



## NEXIS® A Series Filter Cartridges

- Absolute Rated at >99.9% Efficiency With Retention Ratings From 0.5 to 120 µm
- Proprietary CoLD Fiber Technology
- Resists Contaminant Unloading Even at High Differential Pressures
- Micro-Denier Melt Blown Filtration Fibers
- Media Manufactured With A Continuous Gradient Pore Structure
- All Polypropylene Construction
- Free of Adhesives, Binders, Resins and Silicone
- Proprietary Center Core for Added Strength (0.5 - 20 µm)
- Fast Rinse-up to 18 Megohm-cm
- Certification of Conformance Including Lot Identification

### 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 µm

#### Maximum Differential Pressure:

0.5-20 µm: 15 psid (1.03 bard) @ 180°F (82°C)  
25 psid (1.72 bard) @ 150°F (66°C)  
60 psid (4.14 bard) @ 86°F (30°C)

30-120 µm: 25 psid (1.72 bard) @ 140°F (60°C)  
50 psid (3.45 bard) @ ambient

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

35 psid (2.4 bard)

#### FDA Listed Materials:

Manufactured from materials, which are listed for food contact applications in Title 21 of the U.S. **Code of Federal Regulations**. Product (5 micron and higher) in compliance with EU Directive 2002/72/EC for plastic in food contact (in stimulants A, B, C and D).

#### Toxicity:

All polypropylene components meet the specifications for biological safety as per the **USP** for Class VI-121°C plastics (gaskets/O-rings excluded).

#### Purity:

Nexis A Series filter cartridges are free of adhesives, binders, resins and silicone.

#### Rinse-Up:

Rinse-up to 18 Megohm-cm with a minimum of throughput.

#### Autoclaving:

Single open end Nexis Series filter cartridges can be autoclaved for 30 minutes at 250°F (121°C) under no end load conditions. However, filter cartridges should be allowed to cool to normal system operating temperatures prior to use.

#### Steam Sterilization:

Not recommended.

### Product Specifications

#### Materials of Construction:

Filter Media: Polypropylene  
Hardware: Polypropylene  
Gaskets/O-rings: Silicone Elastomer, EPDM, Viton<sup>2</sup> A, Buna N, Santoprene<sup>3</sup> (DOE only), FEP, FEP Encapsulated Silicone, FEP Encapsulated Viton A



#### Dimensions (nominal):

Outside Diameter: 2 1/2" (6.4 cm)  
Lengths: 4" (10.2 cm), 5" (12.7 cm),  
9 3/4" (24.8 cm), 9 7/8" (25.1 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" (99.1 cm),  
39 1/2" (100.3 cm), 40" (102 cm)

#### Liquid Retention Ratings (µm) (by ASTM F-795 Test)

Cartridge Designation	99.9% Efficiency	90% Efficiency
NXA 0.5	0.5	< 0.5
NXA 1	0.95	0.65
NXA 3	2.8	1.5
NXA 5	4.1	3.4
NXA 10	9.5	4.7
NXA 20	18.5	13
NXA 30	27	18
NXA 40	36	20
NXA 50	46	27
NXA 70	65	42
NXA 90	85	55
NXA 120	105	65

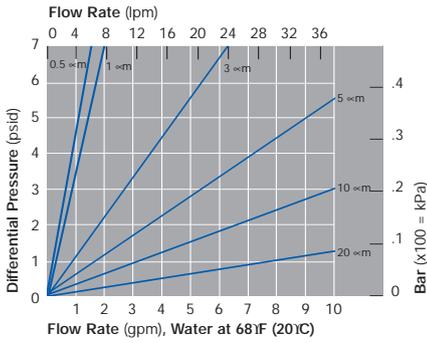
Nexis A Series filter cartridge retention ratings are based on Pall's Dynamic Efficiency test protocol. This single pass, destructive challenge test is based on ASTM F-795 test procedures for determining the performance of a filter medium. Fine test dust is used as the test contaminant for filters in 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 Corporation.

<sup>1</sup> - Provided that the maximum differential pressure is not exceeded based on temperature limits defined above.

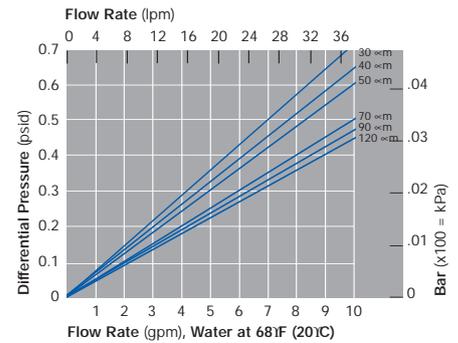
<sup>2</sup> - Registered trademark of DuPont Dow.

<sup>3</sup> - Registered trademark of Advanced Elastomer Systems.

## Typical Flow vs. Differential Pressure for Application Sizing



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



## Part Numbers/Ordering Information

NXA ■ - ●U - ▼◆ (e.g., NXA 5-10U-DOES)

Code ■	Filter 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 ●	Cartridge Lengths (nominal)
4	4"
5	5"
9.75	9.75"
9.875	9.875"
10	10"
19.5	19.5"
20	20"
29.25	29.25"
30	30"
39	39"
39.5	39.5"
40	40"

Code ◆	Gasket/O-ring Materials
S	Silicone
N	Buna N
E	EPDM
V	Viton A
T	Expanded PTFE (gaskets)
T	FEP Encapsulated Silicone (O-rings)
F	FEP Encapsulated Viton A (O-rings)
Y	Santoprene

Code ▼	End Configurations
Blank	DOE industrial (no end caps)
1X	DOE industrial, 1" (2.54 cm) extended core
M3	SOE flat closed end, external 222 O-rings (retrofits other manufacturers' Code 0) <sup>4</sup>
M3H	SOE large diameter closed end, external 222 O-rings
M4	SOE fin end, external 222 O-rings with locking tab
M5	DOE, internal 120 O-rings (retrofits 213 O-ring style) <sup>4</sup>
M6	SOE flat closed end, external 226 O-rings (retrofits other manufacturers' Code 6) <sup>4</sup>
M7	SOE fin end, external 226 O-rings (retrofits other manufacturers' Code 7) <sup>4</sup>
M8	SOE fin end, external 222 O-rings (retrofits other manufacturers' Code 5) <sup>4</sup>
M10	DOE, internal O-rings (fits other manufacturers' housings) <sup>4</sup>
M11	SOE flat closed end, internal 120 O-ring (retrofits other manufacturers' X style) <sup>4</sup>
M18	SOE flat closed end, external 222 O-ring
M20	SOE, internal O-ring (same as M10), closed end with deep recess
DOE	DOE with elastomer gasket seals & end caps
H21	DOE, Santoprene gasket seal
DOE-1X	DOE with elastomer gasket seal, 1" (2.54 cm) extended core
H21-1X	DOE with Santoprene gasket seal, 1" (2.54 cm) extended core

<sup>4</sup> - For details, contact Pall Corporation.



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