



## MICROPAK™ NEXIS® A Series Filter Elements

### Depth Filter Elements with CoLD Fiber Technology

- Proprietary Filter System for use with Reusable Micropak Cores
- Continuous Gradient Pore Structure
- Melt Blown Micro-Fiber Filtration
- Excellent Chemical Compatibility
- All Polypropylene One Piece Construction
- Resists Contaminant Unloading Even at High Differential Pressure
- Absolute Rated at >99.9% Efficiency With Retention Ratings From 0.5 to 120 microns (µm)
- Element Free of Adhesives, Binders and Silicone
- Pressure Energized Gasket-to-Core Sealing System

### Performance Specifications

Filter Grades (>99.9% Retention Rating by ASTM F-795 Test):

0.5, 1, 3, 5, 10, 20, 30, 40, 50, 70, 90, 120 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 polypropylene components meet the specifications for biological safety as per the USP for Class VI-50°C plastics (gaskets excluded).

Autoclaving:

Multiple autoclaving for 30 minutes at 250°F (121°C) under no end load conditions is permitted provided cores are inserted. However, filter elements should be allowed to cool to normal system operating temperatures prior to use. In-line steam sterilization is not recommended.

### Product Specifications

Materials of Construction:

Filter Media: Polypropylene  
End Caps: Polypropylene  
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)



### Liquid Retention Ratings (µm)

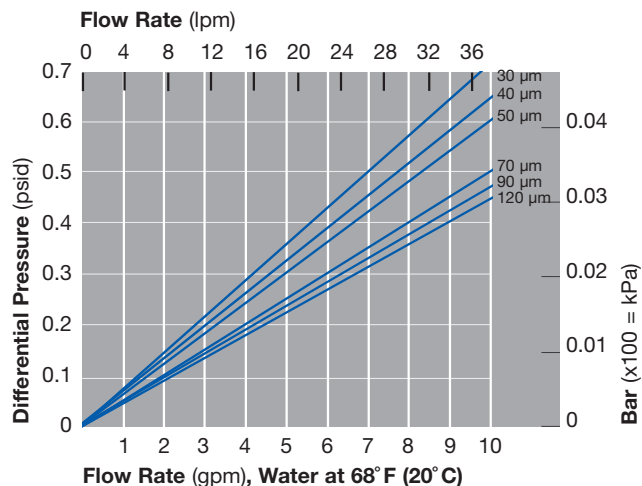
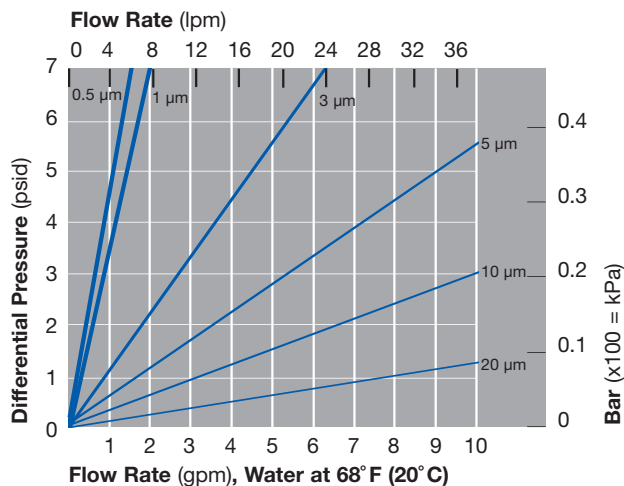
| Cartridge Designation | 99.9% Efficiency | 90% Efficiency |
|-----------------------|------------------|----------------|
| MPNA 0.5              | 0.5              | < 0.5          |
| MPNA 1                | 1                | 1              |
| MPNA 3                | 3                | 2              |
| MPNA 5                | 5                | 4              |
| MPNA 10               | 10               | 5              |
| MPNA 20               | 19               | 13             |
| MPNA 30               | 27               | 18             |
| MPNA 40               | 36               | 20             |
| MPNA 50               | 46               | 27             |
| MPNA 70               | 65               | 42             |
| MPNA 90               | 85               | 55             |
| MPNA 120              | 105              | 65             |

*Liquid retention 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. Fine test dust is used as the test contaminant for filters in the 0.5 to 20 micron range. Coarse test dust is used for micron ratings above 20 micron. Additional information can be obtained by contacting Pall.*

<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

MPNA ■ – ● ◆ (e.g., MPNA 20–10S)

| Code<br>■ | Filter<br>Grades |
|-----------|------------------|
| 0.5       | 0.5 µm           |
| 1         | 1 µm             |
| 3         | 3 µm             |
| 5         | 5 µm             |
| 10        | 10 µm            |
| 20        | 20 µm            |
| 30        | 30 µm            |
| 40        | 40 µm            |
| 50        | 50 µm            |
| 70        | 70 µm            |
| 90        | 90 µm            |
| 120       | 120 µm           |

| Code<br>● | Element<br>Lengths<br>(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<br>◆ | Gasket<br>Materials |
|-----------|---------------------|
| S         | Silicone            |
| E         | EPDM                |
| N         | Buna N              |
| V         | Viton A             |

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