



NEXIS® T Series Filter Cartridges

- Proprietary CoLD (Co-Located Large Diameter) Fiber Technology
- Continuous Gradient Pore Structure Media Provides Both Prefiltration And Final Filtration
- Proprietary Center Core for Greater Mechanical Strength and Chemical Resistance (0.5 - 10 µm)
- Resists Contaminant Unloading even at High Differential Pressures
- Computer Controlled CoLD Manufacturing Process Increases Product Consistency
- All Polypropylene Construction
- Free of Adhesives, Binders, Resins and Silicone
- Plastic and Metal Spring Assembly End Configurations Available

Performance Specifications

Filter Grades:

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

Maximum Differential Pressure:

0.5-10 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)

15-120 µm: 25 psid (1.72 bard) @ 140°F (60°C)
50 psid (3.45 bard) @ ambient

Recommended Change Out Differential Pressure¹:

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 (3 micron and higher) in compliance with EU Directive 2002/72/EC for plastic in food contact (in simulants 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 T 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, Viton² A, Buna N, Santoprene³ (DOE only), FEP, FEP Encapsulated Silicone, FEP Encapsulated Viton A



Dimensions (nominal):

Outside Diameter: 2 ½" (6.4 cm)
Lengths: 4" (10.2 cm), 5" (12.7 cm),
9 ¾" (24.8 cm), 9 ⅞" (25.1 cm),
10" (25.4 cm), 19 ½" (49.5 cm),
20" (50.8 cm), 29 ¼" (74.3 cm),
30" (76.2 cm), 39" (99.1 cm),
39 ½" (100.3 cm), 40" (102 cm)

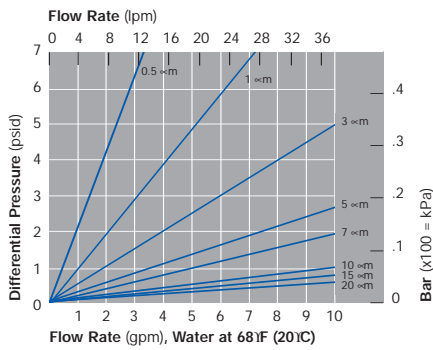
Pall's proprietary CoLD fiber media technology is designed to assure efficient use of the entire gradient depth of the filter. The CoLD MELT process produces a mixture of micro-thin fibers intermingled and thermally bonded with large diameter CoLD fibers to provide an integral support and fluid transport network. The large internal void area created by the CoLD process enables Nexis filter cartridges to capture more contaminant than conventional cartridges while the rigid support fibers hold the filtration fibers firmly in place. The result is less potential 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.

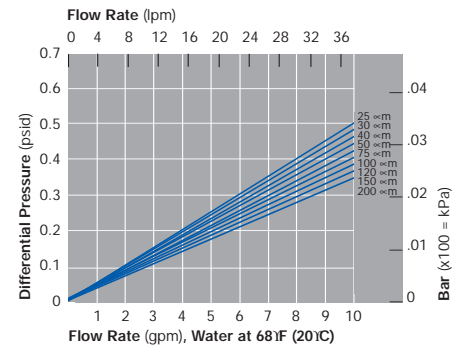
² - Registered trademark of DuPont Dow Elastomers.

³ - Registered trademark of Advanced Elastomer Systems.

Typical Flow vs. Differential Pressure for Application Sizing



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. 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

NXT ■ - ●U - ▼◆ (e.g., NXT 5-10U-M8V)

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

⁴ - For details, contact Pall Corporation.



2200 Northern Boulevard
East Hills, New York 11548-1289

1.800.FILTERS toll free
516.484.5400 phone
516.484.3216 fax
information@pall.com e-mail

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) ⁴
M3H	SOE large diameter closed end, external 222 O-rings
M4	SOE fin end, external 222 O-rings with locking tab (Buna N, Silicone & Viton A O-rings only)
M5	DOE, internal 120 O-rings (retrofits 213 O-ring style) ⁴
M6	SOE flat closed end, external 226 O-rings (retrofits other manufacturers' Code 6) ⁴
M7	SOE fin end, external 226 O-rings (retrofits other manufacturers' Code 7) ⁴
M8	SOE fin end, external 222 O-rings (retrofits other manufacturers' Code 5) ⁴
M10	DOE, internal O-rings (fits other manufacturers' housings) ⁴
M11	SOE flat closed end, internal 120 O-ring (retrofits other manufacturers' X style) ⁴
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
XK	SOE plastic spring assembly, saw cut end
SI	SOE metal spring/polypropylene cap, saw cut end

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