

## Duo-Fine® P Series Filter Cartridges

### High Surface Area Pleated Cartridges With Polyester Hardware

- High surface area pleated cartridges combine excellent retention characteristics with high contaminant-holding capacity
- Polyester hardware provides excellent compatibility
- Available in retention ratings of 0.2 to 50 µm
- Thermal bonding eliminates epoxy potting, adhesives and glues
- Manufactured under ISO 9001 quality system

### Performance Specifications

#### Filter grades

0.2, 0.45, 1, 3, 10, 30, 50 µm

#### Recommended change-out differential pressure<sup>1</sup>

2.4 bard (35 psid)

#### Maximum differential pressure

5.2 bard (75 psid) @ 20°C (68°F)

2.8 bard (40 psid) @ 93°C (200°F)

#### Maximum operating temperature<sup>2</sup>

93°C (200°F)

### Product Specifications

#### Materials of construction

Filter media:

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

Support material: Polyester

Hardware: Polyester

Sealing: Thermal bond

Gaskets/O-rings: Fluorocarbon elastomer, nitrile, hydrocarbon rubber, silicone elastomer, FEP encapsulated silicone



#### Dimensions (nominal)

Outside Diameter: 6.4 cm (2.5 in)

Lengths (tip-to-tip): 25.4 cm (10 in), 50.8 cm (20 in),  
76.2 cm (30 in), 78.5 cm (30.9 in),  
101.6 cm (40 in)

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

<sup>2</sup> With compatible fluids.

## Particle Retention (µm)

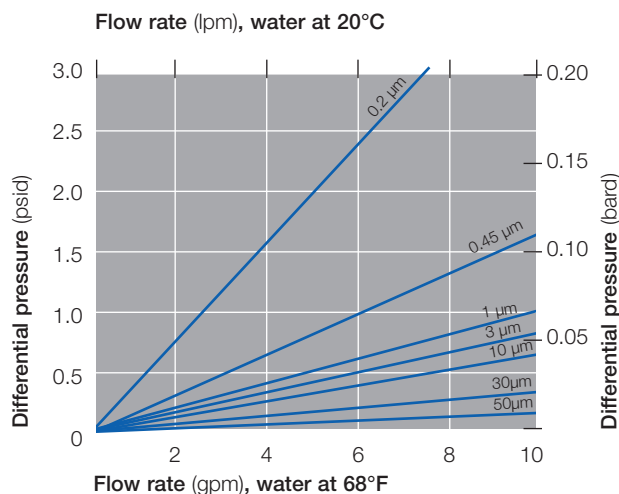
Cartridge Designation	Liquid Service (by ASTM F-795 Test)		Gas Service
	90% Efficiency	>99.9% Efficiency	Removal Efficiency by DOP Test
DFPT 0.2	0.2	1.0	99.999%
DFPT 0.45	0.45	2.0	99.998%
DFPT 1	1.0	4.0	96%
DFPT 3	3.0	10.0	_____
DFPT 10	10.0	18.0	_____
DFPT 30	30.0	45.0	_____
DFPT 50	50.0	65.0	_____

Duo-Fine P Series 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. Consult Pall for a complete description of Pall's test procedures.

## 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

Pall Part Number = DFPT 1 - 2 E 3 - 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 3

Code	Gasket/O-ring materials
S	Silicone
N	Nitrile
E	Hydrocarbon rubber
V	Fluorocarbon elastomer
T	FEP encapsulated silicone (O-rings)

Table 2

Code	Cartridge lengths (cm/in) nominal
10	25.4/10
20	50.8/20
30	76.2/30
30.9	78.5/30.9
40	101.6/40

Table 4

Code	End configurations
DOE	DOE with elastomer gasket seals & end caps
M3	SOE flat closed end, external 222 O-rings (retrofits other manufacturers' Code 0) <sup>3</sup>
M8	SOE fin end, external 222 O-rings (retrofits other manufacturers' Code 5) <sup>3</sup>

<sup>3</sup> For details, contact Pall Corporation.



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