



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:

75 psid (5.1 bard) @ 68°F (20°C)

40 psid (2.8 bard) @ 150°F (65°C)

Recommended Change Out Differential Pressure¹:

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, Nitrile, EPDM, Fluorocarbon Elastomer, White Nitrile, White Silicone, Expanded PTFE, FEP Encapsulated Silicone, High Purity Fluorocarbon Elastomer, FEP Encapsulated Fluorocarbon Elastomer, Kalrez², 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)

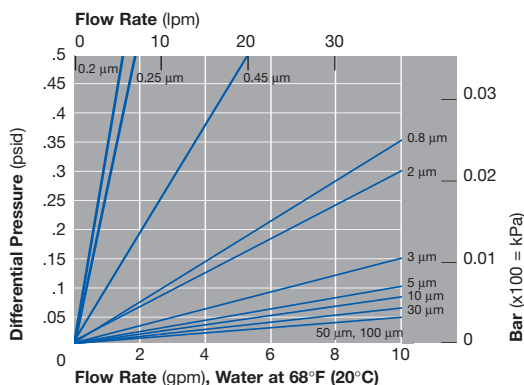
Particle Retention (µm)

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	_____

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

² - Registered trademark of DuPont Dow Elastomers.

Typical Flow vs. Differential Pressure for Application Sizing



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	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)

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

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) ³
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) 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
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

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

³ - For details, contact Pall Corporation.

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