

amcPolyproFlow E

Cartridges-Polypropylene Depth Filters



amcPolyproFlow E cartridge filters are 100% polypropylene pleated depth filter utilizing the latest in melt blown technology. They provide broad chemical compatibility and are available in nominal ratings from 0.2 μm to 60 μm .

Engineered for high particle loading applications and long filter life, amcPolyproFlow E cartridges are available in standard 10 inch to 40 inch lengths for matching dimension and seal requirements of most currently available cartridge housings.

Performance Advantages

Broad chemical compatibility makes amcPolyproFlow E suitable for a wide range of applications

Serial layering of filter media for extended filter life and high throughput

The filter media and the structural components are fusion-welded, eliminating unnecessary common materials of construction

Typical Applications

Bulk and batch chemical filtration

Compressed air and gases

Photoresists filtration

Polymer and plating solution filtration

Ultrapure water prefiltration

Magnetic coating filtration

Specifications

Materials of Construction

Filter Media: Pleated multiple layers of hydrophobic melt blown polypropylene

Support Material: Polypropylene

Structure Components: Polypropylene

Sealing Technology: Thermal bonding

Dimensions

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

Diameter: 69 mm

Typical Effective Filtration Area

0.2, 0.45, 30, 60 μm : 0.55 $\text{m}^2/10$ inch

1, 3 μm : 0.65 $\text{m}^2/10$ inch

5, 10 μm : 0.72 $\text{m}^2/10$ inch

Maximum Operating Temperature

80°C at 30 psi (2.1 bar)

Maximum Differential Pressure

60 psi (4.1 bar) at ambient temperature

Resistivity Recovery within 18 Mega-ohm

≤ 120 L/10 inch length (at 1 L/min flow rate)

Retention Efficiency

0.2 μm : >99% (retention of 0.3 μm AC fine dust)

0.45 μm : >99% (retention of 0.6 μm AC fine dust)

1 μm : >99% (retention of 1.5 μm AC fine dust)

3 μm : >99% (retention of 5 μm AC fine dust)

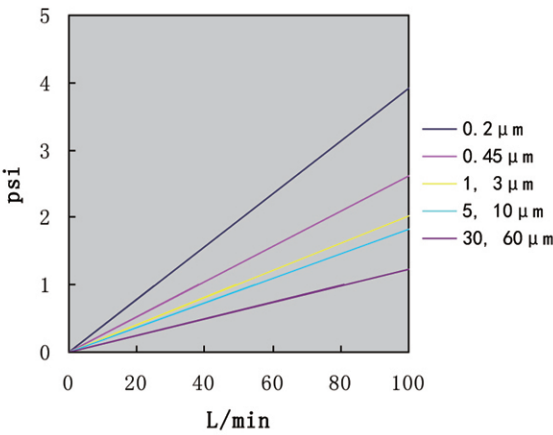
5 μm : >99% (retention of 9 μm AC fine dust)

10 μm : >99% (retention of 15 μm AC fine dust)

30 μm : >99% (retention of 40 μm AC fine dust)

60 μm : >99% (retention of 70 μm AC fine dust)

Typical Water Flow Rates (10 inch length)



Cartridge Ordering Information



Rated Pore Size	92	0.2 μm
	94	0.45 μm
	01	1 μm
	03	3 μm
	05	5 μm
	10	10 μm
	30	30 μm
	60	60 μm

Nominal Length	1	10 inch (25.4 cm)
	2	20 inch (50.8 cm)
	3	30 inch (76.2 cm)
	4	40 inch (101.6 cm)

Cartridge Configuration	D	SOE, Flat
	F	DOE, Gasket/Gasket 10 inch increments
	M	SOE, -222/Flat
	V	SOE, -226/Flat

Seal Material	S	Silicone
	V	Viton
	E	Ethylene Propylene
	F	FEP Encapsulated