CARTRIDGE FILTERS

Washable Cartridge Filter (PP / SS 304)

Cartridge filter with a PP or SS 304 mesh surface fixed by thermal welding to a rigid PP frame, cleaned and reused. In the 50–300 µm range, it retains coarse solids such as sand, rust and sediment on the surface; used on water treatment, irrigation, cooling, chemical and food lines.



MESH SURFACE	FILTRATION	WASHING	LENGTH
PP / SS 304	**50–300 µm**	**500+ cycles**	**5″ – 20″**
On a PP frame	8 mesh opening grades	Under correct cleaning conditions	Standard and Big Blue

Technical specifications

Filter media	PP woven mesh (100% virgin polypropylene) · SS 304 stainless steel woven mesh
Micron ratings	50 · 60 · 80 · 100 · 150 · 200 · 250 · 300 µm (nominal)
Construction type	Surface filtration; mesh fixed to the PP frame by thermal welding, adhesive-free
Support structure	Internally reinforced rigid polypropylene core
Outer diameter	60–70 mm (Big Blue: 110–115 mm)
Inner diameter	28–30 mm
Length options	5″ · 10″ · 20″ (Big Blue: 10″ · 20″)
End cap type	DOE (with gasket) · 222 O-ring · 226 O-ring (non-locking), flat cap
Gasket / O-ring material	Silicone · NBR / EPDM
Operating temperature	PP mesh nominal 60 °C, max. 80 °C · SS 304 mesh max. 80 °C (PP frame limit); higher with the heat-resistant model
Max. differential pressure (ΔP)	2.5 bar @ 30 °C · Reverse flow 2.1 bar @ 25 °C
Cleaning	Manual washing with water · Reverse flow · Compressed air; chemical cleaning on SS 304 mesh
pH range	1–14 (PP and SS 304 mesh)
Quality control	Hydrostatic pressure, micron precision and corrosion resistance testing

Initial pressure drop (10″)

POINT	50 MICRON	100 MICRON	300 MICRON
1	6 L/min · 0.02 bar	9 L/min · 0.01 bar	16 L/min · 0.01 bar
2	12 L/min · 0.05 bar	18 L/min · 0.02 bar	30 L/min · 0.02 bar
3	18 L/min · 0.10 bar	27 L/min · 0.03 bar	43 L/min · 0.04 bar
4	24 L/min · 0.15 bar	36 L/min · 0.06 bar	57 L/min · 0.07 bar
5	30 L/min · 0.20 bar	45 L/min · 0.09 bar	70 L/min · 0.10 bar

10″ cartridge · clean cartridge · water @ 20 °C.

Chemical compatibility

CHEMICAL GROUP	PP	304 SS
Water and process water	E	E
Saline and seawater	E	F
Hot water and steam	G	E
Alkaline solutions	E	G
Acidic environments	F	F
Oxidising chemicals	F	N/R

E: Excellent · G: Good · F: Fair · P: Poor · N/R: Not recommended. The gasket material must be assessed separately.

End cap and connection options

DOE (with gasket)
Double open end; sealed with a silicone or NBR / EPDM gasket.

222 O-ring
Single open end, flat cap; push-in fit with a 222 O-ring.

226 O-ring
Single open end, flat cap; non-locking 226 O-ring connection.

Use and maintenance

- When ΔP rises, remove the cartridge and clean it with water, reverse flow or compressed air; do not exceed 2.1 bar in reverse flow.
- Replace the cartridge if ΔP does not return to its initial value after washing, or if the mesh shows broken wires or deformation.
- Check the O-ring and gasket at every wash; use silicone gaskets on drinking water and food lines.
- Below 50 µm, use a melt blown or pleated cartridge.
- Above 80 °C, use the heat-resistant model; on steam lines, a stainless steel cartridge.
- Under normal conditions, check visually every 6–12 months.

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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