



## MICROPAK™ PF Series Filter Elements

### Coreless Filter Elements with Polypropylene Media

- Proprietary Filter System for use with Reusable Micropak Cores
- High Contaminant Holding Capacity and Non-Fiber Releasing
- Wide Chemical Compatibility
- Submicron Pre-filter for Final Membrane Application
- All Polypropylene One Piece Construction Except 0.2 micron (µm) Made With Asymmetric Polysulfone Media
- Pressure Energized Gasket-to-Core Sealing System

### Performance Specifications

#### Filter Grades:

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

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

35 psid (2.4 bard)

#### Maximum Operating Temperature:

180°F (82°C)

#### FDA Listed Materials:

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

#### Toxicity:

All components meet the specifications for biological safety as per the **USP** for Class VI-50°C plastics (gaskets excluded).

#### Sterilization:

Multiple autoclaving for 30 minutes at 250°F (121°C) under no end load conditions is permitted provided cores are inserted. 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:

0.2 µm:	Highly Asymmetric Polysulfone
All Other Grades:	Polypropylene
Netting (standard):	Polypropylene
Cage (optional):	Polypropylene
End Caps:	Polypropylene
Support Material:	Polypropylene
Sealing:	Thermal Bond
Gaskets:	Silicone Elastomer, Buna N, EPDM, Viton <sup>2</sup> A

#### Dimensions (nominal):

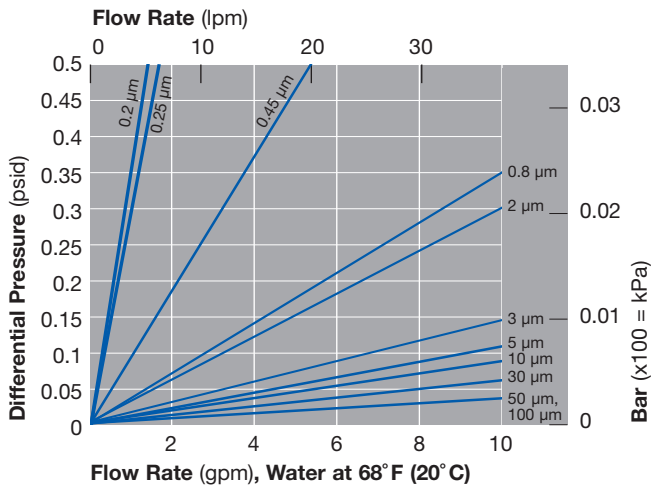
Outside Diameter:	2 3/8" (6.6 cm)
Lengths:	9 3/4" (24.8 cm), 10" (25.4 cm), 19 1/2" (49.5 cm), 20" (50.8 cm), 29 1/4" (74.3 cm), 30" (76.2 cm), 39 1/2" (100.3 cm), 40" (102 cm)



<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 Elastomers.

## Typical Flow vs. Differential Pressure for Application Sizing



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

## Part Numbers/Ordering Information

MPPF ▼ ■ – ● ◆ ▶ (e.g., MPPF-H2-10SU)

Code ▼	End Cap Materials	Code ■	Filter Grades
Blank	Standard Blind End Cap	0.2	0.2 µm
-H	Larger Diameter Blind End Cap for use in Horizontal Housings	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

## Particle Retention (µm)

Element Designation	Liquid Service	Gas Service
	90% Efficiency	Absolute (>99.9% Efficiency)
		Removal Efficiency By DOP Test
MPPF 0.2	0.2	0.5
MPPF 0.25	0.25	1.0
MPPF 0.45	0.45	1.2
MPPF 0.8	0.8	2.5
MPPF 2	2	5
MPPF 3	3	7
MPPF 5	5	12
MPPF 10	10	15
MPPF 30	30	40
MPPF 50	50	65
MPPF 100	85	100

Liquid removal ratings are based on Pall's Dynamic Efficiency test protocol. This single pass, destructive challenge test is based on ASTM F795 test procedures for determining the performance of a filter medium.

Code ●	Element Lengths (nominal)	Code ◆	Gasket Materials
9.75	9.75"	S	Silicone
10	10"	E	EPDM
19.5	19.5"	N	Buna N
20	20"	V	Viton A
29.25	29.25"		
30	30"		
39.5	39.5"		
40	40"		

Code ▶	Netting/Cage (Polypropylene)
U	Netting
C	Cage

# LENNTECH

info@lennotech.com

www.lennotech.com

Tel. +31-15-261.09.00

Fax. +31-15-261.62.89

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