FILTER HOUSINGS

Bag Filter Housing

Pressurised filter housing with an AISI 304, 304L, 316, 316L, 316Ti or 904L stainless steel body that holds a replaceable filter bag. Inside-out flow gives high flow and high dirt-holding capacity; used on chemical, water treatment, paint, pharmaceutical and food lines.



BAG CAPACITY	OPERATING PRESSURE	FILTRATION	CONNECTION
1–8+ bags	**PN16**	**0.5–1,500 µm**	**DN8–DN450**
Single and multi-bag body	16 bar · custom builds above	Depending on the bag fitted	Flange · Thread · Union · Clamp

Technical specifications

Body material	AISI 304 · 304L · 316 · 316L · 316Ti · 904L stainless steel
Number of bags	Single body (1 bag) · Multi-bag body 2–8+ bags
Bag size	Size 1 Ø180×430 · Size 2 Ø180×810 · Size 3 Ø100×230 · Size 4 Ø100×380 mm · Custom size
Filtration precision	1–1,500 µm (felt 1–200 · monofilament 25–1,500) · Special 3-layer bag 0.5–0.8 µm
Flow direction	Inside-out · Dirty inlet at the top, clean outlet at the bottom
Inlet / outlet diameter	DN8–DN450
Connection type	DIN / ANSI flange · Muff · Nipple · Union · Clamp (tri-clamp)
Operating pressure	PN16 (16 bar) standard · Higher PN classes custom-built on request
Lid	Flanged, swing-bolt quick-opening lid
Support basket	4 mm perforated stainless sheet
Body wall thickness	2 mm standard · Reinforced wall thickness options
Vent · drain	1/2″ vent nozzle on the lid · 1/2″ drain nipple at the base · Adjustable 3-leg stand
Pressure gauge	Pakkens stainless gauge standard · Optional second gauge on the outlet for ΔP monitoring
Gasket material	EPDM · NBR · Viton (FKM) · PTFE · Silicone
Surface finish	Mechanical buffing (inner and outer surfaces)
Quality	ISO 9001

Bag diameter and length

SIZE	Ø × LENGTH (MM)	BASKET VOLUME	FLOW
Size 1	180 × 430	~9.5 L	20 m³/h
Size 2	180 × 810	~18 L	40 m³/h
Size 3	100 × 230	~1.6 L	6 m³/h
Size 4	100 × 380	~2.6 L	12 m³/h

Flow and volume are approximate. Beyond universal sizes, housing and bag are custom-made together.

Body material

GRADE	USE
304 / 304L	Neutral water, low-corrosion fluids
316 / 316L	Chlorine, salt, acids, solvents; food, pharma
316Ti	High temperature, weld-zone corrosion
904L	Sulphuric, phosphoric acid, high chloride

Connection and equipment

Flange
To DIN / ANSI standards; high-flow and large-diameter lines.

Muff · Nipple · Union
Threaded and detachable line connections.

Clamp (tri-clamp)
Tool-free dismantling and reassembly for hygienic lines.

Swing-bolt lid
Tool-free, fast bag change.

Support basket
4 mm perforated sheet; stops the bag ballooning and tearing.

Gasket selection
Hot water EPDM · Oil NBR · Aggressive chemicals Viton or PTFE · Food silicone.

Use and maintenance

- Seat the bag fully in the support basket without folds or air pockets; do not run with a crushed or deformed basket.
- Monitor ΔP; change the bag when the differential pressure reaches 1.5–2 bar.
- Avoid sudden pressure surges at first filling and when starting the pump.
- Check the lid gasket and O-rings at every bag change.
- Choose a 316L body in chlorinated or acidic media; keep line pressure below the PN16 class.

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.®
Proses Ticaret İmalat Mühendislik Ltd. Şti.
Musa Gündüz Cad. No:14 Taşköprü, Çiftlikköy / Yalova, Türkiye

+90 226 353 35 70 · Head office
sales@prosestim.com
prosestim.com/en

Product page