Pall Corporation

Nexis® High Flow Series Filter Elements

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 and 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[1]
- 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

Performance Specifications

Maximum operating temperature[2]
65.5˚C (150˚F)

Maximum operating differential pressure[3]
2.9 bard @ 20˚C / 42 psid @ 68˚F
1.03 bard @ 65.5˚C / 15 psid @150˚F

Recommended differential pressure for changeout[4]
2.4 bard (35 psid)

[1] Except Y1000

[2] In compatible fluids that do not soften, swell, or adversely affect the performance of the filter or the materials of construction.

[3] Recommendation is for inside-to-outside flow only.

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

Product Specifications

Materials

Media:	Polypropylene with high-density polyethylene
O-ring seal:	Fluorocarbon, nitrile, ethylene-propylene rubber
End caps:	Glass-fiber-reinforced polypropylene

Dimensions (nominal)

Outside diameter:	152.4 mm (6 in)
Length:	508 mm (20 in)
	1016 mm (40 in)
	1524 mm (60 in)

Liquid Removal Ratings (µm)

Media grade	Efficiency by particle count[5]
Y100	9.2 (99.9%)
Y150	16.0 (99.9%)
Y400	38.3 (99.9%)
Y750	73.3 (99.5%)
Y1000	>100.0 (90%)

[5] Based on a modified ISO 16889 test procedure.

Liquid Flow Specifications

Media grade	Pressure drop mbard/lpm (psid/gpm), water @ 20˚C (68˚F)[6]		
	20-Inch	40-Inch	60-Inch
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)

kPa/lpm = 0.1000 mbard/lpm

[6] 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.

Ordering Information

Pall Part Number = HFNX6 [1] Y [2] [3]

Table 1

Code	Cartridge lengths nominal (mm/in)
20	508 / 20
40	1016 / 40
60	1524 / 60

Table 2

Code	Filter grades (µm)
100	10
150	15
400	40
750	75
1000	100

Table 3

Code	Seal/O-ring material
H13	Nitrile O-ring
H13U	Nitrile U-cup
H	Fluorocarbon O-ring
HU	Fluorocarbon U-cup
H4	Silicone O-ring
H4U	Silicone U-cup
J	Ethylene propylene O-ring
JU	Ethylene propylene U-cup

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