

FULLY- WELDED NEEDLE FELT FILTER BAG

PO / PE series

*Provide high level of purity
and filtration performance*



Feature Tec's fully-welded filter bags provide the highest level of purity and filtration performance. These filter bags are manufactured utilizing the most advanced technology available.

Applications

- Automotive coating systems
- Electrophoretic paint and plating
- Lubricating or hydraulic oils
- Chemicals
- Inks
- Edible oils and juices
- Solvents
- Water and many more

Features and benefits

- Available with three different plastic seal rings adapts to any bag filter housing (see photos 2nd page)
- Fully-welded construction in combination with plastic seal ring provides bypass-free filtration
- Material is free from craterforming substances (such as silicones etc.)^{1*}

- Downstream side is singed using a special heat process to eliminate fiber migration
- Food grade models are available

Filter specifications

Materials

Polypropylene needle felt
Polyester needle felt

Seal rings

Welded plastic seal rings in polypropylene or polyester

Retention ratings

1, 5, 10, 25, 50, 100, 200 µm

Dimensions / Parameters

Sizes

01: Ø 178 x 420 mm
02: Ø 178 x 810 mm
03: Ø 102 x 230 mm
04: Ø 102 x 410 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 temperatures

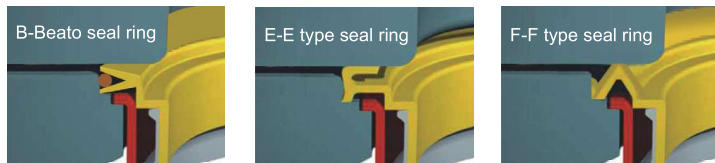
Polypropylene: < 90 °C
Polyester: < 140 °C

Maximum flow rates^{4*}

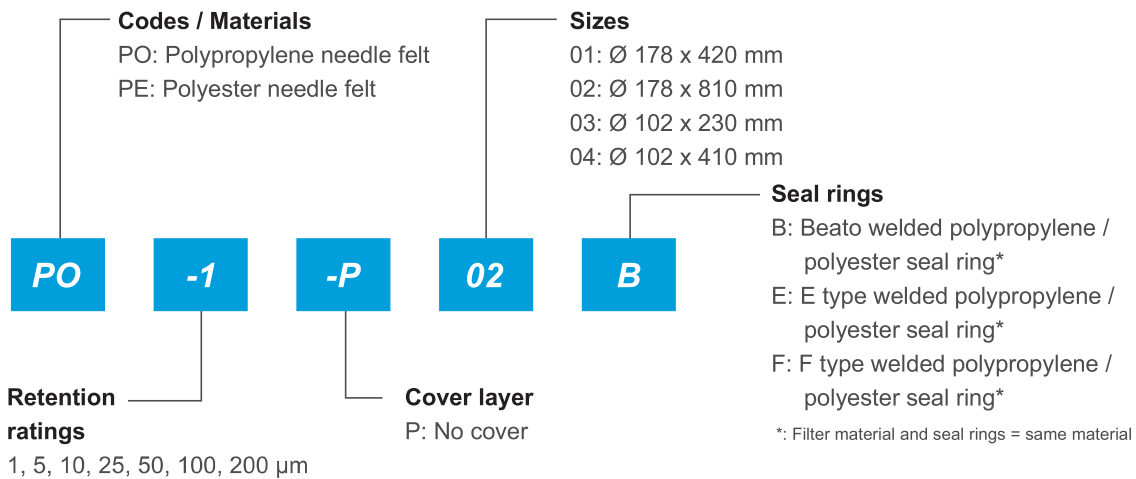
01: 20 m³/h 02: 40 m³/h
03: 6 m³/h 04: 12 m³/h

Retention ratings

Range	Codes	Materials	Retention ratings (µm)						Sizes				Max. operating temperatures (°C)	Chemical compatibility					
			1	5	10	25	50	100	200	01	02	03		04	S.Acid	W.Acid	W.Alkali	S.Alkali	Solvent
Fully-welded needle felt filter bags	PO	Polypropylene	■	■	■	■	■	■	■	■	■	■	■	< 90	■	■	■	■	×
	PE	Polyester	■	■	■	■	■	■	■	■	■	■	■	< 140	○	■	○	×	■



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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SEWN NEEDLE FELT FILTER BAG

**PO / PE / NT
/ PT series**

*Provide economic performance
with broad flexibility*



Feature Tec's industry standard sewn filter bags offer economic performance with a broad flexibility of construction, while using special stitching techniques. The downstream side is singed using a special heat process to eliminate fiber migration.

Applications

- Automotive coating systems
- Electrophoretic paint and plating
- Lubricating or hydraulic oils
- Chemicals
- Inks
- Edible oils and juices
- Solvents
- Water and many more

Features and benefits

- Available with stainless steel ring adapts to any bag filter housing
- Precision stitching to minimize bypass and maximize strength
- Material is free from craterforming substances (such as silicones etc.)¹
- Downstream side is singed using a special heat process to eliminate fiber migration

Filter specifications

Materials

Polypropylene needle felt
Polyester needle felt
Polytetrafluorethylene needle felt (PTFE)
Meta-Aramid needle felt (NT)

Seal ring

Sewn stainless steel seal ring

Retention ratings

1, 5, 10, 25, 50, 100, 200 µm

Dimensions / Parameters

Sizes

01: Ø 178 x 420 mm
02: Ø 178 x 810 mm
03: Ø 102 x 230 mm
04: Ø 102 x 410 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 temperatures

Polypropylene: < 90 °C
Polyester: < 140 °C
Polytetrafluorethylene: < 240 °C
Meta-Aramid: < 205 °C

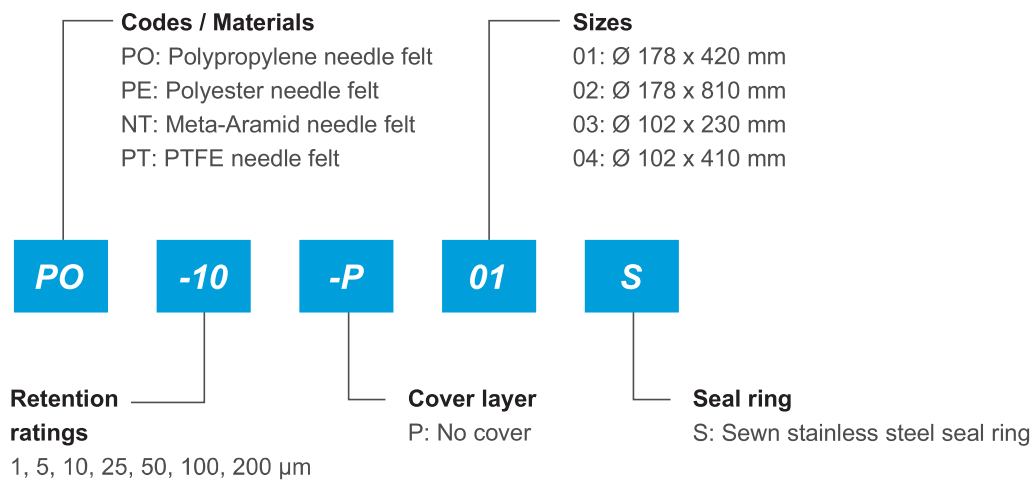
Maximum flow rates^{4*}

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

Retention ratings

Range	Codes	Materials	Retention ratings (µm)						Sizes				Max. operating temperatures (°C)	Chemical compatibility						
			1	5	10	25	50	100	200	01	02	03		04	S.Acid	W.Acid	W.Alkali	S.Alkali	Solvent	
Needle felt filter bags	PO	Polypropylene	■	■	■	■	■	■	■	■	■	■	■	< 90	■	■	■	■	■	×
	PE	Polyester	■	■	■	■	■	■	■	■	■	■	■	< 140	○	■	○	×	■	■
	NT	Meta-Aramid	■	■	■	■				■	■	■	■	< 205	×	○	■	■	■	■
	PT	Polytetrafluoroethylene	■	■	■					■	■	■	■	< 240	■	■	■	■	■	■

Ordering information



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Technical Data

Ranges	Codes	Available grades (µm)														Materials	Sizes	Ring Type	Media Types	Max. oper. temp. (°C)							
		0.2	0.6	1	5	10	25	50	75	100	125	150	175	200	250						300	400	600	800	1000	1250	
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 (m ²)	Max. flow rate GPM (m ³ /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

