

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 Specifications¹

Filter grades

0.2, 0.45, 1, 3, 10, 30, 50 µm

Recommended change-out differential pressure² 2.4 bard (35 psid)

Maximum differential pressure

4.8 bard (70 psid) @ 20°C (68°F) 2.8 bard (40 psid) @ 65°C (150°F)

Sterilization

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

- ¹ With compatible fluids that 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.

Duo-Fine[®] II Series Filter Cartridges



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, nitrile,
	fluorocarbon elastomer,
	hydrocarbon rubber, FEP
	encapsulated silicone, expanded
	PTFE, white nitrile, white silicone

Dimensions (nominal)

Outside diameter	6.6 cm (2.6 in)
Lengths:	10.2 cm (4 in),

10.2 cm (4 in), 24.8 cm (9.75 in), 25.4 cm (10 in), 49.5 cm (19.5 in), 50.8 cm (20 in), 74.3 cm (29.25 in),

76.2 cm (30 in), 99.1 cm (39 in), 101.6 cm (40 in)

Particle Retention (µm)

	Liquid Service (by ASTM F-795 Test)		Gas Service
Cartridge Designation	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.



Typical Flow vs. Differential Pressure for Application Sizing

Unit conversion: 1 bar = 100 kPa

Flow rate is for a 25.4 cm (10 in) cartridge. For liquids other than water, multiply differential pressure by fluid viscosity (cP).

Ordering Information

1 – 2 U 3 – Pall Part Number = DFNT 5 6 4

Table 1		
Code	Filter grades (µm)	
0.2	0.2	
0.45	0.45	
1	1	
3	3	
10	10	
30	30	
50	50	

Table 2

Code	Cartridge lengths (cm/in) nominal
4	10.2/4
9.75	24.8/9.75
10	25.4/10
19.5	49.5/19.5
20	50.8/20
29.25	74.3/29.25
30	76.2/30
39	99.1/39
40	101.6/40

Table 3		
Code	Gasket/O-ring materials	
S	Silicone	
Ν	Nitrile	
E	Hydrocarbon rubber	
V	Fluorocarbon elastomer	
Т	FEP encapsulated silicone (O-rings)	
Μ	White silicone	
W	White nitrile (gaskets)	
Х	No O-ring required (M2 style only)	
Т	Expanded PTFE (gaskets)	

Table 4

Code	End configurations
Blank	DOE with elastomer gasket seals and end caps
1X	DOE 2.54 cm (1 in) 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) ³
МЗН	SOE large diameter closed end external 222 O-rings
M5	DOE, internal 120 O-rings (retrofits 213 O-ring style) ³
M6	SOE flat closed end, external 226 O-rings (retrofits other manufacturers' Code 6) ³
M7	SOE fin end, external 226 O-rings (retrofits other manufacturers' Code 7) ³
M8	SOE fin end, external 222 O-rings (retrofits other manufacturers' Code 5) ³
M10	DOE, internal O-rings (fits other manufacturers' housings) ³
M11	SOE flat closed end, internal 120 O-ring (retrofits other manufacturers' X style) ³
M20	SOE with internal O-rings (same as M10), closed end with deep recess

Table 5		Table 6	
Code	Bubble test option	Code	Packaging
Blank	Sample bubble tested	Blank	Standard packaging
В	100% bubble test	-BLK	Bulk packaging ³

³ For details, contact Pall Corporation.



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