

Power Generation Systems — The Right Septa Choice

AFA® – Pleated Backwashable Filter Elements

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.

Features

- Absolute micron rating from 1 to 25 µm
- Removal efficiency rated at 99.9%
- High surface area of pleated media
- High dirt holding capacity
- Fixed pore construction eliminates dirt unloading as differential pressure increases



FILTER SPECIFICATIONS

| | | |
|-------------------------|--|---------------|
| Media | Polypropylene | |
| Inner Core | Polypropylene | Polypropylene |
| End Caps | Polypropylene | Polypropylene |
| Cage | Polypropylene | Polypropylene |
| Gaskets/O-Rings Options | EPDM Sulfur Free | |
| Micron Ratings | 1, 3, 5, 10, 25µm Other micron rated media available upon request | |

Dimensions

| | | |
|---|----------------------------------|----------------|
| Nominal Lengths | 50" (1,270 mm) | 60" (1,524 mm) |
| | 70" (1,778 mm) | 80" (2,032 mm) |
| Outside Diameter | 2½" (63.5 mm) | |
| Inside Diameter | 1" (25.4 mm) | |
| Maximum Operating Temperature | Polypropylene: 180°F (85°C) | |
| Polypropylene Maximum Collapse Pressure | 130 psid @ 70°F (8.9 bar @ 21°C) | |
| | 40 psid @ 180°F (2.8 bar @ 85°C) | |

FILTER REMOVAL EFFICIENCY

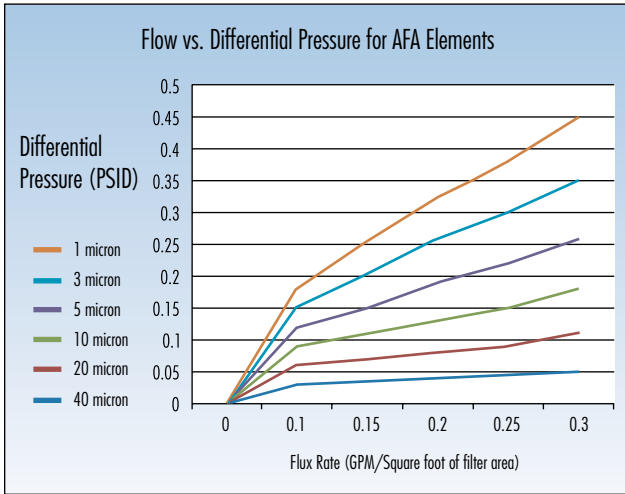
| Beta Ratio Efficiency | Beta 1,000 | Beta 100 | Beta 50 |
|-----------------------|------------|----------|---------|
| 1 micron | 1 | 0.6 | 0.3 |
| 3 microns | 3 | 2 | 1.5 |
| 5 microns | 5 | 4 | 3 |
| 10 microns | 10 | 8 | 7 |
| 25 microns | 25 | 19 | 15 |

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

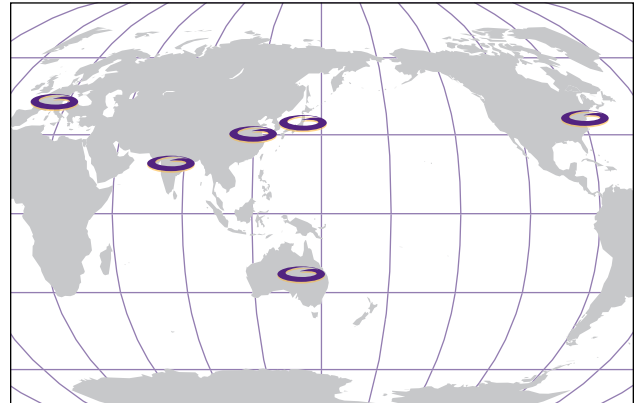
The micron ratings shown at various efficiency and beta ratio value levels were determined through laboratory testing, and can be used as a guide for selecting cartridges and estimating their performance. Under actual field conditions, results may vary somewhat from the values shown due to the variability of filtration parameters.

Testing was conducted using the 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.

FLOW RATE VS PRESSURE DROP PER SQ. FOOT OF FILTER AREA POLYPROPYLENE FILTER @ 70°F (21°C)



Graver Technologies' Worldwide Locations



Superior Products & Global Reach

Graver is the global leader in high purity and condensate water treatment for power generation applications. Including both ion exchange and backwashable septa and filters.

Our innovative technology and products enable our customers to consistently meet today's tougher requirements for purity.

Graver's products treat more than 6.5 billion gallons of process water every day in over 38 countries. Over 75 percent of the nuclear powered generation plants, worldwide, use our technology. Graver has achieved this by consistently delivering dependable, high performance technology and products.

Whether your business is around the corner or around the world, Graver Technologies can support you with superior products and services.



ISO-9001 Factory in Glasgow, DE U.S.A.

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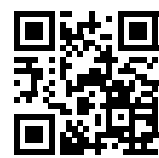
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