

## Water Technologies & Solutions fact sheet

# 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  $\mu\text{m}$ . 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" (70 mm)	1.25" (31 mm)	4.4 ft <sup>2</sup> (0,41m <sup>2</sup> )
FAP01	2.75" (70 mm)	1.25" (31 mm)	4.4 ft <sup>2</sup> (0,41m <sup>2</sup> )
FAP03	2.75" (70 mm)	1.25" (31 mm)	4.4 ft <sup>2</sup> (0,41m <sup>2</sup> )
FAP02	2.75" (70 mm)	1.25" (31 mm)	5.5 ft <sup>2</sup> (0,51m <sup>2</sup> )
FAP05	2.75" (70 mm)	1.25" (31 mm)	5.5 ft <sup>2</sup> (0,51m <sup>2</sup> )
FAP10	2.75" (70 mm)	1.25" (31 mm)	5.5 ft <sup>2</sup> (0,51m <sup>2</sup> )
FAP20	2.75" (70 mm)	1.25" (31 mm)	7.3 ft <sup>2</sup> (0,68m <sup>2</sup> )
FAP40	2.75" (70 mm)	1.25" (31 mm)	7.3 ft <sup>2</sup> (0,68m <sup>2</sup> )

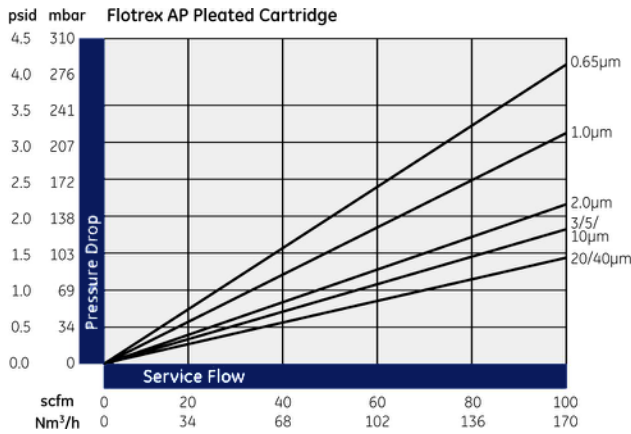
Table 3: Operational Limits

Maximum forward differential pressure	60 psi (4.14 bar) @ 70°F (21°C)
Maximum reverse differential pressure	30 psi (2.07 bar) @ 70°F (21°C)
Maximum operating temperature	180°F (82°C) at 10 psid (0.7 bar) in water

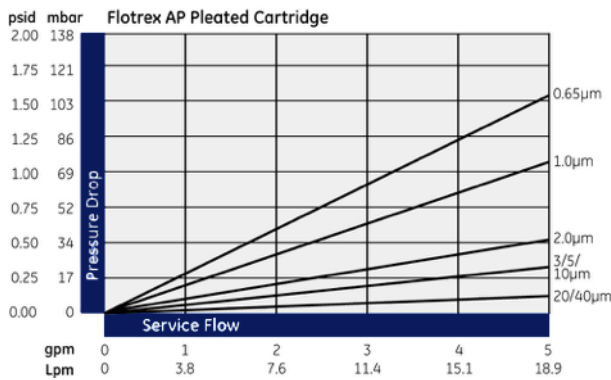


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**Table 4: Flow Performance in Clean Air<sup>1</sup>**



**Table 5: Flow Performance in Clean Water<sup>1</sup>**



<sup>1</sup> Data based on 10" length filter

**Table 6: Ordering Information**

Type	Absolute Micron Rating	Nominal Cartridge Length	End #1 Adapter	End #2 Adapter	Elastomer Material
FAP	96 = 0,65 µm	1 = 10 in (25 cm)	A = Open end gasket	A = Open end gasket	B = Buna-N
	01 = 1,0 µm	2 = 20 in (51 cm)	B = 120 O-ring	B = 120 O-ring	E = EPDM
	02 = 2,0 µm	3 = 30 in (76 cm)	C = 213 O-ring	C = 213 O-ring	S = Silicone
	03 = 3,0 µm	4 = 40 in (102 cm)	E = 222 O-ring	G = Closed end cap	T = Teflon <sup>3</sup>
	05 = 5,0 µm		F = 226 O-ring	H = Fin adapter	encapsulated
	10 = 10,0 µm		J = 020 O-ring		Viton <sup>3</sup> (only in
	20 = 20,0 µm		Q = 222 O-ring		222 and 226
	40 = 40,0 µm		Stainless steel support ring <sup>2</sup>		sizes)
			Z = 226 O-ring		V = Viton
			Stainless steel support ring <sup>2</sup>		

<sup>2</sup> Q or Z adapters normally require G or H adapters.

<sup>3</sup> Teflon and Viton are registered trademarks of DuPont.

**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.

SUEZ 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 SUEZ technical services. Flotrex AP filters meet the test criteria for USP class VI-121°C Plastics.

Aqueous extracts from Flotrex AP filters contain less than 0.25 EU/ml. The filters typically exhibit low levels of non-volatile residues.

SUEZ 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 SUEZ distributor for more information.

Table 6 provides additional ordering information.

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