



## POLY-FINE® II Series Filter Cartridges

- Proprietary Filter Media Produced Directly 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 (µm))
- Submicron Prefilter for Final Membrane Application
- 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

#### Maximum Forward Differential Pressure:

70 psid (4.8 bard) @ 120°F (49°C)

50 psid (3.4 bard) @ 180°F (82°C)

#### Recommended Change Out Differential Pressure<sup>1</sup>:

35 psid (2.4 bard)

#### FDA Listed Materials:

Manufactured from materials, which are FDA listed for food contact applications in Title 21 of the U.S. **Code of Federal Regulations**.

#### Toxicity:

All polypropylene components meet the specifications for biological safety as per the **USP** for Class VI-121°C plastics (gaskets/O-rings excluded).

#### 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 250°F (121°C) under no end load conditions. In-line steam sterilization is not recommended. May be in-line sanitized with hot water at 180°F (82°C) 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, Buna N, EPDM, Viton<sup>2</sup> A, White Silicone, White Buna N, Expanded PTFE, FEP Encapsulated Silicone, FEP Encapsulated Viton A, Kalrez<sup>2</sup>, Valqua, White Neoprene



#### 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)

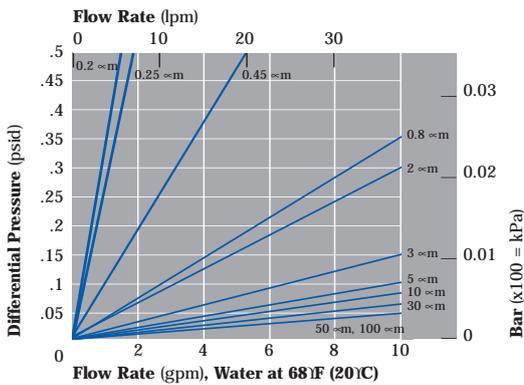
#### Particle Retention (µm)

Cartridge Designation	Liquid Service (by ASTM F-795 Test)		Gas Service
	90% Efficiency	>99.9% Efficiency	Removal Efficiency By DOP Test
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	_____

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

<sup>2</sup> - Registered trademarks 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 differential pressure by fluid viscosity (cP).

### Part Numbers/Ordering Information

PFT ■ - ● U ◆ - ▼ ☆ ▶ - \* (e.g., PFT 0.2-10US-M3B414-BLK)

Code	Filter Grades
0.2	0.2 μm
0.25	0.25 μm
0.45	0.45 μm
0.8	0.8 μm
2	2 μm
3	3 μm
5	5 μm
10	10 μm
30	30 μm
50	50 μm
100	100 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 (standard O-rings)
N	Buna N (standard gaskets)
M	White Silicone
W	White Buna N (gaskets)
V	Viton A
E	EPDM
T	FEP Encapsulated Silicone (O-rings)
T	Expanded PTFE (gaskets)
X	No O-ring required (M2 style only)
F	FEP Encapsulated Viton A (O-rings)
K	Kalrez (222 O-rings)
Q	Valqua (222 O-rings)
Z	White Neoprene (gaskets)

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

Code	End Configurations
Blank	DOE industrial
1X	DOE industrial, 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) <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>
M20	SOE, internal O-ring (same as M10), closed end with deep recess
M22	SOE fin end, external 225 O-ring

Code	Bubble Test Option
Blank	No Bubble Test
B	100% Bubble Test

Code	Pre-Rinse Option	Code	Packaging
Blank	No Pre-Rinse	Blank	Standard Packaging
414	100% Pre-Rinse	-BLK	Bulk Packaging



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