FILTER HOUSINGS

Basket Filter Housing

Stainless steel filter housing that filters in the 5–10,000 µm range with a washable stainless steel basket lined with wire mesh. It requires no consumables; used as a pre-filter on lines with high solids loads that need frequent cleaning, and ahead of pumps, valves, flowmeters and heat exchangers.



FILTRATION	OPERATING PRESSURE	CONNECTION	CONSUMABLES
5–10,000 µm	**16 bar**	**1/4″–18″**	**None**
Stainless wire mesh	8–9 bar for large diameters	DN8–DN450	Basket is washed and refitted

Technical specifications

Body material	AISI 304 · 304L · 316 · 316L · 316Ti · 904L
Filter element	Washable stainless steel basket lined with wire mesh
Filtration range	5–10,000 µm (according to the mesh opening)
Mesh weave type	Plain · Twill · Plain Dutch · Twill Dutch (AISI 304 / 316)
Flow direction	Inside-out; sediment collects inside the basket
Inlet / outlet size	1/4″–18″ (DN8–DN450)
Connection type	DIN / ANSI flange · Muff · Nipple · Union · Clamp (tri-clamp) · Camlock
Operating pressure	16 bar (small diameter) · 8–9 bar (large diameter)
Lid system	Bolted · Swing-bolt quick-opening · Davit with handwheel (large diameter)
Lid sealing	Gasket (more secure, wider lid) or O-ring (compact lid)
Gasket material	NBR · Silicone · EPDM · Viton (FKM) · PTFE
Basket fixing	Secured to the body by a hold-down element; prevents movement and bypass
Size	Universal sizes shared with bag filter housings · Process-specific custom builds
Recommended cleaning ΔP	Typically 1.5–2 bar
Conversion	An existing bag filter housing can run as a basket filter housing after basket modification

Body and basket material

GRADE	USE
AISI 304 / 304L	General water, neutral and low-corrosion liquids
AISI 316 / 316L	Fluids containing chlorides, salt, acids, chemicals
AISI 316Ti	High temperature, weld-zone corrosion
AISI 904L	Sulphuric, phosphoric acid and aggressive chemicals

Mesh weave options

WEAVE	PROPERTY
Plain	Standard plain weave
Twill	Double-interlaced weave
Plain Dutch	Fine filtration
Twill Dutch	Tightest weave

The same basket gives a different precision when lined with a different wire mesh.

Connection and lid options

Muff · Nipple
Threaded line connections; small and medium diameters.

Flange
Small and large diameters; high-pressure and frequently dismantled lines.

Union · Clamp
Dismantling without rotating the line; clamp tool-free on hygienic lines.

Bolted lid
Tightened evenly to the body flange; withstands high pressure.

Swing-bolt lid
Tool-free, fast opening and closing; shortens downtime with frequent washing.

Davit with handwheel
One person can lift the heavy lid on large-diameter housings.

Use and maintenance

- Monitor ΔP; clean the basket when it rises clearly above the clean value (typically 1.5–2 bar).
- Before cleaning, isolate the line with valves and release the pressure by opening the air vent / drain nozzle.
- Clean the basket by pressure washing, compressed air, chemical washing or backwashing; do not use a steel wire brush.
- Do not reuse a crushed, cracked or deformed basket; check that the basket seats fully on its seating surface.
- Check the lid gasket and bring the line into service slowly, without sudden pressure surges.

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.

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