

Fully-welded construction for high efficiency and superior sealing

Eaton's SENTINEL filter bags are suitable for a wide range of applications such as the filtration of paints and varnishes, inks, chemicals, process water and many more.

SENTINEL filter bags comply with the industry standard of a bypassfree filter bag construction. They are available in polypropylene and polyester.

Features and benefits

- Fully-welded construction with patented SENTINEL seal ring provides 100% bypass-free filtration
- The pressure-activated SENTINEL seal ring provides a flexible, chemically resistant seal which adapts to any bag filter housing
- Material is free from silicone and crater-forming substances¹
- Special surface treatment significantly reduces fiber release
- Stable and flexible welded seams that adapt to the restrainer basket

- The handles in the ring make replacing the filter bag quick and easy
- 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

Needle felt polypropylene or polyester

Seal rings

Welded polypropylene or polyester SENTINEL seal ring

Retention ratings

1, 5, 10, 25, 50, 100, 200 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 ft² (0.24 m²) 02: 5.2 ft² (0.48 m²) 03: 0.9 ft² (0.08 m²) 04: 1.7 ft² (0.16 m²)

Max. operating temperatures

Polypropylene: 194 °F (90 °C) Polyester: 302 °F (150 °C)

Max. differential pressure 36.2 psi (2.5 bar)

Recommended change-out pressure for disposal²

11.6 - 21.7 psi (0.8 - 1.5 bar)

Max. flow rates³

01: 88 GPM (20 m³/h) 02: 176 GPM (40 m³/h) 03: 26 GPM (6 m³/h) 04: 53 GPM (12 m³/h)





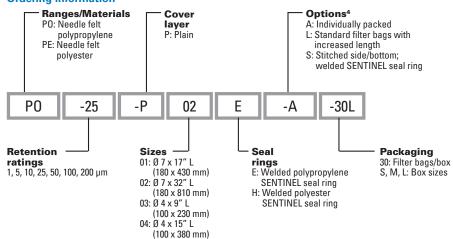


SENTINEL Filter Bag Range

Retention ratings

		Retention ratings (µm)									Sizes			
Materials	Codes	1	5	10	25	50	100	200	Welded Max. operating SENTINEL seal rings temperatures °F (°C)		01	02	03	04
Polypropylene	P0	•	•	•	•	•	•	•	E	194 (90)	-	•	•	-
Polyester	PE	•	•	•	•	•	•	•	Н	302 (150)	•	•	•	•

Ordering information



North America 44 Apple Street Tinton Falls, NJ 07724 Toll Free: 800 656-3344 (North America only) Tel: +1 732 212-4700

Europe/Africa/Middle East

Auf der Heide 2 53947 Nettersheim, Germany Tel: +49 2486 809-0

Internormen Product Line Friedensstraße 41 68804 Altlußheim, Germany Tel: +49 6205 2094-0

Begerow Product Line An den Nahewiesen 24 55450 Langenlonsheim, Germany Tel: +49 6704 204-0

China No. 3, Lane 280, Linhong Road Changning District, 200335 Shanghai, P.R. China Tel: +86 21 5200-0099

4 Loyang Lane #04-01/02 Singapore 508914 Tel: +65 6825-1668

Av. Julia Gaioli, 474 – Bonsucesso 07251-500 – Guarulhos, Brazil Tel: +55 11 2465-8822

For more information, please email us at filtration@eaton.com or visit www.eaton.com/filtration

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¹ Based on an accepted paint compatibility test (see document QUC-STA-10).

 $^{^2}$ Depending on the respective application requirements. 3 For liquids with a dynamic viscosity of 1 mPa s @ 68 °F (20 °C).

⁴ Further options upon request (see document SAL-L-12).





Eaton's POLYLINE single bag filter housing is an all-plastic, rugged polypropylene or PVDF construction for superior corrosion resistance.

The glass fiber reinforced polypropylene withstands high-pressure and temperature combinations.

This single bag filter housing has no metal components to rust, corrode or contaminate the process media and is ideal for contamination sensitive or severely corrosive applications. Units come standard with filter bag size 01 or 02 polypropylene or size 02 PVDF restrainer baskets.

Features

- All plastic construction with smooth interior surfaces makes it easy to clean
- Compression hold down creates 360 degree sealing between the filter bag and the bag filter housing

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- Removable, "no tools required" spin-off cover for quick filter bag change-outs. Just a few turns of the cover using the built-in handle and the housing opens and closes with little offert.
- Standard design available with threaded or flanged connections
- Vent/bleed valve installed on the housing cover and an integral mounting flange for rock-solid installation without the need for support legs
- Dual outlets allow either in-line or loop piping connections with other outlet used as a drain

Options

- Available in glass fiber reinforced polypropylene or PVDF
- Viton® seals and gaskets for the cover and restrainer basket are standard. EPDM seals and gaskets are available
- Multiple I/O connections to suit application
- Round bottom restrainer basket size 01 or 02 available in polypropylene

Viton® is a registered trademark of E. I. du Pont de Nemours and company.



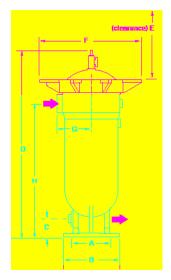


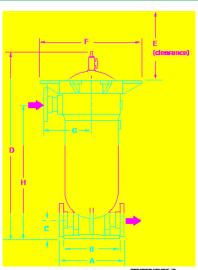
Applications

Coarse filtration > 500 µm Medium filtration > 10 µm ✓ Fine filtration < 10 μm

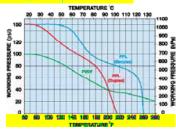
Pre-filtration	~
Safety filtration	
High volume	
Batch filtration	~
Circuit filtration	~
Continuous filtration	

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Operating temperature/ pressure for POLYLINE single bag filter housings



Dimensions - inch (mm)

Models	Α	В	C	D	E	F	G	Н
PBF-0101 (thread)	6.50 (165)	10.00 (254)	3.25 (83)	34.12 (867)	20.00 (508)	18.38 (467)	6.13 (156)	23.88 (607)
PBF-0102 (thread)	6.50 (165)	10.00 (254)	3.25 (83)	50.12 (1273)	36.00 (914)	18.38 (467)	6.13 (156)	39.88 (1013)
PBF-0101 (flange)	5.69 (145)	10.00 (254)	3.25 (83)	34.12 (867)	20.00 (508)	18.38 (467)	8.63 (219)	23.88 (607)
PBF-0102 (flange)	5.69 (145)	10.00 (254)	3.25 (83)	50.12 (1273)	36.00 (914)	18.38 (467)	8.63 (219)	39.88 (1013)

Dimensions for reference only and approximate. Exact dimensions for installation purposes available on request.

Technical data

Models	No. of filter bags			Max. pressure psi (bar)	Max. temp. °F (°C)	Housing volume gal (I)	Housing weight lb (kg)	I/O connections	
PBF-0101 (thread)	1	1	53 (12)	150 @ 70 ° F (10 @ 21 °C)	240 @ 70 psi (115 @ 4.8 bar)	9.5 (36)	49 (22.3)	2" thread	
PBF-0102 (thread)	1	2	106 (24)	150 @ 70 °F (10 @ 21 °C)	240 @ 70 psi (115 @ 4.8 bar)	9.5 (36)	63 (28.6)	2" thread	
PBF-0101 (flange)	1	1	53 (12)	150 @ 70 °F (10 @ 21 °C)	240 @ 70 psi (115 @ 4.8 bar)	6.6 (25)	53 (24.0)	2" flange	
PBF-0102 (flange)	1	2	106 (24)	150 @ 70 °F (10 @ 21 °C)	240 @ 70 psi (115 @ 4.8 bar)	9.5 (36)	66 (30.0)	2" flange	

¹ Maximum theoretical flow based on water viscosity, filter bag specific.

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China No. 3, Lane 280, Linhong Road Changning District, 200335 Shanghai, P.R. China Tel: +86 21 5200-0099

Singapore 4 Loyang Lane #04-01/02 Singapore 508914 Tel: +65 6825-1668

Rua Clark, 2061 - Macuco 13279-400 - Valinhos, Brazil Tel: +55 11 3616-8400

For more information, please email us at filtration@eaton.com or visit www.eaton.com/filtration

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