Pall Corporation

MICROPAK™ DF Series Filter Elements

Coreless Filter Elements with Microfiberglass Media

- Proprietary Filter System for use with Reusable Micropak Cores
- High Surface Area for Long Service Life
- Superior Filtration Performance
- Excellent for Classifying Filtration
- Highly Consistent Microfiberglass Media
- Wide Chemical Compatibility
- Choice of Outside Netting or Hard Cage
- Polypropylene or Polyester End Caps Available
- Pressure Energized Gasket-to-Core Sealing System

Performance Specifications

Filter Grades:
0.2, 0.45, 1, 3, 10, 30, 50 micron (µm)

Recommended Change Out Differential Pressure[1]:
35 psid (2.4 bard)

Maximum Operating Temperature:
Polypropylene end caps and netting = 180°F (82°C)
Polyester end caps and netting = 200°F[2] (93°C)

Product Specifications

Materials of Construction:

Filter Media:	
50 µm	Spunbonded Polyester
All Other Grades	Borosilicate Microfiberglass with Acrylic Binder
Netting (standard):	Polypropylene or Polyester
Cage (optional):	Polypropylene
End Caps:	Polypropylene or Polyester
Support Material:	Spunbonded Polyester
Sealing:	Thermal Bond
Gaskets:	Silicone Elastomer, Buna N, EPDM, Viton[3] A

Dimensions (nominal):

Outside Diameter:	2 ⅗" (6.6 cm)
Lengths:	9 ¾" (24.8 cm), 10" (25.4 cm), 19 ½" (49.5 cm), 20" (50.8 cm), 29 ¼" (74.3 cm), 30" (76.2 cm), 39 ½" (100.3 cm), 40" (102 cm)

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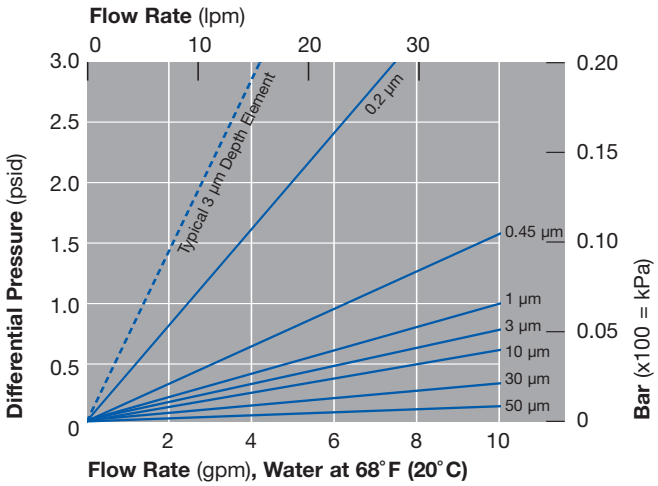
[1] - Provided that the maximum differential pressure is not exceeded based on temperature limits defined above.

[2] - Non-aqueous environment. For complete chemical/thermal compatibility information, consult your Pall representative.

[3] - 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).

Particle Retention (µm)

Element Designation	Liquid Service		Gas Service
	90% Efficiency	Absolute (>99.9% Efficiency)	DOP Retention
MPDF 0.2	0.2	1	99.999%
MPDF 0.45	0.45	2	99.998%
MPDF 1	1	4	96%
MPDF 3	3	10	———
MPDF 10	10	18	———
MPDF 30	30	45	———
MPDF 50	50	75	———

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.

Part Numbers/Ordering Information

MPDF ■ – ● ◆ ▼ ◗ (e.g., MPDF 3–10NEE)

Code ■	Filter Grades
0.2	0.2 µm
0.45	0.45 µm
1	1 µm
3	3 µm
10	10 µm
30	30 µm
50	50 µm

Code ●	Element Lengths (nominal)
9.75	9.75"
10	10"
19.5	19.5"
20	20"
29.25	29.25"
30	30"
39.5	39.5"
40	40"

Code ◆	Gasket Materials
S	Silicone
E	EPDM
N	Buna N
V	Viton A

Code ▼	End Cap Materials
U	Polypropylene
E	Polyester

Code ◗	Netting/Cage Materials
U	Polypropylene
E	Polyester
C	Cage (Polypropylene only)

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Filtration. Separation. Solution.SM

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