

# Purtrex\* Depth Cartridge Filters



Figure 1: Purtrex Depth Cartridge Filters

## Description and Use

The Purtrex depth filter (Figure 1), is an exceptional value for general applications where long life, high purity and low change-out frequency are required. Produced through GE’s patented melt blown micro-fiber technology, Purtrex is a 100% pure polypropylene depth filter with exceptional dirt-holding capacity.

Purtrex’ true-graded density filter matrix (lower density at the surface of the filter with progressively higher density toward the center) captures particles throughout the entire filter depth. This translates to longer life and fewer change-outs than existing string-wound or resin-bonded filters.

Purtrex contains no wetting agents, solvents, anti-static agents or binders, and meets the requirements of the FDA for food and beverage contact. The filter incinerates to trace ash for easy disposal.

## Typical Applications

- Potable water filtration
- Chemical filtration - wide chemical compatibility
- Plating baths
- Amine Filtration
- Meets FDA compliance for food and beverage contact

## General Properties

Purtrex filters are available the following pore size nominal micron ratings: 1, 3, 5, 10, 20, 30, 50 and 75 microns. Tables 1, 2, 3 and 4 further details on materials of construction, dimensions, flow performance and ordering information.

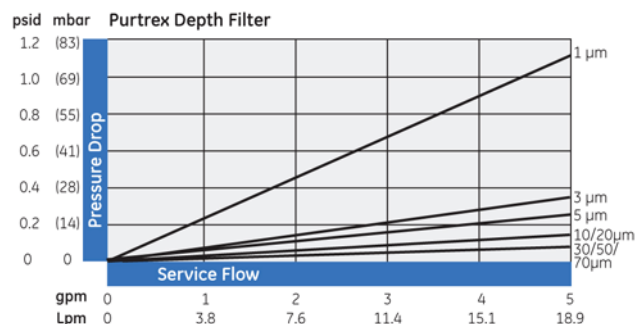
Table 1: Materials of Construction

Description	Material of Construction
Filtration Media	Polypropylene
End caps and Adapters	Polypropylene

Table 2: Dimensions

Description	Material of Construction
Nominal Outside Diameter	2.50" (6.4 cm)
Nominal Inside Diameter	1" (2.5 cm)

Table 3: Flow Performance in Clean Water<sup>1</sup>



<sup>1</sup> Data based on 10" length filter



## Additional Information

Purtrex cartridge filters are made from thermally bonded fibers of polypropylene. GE certifies that it uses no resin binders, lubricants, antistatic or release agents, in the manufacture of these filter cartridges. The resin used for manufacturing the filter media meet the food contact requirements of the U.S. FDA 21CFR 177.1520. Purtrex cartridge filters meet the safety requirements of Article 3 of the EU Framework Regulation No. 1935/2004/EC and may be used as intended in all of the EU Member states in full compliance with the EU Plastics Regulation No. 10/2011. Purtrex cartridge filters meet the criteria for USP class VI-121'C Plastics.

GE 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 GE representative for more information.

The Purtrex element is tested and certified by NSF International against NSF/ANSI Standard 42 for material requirements only.

## Ordering Information

To configure a standard Purtrex filter with no adapters on either end, select one item from each of the first three columns. Your model number may look like this: PX05-29 1/4.

To order Purtrex filters with end adapters, add one item from the last 2 columns to your filter selections (use all 6 columns). Your model number may look like this: PX05-29 1/4 YYP (see example below) or PX05-29 1/4 XK.

**Table 4: Ordering Information**

Type	Nominal Micron Rating	Cartridge Length	End #1 Adapter	End #2 Adapter	Elastomer Material
PX	01 = 1 µm	9 ¾ in (24.8 cm)	Y = 1 inch (2,54 cm)	Y = 1 inch (2,54 cm)	Gasket
	03 = 3 µm <sup>2</sup>	9 7/8 in (25.1 cm)	Open End Gasket	Open End Gasket	P = Santoprene <sup>2</sup> (Gasket Only)
	05 = 5 µm	10 in (25.4 cm)	L = Extended Core	K = Self Seal Spring	
	10 = 10 µm	19 ½ in (49.5 cm)	E = 222 O-Ring	H = Fin Adapter	
	20 = 20 µm	20 in (50.8 cm)	X = Standard Plain End	S = Solid End	<b>O-Rings</b>
	30 = 30 µm	29 ¾ in (74.3 cm)			S = Silicone
	50 = 50 µm	30 in (76 cm)			E = EPDM
	75 = 75 µm	40 in (102 cm)			
		50 in (127 cm)			

<sup>2</sup> Santoprene is licensed to Advanced Elastomer Systems, L.P.

