

HIE Series Filter Cartridges



Product Introduction

HIE series features advanced Filtrafine pleating technology which enables to maximum the surface area, increases the dirt holding capacity and provides extended service life. HIE series can be applied to wine or beer production as trap filters. In these applications, D.E. filters are commonly used. As far as D.E. fines are concerned, HIE series can trap released D.E. fines and reduce the amount of micro-organisms to make sure the cleanness of downstream piping and equipment. It can also be applied to general water application in food and beverage industry.

- Manufactured under a certified ISO 9001 quality system
- Materials are FDA graded

Product Specifications

Materials of Construction

- Filter Media:
 - HIEP: Proprietary Melt Blown Polypropylene
 - HIEA: High Efficient Melt Blown Polypropylene
 - HIEG: Glass Fiber
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Support Material: Polypropylene
- O-rings: Buna-N, EPDM, Viton, Silicone
- Fixed Flange: Please contact your Filtrafine representative for additional assistance

Dimensions

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

Performance Specifications

Retention Ratings

- HIEP: 1, 3, 5, 10, 20, 40, 100 μ m
- HIEA: 1, 3, 5, 10, 20 μ m Absolute
- HIEG: 1, 10 μ m Absolute

Purity

All cartridges are free of surfactants, anti-static agents, binders and adhesives.

Operating Conditions

- Maximum Operating Temperature:
 - HIE: 150°F (65°C)
 - HIEG: 220°F (105°C)
- Recommended Change Out Differential Pressure: 21 psid

Toxicity

All polypropylene components meet the specifications for biological safety as per the USP for Class VI-121°C Plastics. (gaskets/ o-rings excluded)

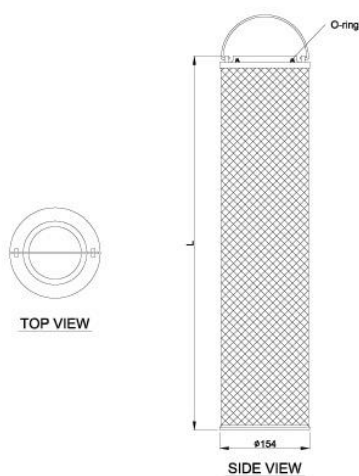


Liquid Flow Rate vs. Initial Differential Pressure

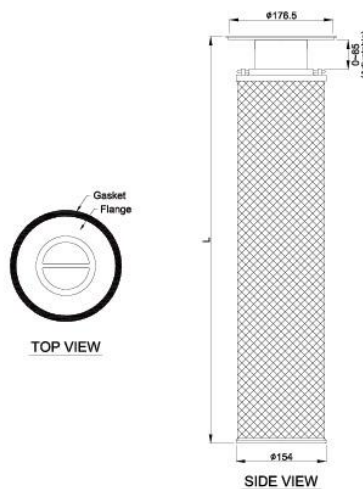
Retention Ratings	HIEP (psid/gpm)/(mbar/lpm)	HIEA (psid/gpm)/(mbar/lpm)	HIEG (psid/gpm)/(mbar/lpm)
1 µm	0.044 / 0.801	0.051 / 0.928	0.016 / 0.291
3 µm	0.018 / 0.328	0.020 / 0.364	N / A
5 µm	0.008 / 0.146	0.012 / 0.218	N / A
10 µm	0.007 / 0.127	0.008 / 0.146	0.003 / 0.055
20 µm	0.003 / 0.055	0.005 / 0.091	N / A
40 µm	0.001 / 0.018	N / A	N / A
100 µm	0.001 / 0.018	N / A	N / A

* Above table is HIEP/ HIEA/ HIEG size 1 filter bag initial pressure drop.

* For size 2 requirement, please contact your Filterfine representative.



HIE	L		O-ring
	Size 1	Size 2	
	275mm	640mm	Optional



HIE	L		Flange	Gasket
	Size 1	Size 2	304SS / 316SS / PP	
	280~345mm	645~710mm	Optional	

Ordering Information

HIEP	5-	1-	PP	E
Product Name	Retention Rating	Cartridge Size	Fixed Flange Option	O-ring Material
HIEP (PP)	1, 3, 5, 10, 20, 40, 100 µm	1=01 2=02	No Symbol=None Fixed Flange PP=Polypropylene SS=Stainless Steel	E=EPDM V=Viton S=Silicone
HIEA (Absolute PP)	1, 3, 5, 10, 20 µm			
HIEG (Glass Fiber)	1, 10 µm			