



Absolute Rated Pleated Filter Cartridges

"The broad range of absolute rated pore sizes makes the LOFPLEAT-AG series from Eaton suitable for a wide range of critical process applications."

Get absolute efficiency with this cost-effective all-polypropylene cartridge. The pleated design provides a large surface area for long-lasting filtration efficiency.

Features and Benefits

- Fits broad application range with 0.2 to 100 µm retention
- Acceptable for food and beverage applications
- Meets USP Class VI biological tests for plastics
- Beta rating of 5000, 99.98% efficiency
- High flow and long life for minimum maintenance
- Available in continuous lengths up to 40 inches
- Eliminates dirt unloading at high differential pressures due to fixed pore structure

Filter Specifications

Media

Polypropylene

Inner core

Polypropylene

End caps

Polypropylene

Cage

Polypropylene

Gaskets/O-Rings options

Buna-N, EPDM, Silicone, Viton®, FEP encapsulated Viton (O-Rings only)

Micron ratings

0.2, 0.45, 1, 2.5, 5, 10, 25, 50, 100 µm

Dimensions / Parameters

Nominal lengths

5"; 9.75"; 10"; 20"; 30"; 40"
(12.7; 24.8; 25.4; 50.8; 76.2; 101.6 cm)

Outside diameter

2.7" (6.9 cm)

Inside diameter

1.1" (2.79 cm)

Surface area

0.47 m² (5.1 ft²) per 10 inch element

Max. operating temp.

176°F (80°C)

Max. differential pressure

75 psid @ 70°F (5.2 bar @ 21°C)
40 psid @ 176°F (2.8 bar @ 80°C)
15 psid @ 190°F (1.03 bar @ 88°C)

Recommended change-out differential pressure for disposal

35 psid (2.4 bar)

FDA compliance

All polypropylene material used in manufacturing complies with the regulations of the FDA title 21 of the Code of Federal Regulations Sections 174.5, 177.1520, and 177.1630, as applicable for food and beverage contact.



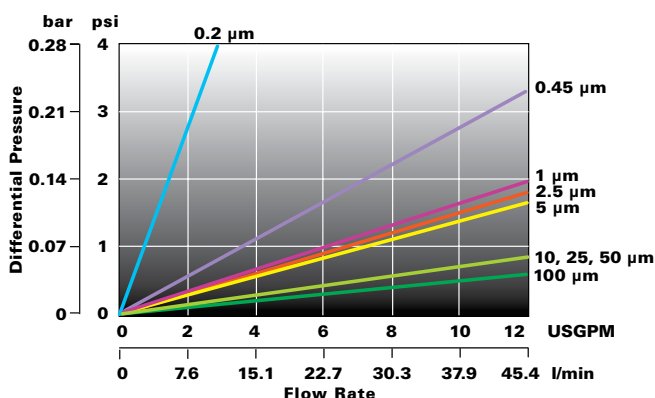
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Filter Removal Efficiency			
Beta Ratio Efficiency	Beta 5000 99.98%	Beta 100 99%	Beta 50 98%
0.2 µm	0.2	0.1	0.05
0.45 µm	0.45	0.3	0.2
1 µm	1	0.6	0.3
2.5 µm	2.5	2	1.5
5 µm	5	4	3
10 µm	10	8	7
25 µm	25	19	15
50 µm	45	35	28
100 µm	—	100	85

$$\text{Beta Ratio} = \frac{\text{Upstream particle counts}}{\text{Downstream particle counts}}$$

The micron ratings shown at various efficiency and beta ratio value levels were determined through laboratory testing, and can be used as a guide for selecting cartridges and estimating their performance. Under actual field conditions, results may vary somewhat from the values shown due to the variability of filtration parameters. Testing was conducted using the single-pass test method, water at 3 gpm/10" cartridge. Contaminants included latex beads, coarse and fine test dust. Removal efficiencies were determined using dual laser source particle counters.

LOFPLEAT-AG Flow Rate* (21°C/70°F per 10" cartridge)

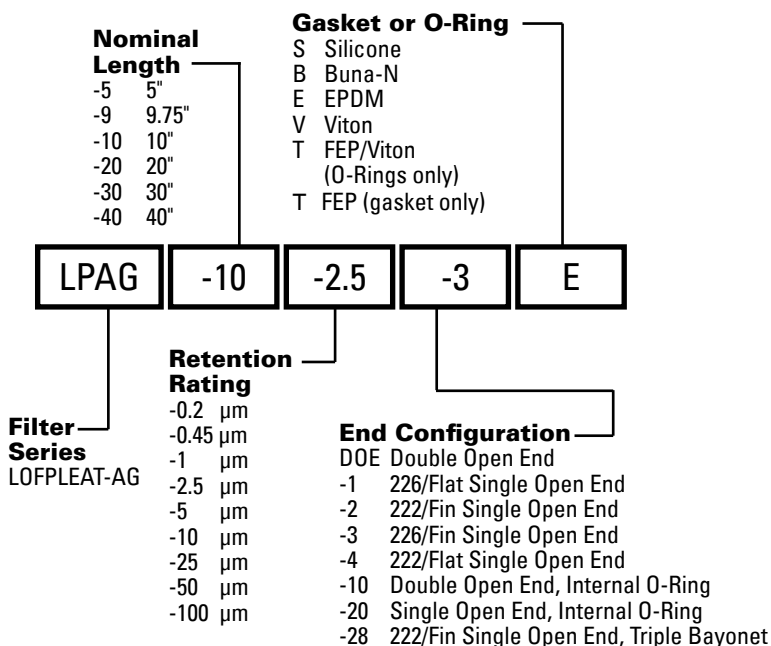


* For liquids other than water, multiply pressure drop by fluid viscosity in centipoise



The LOFPLEAT-AG filter cartridge is available with a variety of gasket, O-ring and end cap configurations.

Filter Specification Code



Eaton Technologies GmbH
Hydraulics Group
Filtration Division
 Auf der Heide 2
 53947 Nettersheim, Germany
 tel.: +49 2486 809 0
 fax: +49 2486 809 800
 email: info-filtration@eaton.com
 www.eaton.de/filtration

Eaton Technologies GmbH
Hydraulics Group
Filtration Division
Bron branch
 La Tour Sier
 129 boulevard Pinel
 69500 Bron, France
 tel.: +33 4 72 78 84 50
 fax: +33 4 78 74 43 07
 email: info-filtration@eaton.com
 www.eaton.com/filtration

Customer Service EMEA

Austria
 Belgium
 France
 Germany
 Italy
 Luxembourg
 Netherlands
 Spain
 UK
 Export

tel.: 0800 29 36 89
 tel.: 0800 77 0 22
 tel.: +33 4 72 78 84 50
 tel.: +49 2486 809 400
 tel.: 800 78 58 83
 tel.: 800 2 42 98
 tel.: 0800 0 22 27 03
 tel.: 900 98 49 15
 tel.: +44 1206 593 128
 tel.: +49 2486 809 470

fax: 0800 29 36 90
 fax: 0800 77 0 23
 fax: +33 4 78 74 43 07
 fax: +49 2486 809 500
 fax: 800 78 58 84
 fax: 800 2 42 99
 fax: 0800 0 22 26 95
 fax: 900 98 49 14
 fax: +44 1206 593 129
 fax: +49 2486 809 570



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