CARTRIDGE FILTERS

Melt Blown Cartridge Filter

Graded-density depth filter made from 100% pure polypropylene microfibres joined by thermal bonding, free of adhesives and resins. With a 1–150 µm range, it is used for pre-filtration and fine filtration in RO pre-filtration, process water, food and beverage and chemical lines.



FILTER MEDIA	FILTRATION	MAX. TEMPERATURE	LENGTH
100% PP	**1–150 µm**	**65 °C**	**5″ – 40″**
Thermally bonded microfibre	12 micron grades	≤ 2 bar ΔP · nominal 60 °C	Standard and Big Blue

Technical specifications

Filter media	100% high-purity polypropylene; free of adhesives, resins and lubricants
Micron ratings	1 · 3 · 5 · 10 · 15 · 20 · 25 · 30 · 50 · 80 · 100 · 150 µm (nominal)
Construction type	Graded-density depth filter; outer layers retain coarse particles, inner layers finer ones
Support structure	Coreless; the fibre matrix is self-supporting
Outer diameter	60 mm ±1 (Big Blue: 110 mm ±1)
Inner diameter	28 mm ±1
Length options	5″ · 10″ · 20″ · 30″ · 40″ · custom cutting
End cap type	DOE (without gasket, with gasket, with end cap gasket) · SOE
Connection / cap	215 · 222 · 226 O-ring · Flat · Fin 1 · Fin 2 cap
O-ring material	Silicone · NBR · EPDM · Viton · PTFE
Operating temperature	Nominal 60 °C · Max. 65 °C (≤ 2 bar ΔP)
Max. differential pressure (ΔP)	3.45 bar @ 25 °C · Reverse flow 1.72 bar @ 25 °C
Recommended replacement ΔP	2.0–2.4 bar
pH range	1–14; for strong acids and oxidising agents see the chemical table
Quality	ISO 9001:2015 · Certificate No: 06009/PR09U

Initial pressure drop (10″, bar)

FLOW RATE	1 MICRON	5 MICRON	10 MICRON	25 MICRON
10 L/min	0.026	0.023	0.021	0.009
20 L/min	0.053	0.046	0.043	0.019
30 L/min	0.079	0.068	0.065	0.028
40 L/min	0.106	0.091	0.086	0.037

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

Chemical compatibility

CHEMICAL GROUP	PP
Water, deionised water	E
Dilute inorganic acids	E
Strong inorganic acids	P
Alkalis (bases)	E
Oxidising agents	P
Aromatic hydrocarbons	F
Mineral / vegetable oil	F
Chlorinated solvents	P

E: Excellent · G: Good · F: Fair · P: Poor · N/R: Not recommended

End cap and connection options

DOE
Double open end; without gasket, with gasket or with end cap gasket.

SOE · O-ring
Single open end; push-in fit with 215, 222 or 226 O-ring.

Cap types
Flat, Fin 1 or Fin 2 cap; chosen to suit the filter housing type.

Use and maintenance

- Choose the micron rating together with the target particle, fluid chemistry, temperature and line pressure.
- Record the initial ΔP of the clean cartridge; replace it when ΔP reaches 2.0–2.4 bar.
- At 65 °C, limit differential pressure to 2 bar; high temperature and pressure together damage the structure.
- Limit system flow to 70% of the cartridge capacity.
- Cartridges are single-use; they cannot be washed and reused.
- Check gasket contact on installation; use only silicone grease on O-rings.

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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Product page