



DUO-FINE® II Series Filter Cartridges

Designed to Provide Efficient Particle Removal in Liquid or Gas Systems

- Superior Filtration Performance
- More Economical Than Depth Type Cartridges
- Excellent Classifying Filter
- Optional 100% Bubble Point Testing
- Rigid Polypropylene Outer Cage Protects Filter Media in Harsh Operating Environments
- Available with Extended Core
- Imprinted for Easy Identification
- Excellent Chemical Compatibility

Performance Specifications in Compatible Fluids¹

Filter Grades:

0.2, 0.45, 1, 3, 10, 30, 50 micron (µm) (nominally rated)

Recommended Change Out Differential Pressure²:

35 psid (2.4 bard)

Maximum Differential Pressure:

75 psid (5.2 bard) @ 68°F (20°C)

40 psid (2.8 bard) @ 150°F (65°C)

Sterilization:

All Duo-Fine II Series cartridges may be autoclaved for 30 minutes at 250°F (121°C) under no end load conditions.

Product Specifications

Materials of Construction:

Filter Media:

- 50 µm: Spunbonded Polyester
All Other Grades: Borosilicate Microfiberglass with Acrylic Binder

Support Material: Spunbonded Polyester

Netting: Polypropylene

Hardware: Polypropylene

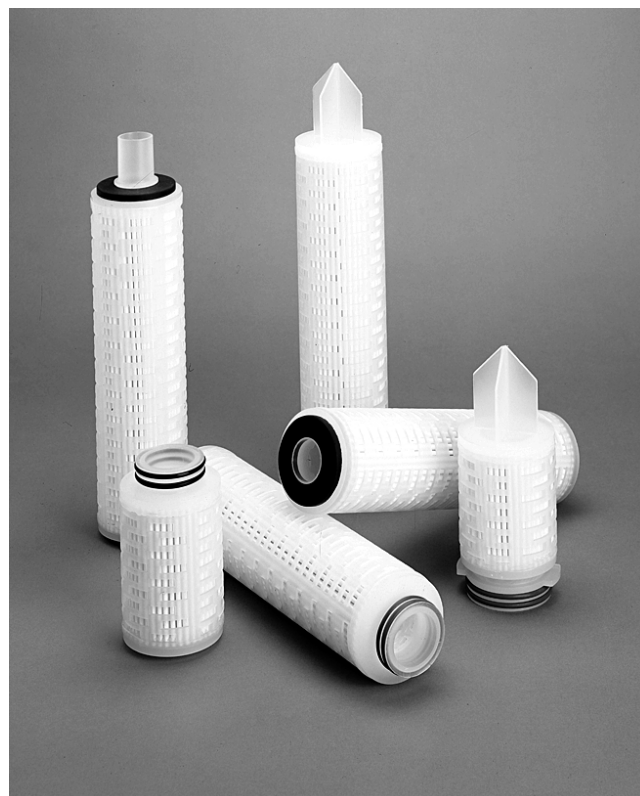
Sealing: Thermal Bond

Gaskets/O-rings: Silicone Elastomer, Buna N, Viton³ A, Nordel, FEP
Encapsulated Silicone,
Expanded PTFE, White Buna N,
White Silicone

Dimensions (nominal):

Outside Diameter: 2 3/8" (6.6 cm)

Lengths: 4" (10.2 cm), 9 3/4" (24.8 cm),
10" (25.4 cm), 19 1/2" (49.5 cm),
20" (50.8 cm), 29 1/4" (74.3 cm),
30" (76.2 cm), 39" (99.1 cm),
40" (102 cm)



Particle Retention (µm)

Cartridge Designation	Liquid Service (by ASTM F-795 Test)		Gas Service
	90% Efficiency	>99.9% Efficiency	Removal Efficiency by DOP Test
DFNT 0.2	0.2	1	99.999%
DFNT 0.45	0.45	2	99.998%
DFNT 1	1	4	96%
DFNT 3	3	10	_____
DFNT 10	10	18	_____
DFNT 30	30	45	_____
DFNT 50	50	75	_____

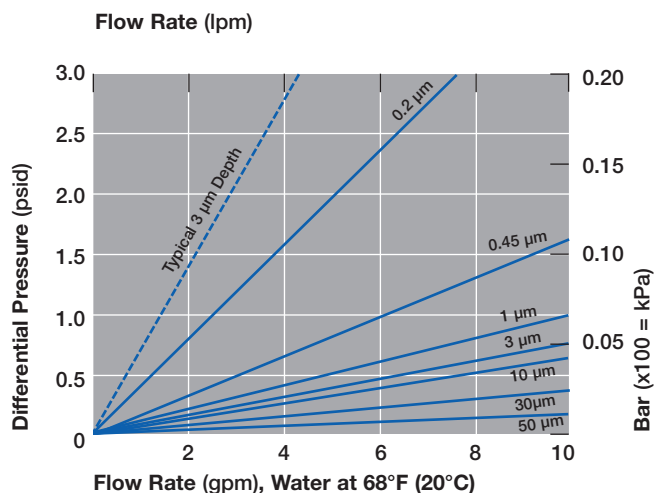
Liquid removal ratings are based on Pall's Dynamic Efficiency test protocol. This single pass, destructive challenge test is based on ASTM F-795 test procedures for determining the performance of a filter.

¹ - Compatible fluids are defined as those which do not swell, soften or attack any of the filter components.

² - Provided that the maximum differential pressure is not exceeded based on temperature limits defined above.

³ - Registered trademark of DuPont Dow Elastomers.

Typical Flow vs. Differential Pressure for Application Sizing



Flow rate is per 10" (25.4 cm) cartridge. For liquids other than water, multiply pressure drop by fluid viscosity (cP).

Part Numbers/Ordering Information

DFNT ■ – ● U ◆ – ▼ ☆ – * (e.g. DFNT 0.2–10UN–M3B–BLK)

Code ■	Filter Grades
0.2	0.2 µm
0.45	0.45 µm
1	1 µm
3	3 µm
10	10 µm
30	30 µm
50	50 µm

Code ●	Cartridge Lengths (nominal)
4	4"
9.75	9.75"
10	10"
19.5	19.5"
20	20"
29.25	29.25"
30	30"
39	39"
40	40"

Code ◆	Gasket/O-ring Materials
S	Silicone
N	Buna N
E	Nordel
V	Viton A
T	FEP Encapsulated Silicone (O- rings)
M	White Silicone
W	White Buna N (gaskets)
X	No O-ring required (M2 style only)
T	Expanded PTFE (gaskets)

⁴ - For details, contact Pall Corporation.

Code ▼	End Configurations
Blank	DOE with elastomer gasket seals & end caps
1X	DOE 1" (2.54 cm) extended core
M2	SOE flat closed end, fits housings with 020 O-ring post
M3	SOE flat closed end, external 222 O-rings (retrofits other manufacturers' Code 0) ⁴
M3H	SOE large diameter closed end external 222 O-rings
M5	DOE, internal 120 O-rings (retrofits 213 O-ring style) ⁴
M6	SOE flat closed end, external 226 O-rings (retrofits other manufacturers' Code 6) ⁴
M7	SOE fin end, external 226 O-rings (retrofits other manufacturers' Code 7) ⁴
M8	SOE fin end, external 222 O-rings (retrofits other manufacturers' Code 5) ⁴
M10	DOE, internal O-rings (fits other manufacturers' housings) ⁴
M11	SOE flat closed end, internal 120 O-ring (retrofits other manufacturers' X style) ⁴
M20	SOE with internal O-rings (same as M10), closed end with deep recess

Code ☆	Bubble Test Option	Code *	Packaging
Blank	Sample Bubble Tested	Blank	Standard Packaging
B	100% Bubble Test	-BLK	Bulk Packaging ⁴



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