

AFE series

FILTERING CARTRIDGES
PLEATED 100% POLYESTER
OD 2.71" (69 mm)



MAIN APPLICATIONS:

- FINE CHEMICALS
- PETROCHEMICAL
- OIL & GAS
- FOOD & BEVERAGE
- PHARMACEUTICAL
- HEALTH & CARE
- MICROELECTRONICS
- GENERAL INDUSTRY

FEATURES:

- High filtration area
- High flow-rate
- High dirt holding capacity for long duration in service
- Resistant to contaminant unloading even at high Delta-P
- Filtration direction from outside to inside
- Five end cap configurations available
- Pre-flushed with 18 MΩ-cm DI water and TOC < 40 ppb (as option)
- Pure polyester hardware
- Wide range chemical compatibility
- High temperature resistance
- Thermo-welded assembly
- Manufactured in clean room
- Filtration rating from 1 to 50 μm
- Filtration efficiency > 99.9%
- Ideal for use in critical filtration processes like:
 - Fine chemicals and cosmetics
 - Corrosive fluids
 - Solvent base solutions
 - Hot degreasing bath
 - Oxide and pure water
 - Hot water
 - Hot oils

ASCO FILTRI

a **mott** company

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TECHNICAL DATA

WORKING TEMPERATURE
120 °C

STERILIZATION / SANITIZATION
- Autoclaving at 121 °C for 30'
without Delta-P up to 10 time
- In hot water at 90 °C per 60'
in line

DIFFERENTIAL PRESSURE
Cartridge replacement:
2.0 bar @ 25 °C
Max. allowable:
5.0 bar @ 20 °C
1.5 bar @ 60 °C
1.0 bar @ 120 °C

CONSTRUCTION MATERIAL

Filter media:

- PBT microfibre

Hardware:

- High strength PBT

Gaskets:

- Buna-n
- EPDM
- Viton
- Silicone
- FEP

DIMENSIONS

External diameter:

2.71" (69 mm)

Internal diameter:

1.1" (28 mm)

Length:

10", 20", 30", 40"

FILTERING AREA

10" 0.5 m²

20" 1.0 m²

30" 1.5 m²

40" 2.0 m²

Flow-rate / Delta-P data:

Filtration (µm)	Liquids		Air
	1 cP	10 cP	
1	1.70	0.20	60
5	2.00	0.35	60
10	2.00	0.64	60
25	2.50	1.10	70
50	2.50	1.30	70

Liquid flow-rate (m³/h) - Air flow-rate (Am³/h) - Initial Delta-P 0.1 bar.

Flow-rate valid for 10" long cartridges.

For gas different than air: DP = 0.1 x gas viscosity (cP) / 0.018 cP (air).

Flow-rate valid for clean water, reduce the flow-rate according to the application.

Filtration efficiency:

Filtration (µm)	Efficiency		
	Liquids		Gas
	99.9%	90%	99.9%
1	1 µm	0.45 µm	0.3 µm
5	5 µm	3 µm	2 µm
10	10 µm	5 µm	3 µm
25	25 µm	10 µm	5 µm
50	50 µm	25 µm	10 µm

Filtration efficiency of liquids defined with Multipass ISO 4572 test

Main compatibility range:

Chemicals	Compatibility
Acids concentrated	Good - Poor
Acids diluted	Good
Alcohols	Good
Alkalis	Fair
Aromatic hydrocarbons	Good
Grease and oils	Good
Halogenated hydrocarbons	Good - Poor
Halogens	Poor
Ketones	Poor

Chemical compatibility varies with chemicals concentration and temperature change.
For detailed compatibility list, refer to Asco Filtri compatibility chart.

Contact us for any further information.

We reserve the right to change the data of this specification without notice.

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