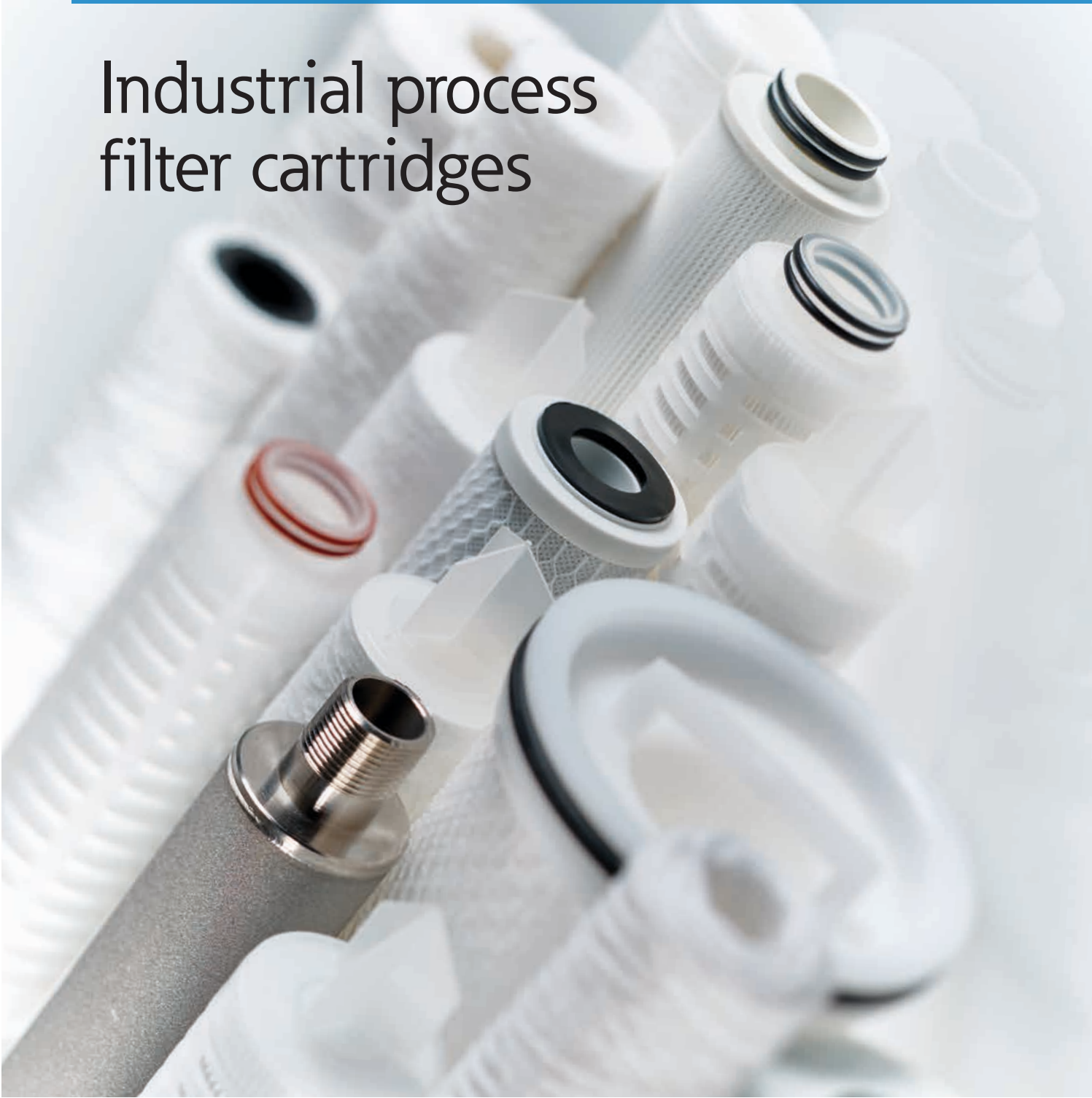


Industrial process filter cartridges



Powering Business Worldwide

Wide range of filter cartridges offer complete filtration solutions for industrial processes

Filter cartridges can be the logical choice for a variety of applications. Eaton provides high quality depth, pleated and membrane filter cartridges with retention ratings ranging from 0.05 µm to 150 µm, with outstanding dirt-holding capacity.

In addition to a wide range of sizes and various adapter codes, Eaton offers cartridges with different filter materials such as polypropylene, polyamide, PTFE and more.

Eaton's industrial process filter cartridges provide consistent, high-performance and cost-effective solutions for both common and more challenging industrial applications. These applications span from pre-filtration for high-purity water to final filtration for paints and coatings, as well as total filtration for various chemicals.

The product range contains a variety of ECOCART and TOPCART single and multi-filter cartridge housings. Made from stainless steel and plastic, these housings are designed for ease-of-use, even in the most demanding industries and filtration applications.

Eaton also supplies a wide range of customized filtration and separation solutions.

Markets

- Chemical
- Electronics
- Metals
- Oil & Gas
- Power
- Pulp & Paper
- Water/Wastewater



Selection guide

DEPTH FILTER CARTRIDGES



LOFTREX™/LOFTREX™ Nylon

Nominal rated filter cartridges are manufactured from meltblown polypropylene or polyamide 6 microfibers for general industrial applications.



LOFTREX M

95% nominal rated filter cartridges are manufactured from high-purity polypropylene microfibers. Available with support core and various end caps for a wide range of applications.



LOFMET™

Porous titanium filter cartridges are designed for applications involving extreme operating conditions and aggressive fluids and gases.



LOFPLEAT™ EE

Pleated polypropylene filter media provides a high filtration surface area for nominal rated filtration performance in a wide range of applications.

PLEATED FILTER CARTRIDGES



LOFPLEAT™ AG

Pleated polypropylene filter media provides absolute filtration in a wide range of applications.



LOFPLEAT™ HF

Large diameter cartridges designed with pleated media construction in polypropylene combines high surface area with an inside-out filtration flow. Suitable for use in high flow filter housings as well as bag filter housings (with conversion kit).

MEMBRANE FILTER CARTRIDGES



LOFMEM™ W

Industrial grade PES membrane filter cartridges offer high efficiencies combined with large surface area for general and specialized industrial applications.



LOFMEM™ T and TFA

PTFE membrane filter cartridges offer precision filtration under harsh, corrosive environments. Available with polypropylene components (LOFMEM T) or all fluoropolymer construction (LOFMEM TFA).

Overview of available adapter codes

ADAPTER CODES



Code (): Double open end (DOE) without end caps (only LOFTREX, LOFTREX N and LOFTREX-M)



Code G: Double open end (DOE) with foamed polyethylene flat gaskets (only LOFTREX and LOFTREX-M)



Code DOE: Double open end (DOE) with flat gaskets (only LOFPLEAT, LOFMEM and LOFMET)



Code 1: Single open end (SOE) with double bayonet adapter (2-226 O-ring) and flat end cap



Code 2: Single open end (SOE) with adapter (2-222 O-ring) and end cap with fin

ADAPTER CODES



Code 3: Single open end (SOE) with double bayonet adapter (2-226 O-ring) and end cap with fin



Code 4: Single open end (SOE) with adapter (2-222 O-ring) and flat end cap



Code M1 and M2: Single open end (SOE) with 3/4" male NPT threaded end (Code M1) respectively 1" male NPT threaded end (Code M2) (only LOFMET)

Technical data

Filter cartridge type	LOFTREX	LOFTREX Nylon	LOFTREX M	LOFMET
Filter material	Polypropylene (PP)	Polyamide 6 (PA 6)	Polypropylene (PP)	Titanium (Ti)
Retention rating (µm)	1, 5, 10, 20, 50, 75	1, 5, 10, 20, 50, 75	1, 3, 5, 10, 20, 50, 90, 150	0.50, 1, 5, 10, 15, 35
Retention efficiency	80%	90%	95%	99.5%
Lengths (nominal)	10", 20", 30", 40"	10", 20", 30", 40"	10", 20", 30", 40"	5", 9.75", 10", 20", 30", 40"
Adapter code	()	—	(I), G, 1, 2, 3, 4	DOE, 1, 4, M1, M2
Inner core	—	—	Polypropylene	—
End caps	—	—	Polypropylene	Titanium
Cages	—	—	—	—
Max. operating temperature	149°F (65°C)	248°F (120°C)	176°F (80°C)	700°F (371°C)
Max. pressure difference in flow direction	29 psid @ 70°F (2.0 bar @ 21°C)	36 psid @ 70°F (2.5 bar @ 21°C)	58 psid @ 77°F (4.0 bar @ 25°C)	250 psid (17.4 bar)

Filter cartridge type	LOFPLEAT EE	LOFPLEAT AG	LOFPLEAT HF	LOFMEM W	LOFMEM T	LOFMEM TFA
Filter material	Polypropylene (PP)	Polypropylene (PP)	Polypropylene (PP)	Polyethersulfone (PES)	Polytetrafluorethylene (PTFE)	Polytetrafluorethylene (PTFE)
Retention rating (µm)	1, 5, 10, 25, 50	1, 5, 10, 25, 50	1, 5, 10, 20	0.20, 0.45	0.05, 0.10, 0.20, 0.45, 1	0.05, 0.10, 0.20, 0.45, 1, 10
Retention efficiency	90%	99.98%	99.9%	Absolute	Absolute	Absolute
Lengths (nominal)	10", 20", 30", 40"	10", 20", 30", 40"	20", 40", 60"	10", 20", 30", 40"	10", 20", 30", 40"	10", 20", 30", 40"
Adapter code	DOE, 1, 2, 3, 4	DOE, 1, 2, 3, 4	—	DOE, 1, 2, 3, 4	DOE, 1, 2, 3, 4	4
Inner core	Polypropylene	Polypropylene	—	Polypropylene	Polypropylene	PFA
End caps	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	PFA
Cages	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	PFA
Max. operating temperature	176°F (80°C)	176°F (80°C)	176°F (80°C)	176°F (80°C)	203°F (95°C)	300°F (150°C)
Max. pressure difference in flow direction	58 psid @ 70°F (4.0 bar @ 21°C) 35 psid @ 176°F (2.4 bar @ 80°C)	58 psid @ 70°F (4.0 bar @ 21°C) 35 psid @ 176°F (2.4 bar @ 80°C)	43 psid @ 70°F (3.0 bar @ 21°C)	75 psid @ 70°F (5.2 bar @ 21°C) 30 psid @ 176°F (2.1 bar @ 80°C)	80 psid @ 70°F (5.5 bar @ 21°C) 40 psid @ 180°F (2.8 bar @ 71°C)	80 psid @ 75°F (5.5 bar @ 24°C) 55 psid @ 167°F (3.8 bar @ 75°C) 30 psid @ 257°F (2.1 bar @ 125°C) 15 psid @ 300°F (1.0 bar @ 150°C)

ECOCART and TOPCART single and multi-filter cartridge housings

Eaton offers a wide range of filter cartridge housings for various applications. Ranging from ECOCART housings for commercial applications to TOPCART housings for heavy industrial applications, our selection accommodates both single and multi-filter cartridge housing configurations.

In commercial applications with no stringent certification demands, (e.g., water or other non-hazardous liquids) users can optimize their filtration results by pairing ECOCART filter cartridge housings with meltblown LOFTREX or pleated LOFPLEAT filter cartridges.

Operators who are responsible for particularly demanding processes such as the filtration of chemicals, solvents and other critical media will find suitable single and multi-filter cartridge housing solutions in the TOPCART series. The TOPCART series is available with optional material certificates,

specific testing requirements as well as ASME calculation and ASME U-Stamp certifications.

The TOPCART filter housings can be equipped with Eaton's meltblown or pleated filter cartridges as well as with the LOFMEM membrane filter cartridges

for the highest levels of filtration performances. These can be used for all different types of industrial applications starting from pre-filtration up to the final filtration stage in certain processes.



Single



Multi



ECOCART™ filter cartridge housings

Features	Single	Multi
Housing material	304SS	316SS
Closure	Nut	Clamp
IN/OUT connections	Threaded	Threaded
Design pressure	300 psid (20 bar)	150 psid (10 bar)
Max. temperature	200°F (90°C)	200°F (90°C)
No. of filter cartridges	1	4, 5, 7
Filter cartridge length	10", 20", 30" (max. Ø 2.75")	10", 20", 30", 40" (max. Ø 2.75")
Other connections	Drain	Drain, vent, gauge
Mount	Bracket	Legs
Gasket	EPDM, others on request	
Surface	Blasted	Inside pickled, outside electropolished

TOPCART™ filter cartridge housings

Features	Single	Multi
Housing material	316SS	316SS
Closure	Clamp	Eyebolts
IN/OUT connections	Threaded	Flange
Design pressure	150 psid (10 bar)	150 psid (10 bar)
Max. temperature	200°F (90°C)	300°F (148°C)
No. of filter cartridges	1	Individual
Filter cartridge length	10", 20", 30" (max. Ø 2.75") ¹	10", 20", 30", 40" (max. Ø 2.75") ¹
Other connections	Drain, vent	Drain, vent, gauge
Mount	Bracket	Legs
Gasket	EPDM, others on request	
Surface	Inside pickled, outside electropolished	Blasted

For TOPCART heavy industrial designs (e.g., with eyebolts, U-Stamp, flanges, etc.) please contact Eaton. For a quotation following your application and design requirements please contact Eaton. Housings for high flow filter elements are available upon request.

¹ For all adaptor codes (standard DOE/222)



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