



Nexis® High Flow Series Filter Cartridges

prelude™

DESCRIPTION

The Nexis® High Flow filter is a large-diameter, coreless, single-open-ended depth cartridge with inside-to-outside flow. It is available in a variety of proprietary melt-blown filter media in ratings from 10 µm to 100 µm. With its large diameter (152.4 mm; 6 in), desired results can be achieved in high flow rate applications with significantly fewer elements and smaller housings.

FEATURES & BENEFITS

- Coreless all-plastic construction reduces waste
- High flow capacity significantly reduces system size and frequency of filter changeouts
- Variety of lengths and media grades available
- Absolute-rated filter medium allows for reproducible performance
- Features proprietary CoLD Melt™ technology using a gradient pore structure
- Inside-to-outside flow traps contaminants inside the filter, preventing discharge during changeout
- Handle for easy filter replacement



ADDITIONAL INFORMATION

HOUSINGS

To order Housings for Nexis High Flow, please [contact](#) Pall Water for more details.

ORDERING INFORMATION

To order Nexis High Flow Series Filter Cartridges, please [contact](#) a Pall Water Representative or [visit our online store](#) today.

PERFORMANCE SPECIFICATIONS

Maximum Operating Temperature	65.5°C (150°F)
Maximum Operating Differential Pressure¹	2.9 bard @ 20°C / 42 psid @ 68°F
Recommended Differential Pressure for Change-Out²	2.4 bard (35 psid)

¹ Recommendation is for inside-to-outside flow only.

² Provided that the maximum differential pressure is not exceeded based on temperature limits defined above.

PRODUCT SPECIFICATIONS

MATERIALS		DIMENSIONS (NOMINAL)	
Media	Polypropylene with high-density polyethylene	Outside Diameter	152.4 mm (6 in)
O-Ring Seal	Fluorocarbon, nitrile, ethylene-propylene rubber	Lengths	508 mm (20 in), 1016 mm (40 in), 1524 mm (60 in)
End Caps	Glass-fiber-reinforced polypropylene		

LIQUID FLOW SPECIFICATIONS

MEDIA GRADE	PRESSURE DROP MBARD / LPM (PSID / GPM), WATER @ 20°C (68°F) ³		
	20-IN	40-IN	60-IN
Y100	1.13 (0.062)	0.56 (0.031)	0.3767 (0.0207)
Y150	0.47 (0.026)	0.24 (0.013)	0.1567 (0.0087)
Y400	0.09 (0.005)	0.04 (0.0025)	0.03 (0.0017)
Y750	0.09 (0.005)	0.04 (0.0025)	0.03 (0.0017)
Y1000	0.05 (0.003)	0.03 (0.0015)	0.0167 (0.001)

LIQUID REMOVAL RATINGS (µm)

MEDIA GRADE	EFFICIENCY BY PARTICLE COUNT ⁴
Y100	9.2 (99.9%)
Y150	16.0 (99.9%)
Y400	38.3 (99.9%)
Y750	73.3 (99.5%)
Y1000	>100.0 (90%)

kPa / lpm = 0.1000 mbard / lpm

³ To determine pressure drop per flow rate for filters only, multiply this value by the total flow rate. (For liquids with a viscosity differing from water, multiply the pressure drop by the viscosity in centipoise.) To determine the system pressure drop, add this value to the pressure drop per flow rate value for the housing.

⁴ Based on a modified ISO 16889 test procedure.



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