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Microelectronics

Fluorodyne® VA and Fluorodyne® TF Filters



Description

Fluorodyne VA filters and Fluorodyne TF filters are specifically designed to provide rapid bath clean up in recirculating nickel plating baths. They are also ideally suited for use in recirculated cleaning baths of DI water and alkaline soaps.

Rated at 0.2 µm and 0.1 µm, Fluorodyne VA and TF filters offer spontaneous wettability, fast bath turnover rates and excellent bath clean up characteristics

- Spontaneously wets in Ni plating and DI water/alkaline soap mixtures
- Very high flow rates •
- Low differential pressure •
- Low extractables •
- Manufactured in a cleanroom environment

Specifications

Materials

- Medium: Hydrophilic PVDF
- Core, cage, and end caps: Polypropylene •
- Support and drainage: Polypropylene
- O-ring options: Teflon¹ encapsulated Viton¹, Viton and EPR

Removal Ratings

- 0.1 µm, and 0.2 µm in recirculation mode

Filter Areas

- AB1 Style
254 mm / 10 in
– Fluorodyne VA: 0.86 m² / 9.25 ft²
– Fluorodyne TF: 1.25 m² / 13.5 ft²

Configurations

- AB1 Style
Nominal length: 254 mm / 10 in
Diameter: 70 mm / 2.75 in
- O-ring size/end caps:
Code 3: 222 double O-ring/flat end
Code 7: 226 double O-ring locking tab/finned end
- Diameter: 70 mm / 2.75 in

Operating Conditions

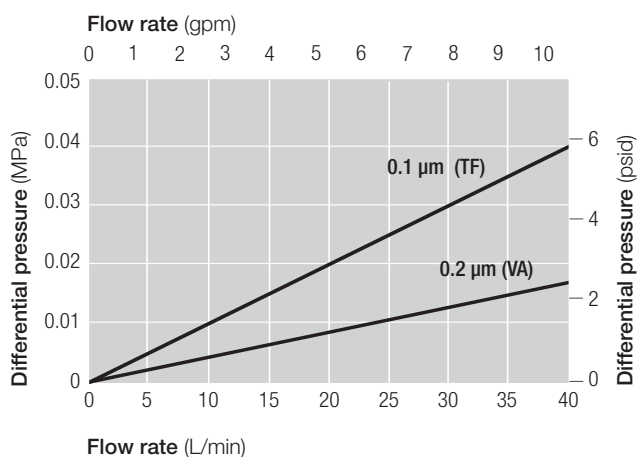
- Maximum operating temperature: 95°C / 203°F
- Maximum forward differential pressure: – Fluorodyne VA: 0.48 MPa @ 82°C / 70 psid @ 180°F
– Fluorodyne TF: 0.31 MPa @ 93°C / 45 psid @ 200°F

Recommended Applications

- Recirculating nickel plating
- Recirculating water/alkaline soaps

¹ Viton and Teflon are registered trademarks of E. I. du Pont de Nemours and Company.

Pressure Drop vs. Liquid Flow Rate²



² For liquids with a viscosity differing from water, multiply the pressure drop by the viscosity in centipoise.

Part Numbers / Ordering Information

Part Number ³	Removal Rating (µm)	Nominal Length (mm / in)	Configuration Code	O-Ring Material ⁴
AB1VA3H1	0.2	254 / 10	3	Teflon encapsulated Viton
AB1VA3J	0.2	254 / 10	3	EPR
AB1VA3HF ³	0.2	254 / 10	3	Viton
AB1VA7H1	0.2	254 / 10	7	Teflon encapsulated Viton
AB1UTF3H1	0.1	254 / 10	3	Teflon encapsulated Viton
AB1UTF3J	0.1	254 / 10	3	EPR
AB1UTF3HF	0.1	254 / 10	3	Viton
AB1UTF7H1	0.1	254 / 10	7	Teflon encapsulated Viton

³ The above filter configurations are also available in 508 mm / 20 in, 762 mm / 30 in, and 1016 mm / 40 in lengths. These can be ordered by changing the fourth digit in the part number to a 2, 3 or 4, respectively.

⁴ Other O-ring materials are available.

Unit conversion: 1 MPa = 10 bar

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