

Duo-Fine® 1401 Series Filter Cartridges

High Surface Area Pleated Filter Cartridges For Critical Applications

- Available in retention ratings of 0.45 to 50 (µm)
- Lifting bail provides quick and easy cartridge change-outs
- High surface area provides long service life
- Internal o-ring seal minimizes contaminant bypass
- Tin and stainless steel hardware provides increased mechanical strength
- Manufactured under ISO 9001 quality system

Performance Specifications

Filter grades

0.45, 3, 10, 30, or 50 µm

Recommended change-out differential pressure¹

2.4 bard (35 psid)

Maximum differential pressure

10.3 bard (150 psid) @ 70°C (158°F)

Maximum operating temperature

121°C (250°F)

Product Specifications

Materials of construction

Filter media:

- | | |
|-------------------|--|
| 50 µm: | Spunbonded polyester |
| All other grades: | Borosilicate microfiberglass with acrylic binder |

Support material: Polyester

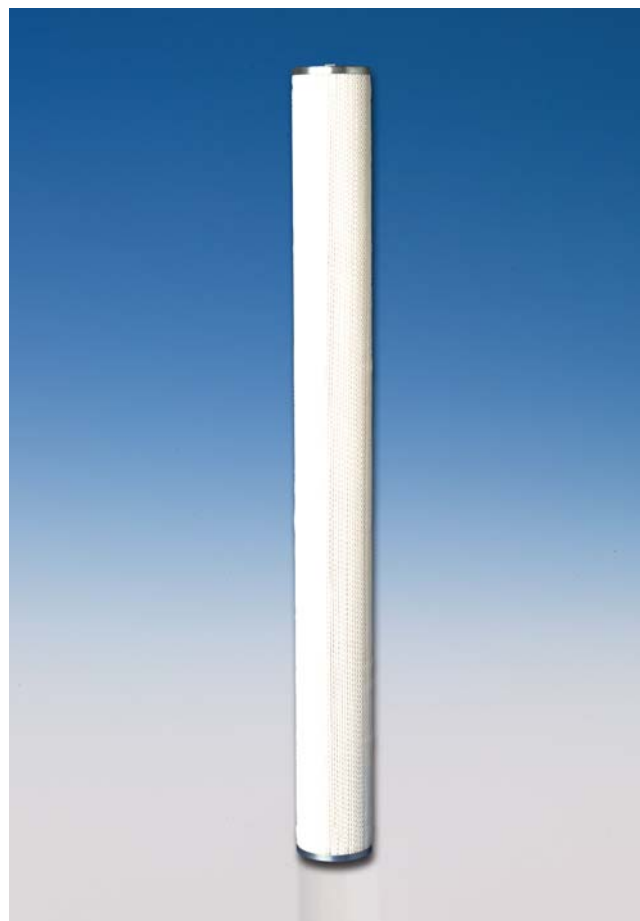
Core: Tin plated steel

End caps: Stainless steel

Outer netting: Polypropylene

Sealing: Epoxy bond

O-ring: Nitrile



Dimensions (nominal)

| | |
|-------------------|--------------------|
| Outside diameter: | 9.5 cm (3.75 in) |
| Inside diameter: | 5.4 cm (2.1 in) |
| Length: | 98.4 cm (38.75 in) |

¹ Provided that the maximum differential pressure is not exceeded based on temperature limits defined above.

Particle Retention Ratings (μm)

| Cartridge Designation | Liquid Service (by ASTM F-795 Test) | | Gas Service |
|-----------------------|-------------------------------------|-------------------|--------------------------------|
| | 90% Efficiency | >99.9% Efficiency | Removal Efficiency by DOP Test |
| DFN 0.45 | 0.45 | 2 | 99.998% |
| DFN 3 | 3 | 10 | — |
| DFN 10 | 10 | 18 | — |
| DFN 30 | 30 | 45 | — |
| DFN 50 | 50 | 75 | — |

Duo-Fine 1401 filter cartridges have been extensively laboratory and field tested to determine removal efficiencies in the most stringent of operating conditions.

The removal rating of any filtration device will depend on, to some extent, the conditions under which it is used or tested. The test results will be influenced by the nature of the fluid, its viscosity, the flow rate, the type of contaminant, and the temperature.

The ratings given above represent the diameter of the largest hard spherical particle that will pass through the filter during standard test. Contact Pall for a complete description of Pall's test procedures.

The DOP test measures the ability of the filter to capture fine particles in air or gas. The retention ratings given above represent the removal efficiencies with respect to an aerosol dispersion of 0.3 μm Dioctyl Phthalate (DOP) particles.

Ordering Information

Pall Part Number = DFN 1 - 1401

Table 1

| Code | Filter grades (μm) |
|------|---------------------------------|
| 0.45 | 0.45 |
| 3 | 3 |
| 10 | 10 |
| 30 | 30 |
| 50 | 50 |



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