LIQUID BAG FILTERS

SMS Bag Filter

Stitched or welded depth filter bag made of spunbond, meltblown and spunbond polypropylene layers. Retains gel-like and deformable particles in the 0.5–10 µm range; used up to 90 °C on syrup, beverage, chemical and electronics process lines.



PRECISION	MAX. TEMPERATURE	CHANGE-OUT ΔP	MAX. FLOW RATE
0.5–10 µm	**90 °C**	**1.5–2 bar**	**12 m³/h**
High-efficiency depth	194 °F	Max. ΔP 2.5 bar	For a #02 housing

Technical specifications

Main layer	Meltblown polypropylene
Inner and outer layers	Spunbond polypropylene
Micron ratings	0.5 · 0.8 · 1 · 5 · 10 µm (high efficiency)
Filtration type	Multi-layer depth filtration · inside-out flow
Diameter / length	Ø 100–180 mm · 230–810 mm
Filtration surface area	0.50 m²
Max. operating temperature	90 °C (194 °F)
Max. differential pressure (ΔP)	2.5 bar
Recommended change-out ΔP	1.5–2 bar
Max. flow rate	12 m³/h (for a #02 housing)
Dirt-holding capacity	High (multi-layer depth structure)
Joining	Stitched or welded construction
Collar types	Stitched or welded PP ring · Stainless steel ring (snap ring)
Binder content	Free of silicone and abrasives
Usage type	Single use; not washed

Standard bag sizes

SIZE (MM)	DESCRIPTION	AREA (M²)
180 × 430	Large diameter · short length	~0.25
180 × 810	Large diameter · long length (most common)	0.50
100 × 230	Small diameter · short length	~0.08
100 × 380	Small diameter · long length	~0.14

Area values are approximate. The multi-layer structure means tight tolerances; confirm housing and basket size before ordering.

Micron options

MICRON	APPLICATION
0.5 µm	Ultra-fine; pharmaceuticals, electronics, high-purity chemicals
0.8 µm	Very fine; fine chemicals, microelectronics coolants
1 µm	Precision oil and chemical process lines
5 µm	General fine filtration; final stage for paints and coatings
10 µm	Medium precision; oil, slurry, hydraulic systems

Collar options

PP ring

Stitched or welded polypropylene ring; for lines where chemical resistance matters.

Steel ring (snap ring)

Stainless steel ring; the most widely used, economical standard collar.

Temperature and chemical resistance

Chemical

The polypropylene construction gives general chemical compatibility over a wide pH range; not used with strong oxidisers.

Temperature

Stable operation up to 90 °C; above this an alternative material is considered.

Use and maintenance

- On lines with a high coarse sediment load (>100 µm), place a felt or woven pre-filter ahead of the SMS bag.
- Seat the bag in the basket carefully so that no air pockets form.
- Replace the bag when ΔP reaches 1.5–2 bar; 2.5 bar must not be exceeded.
- Avoid sudden pressure surges at start-up; do not overtighten the housing lid.
- The bags are single use; washing permanently damages the layers.

Values in this data sheet are typical and for information only. Product selection should be made with our engineers based on process fluid, temperature, pressure and flow conditions. Proses T.İ.M. reserves the right to change product specifications without prior notice.

PROSES T.İ.M.®

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