Graver Technologies

FILTRATION | SEPARATION | PURIFICATION

Aegis® AFA®

Pleated Backwashable Filter Elements

Product Specifications

Media:
Polypropylene

Inner core, end caps, cage:
Polypropylene

Gaskets/O-Rings:
EPDM Sulfur Free, Santoprene

Micron rating:
1, 3, 5, 10, 25 µm

Other micron rated media available upon request

Dimensions

Nominal lengths:
50", 60", 70", 80"
(1,270, 1,524, 1,778, 2,032 mm)

Outside diameter: 2.5" (63.5 mm)

Inside diameter: 1.0" (25.4 mm)

Operating Parameters

Maximum operating temperature:
180°F (85°C)

Polypropylene maximum:
130 psid @ 70°F (8.9 bar @ 21°C)

Collapse pressure:
40 psid @ 180°F (2.8 bar @ 85°C)

Graver's AFA non-precoatable backwashable condensate polishing septa are engineered to meet the high demands in the utility industry for iron oxide removal and repeated backwashing. A selection of filter media is available in absolute ratings ranging from 1 to over 25 microns to meet the removal requirements of each individual condensate system. Like all the condensate filters from Graver Technologies, a variety of end fittings can be selected to retrofit the elements in existing Powdex® or other condensate filter systems.

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.

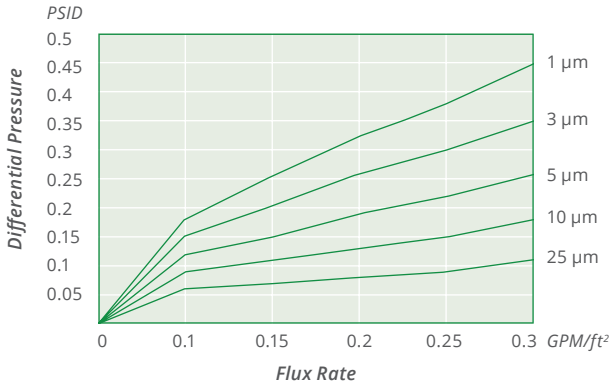
Testing was conducted using the multi-pass test method, water at 2.5gpm/10" cartridge. Contaminants included latex beads, coarse and fine test dust. Removal efficiencies were determined using dual laser source particle counters.

FEATURES & BENEFITS

- Absolute micron rating from 1 to 25 µm
- Removal efficiency rated at 99.9%
- High surface area of pleated media
- High dirt holding capacity
- Backwashable media recipe
- Rugged construction specifically for power plant use
- Fixed pore construction eliminates dirt unloading as differential pressure increases
- Pleat optimization for extended runs between backwashings

FLOW RATE VS PRESSURE DROP

Flow vs. Differential Pressure for AFA Elements
(per Square Foot of Filter Area Polypropylene Filter @ 70°F (21°C))



REMOVAL EFFICIENCY

Beta Ratio Efficiency	Beta 1,000 99.9%	Beta 100 99%	Beta 50 98%
1 µm	1.0	0.6	0.3
3 µm	3.0	2.0	1.5
5 µm	5.0	4.0	3.0
10 µm	10.0	8.0	7.0
25 µm	25.0	19.0	15.0

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

SUPERIOR PRODUCTS AND GLOBAL REACH

Graver Technologies designs, develops and manufactures ion exchange technology and products that enable and enhance separation, purification, process filtration and analysis. A Marmon Water/Berkshire Hathaway Company, Graver has a long history of strong corporate support, ion exchange innovation, industry commitment, global reach and world-class capabilities.

Whether you are around the corner or across the globe, Graver Technologies supports customers with superior products and services. Customers worldwide trust our products over competitive offerings; we export about a third of our manufacturing output. Backed by more than half a century of innovation, our ion exchange products treat over 6.5 billion gallons of water daily in more than 38 countries.

In the United States, over 90 percent of nuclear power facilities choose Graver's ion exchange systems, services and products to meet stringent water purity requirements.

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