

## Monofilament Filter Bag Range



# SENTINEL® and SNAP-RING® monofilament filter bags for surface filtration

Eaton's SENTINEL and SNAP-RING monofilament filter bags are suitable for a wide range of process applications such as the filtration of paints and varnishes, inks, resins, chemicals, aggressive solvents and many more.

SENTINEL and SNAP-RING monofilament filter bags feature a wide range of retention ratings. The different materials cover many applications with demanding chemical and thermal properties. These filter bags are designed for surface filtration to retain particles that are larger than the respective pore size.

### Features and benefits

- Non-deformable monofilament material is woven into a specific pattern with fusion-welded intersections for extra strength and an *absolute* retention rating
- All nylon monofilament filter bags with the SENTINEL seal ring have an inseam for safe filtration
- All nylon monofilament grades < 125 µm are manufactured with a twill-tape envelope on the side seam and bottom seam to prevent liquid bypass through the needle holes

- The pressure-activated SENTINEL seal ring provides a flexible, chemically resistant seal which adapts to any bag filter housing
- Eaton strongly recommends the use of an insertion tool that facilitates the insertion of the filter bag into the bag filter housing and ensures the correct alignment of the filter bag inside the restrainer basket

### Filter specifications

#### Materials

Monofilament polypropylene, nylon, polyester or polyether ether ketone (PEEK)

#### Seal rings

Sewn Santoprene™ SENTINEL seal ring  
Sewn stainless steel or zinc-plated steel SNAP-RING seal ring

#### Retention ratings

5, 10, 25, 50, 80, 100, 150, 200, 250, 300, 400, 600, 800, 1,000, 1,250 µm

### Dimensions/Parameters

#### Sizes

01: Ø 7 x 17" L (180 x 430 mm)  
02: Ø 7 x 32" L (180 x 810 mm)  
03: Ø 4 x 9" L (100 x 230 mm)  
04: Ø 4 x 15" L (100 x 380 mm)

#### Filter area

01: 2.6 ft<sup>2</sup> (0.24 m<sup>2</sup>)  
02: 5.2 ft<sup>2</sup> (0.48 m<sup>2</sup>)  
03: 0.9 ft<sup>2</sup> (0.08 m<sup>2</sup>)  
04: 1.7 ft<sup>2</sup> (0.16 m<sup>2</sup>)

#### Max. operating temperatures

SENTINEL:  
NMO: 257 °F (125 °C)  
SNAP-RING:  
NMO: 374 °F (190 °C)  
PMO: 230 °F (110 °C)  
PEMO: 374 °F (190 °C)  
PEEK: 464 °F (240 °C)

#### Max. differential pressure

36.2 psi (2.5 bar)

#### Recommended change-out pressure for disposal<sup>1</sup>

11.6 – 21.7 psi (0.8 – 1.5 bar)

#### Max. flow rates<sup>2</sup>

01: 88 GPM (20 m<sup>3</sup>/h)  
02: 176 GPM (40 m<sup>3</sup>/h)  
03: 26 GPM (6 m<sup>3</sup>/h)  
04: 53 GPM (12 m<sup>3</sup>/h)

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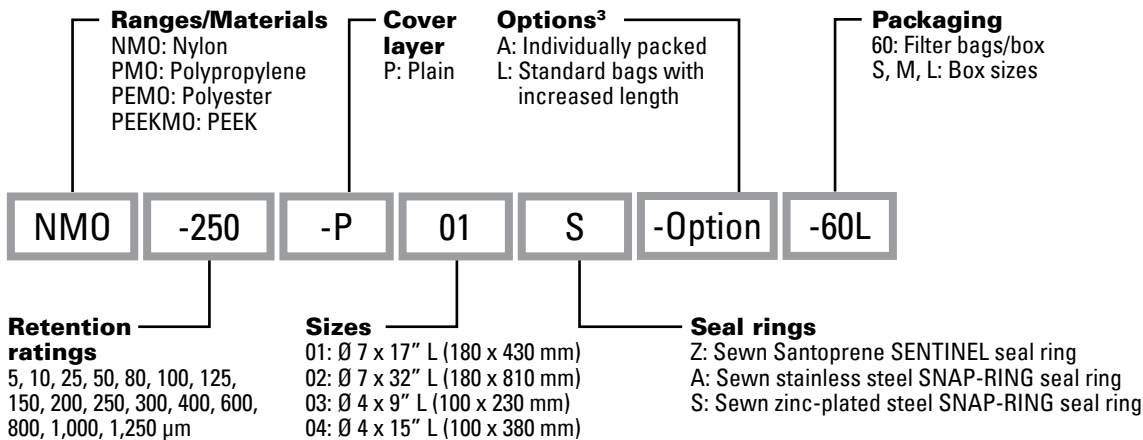
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## Retention ratings

Materials	Codes	Retention ratings (in µm)															Sewn SNAP-RING seal ring	Sewn SENTINEL seal ring	Max. operating temperature °F (°C)	Sizes				
		5	10	25	50	80	100	125	150	200	250	300	400	600	800	1,000				1,250	01	02	03	04
Nylon	NMO			■	■	■	■	■	■	■	■	■	■	■	■	■	■	S		374 (190)	■	■	■	■
Nylon	NMO	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		Z	257 (125)	■	■	■	■	
Polypropylene	PMO						■		■	■			■	■	■		A		230 (110)	■	■			
Polyester	PEMO					■			■	■							S		374 (190)	■	■			
PEEK	PEEKMO						■			■	■						A		464 (240)	■	■			

## Ordering information



<sup>1</sup> Depending on the respective application requirements.

<sup>2</sup> For liquids with a dynamic viscosity of 1 mPa·s @ 68 °F (20 °C).

<sup>3</sup> Further options upon request (see document SAL-L-12).

Santoprene™ is a registered trademark of Exxon Mobil Corporation.

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