



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)

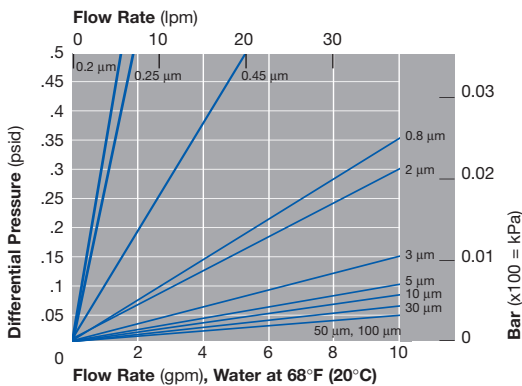
Particle Retention (µm)

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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