

HyperFlow Pleated Cartridges Polypropylene Depth Filters



HyperFlow cartridge is constructed with all polypropylene components with optimized pleat height and density. It provides universal chemical compatibility, lower pressure loss, and long life in demanding process applications including pharmaceutical, biological, chemical, electronic, food and beverage filtration.

HyperFlow cartridge is available in 4 pore size from 0.2 μm to 5 μm to match the flow, differential pressure, and retention requirement of virtual every microfiltration need. No adhesives are used in the fabrication of chemically resistant cartridge.

HyperFlow cartridge functions equally well as a prefiltration in water aggressive chemicals and as a final filter where nominal-rated microfiltration is required.

Performance Advantages

- All-polypropylene components provide superior chemical resistance and lower extractables.
- Thermal bonding eliminates risk of extractables from sealing materials.
- All components meet USP Class VI-121° Plastics Tests for biosafety
- Provide high particle retention while maintaining high flow rate
- Several layers of melt-blown polypropylene web to provide long filter life and outstanding separation performance.
- Offer great resistance to severe sanitizing agents such as hot water, concentrated hydrogen peroxides, and active chloride compounds

Typical Applications

Pharmaceuticals and Biologicals: Parenterals, Ophthalmics, Oral and topical medicines, Serum, Tissue culture media, Wash and rinse water, Diagnostic reagents, Buffers, Vaccines, Bottle and vial washers, Dry compressed gases, Make-up water

Food and Beverages: Alcohols, Mineral water, DI and RO water, Dry compressed gases, Juices and other potable liquids

Bulk Chemicals: Selected acids, Diluted bases, Alcohols

Inks: Water and alcohol based inks

Electronics: Photoresists, Acids, Etchants, Bases, Solvents, Electroless nickel plating solutions, Pretreatment of DI and RO water

Specifications

Materials of Construction

Filter Media: non-woven propylene

Support Material: Polypropylene

Structure Components: Polypropylene

Sealing Technology: Thermal Bonding

Nominal Length

10, 20, 30, and 40 inch
(25.4, 50.8, 76.2 and 101.6 cm)

Diameter

2.7 inches (6.9 cm)

Nominal Pore Size

0.2, 0.5, 1 and 5 μm

Typical Effective Filtration Area

6.5 ft^2 (0.6 m^2) per 10 inch

Maximum Operating Temperature*

82 °C (180 °F) at 10 psid (0.7 bar)

**supported adapters are recommended for applications at elevated temperature over 55 °C*

Sterilization/Sanitization Methods

Hot Water: 88 °C at 5 psid (0.34 bar)

Autoclave: 121 °C (250 °F) for 20 minutes up to 5 cycles

In-line Steam: 134 °C (273 °F) for 60 minutes at 2 psid (0.14 bar)

Maximum Differential Forward Pressure

60 psid (4.1 bar) at ambient temperature

HyperPure

HyperFlow

Maximum Differential Back Pressure

40 psid (2.8 bar) at ambient temperature

Maximum Continuous Pressure

Limited by housing

Typical Liquid Flow Rate

0.2 um: 6.3 gpm/psid/10 inch length
(34 lpm/0.1 bar/25.4 cm length)

0.5 um: 9.5 gpm/psid/10 inch length
(52 lpm/0.1 bar/25.4 cm length)

1 um: 13 gpm/psid/10 inch length
(71 lpm/0.1 bar/25.4 cm length)

5 um: 13 gpm/psid/10 inch length
(71 lpm/0.1 bar/25.4 cm length)

Biosafety

All components meet USP Class VI-121° C Plastics Tests

Ordering Information

Model	Grade	Micron Rating	Cartridge Length	Adapter Configuration	Seal Material
HF	G: General	020=0.2 um 050=0.5 um 100=1 um 500=5 um	1=10 inch 2=20 inch 3=30 inch 4=40 inch	0=DOE 3=SOE, 222/Flat 7=SOE, 226/Fin 8=SOE, 222/Fin	E=EPDM S=Silicon V=Viton