

## Poly-Fine® II Series Filter Cartridges

### Prefilter for Final Membrane Applications

- Proprietary filter media produced by Pall for highly consistent performance
- High contaminant-holding capacity
- Wide chemical compatibility
- Rigid polypropylene outer cage protects filter
- All polypropylene one piece construction (except 0.2 micron)
- Asymmetric polysulfone media used in 0.2 µm grade
- Fast rinse-up to 18 Megohm-cm

### Performance Specifications

#### Filter grades

0.2, 0.25, 0.45, 0.8, 2, 3, 5, 10, 30, 50, 100 µm

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

2.4 bard (35 psid)

#### Maximum forward differential pressure

4.8 bard (70 psid) @ 20°C (68°F)

2.8 bard (40 psid) @ 65°C (150°F)

#### Food and water contact use

Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

#### Cartridge rinse-up

Rinse-up to 18 Megohm-cm with a minimum of throughput.

#### Purity

Cartridges are free of resins, binders, and adhesives.

#### Sterilization:

Multiple autoclaving for 30 minutes at 121°C (250°F) under no end load conditions. In-line steam sterilization is not recommended. May be in-line sanitized with hot water at 82°C (180°F) for 1 hour.



### Product Specifications

#### Materials of construction

Filter media:

PFT 0.2: Highly asymmetric polysulfone

All other grades: Polypropylene

Hardware: Polypropylene

Sealing: Thermal bond

Support material: Polypropylene

Gaskets/O-rings: Silicone elastomer, nitrile, EPDM, fluorocarbon elastomer, white nitrile, white silicone, expanded PTFE, FEP encapsulated silicone, high purity fluorocarbon elastomer, FEP encapsulated fluorocarbon elastomer, Kalrez<sup>2</sup>, white neoprene

#### Dimensions (nominal)

Outside diameter: 6.6 cm (2.6 in)

Lengths: 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), 102 cm (40 in)

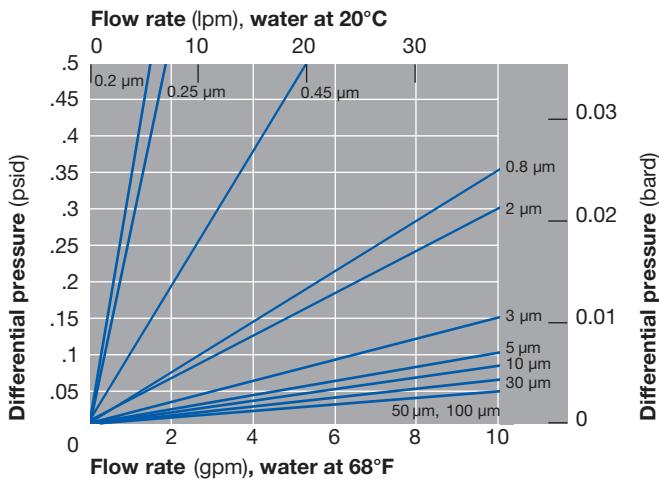
<sup>1</sup> Provided that the maximum differential pressure is not exceeded based on temperature limits defined above.

<sup>2</sup> Registered trademark of DuPont Dow.

## Particle Retention (µm)

Cartridge Designation	Liquid Service (by ASTM F-795 Test)		Gas Service
	90% Efficiency	>99.9% Efficiency	Removal Efficiency By DOP Test
PFT 0.2	0.2	0.5	99.99%
PFT 0.25	0.25	1.0	99.97%
PFT 0.45	0.45	1.2	99.93%
PFT 0.8	0.8	2.5	99.90%
PFT 2.0	2	5	_____
PFT 3.0	3	7	_____
PFT 5.0	5	12	_____
PFT 10.0	10	15	_____
PFT 30.0	30	40	_____
PFT 50.0	50	65	_____
PFT 100.0	85	100	_____

## Typical Flow vs. Differential Pressure for Application Sizing



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

Unit conversion: 1 bar = 100 kPa

## Ordering Information

Pall Part Number = PFT 1 - 2 U 3 - 4 5 6 - 7

**Table 1**

Code	Filter grades (µm)
0.2	0.2
0.25	0.25
0.45	0.45
0.8	0.8
2	2
3	3
5	5
10	10
30	30
50	50
100	100

**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 (standard O-rings)
N	Nitrile (standard gaskets)
M	White silicone
W	White nitrile (gaskets)
V	Fluorocarbon elastomer
E	EPDM
T	FEP encapsulated silicone (O-rings)
T	Expanded PTFE (gaskets)
X	No O-ring required (M2 style only)
F	FEP encapsulated fluorocarbon elastomer (O-rings)
K	Kalrez (222 O-rings)
Q	High purity fluorocarbon elastomer (222 O-rings)
Z	White neoprene (gaskets)

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

**Table 4**

Code	End configurations
Blank	DOE industrial
1X	DOE industrial, 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) <sup>3</sup>
M3H	SOE large diameter closed end, external 222 O-rings
M4	SOE fin end, external 222 O-rings with locking tabs
M5	DOE, internal 120 O-rings (retrofits 213 O-ring style) <sup>3</sup>
M6	SOE flat closed end, external 226 O-rings (retrofits other manufacturers' Code 6) <sup>3</sup>
M7	SOE fin end, external 226 O-rings (retrofits other manufacturers' Code 7) <sup>3</sup>
M8	SOE fin end, external 222 O-rings (retrofits other manufacturers' Code 5) <sup>3</sup>
M10	DOE, internal O-rings (fits other manufacturers' housings) <sup>3</sup>
M11	SOE flat closed end, internal 120 O-ring (retrofits other manufacturers' X style) <sup>3</sup>
M18	SOE flat closed end, external 222 O-ring
M20	SOE, internal O-ring (same as M10), closed end with deep recess
M22	SOE fin end, external 225 O-ring

**Table 5**

Code	Bubble test option
Blank	No bubble test
B	100% bubble best

**Table 6**

Code	Pre-rinse option
Blank	No pre-rinse
414	100% pre-rinse

**Table 7**

Code	Packaging
Blank	Standard packaging
-BLK	Bulk packaging



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