - 3 4 5 - B

Table 3: Ordering Information

	1	2	3	4	5
Type	Micron Rating (nominal)	Cartridge Length	End #1 Adapter	End #2 Adapter	Elastomer Material
PX	01 = 1 µm 03 = 3 µm 05 = 5 µm 10 = 10 µm 20 = 20 µm 30 = 30 µm 50 = 50 µm 75 = 75 µm	9 ¾ in (24.5 cm) 10 in (25.4 cm) 19½ in (49.5 cm) 20 in (50.8 cm) 29¼ in (74.3 cm) 30 in (76.2 cm) 40 in (101.6 cm) 50 in (152.4 cm)	E = 222 O-Ring  L = Extended Core  X = Standard Plain End (no gasket)  Y = Flat Gasket 	H = Fin  K = Self Seal Spring  S = Solid End  Y = Flat gasket 	B = Buna E = EPDM P = Santoprene ² (flat gasket only) S = Silicone V = Viton ¹

(1) Viton (registered mark of The Chemours Company)

(2) Santoprene is licensed to Advanced Elastomer Systems, L.P.

(3) Absolute-rated filters have been designed and tested to reject at least 99% of particles of the listed micron size. Nominal-rated filters have a wider distribution of pore sizes and therefore a wider distribution of rejected particle sizes. The nominal rating is primarily used to compare efficiencies across a filter family and between filter manufacturers. Efficiency is dependent on particle shape, size, composition, application, and testing protocol.