

MONOFILAMENT FILTER BAG

*Suitable
for surface area filtration*

NMO series



Feature Tec's monofilament filter bags are suitable for surface filtration and available in a broad range of retention ratings. These filter bags remove effectively solid particles larger than the respective pore size.

Applications

- Automotive coating and degreasing systems
- Cutting solution
- Resins
- Chemicals
- Solvents
- Recycled water and many more

Features and benefits

- Heat-stabilized mesh resists deformation
- Reinforced side seams $\leq 125 \mu\text{m}$ to prevent liquid bypass through needle holes
- Available with three different plastic seal rings (see photos 2nd page) and stainless steel rings adapts to any bag filter housing

- Material is free from craterforming substances (such as silicones etc.)^{1*}

Filter specifications

Material

Nylon monofilament

Seal ring

Welded plastic seal rings in polypropylene

Sewn stainless steel seal ring

Retention ratings

5, 10, 25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 400, 600, 800, 1000, 1250 μm

Dimensions / Parameters

Sizes

01: $\varnothing 178 \times 420 \text{ mm}$
 02: $\varnothing 178 \times 810 \text{ mm}$
 03: $\varnothing 102 \times 230 \text{ mm}$
 04: $\varnothing 102 \times 410 \text{ mm}$

Filter area

01: 0.24 m² 02: 0.48 m²
 03: 0.08 m² 04: 0.16 m²

Max. differential pressure^{2*}

2.5 bar

Recommended change-out pressure drop for disposal^{3*}

≈ 0.8 to 1.5 bar

Maximum operating temperature

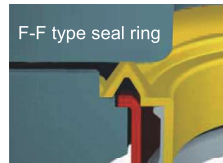
Nylon: $< 170 \text{ }^{\circ}\text{C}$

Maximum flow rates^{4*}

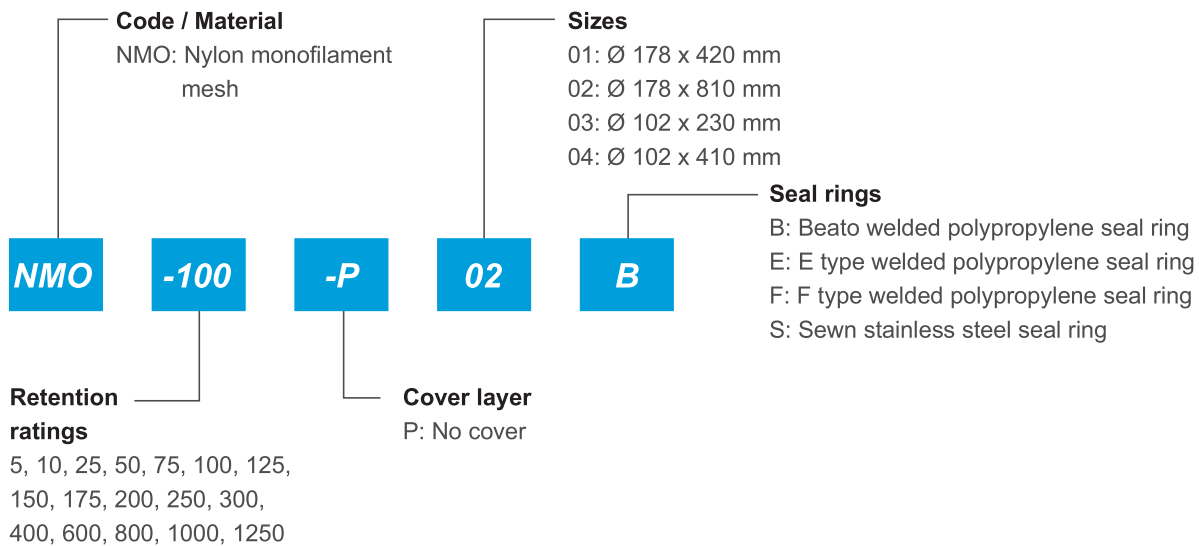
01: 20 m³/h 02: 40 m³/h
 03: 6 m³/h 04: 12 m³/h

Retention ratings

Range	Code	Material	Retention ratings (µm)																Sizes				Max. operating temperature (°C)	Chemical compatibility				
			5	10	25	50	75	100	125	150	175	200	250	300	400	600	800	1000	1250	01	02	03		04	S.Acid	W.Acid	W.Alkali	S.Alkali
Nylon monofilament mesh filter bags	NMO	Nylon monofilament mesh	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	< 170	×	○	■	■	■



Ordering information



1* Based upon accepted paint compatibility test

2* Max. DP tested for basket in liquid filtration conditions

3* Depending on customer's application requirements

4* For fluids with a dynamic viscosity of 1 mPa·s @ 20 °C

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Technical Data

Ranges	Codes	0.2	0.6	1	5	10	25	50	75	100	125	150	175	200	250	300	400	600	800	1000	1250	Materials	Sizes	Ring Type	Media Types	Max. oper. temp. (°C)
Needled-punched Felt Filter Bag	PO			■	■	■	■	■		■				■	Available grades (µm)						PP	01,02,03,04	B,E,F,S	Felt	90	
	PE			■	■	■	■	■		■				■							PE	01,02,03,04	B,E,F,S	Felt	140	
	NT			■	■	■	■														Meta-Aramid	01,02,03,04	S	Felt	205	
	PT			■	■	■															PTFE	01,02,03,04	S	Felt	240	
Long-life Filter Bag	POXL			■	■	■	■	■		■												PP	01,02	B,E,F	Felt	90
	PEXL			■	■	■	■	■		■												PE	01,02	B,E,F	Felt	140
Nylon Monofilament Mesh Filter Bag	NMO				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	Nylon	01,02,03,04	B,E,F,S	Mesh	170
Multifilament Filter Bag	PEMU									■	■	■	■	■								PE	01,02	S	Mesh	140
Absolute Precision Filter Bag	SAH	■	■	■	■	■	■															PP	01,02	B,E,F	Melt	90
High Performance Filter Bag	OAS			■	■	■	■	■														PP	01,02	B,E,F,S	Melt	90
	OAH			■	■	■	■	■														PP	01,02	B,E,F,S	Melt	90
Activated Carbon Filter Bag	AC				■																	Active Carbon	01,02,03,04	S	Melt Felt	90
Rocket Filter Bag	RPO			■	■	■	■	■		■				■								PP	01,02	B	Melt Felt	90
	RPE			■	■	■	■	■		■				■								PE	01,02	B	Felt	140

Chart abbreviations: PE: polyethylene terephthalate, PP: polypropylene, Melt: melt-blown, Felt: Needled felt.

Seal rings: B - Beato Ring, E - E Type Ring, F - F Type Ring, S - Stainless Steel.

Size	Filter area (m²)	Max. flow rate GPM (m³/h)	Diameter (mm)	Length (mm)
01	0.24	20*	178	420
02	0.48	40*	178	810
03	0.08	6*	102	230
04	0.16	12*	102	410

*These flow rates are only applicable for standard needle felt & monofilament filter bags.

*For liquids with a dynamic viscosity of 1 mPa.s @ 20° C.

Chemical compatibility	PP	PE	Nylon	PTFE	NT
S.Acid	■	○	×	■	×
W.Acid	■	■	○	■	○
W.Alkali	■	○	■	■	■
S.Alkali	■	×	■	■	■
Solvent	×	■	■	■	■

■ - Can accept ○ - Limited to accept × - unacceptable

