

Description

Emflon filter elements are designed for ≥ 3 nm filtration of bulk gas applications found in the semiconductor industry.

Features

- Wide variety of applications
- High particle retention
- High flow rates vs. differential pressure
- Optimized cartridge design
- Manufactured in a cleanroom environment
- 100% integrity tested

Specifications

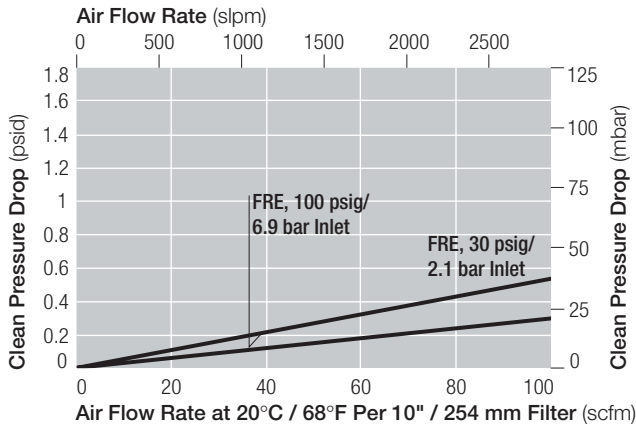
Materials of Construction

Components	Materials
Filter Medium	PTFE
Media Support	Polypropylene
Inner Core	Polypropylene
Outer Cage	Polypropylene
End Caps	Polypropylene
O-ring Options	Acid proof fluoroelastomer, FEP Encapsulated fluoroelastomer
Gasket Options	NBR, PTFE, fluoroelastomer, EPDM



Removal Ratings	≥ 3 nm (0.003 μ m)		
Filter Areas	AB1	MCY1001	MDY1002
	10" / 254 mm : 9.45 ft ² / 0.88 m ²	10" / 254 mm : 9.26 ft ² / 0.86 m ²	20" / 508 mm : 18.52 ft ² / 1.72 m ²
Nominal Length	10" / 254 mm		
	20" / 508 mm		
	30" / 762 mm		
	40" / 1,016 mm		
Diameter	2.75" / 70 mm		
O-ring Size / End Caps	Code 3 (222 double O-ring / flat end) Code 8 (222 double O-ring / finned end) Code 7 (226 double O-ring bayonet lock / finned end)		
Maximum Operating Temperature	194 °F / 90 °C		
Maximum forward differential pressure	80 psid @ 120 °F / 5.5 bar @ 50 °C		
	50 psid @ 194 °F / 3.5 bar @ 90 °C		

Pressure Drop vs. Gas Flow Rate (AB1, MCY1001)



Part Numbers / Ordering Information

O-Ring Seal

AB 1 2 3 E 4

Table 1

Code	Nominal length (mm / in)
1	254 / 10
2	508 / 20
3	762 / 30
4	1,016 / 40

Table 2

Code	Removal Ratings
FR	≥ 3 nm

Table 3

Code	O-ring Specifications
7	AS568A-226
8	AS568A-222
3	AS568A-222

Table 4

Code	O-ring Materials ^{*1}
H1	FEP Encapsulated Fluoroelastomer
HF	Acid-proof Fluoroelastomer

*1 Other O-ring material options available.

Gasket seal

MCY1001 7 E 8

MDY100 9 7 E 8

Table 7

Code	Removal Ratings
FR	≥ 3 nm

Table 8

Code	Gasket Materials
H13	NBR
H2	PTFE
H	Fluoroelastomer
J	EPDM

Table 9

Code	Nominal length (mm / in)
2	508 / 20
3	762 / 30

Representative example part numbers

O-Ring Seal

AB1FR3EHF	AB2FR8EHF	AB3FR7EHF	AB4FR7EHF
AB1FR3EH1	AB2FR7EHF	AB3FR8EHF	AB4FR3EHF
AB1FR7EH1	AB2FR3EHF	AB3FR3EHF	
AB1FR3EHF	AB2FR3EH1	AB3FR3EH1	
	AB2FR7EH1		

Gasket seal

MCY1001FREH2	MDY1002FREH13	MDY1003FREH13
MCY1001FREJ	MDY1002FREH2	



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