Hytrex* depth cartridge filters

Figure 1: Hytrex Depth Cartridge Filters

description and use

The purity and reliability of Hytrex* cartridge filters (Figure 1) ensure consistent results, time after time. Thermally bonded micro fibers create a strong secure cartridge that traps particles throughout its depth. Hytrex combines efficiency, long life and purity to create a high performance depth filter.

- Pure polypropylene construction
- Fast rinse-up in high purity applications
- Meets the FDA requirement for food and beverage use
- Wide chemical compatibility
- Automated packaging for a clean finished product
- NSF Standard 42 certified
- Patented, continuous process assures consistent product performance. Lot-to-lot, order-to-order, strict quality control assures repeatability and reliability.

typical applications

- High Purity Chemicals
- Bottled Water
- Pre-treatment for Reverse Osmosis
- Oil & Gas
- Electronics

general properties

Hytrex Filters are available in a wide range of nominal pore sizes: 1, 2, 5, 10, 20, 30, 50, 75 and 100 microns. Tables 1, 2, 3 and 4 provide additional details on filter construction and performance.

Table 1: Materials of Construction

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

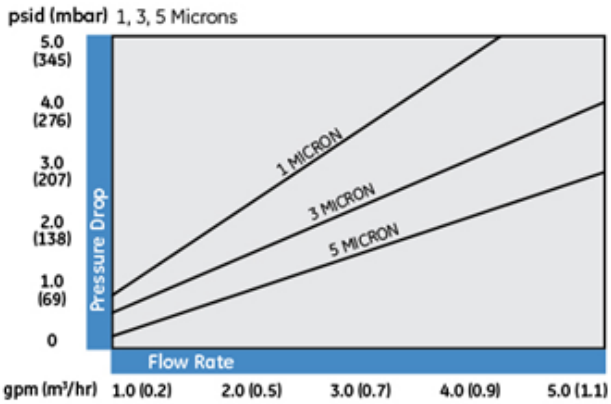
Table 2: Dimensions

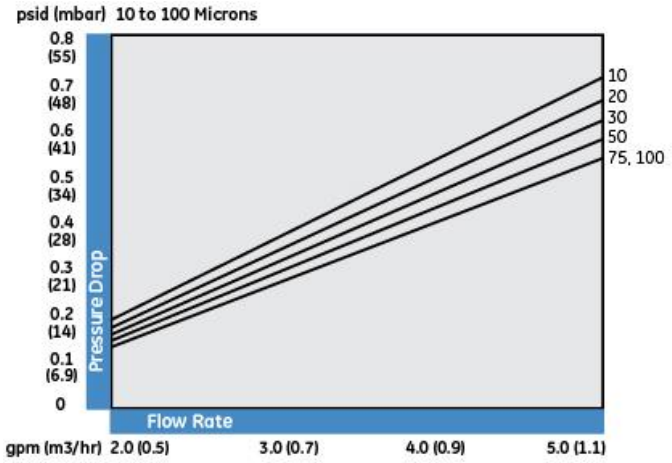
Description	Dimensions
Nominal Outside Diameter	2.5 inch (6.4 cm)
Nominal Inside Diameter	1 inch (2.5 cm)

Table 3: Operating Limits

Description	Operating Limits
Maximum Differential Pressure	35psi (2.4bar) at ≤100°F (38°C)
Maximum Temperature	160°F (71°C) at ≤15psid (1.0bar)
Recommended Maximum Water Flow	5 gpm (19L/min) per 10-inch length

Table 4: Flow Performance in Clean Water[1]





[1] Per 10-inch length of filter

graded density design for high dirt holding capacity

- True-graded density which captures particles throughout entire filter depth
- High dirt-holding capacity for longer life and fewer change-outs and lower costs
- Lower density at the surface and progressively higher density toward the center
- Improved resistance to surface blinding

wide range of lengths & adapters

- Standard lengths to fit most housings—custom lengths can also be provided
- Wide range of end-adapters including gaskets, extended cores and patented self-seal polypropylene springs
- See Table 5 for specific ordering information.

additional information

Hytrex cartridge filters are made from thermally bonded fibers of polypropylene - no resin binders, lubricants, antistatic agents or release agents are used.

The polypropylene material used for manufacturing the Hytrex cartridge filters meets the U.S. FDA requirements for food contact per 21CFR177.1520.

Hytrex 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.

Hytrex cartridge filters meet the criteria for USP Class VI-121°C Plastics.

Hytrex cartridge filters are designed and manufactured for resistance to a wide range of chemicals; however, users should carefully verify chemical compatibility in each application.

Hytrex cartridge filters are tested and certified by NSF International against NSF/ANSI Standard 42 for material requirements only.

Table 5: Ordering Information

To order Hytrex filters with plain flat ends, select one item from each of the first three columns. Your model number will look like this: GX05-29 1/4. To order Hytrex filters with end adapters, make one selection from all applicable columns. Your model number will look like this: GX01-20-YYP, GX03-30-XK or GX05-40-EHB.

Type	Micron Rating –	Cartridge Length –	End #1 Adapter	End #2 Adapter	Elastomer Gaskets
GX	01 = 1 µm	4 7/8 inch (12.4 cm)	Y = 1 inch (2.54 cm) Open End Gasket	Y = 1 inch (2.54 cm) Open End Gasket	P = Santoprene[2] (Gasket Only)
	03 = 3 µm	9 3/4 inch (24.8 cm)	L = Extended Core	K = Self Seal Spring	
	05 = 5 µm	9 7/8 inch (25.1 cm)	E = 222 O-Ring	H = Fin	**O-Rings**
	10 = 10 µm	10 inch (25.4 cm)	F = 226 O-Ring	S = Solid End	B = BUNA
	20 = 20 µm	19 1/2 inch (49.5 cm)	X = Plain End (No Gasket)	X = Plain End (No Gasket)	E = EPDM
	30 = 30 µm	20 inch (50.8 cm)			S = Silicone
	50 = 50 µm	29 1/4 inch (74.3 cm)			V = Viton[3]
	75 = 75 µm	30 inch (76 cm)			
	100 = 100 µm	40 inch (102 cm)			
		50 inch (127 cm)			

[2] Santoprene is licensed to Advanced Elastomer Systems, L.P. [3] Viton is a registered trademark of DuPont.