

Filtrafine HIE Series Filter Cartridges

High Surface Area Pleated Cartridges from Filtrafine to Retrofit Bag Filters

- High Flow and High 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
- Innovative Sealing Device Adjusts to Fit in Most Bag Filter Housings
- Polypropylene Construction – Inert to Many Process Fluids Ensuring Wide Chemical Compatibility
- Various Gasket/O-ring Materials – Compatible with Many Fluids
- Short Length Option to Accommodate Shorter Baskets
- 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: Thermal Bond
- Support Material: Polypropylene
- O-rings: Silicone, EPDM, Buna-N, Viton, Teflon Encapsulated Viton
- Fixed Flange: Fixed Flange, Please Contact your Filtrafine Representative for Additional Assistance

Dimensions (nominal):

- Outside Diameter: 6" (152mm)
- Lengths: Size 1 (275mm) - Standard, Short
Size 2 (640mm) - Standard, Short, Extra Short

Performance Specifications

Retention Ratings: HEIP: 1, 3, 5, 10, 20, 40, 70, 100µm
HEIA: 1, 3, 5, 10, 20, 40µm Absolute

Operating Conditions:

- Maximum Operating Temperature: 60°C
- Recommended Change Out Differential Pressure: 21 psid (1.5 bar)

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 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 (Absolute) 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	1, 3, 5, 10, 20, 40, 70, 100µm 1, 3, 5, 10, 20, 40µm abs.	1 = 01 2 = 02	E = EPDM V = Viton S = Silicon F = Teflon Encapsulated Viton