LENNTECH
info@lenntech.com
www.lenntech.com
Tel. +31-15-261.09.00
Fax. +31-15-261.62.89



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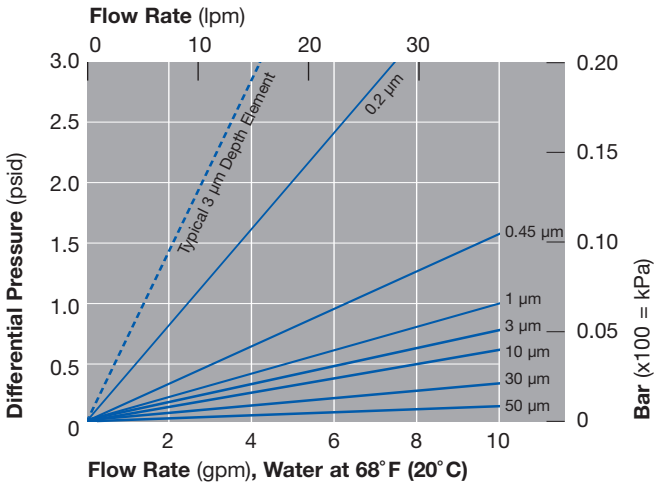
[1] - Provided that the maximum differential pressure is not exceeded based on temperature limits defined above.

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

[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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Bulletin #1613-2C 5/05 3M BRD