

FACT SHEET

aspire® ePTFE Pleated Filters

Description and Use

The **aspire**® ePTFE, 0.2um rated, microfiltration cartridges are specifically designed for venting applications in the bio-pharmaceutical, beverage, and chemical industries.

Meeting increasingly higher performance demands in venting applications require continuous quality and innovation. A quality vent filter safeguards production, while meeting rigorous regulatory requirements.

The combination of consistent airflow, excellent retention and chemical resistance properties are the cornerstone of aspire ePTFE (polytetrafluoroethylene) microfiltration cartridges.

The **aspire** microfiltration solutions are tested and validated to withstand multiple steam cycles. **aspire** vent filters are designed for long service life, which increases process throughput.

Typical Applications

Aspire filters offer exceptional filtration characteristics, including reliable particle retention and high purity, in harsh process conditions. Such as vents/exhausts for autoclaves, fermenters, and storage tanks

General Properties

aspire filters are available in 0.2 µm absolute pore size micron ratings. Tables 1, 2, 3, 4, 5 and 6 show further details on materials of construction, dimensions, operational limits, integrity testing and flow performance in air and water.



Table 1: Materials of Construction

Filtration Media	Hydrophobic PTFE Membrane
Support Layers	Polypropylene Microfiber
Core and Cage	Polypropylene
Endcaps and Adapters	Polypropylene

Table 2: Dimensions

Outside Diameter (nominal)	Inside Diameter (nominal)	Effective Filtration Area
2.75" (70mm)	1.25" (31mm)	5.9ft ² (0.55m ²)

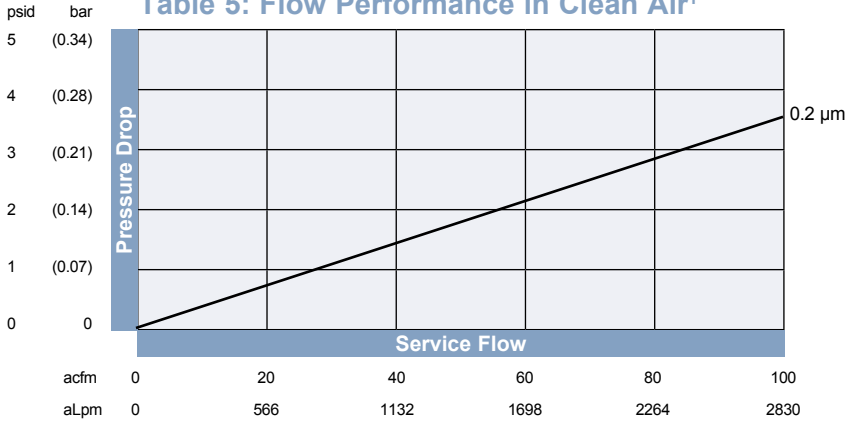
Table 3: Operational Limits

Maximum Forward Differential Pressure	60psi (4.14 bar) @ 70° F (211°C)
Maximum Reverse Differential Pressure	30psi (2.07 bar) @ 70° F (211°C)
Maximum Operating Pressure	180° F (80°C) at 10psid (0.7 bar) in water

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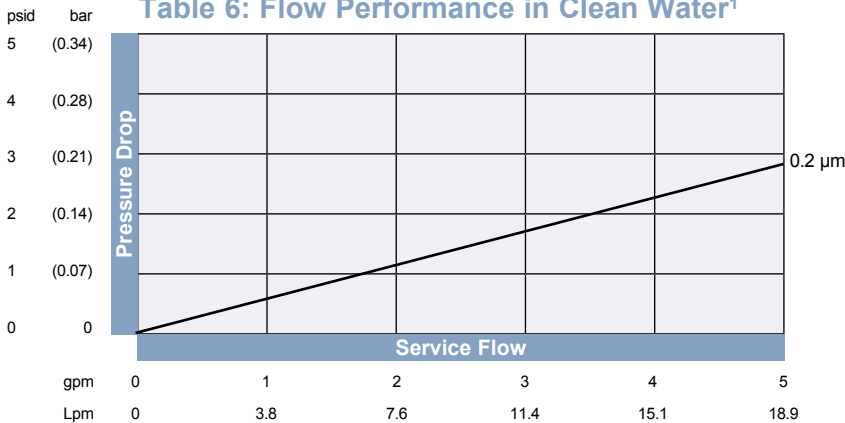
Table 5: Flow Performance in Clean Air¹



¹ - Data based on 10" length filter.

- **aspire** filters may be autoclaved or in situ steam sterilized (up to 257°F [125°C], 30 minute cycles) for a maximum accumulated exposure of 10 hours. Filters which are steam sterilized must have stainless steel insert supported o-ring adaptors. Alternatively, the filters may be sanitized with compatible chemical agents.
- CLARCOR Industrial Air certifies that the material contained in its Aspire pleated filters meet U.S. FDA requirements for food contact under the applicable regulations in 21 CFR. For further information, contact CLARCOR Industrial Air technical services. **aspire** filters meet the test criteria for USP class VI-121°C Plastics.

Table 6: Flow Performance in Clean Water¹



¹ - Data based on 10" length filter.

- Aqueous extracts from **aspire** filters contain less than 0.25 EU/ml. The filters typically exhibit low levels of non-volatile residues.
- CLARCOR Industrial Air filter cartridges are designed and manufactured for resistance to a wide range of chemical solutions. Conditions will vary with each application and users should carefully verify chemical compatibility. Please contact your CLARCOR Industrial Air distributor for more information.

Table 7: Ordering Information

Type	Absolute Micron Rating	Nominal Cartridge Length	End #1 Adapter	End #2 Adapter	Elastomer Material
MFT	92 = 0.2 µm	A = 10 inch (25.4cm)	1 = Open End Gasket 2 = 120 O-Ring 3 = 213 O-Ring 4 = 222 O-Ring 5 = 226 O-Ring 6 = 020 O-Ring 7 = 222 O-Ring Stainless Steel Support Ring 8 = 226 O-Ring Stainless Steel Support Ring	A = Open End Gasket B = 120 O-Ring C = 213 O-Ring G = Closed End Cap H = Fin Adapter	B = Buna-N E = EPDM S = Silicone T = Teflon ² Encapsulated (Only in 222 and 226 sizes) V = Viton ²

² - Trademarks are property of their respective owners.

For more information, contact your **aspire** representative at **CLARCOR Industrial Air**:
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