



MICROPAK™ NEXIS® T Series Filter Elements

Depth Filter Elements with CoLD Fiber Technology

- Proprietary Filter System for use with Reusable Micropak Cores
- High Contaminant Holding Capacity
- Resists Contaminant Unloading Even at High Differential Pressure
- Wide Chemical Compatibility
- Automated CoLD Manufacturing Process Increases Product Consistency
- Easy and Safe Element Incineration and Disposal
- All Polypropylene Construction
- Element Free of Adhesives, Binders and Silicone
- Pressure Energized Gasket-to-Core Sealing System

Performance Specifications

Filter Grades:

0.5, 1, 3, 5, 7, 10, 15, 20, 25, 30, 40, 50, 75, 100, 120, 150, 200 micron (µm)

Recommended Change Out Differential Pressure¹:

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, Viton² 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)

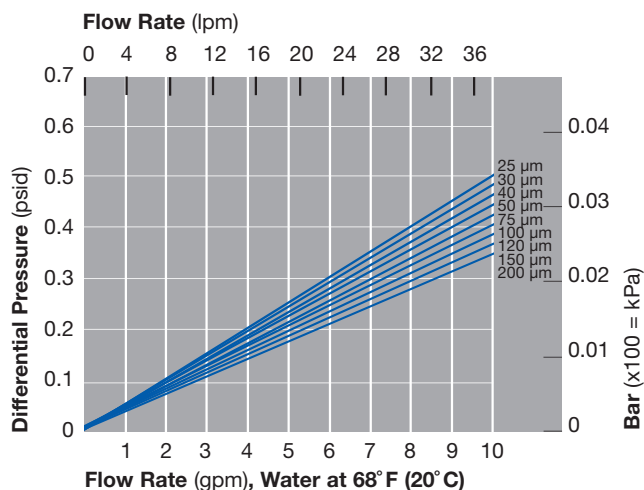
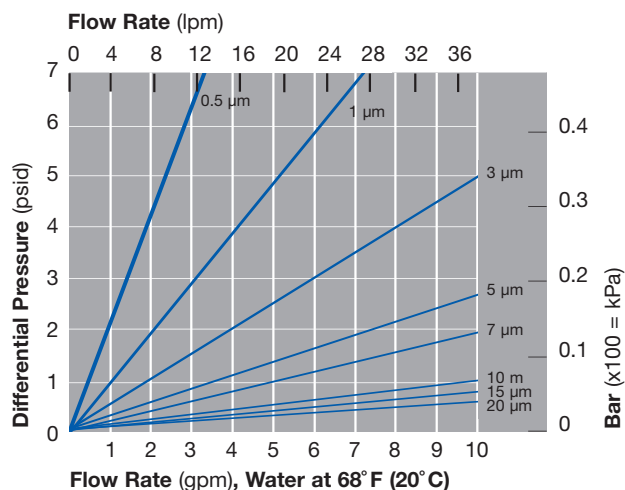


Pall's proprietary CoLD fiber technology is designed to assure efficient use of the entire gradient depth of the filter. The proprietary CoLD MELT process produces a mixture of micro-thin fibers intermingled and thermally bonded with large diameter CoLD fibers to provide an integral support and fluid transport network. The large internal void area created by the CoLD process enables these cartridges to capture more contaminant, while the rigid support fibers hold the filtration fibers firmly in place. The result is no random unloading of contaminant and more efficient filtration under a variety of operating conditions.

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



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

Due to the very low flow resistance of the media in the more open grades, pressure drop is primarily related to turbulent loss through the center core.

Part Numbers/Ordering Information

MPNT ■ – ● ◆ (e.g., MPNT 5–10S)

Code ■	Filter Grades		
0.5	0.5 µm	30	30 µm
1	1 µm	40	40 µm
3	3 µm	50	50 µm
5	5 µm	75	75 µm
7	7 µm	100	100 µm
10	10 µm	120	120 µm
15	15 µm	150	150 µm
20	20 µm	200	200 µm
25	25 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

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