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HIE Series Filter Cartridges

High Surface Area Pleated Cartridges from Filtrafine to Retrofit Bag Filters.

- High Flow and Contaminant Holding Capacity
- Proprietary Filter Media Produced for Filtrafine Delivers Highly Consistent Performance
- Fixed Pore Construction – Resists Contaminant Unloading at Maximum Differential Pressure
- Inside-Out Flow Traps Dirt Inside the Cartridge Eliminating Downstream Contamination During Change Out.
- Available to Fit Most Size 1 and Size 2 Bag Housings with No Hardware Changes
- Polypropylene Construction – Inert to Many Process Fluids Ensuring Wide Chemical Compatibility
- Various Gasket/O-ring Materials – Compatible with Many Fluids
- Cartridges Can Be Manufactured to Customized Lengths to Retrofit Unique Bag Lengths
- Manufactured in a Class 1,000 Clean Room
- Manufactured Under a ISO 9001 Quality System



Product Specifications

Materials of Construction:

- | | |
|---------------------|--|
| • Filter Media: | HIEA: High Efficiency Melt blown Polypropylene
HIEP: Proprietary Melt Blown Polypropylene |
| • Hardware: | Polypropylene |
| • Sealing: | Bond Thermal |
| • Support Material: | Polypropylene |
| • O-rings: | EPDM, Silicone, Buna-N, Viton, Teflon Encapsulated Viton |

Dimensions (nominal):

- | | |
|---------------------|----------------------------------|
| • Outside Diameter: | 6" (152mm) |
| • Lengths: | Size 1 (275mm)
Size 2 (640mm) |

Performance Specifications

- | | |
|----------------------|---|
| • Retention Ratings: | HEIP: 1, 3, 5, 10, 20, 40, 70, 100 µm
HEIA: 1, 3, 5, 10, 20, 40, µm absolute |
|----------------------|---|

Operating Conditions:

Maximum Operating Temperature: to 140° F (60°C)

Recommended Change Out Differential Pressure: 21 psid (1.5 bar) @ up to 130°F (54°C)

FDA Listed Materials:

Manufactured from Materials, Which are FDA Listed for Food Contact Applications in Title 21 of the U.S. Code of Federal Regulations.

Toxicity:

All Polypropylene Components Meet the Specifications for Biological Safety as per the USP for Class VI-121°C Plastics (Gaskets/O-rings Excluded).

Purity:

Cartridges Do Not Use Surfactants, Binders, and Adhesives.

Liquid Flow Rate vs. Initial Clean Pressure Drop

HIEP Filter Cartridges

Retention Rating um	Size #1 Cartridges Initial Pressure Drop (psid/gpm)/(mbar/lpm)	Size #2 Cartridges Initial Pressure Drop (psid/gpm)/(mbar/lpm)
1	0.044/ 0.801	0.022/0.401
3	0.018/0.328	0.009/0.164
5	0.008/0.146	0.004/0.073
10	0.007/0.127	0.002/0.036
20	0.003/0.055	0.001/0.0182
40	0.001/0.018	0.001/0.0182
70	0.001/0.018	0.001/0.0182
100	0.001/0.018	0.001/0.0182

HIEA Filter Cartridges

Retention Rating um	Size #1 Cartridges Initial Pressure Drop (psid/gpm)/(mbar/lpm)	Size #2 Cartridges Initial Pressure Drop (psid/gpm)/(mbar/lpm)
1	0.051/0.928	0.022/0.401
3	0.020/0.364	0.009/0.164
5	0.012/0.218	0.005/0.091
10	0.008/0.146	0.003/0.055
20	0.005/0.091	0.002/0.036
40	0.004/0.073	0.002/0.036

Ordering Information

HIE Product Name	P Material	5- Retention Rating	1- Cartridge Size	E- Materials of O-rings
High Efficiency	P: PP Pleated A: Depth PP	See Tables	1=01 2=02	E = EPDM V = VITON S= Silicon F = Teflon Encapsulated Viton