porvair filtration group

Teffil™ HF

High Flow PTFE Membrane Filters

Teffil™ HF is a range of fully optimised high flow PTFE membrane filters with PFA supports. These cartridge filters are suitable for use within a number of chemical applications including organic stripper, IPA and other solvent recirculation bath applications.

This chemically inert filter range offers the removal of fine particulate from 0.05-5 micron in challenging operating conditions.

Typical Applications

- Aggressive chemicals
  Chemical delivery system filtration of strong acid base solution.
- Solvents
  UHP solvent treatment for bumping stripper.
- High purity chemicals

Features and Benefits

- Excellent flow characteristics
- Full traceability
- Controlled manufacturing environment
- Fast rinse up time
- Low binding and fouling

Ordering Information

Product Code: X - X - X - X - X - X

Series		Pore rating (µm)		Version		Length		Adaptor		Seals	
FL	Teffil™	P5	0.05	H	High Flow	04	102mm (4")	A	Code 3	A	EPDM
		10	0.1			1	250mm (10")	*Other options available on request.*		B	Silicone
		20	0.2			2	510mm (20")			C	Viton®
										K	FEP/FKM

Specifications

Materials of Manufacture

Filtration media: membrane	Hydrophobic PTFE
End caps:	PFA
Centre core:	PFA
Outer hardware:	PFA
Gaskets/O-rings:	PFA encapsulated FKM

Cartridge Dimensions (Nominal)

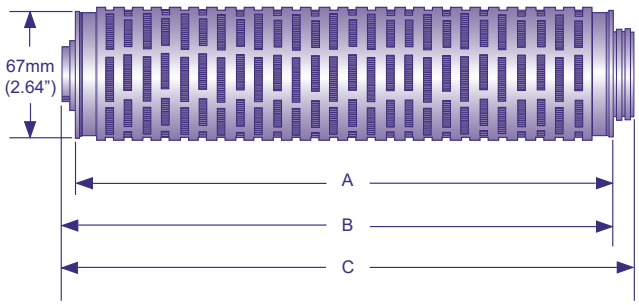
Diameter: 67mm (2.6")
Length: 254mm (10")

Pore Size Rating

0.05, 0.1, 0.2, 0.45, 1 and 5 microns.

Dimension Specifications

Length (inch)	A	B	C
4	105mm +/-2	110mm +/-2	128mm +/-2
10	237mm +/-2	242mm +/-2	261mm +/-2
20	463mm +/-3	468mm +/-3	486mm +/-3



Differential Pressure

Maximum forward differential pressure:
5.1bar (75psi) @ 25°C (77°F)
5.1bar (75psi) @ 120°C (248°F)

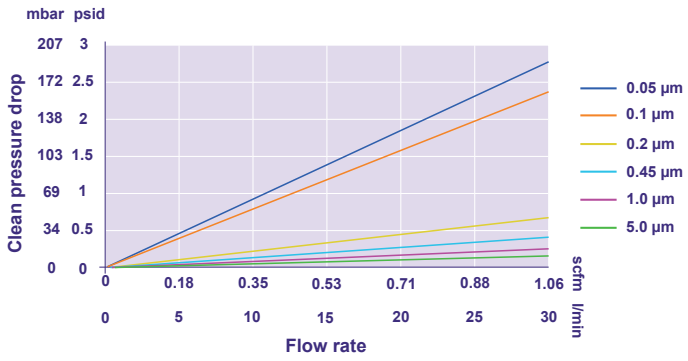
Operating Temperature

Maximum operating temperature:
180°C (356°F) at the above conditions.

Metallic Cleanliness

<25µg per device. Ultra-high-purity.

Flow Rates



Total metals (13 elements, ICP-MS)	UHP < 25 ppb / device Ultra low metal < 10 ppb / device
Particle shedding cleanliness	< 5 particles / 1ml ≥ 0.15um @10LPM UPW flow
TOC recovery (per 10" equivalent)	< 5ppb of feed DI water after 120L @ 5LPM
Resistivity recovery (per 10" equivalent)	< 0.5MΩ of feed DI water after 120L @ 5LPM

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