

# FULLY- WELDED NEEDLE FELT FILTER BAG

*Provide high level of purity  
and filtration performance*

**PO / PE series**



*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 2<sup>nd</sup> page)
- Fully-welded construction in combination with plastic seal ring provides bypass-free filtration
- Material is free from craterforming substances (such as silicones etc.)\*

- 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 m<sup>2</sup>    02: 0.48 m<sup>2</sup>  
03: 0.08 m<sup>2</sup>    04: 0.16 m<sup>2</sup>

#### **Max. differential pressure<sup>2\*</sup>**

2.5 bar

#### **Recommended change-out pressure drop for disposal<sup>3\*</sup>**

≈ 0.8 to 1.5 bar

#### **Maximum operating temperatures**

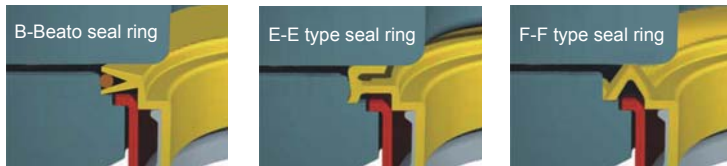
Polypropylene: < 90 °C  
Polyester: < 140 °C

#### **Maximum flow rates<sup>4\*</sup>**

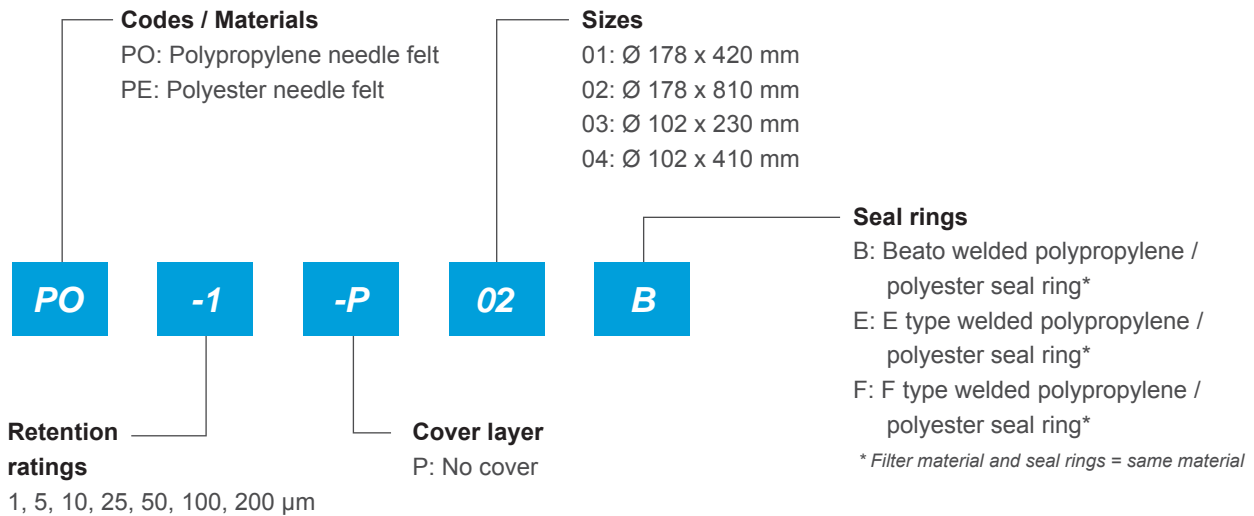
01: 20 m<sup>3</sup>/h    02: 40 m<sup>3</sup>/h  
03: 6 m<sup>3</sup>/h    04: 12 m<sup>3</sup>/h

### 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 with 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