Flotrex* AP

Pleated Filters with Polypropylene Microfiber Media

Figure 1 : Flotrex AP Filters

Description and Use

Constructed with gradient density thermally-bonded polypropylene microfiber media, absolute-rated Flotrex AP (FAP) filters (Figure 1) combine exceptional solids-holding capacities with precise micron retention ratings. The FAP filters are constructed of FDA acceptable high-purity polypropylene.

FAP filters are absolute-rated for air, gas and liquid filtration with low pressure drop across the wide range of 0.65 to 40 microns. Sheets of melt-blown media are layered to provide absolute particle retention, high solids loading and long service life.

Typical Applications

Typical Flotrex AP filtration applications include:

- Prefiltration and Final Chemical Filtration – broad chemical compatibility
- Prefiltration of Pharmaceuticals and Biological Fluids – dependable protection for final filters
- High Throughput for Beer Filtration

General Properties

Flotrex AP filters are available the following absolute pore size micron ratings: 0.65, 1, 2, 3, 5, 10, 20 and 40 µm. Tables 1, 2, 3, 4 and 5 show further details on materials of construction, dimensions, operational limits and flow performance in air and water.

Table 1: Materials of Construction

Filtration Media	Polypropylene Microfiber
Support Layers	Polypropylene Microfiber
Core and Cage	Polypropylene
Endcaps and Adapters	Polypropylene

Table 2: Dimensions

Filter Model	Nominal O.D	Nominal I.D.	Effective Filtration Area
FAP96	2.75" (70mm)	1.25" (31mm)	4.4 ft² (0.41 m²)
FAP01	2.75" (70mm)	1.25" (31mm)	4.4 ft² (0.41 m²)
FAP03	2.75" (70mm)	1.25" (31mm)	4.4 ft² (0.41 m²)
FAP02	2.75" (70mm)	1.25" (31mm)	5.5 ft² (0.51 m²)
FAP05	2.75" (70mm)	1.25" (31mm)	5.5 ft² (0.51 m²)
FAP10	2.75" (70mm)	1.25" (31mm)	5.5 ft² (0.51 m²)
FAP20	2.75" (70mm)	1.25" (31mm)	7.3 ft² (0.68 m²)
FAP40	2.75" (70mm)	1.25" (31mm)	7.3 ft² (0.68 m²)

Table 3: Operational Limits

Maximum Forward Differential Pressure	60 psi (4.14 bar) @ 70°F (211°C)
Maximum Reverse Differential Pressure	30 psi (2.07 bar) @ 70°F (211°C)
Maximum Operating Temperature	180°F (82°C) at 10 psid (0.7 bar) in water

Find a contact near you by visiting www.ge.com/water and clicking on "Contact Us".

Table 4: Flow Performance in Clean Air[1]

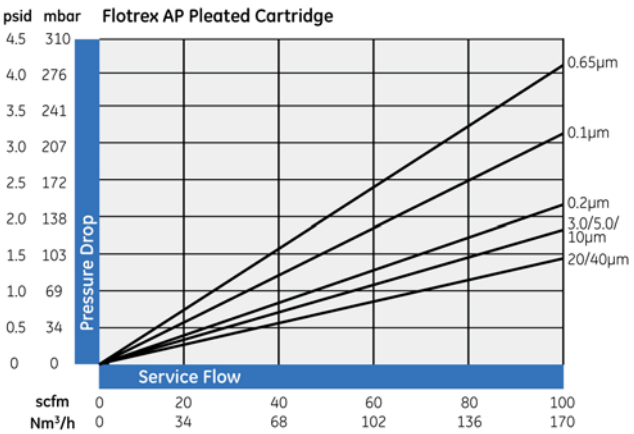
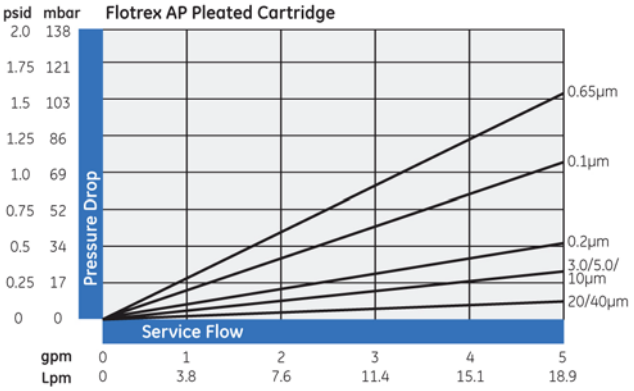


Table 5: Flow Performance in Clean Water[1]



[1] Data based on 10" length filter

Additional Information

- Flotrex AP filters may be autoclaved or in situ steam sterilized (up to 257°F [125°C], 30-minute cycles) for a maximum accumulated exposure of 10 hours. Alternately, the filters may be sanitized with compatible chemical agents.
- GE certifies that the material contained in its Flotrex AP pleated filters meet U.S. FDA requirements for food contact under the applicable regulations in 21 CFR. For further information, contact GE technical services. Flotrex AP filters meet the test criteria for USP class VI-121°C Plastics.
- Aqueous extracts from Flotrex AP filters contain less that 0.25 EU/ml. The filters typically exhibit low levels of non-volatile residues.
- GE filter cartridges are designed and manufactured for resistance to a wide range of chemical solutions. Conditions will vary with each application and users should carefully verify chemical compatibility. Please contact your GE distributor for more information.
- Table 6 provides additional ordering information.

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Table 6: Ordering Information

Type	Absolute Micron Rating	Nominal Cartridge Length	End #1 Adapter	End #2 Adapter	Elastomer Material
FAP	96 = 0.65 µm 01 = 1.0 µm 02 = 2.0 µm 03 = 3.0 µm 05 = 5.0 µm 10 = 10.0 µm 20 = 20.0 µm 40 = 40.0 µm	1 = 10 in (25 cm) 2 = 20 in (51 cm) 3 = 30 in (76 cm) 4 = 40 in (102 cm)	A = Open End Gasket B = 120 O-Ring C = 213 O-Ring E = 222 O-Ring F = 226 O-Ring J = 020 O-Ring Q = 222 O-Ring Stainless Steel Support Ring[2] Z = 226 O-Ring Stainless Steel Support Ring[2]	A = Open End Gasket B = 120 O-Ring C = 213 O-Ring G = Closed End Cap H = Fin Adapter	B = Buna-N E = EPDM S = Silicone T = Teflon[3] Encapsulated Viton[3] (Only in 222 and 226 Sizes) V = Viton
Example: FAP053EGS					

[2] Q or Z Adapters normally require G or H adapters.
[3] Teflon and Viton are registered trademarks of DuPont.