

## Marksman™ NXA Series Filter Elements

### High Capacity Melt Blown Depth Filter Elements

- New, larger cartridge geometry
- Same proprietary CoLD Melt™ fiber technology used in Pall's Nexis® series filters
- Gradient pore structure
- Absolute rated at 99.9% efficiency with retention ratings from 4.3 to 72 micron (µm)
- Available to fit most Size 1 and Size 2 bag vessels with no hardware changes
- Available in 101.6 cm (40 in) for use in unique 101.6 cm (40 in) Pall vessels
- Inside-out flow traps contaminant inside the element
- Unique sealing device adjusts to fit in most conventional bag filter vessels
- Quick, easy change-outs

### Performance Specifications

#### Filter grades

5, 10, 20, 40, 70 micron (µm)

#### Maximum operating differential pressure

to 2.9 bard @ 20°C (42 psid @ 68°F)

to 1.0 bard @ 79°C (15 psid @ 175°F)

NOTE: Stainless steel flange recommended for temperatures in excess of 43°C (110°F).

#### Recommended change-out differential pressure<sup>1</sup>

2.4 bard @ up to 54°C (35 psid @ up to 130°F)

#### Food and water contact use

Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

#### Purity

Cartridges do not use adhesives and silicones<sup>2</sup> (fluorocarbon elastomer and nitrile gaskets excluded).

#### Sanitization

Contact Pall Corporation for assistance.

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

<sup>2</sup> Elements do not come into contact with silicone, silicone containing items, or adhesives during manufacturing.



### Product Specifications

#### Materials

Filter media:	Polypropylene/polyethylene
Hardware:	Polypropylene
Gaskets:	EPDM, fluorocarbon elastomer, nitrile
Sealing:	Thermal bond

#### Dimensions (nominal)

Outside flange diameter:	Three diameters are available. Contact Pall for information on sizes.
Outside filter diameter:	15.2 cm (6 in)
Lengths:	Size 1 Size 2 Size 4 - 101.6 cm (40 in)

## Particle Removal Ratings<sup>3</sup> (µm)

Cartridge Designation	90% Efficiency	≥99.9% Efficiency
NXAM 5	2.5	4.3
NXAM 10	5.5	9.2
NXAM 20	13	17
NXAM 40	20	35
NXAM 70	51	72

## Typical Flow

Filter Grade	mbard/lpm (psid/gpm) Water @ 20°C (68°F)			mbard/lpm (psid/gpm) Fluid with 40 cps viscosity		
	Size 1	Size 2	40 in	Size 1	Size 2	40 in
5	2.058 (0.113)	0.892 (0.049)	0.565 (0.031)	34.242 (1.880)	16.593 (0.911)	10.655 (0.585)
10	0.856 (0.047)	0.382 (0.021)	0.237 (0.013)	21.310 (1.170)	6.375 (0.350)	4.098 (0.225)
20	0.291 (0.016)	0.127 (0.007)	0.073 (0.004)	8.925 (0.490)	3.096 (0.170)	1.985 (0.109)
40	0.127 (0.007)	0.055 (0.003)	0.036 (0.002)	3.279 (0.180)	1.038 (0.057)	0.674 (0.037)
70	0.073 (0.004)	0.018 (0.001)	0.018 (0.001)	1.821 (0.100)	0.729 (0.040)	0.474 (0.026)

NOTE: For kPa, multiply mbard/lpm by 0.1000.

<sup>3</sup> Marksman NXA 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 1 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>4</sup> Pall Marksman "Fit-up" kits are available to help select the best sealing flange/gasket style. Contact your Pall representative for more information.

<sup>5</sup> Rosedale is a registered trademark of Rosedale Products, Inc.

<sup>6</sup> Krystil Klear is a registered trademark of Pentair Water Filtration.

<sup>7</sup> GAF is a registered trademark of GAF Corporation.

<sup>8</sup> Hayward is a registered trademark of Hayward Industrial Products, Inc.

<sup>9</sup> Installation of Marksman cartridge with CB flange requires an additional housing hold down plate as follows:

Part Number	Description
ERA28666C	CBFP 11/12 Hold-Down Plate, Stainless Steel, 2" Inlet
ERA28667C	CBFP 11/12 Hold-Down Plate, Stainless Steel, 3" Inlet

## Ordering Information

Pall Part Number = NXAM 1 2 - 3 U 4 - 5 6

Table 1

Code	Length option
Blank	Standard

Table 2

Code	Filter grades (µm)
5	5
10	10
20	20
40	40
70	70

Table 3

Code	Cartridge lengths nominal
1	Size 1 bag
2	Size 2 bag
4	101.6 cm (40 in)

Table 4

Code	Gasket materials
Blank	For NF version
N	Nitrile
E	EPDM (peroxide cured)
V	Fluorocarbon elastomer

Table 5

Code	End configurations
PF	Plastic self-adjusting flange
SF	Stainless steel self-adjusting flange (required for temperatures >43°C/110°F)
NF	No flange (for use with reusable SS flange)

Table 6

Code	Flange/gasket styles <sup>4</sup>
A	Pall Marksman Series vessels, Rosedale <sup>5</sup> , Strainrite, Krystil Klear <sup>6</sup>
B	FSI BFNP Series vessels (side entry), GAF <sup>7</sup>
C	FSI FSPN Series vessels (prior to June 2012), Hayward <sup>8</sup> over the top
F	FSI FSPN Series vessels (from June 2012)
CB	FSI CBFP Series vessels <sup>9</sup>



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Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

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