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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 microfiber 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, antistatic 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.

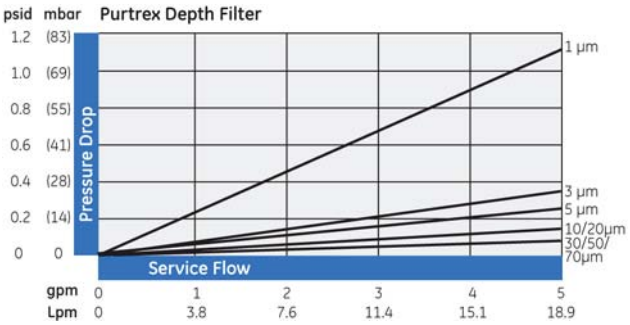
Table 1: Materials of Construction

Description	Material of Construction
Filtration Media	Polypropylene
Endcaps 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[1]



Additional Information

Purtrex Depth cartridge filters are made from thermally-bonded fibers of polypropylene. GE certifies that it uses no resin binders, lubricants, antistatic or release agents or other additives in the manufacture of these cartridges, and that the resin used for manufacturing the filter media meets the food contact requirements of the U.S. FDA 21 CFR regulations. When required, specify only FDA compliant sealing materials and end adapters.

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 distributor for more information.

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 03 = 3 µm[4] 05 = 5 µm 10 = 10 µm 20 = 20 µm 30 = 30 µm 50 = 50 µm 75 = 75 µm	9 ¾ in (24.8 cm) 9 ⅞ in (25.1 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 cm) 40 in (102 cm) 50 in (127 cm)	Y = 1 inch (2,54 cm) Open End Gasket L = Extended Core E = 222 O-Ring X = Standard Plain End	Y = 1 inch (2,54 cm) Open End Gasket K = Self Seal Spring H = Fin Adapter S = Solid End	Gasket P = Santoprene[2] (Gasket Only) **O-Rings** S = Silicone E = EPDM

[2] Santoprene is licensed to Advanced Elastomer Systems, L.P.