

# 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 requirement of the FDA Title 21 of the Code of Federal Regulations 174.5 and relevant subparts of 177
- Wide chemical compatibility
- Automated packaging for a clean finished product
- NSF Standard 42 certified

### Typical Applications

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

### Consistent Performance

Patented, continuous process assures consistent product performance. Lot-to-lot, order-to-order, strict quality control assures repeatability. Figures 2 and 3 give greater detail of the high flow rate at low pressure drop for the various sizes of Hytrex filters.

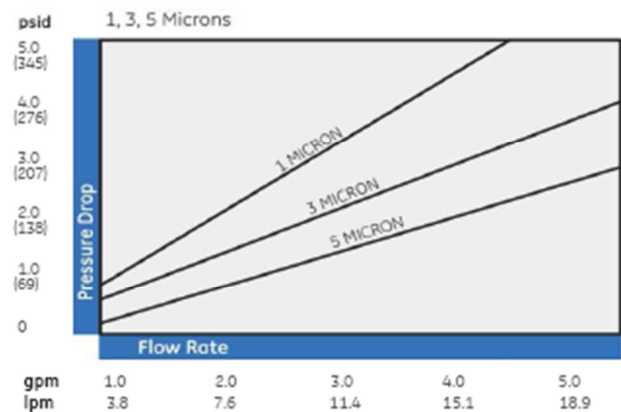


Figure 2: High Flow Rate at Low Pressure Drop<sup>1</sup>

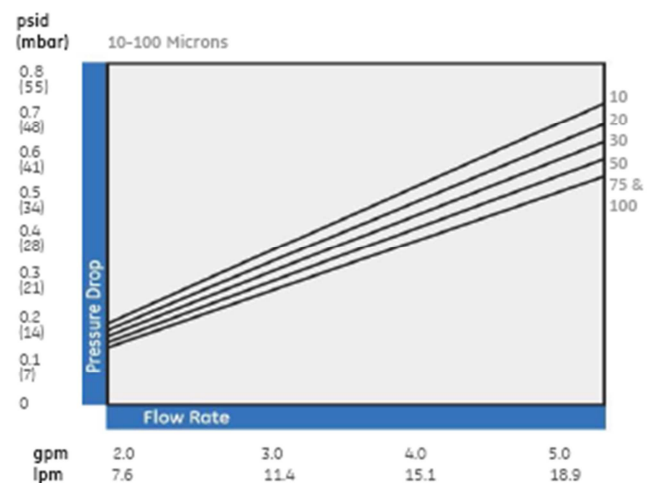


Figure 3: High Flow Rate at Low Pressure Drop<sup>1</sup>

<sup>1</sup> Data based on 10" length filter with clean water.



## Operating Pressure & Temperature

- Maximum operating differential pressure: 35 psid @ 100°F (38°C)
- Maximum operating temperature: 160°F (71°C) @ 15 psid (103.4 kPa)

## High Dirt Holding Capacity

- True-graded density captures particles throughout entire filter depth
- High dirt-holding capacity means longer life and fewer changeouts which translates to money saved
- Lower density at the surface of the filter with progressively higher density toward the center
- No surface blinding, which reduces flow and increases filter changeouts

## Wide Range of Lengths & Adapters

- Standard lengths fit most housings—custom lengths can also be provided
- Wide range of polypropylene end-adapters including gaskets, extended cores and
- GE patented self-seal polypropylene springs
- If required, specify FDA-compliant sealing materials and end adapters
- Table 1 details specific ordering information.

## Material and FDA Compliance

Hytrex cartridge filters are made from thermally-welded blown microfibers of polypropylene. GE certifies that the resin used for manufacturing the filter media of this product meets the requirements of the Food and Drug Administration (FDA) Title 21 of the Code of Federal Regulations (CFR) 174.5 and relevant subparts of 177. If required, specify FDA-compliant sealing materials and end adapters.

## Important Notice to User

The following is made in lieu of all other warranties expressed or implied. Manufacturer's and Seller's only obligation shall be to issue credit against the purchase or replacement of the product proved to be defective in material or workmanship. Neither Manufacturer nor Seller shall be liable for any injury, loss or damage, direct or indirect, special or consequential, arising out of the use of, misuse, or the inability to use such product. The information contained herein is based on technical data and tests which we believe to be reliable and is intended for use by persons having technical skill at their discretion and risk. Since conditions of use are outside GE control, we can assume no liability whatsoever for results obtained or damages incurred through the application of the data presented. This information is not intended as a license to operate under, or a recommendation to infringe upon, any patent of GE or others covering any material or use. The foregoing may not be altered except by a written agreement signed by officers of the Manufacturer.

**Table 1: Ordering Information**

If you are ordering Hytrex filters with standard ends (with no adapter on either end), select one designation from each of the first three columns. Your Product Order Number will look like this: GX05-29 ¼. If you are ordering Hytrex with one or more end adapters, select designations from all applicable columns. Your Product Order Number will look like this: GX05-29 ¼ WP or GX05-29 ¼ XX.

| Type                    | Micron Rating          | Cartridge Length     | End #1 Adapter            | End #2 Adapter            | Gasket Material                              |
|-------------------------|------------------------|----------------------|---------------------------|---------------------------|--|
| GX                      | 01 = 1 µm              | 4 7/8 inch (12.4 cm) | Y = 1 inch (2.54 cm)      | Y = 1 inch (2.54 cm)      | P = Santoprene <sup>2</sup><br>(Gasket Only) |
|                         | 03 = 3 µm <sup>4</sup> | 9 ¼ inch (24.8 cm)   | Open End Gasket           | Open End Gasket           |  |
|                         | 05 = 5 µm              | 9 7/8 inch (25.1 cm) | L = Extended Core         | K = Self Seal Spring      |  |
|                         | 10 = 10 µm             | 10 inch (25.4 cm)    | E = 222 O-Ring            | H = Fin                   | <b>O-Rings</b>                               |
|                         | 20 = 20 µm             | 19 ½ inch (49.5 cm)  | X = Standard Hytrex Plain | S = Solid End             | S = Silicone                                 |
|                         | 30 = 30 µm             | 20 inch (50.8 cm)    | End (No Gasket)           | X = Standard Hytrex Plain | E = EPDM                                     |
| ID= 1 inch<br>(2.5 cm)  | 50 = 50 µm             | 29 ¼ inch (74.3 cm)  |                           | End (No Gasket)           | V = Viton <sup>3</sup>                       |
| OD=2.5 inch<br>(6.4 cm) | 75 = 75 µm             | 30 inch (76 cm)      |                           |                           | B = BUNA                                     |
|                         | 100 = 100 µm           | 40 inch (102 cm)     |                           |                           |  |
|                         |                        | 50 inch (127 cm)     |                           |                           |  |

<sup>2</sup> Santoprene is licensed to Advanced Elastomer Systems, L.P. <sup>3</sup> Viton is a registered trademark of DuPont.

