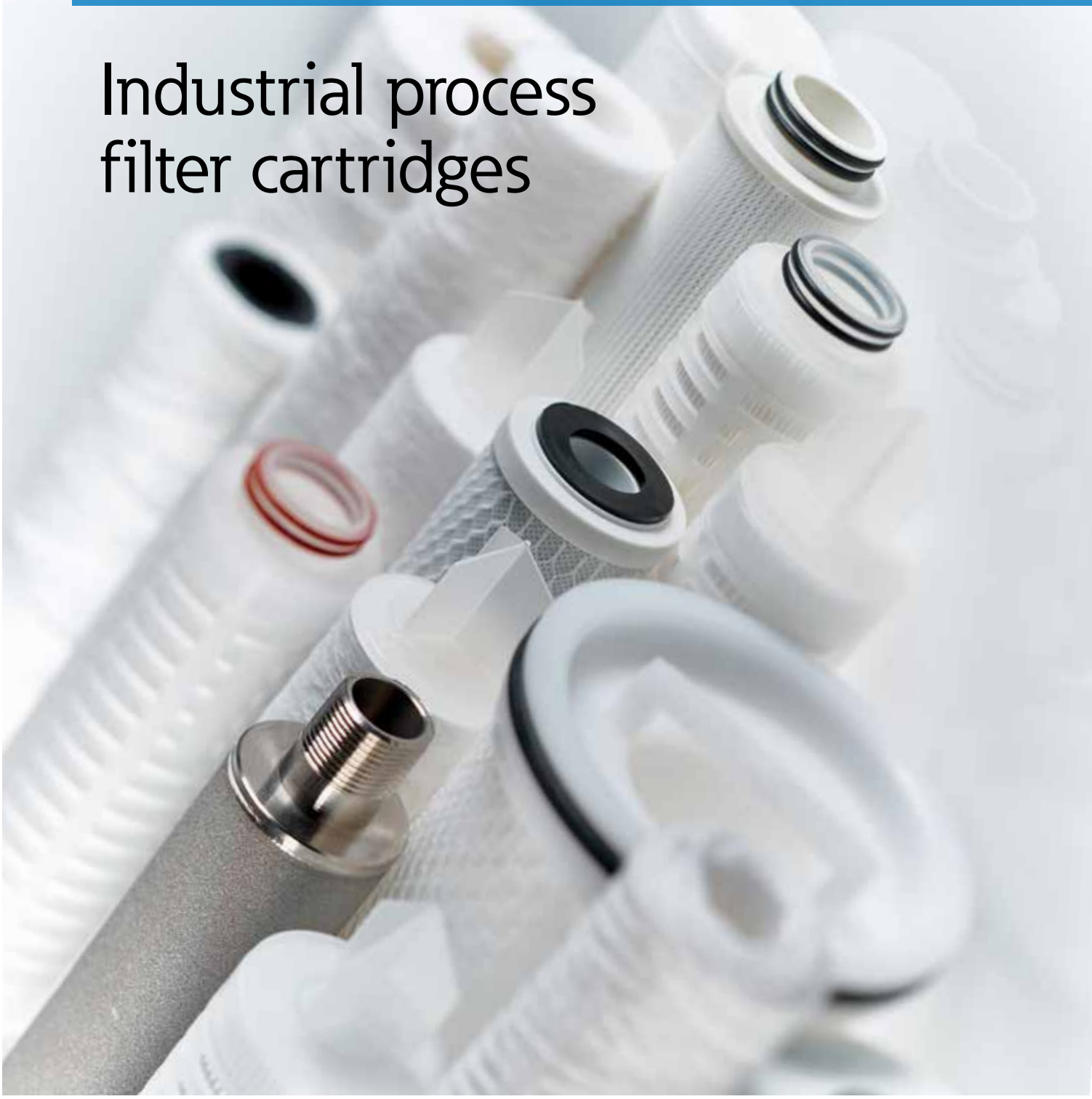
Filtration Products

Industrial process filter cartridges



Powering Business Worldwide

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

Cartridge filters 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 and 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, nylon, 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, varying from pre-filter for high purity water up to final filtration for paints and lacquers, or total filtration for various chemicals. The product range contains many single and multi-cartridge filter housings made of stainless steel and plastic 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
- Cosmetics
- Electronics
- Metals
- Oil & Gas
- Power
- Pulp & Paper
- Water/Wastewater

Selection guide

DEPTH FILTER CARTRIDGES

LOFTREX™

80% nominal rated filter cartridges are manufactured from meltblown polypropylene 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.

LOFTOP™

99.98% absolute rated filter cartridges made of polypropylene microfibers. Available with support core and various end caps for the most demanding applications requiring high efficiency and performance.

LOFTOP™ Nylon

99.98% absolute rated filter cartridges made of polyamide 6.6 microfibers. Available with support core and various end caps for wide range of applications requiring high temperature and chemical resistance.

LOFTOP™ Coreless

99.98% absolute rated, large diameter filter cartridges made of polypropylene, alternatively polyamide 6.6 microfibers for applications with high flow rates.

LOFWIND™

Offers a solution for basic filtration needs through a wide range of material choices and retention ratings. Materials include polypropylene, cotton and glass fiber with polypropylene and stainless steel support cores.

LOFCLEAN™

Composed of coreless structure of acrylic microfibers, bonded with phenolic resin. This solid structure provides consistent filtration performance for high viscosity and high temperature applications.

LOFSORB™

Activated carbon filter cartridges are characterized by a very good adsorption capacity for free chlorine and organic compounds.

PLEATED FILTER CARTRIDGES

LOFMET™

Porous titanium or stainless steel 316 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.

LOFPLEAT™ AG

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

LOFPLEAT™ GG

Features high efficiency micro fiberglass media for a wide variety of industrial applications requiring chemical resistance and long life.

PLEATED FILTER CARTRIDGES

LOFPLEAT™ HF and HF-G

Large diameter cartridges designed with pleated media construction in polypropylene or micro fiberglass 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).

LOFPLEAT™ CP

Large diameter cartridges combine high efficiency with extreme surface area for retrofitting in specific filtration systems.

MEMBRANE FILTER CARTRIDGES

LOFMEM™ W and N

Industrial grade PES and Nylon 66 membrane filter cartridges offer high efficiencies combined with large filtration area for general and specialized industrial applications.

LOFMEM™ T and TFA

Industrial grade PTFE membrane filter cartridges offer precision filtration under harsh, corrosive environments and are commonly applicable in various tank venting applications. Available with polypropylene components (LOFMEM T) or all fluoropolymer construction (LOFMEM TFA).

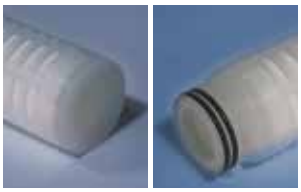
Overview of available adapter codes

ADAPTER CODES

Code (): Double open end (DOE) without end caps (only LOFTREX and LOFTOP)

Code G: Double open end (DOE) with foamed Polypropylene flat gaskets (only LOFTREX and LOFTOP)

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

ADAPTER CODES

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

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

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)

Code 10 and 20: Double open end (DOE) with internal O-ring (Code 10); Single open end (SOE) with internal O-ring (Code 20)

Technical data

Filter cartridge type	LOFTREX	LOFTREX M	LOFTOP	LOFTOP Nylon	LOFTOP Coreless	LOFWIND
Filter material	Polypropylene	Polypropylene	Polypropylene	Polyamide 6.6	Polypropylene, Polyamide 6.6	Polypropylene, Bleached cotton, fiberglass
Retention rating (µm)	1, 3, 5, 10, 20, 50, 75	1, 3, 5, 10, 20, 50, 150	0.5, 1, 3, 5, 10, 20, 50, 120	0.5, 1, 3, 5, 10, 20, 50, 120	1, 5, 10, 20, 40, 70, 90, 120	1, 5, 10, 25, 50, 75,100
Retention efficiency	80%	95%	99.98%	99.98%	99.98%	Nominal
Lengths (nominal)	9.75“, 10“, 20“, 29.25“, 30“, 40“	10“, 20“, 29.25“, 30“, 39“, 40“	9.75", 10", 19.5", 20", 29.25", 30", 39", 40"	9.75“, 10“, 20“, 29.25“, 30“, 40“	20", 40"	9.75“, 10“, 19.5“, 20“, 29.25“, 30“, 40“
Adapter code	()	(), G, 1, 2, 3, 4	(), G, 1, 2, 3, 4	(), G, 1, 2, 3, 4	()	()
Inner core	–	Polypropylene	Polypropylene (optional:stainless steel)	Fiberglass reinforced polyamide 6.6 (optional:stainless steel)	–	Polypropylene, stainless steel,
End caps	–	Polypropylene	Polypropylene	Polyamide 6.6	–	–
Cages	–	–	–	–	–	–
Max. operating temperature	176 °F (80 °C)	176 °F (80 °C)	176 °F (80 °C)	302 °F (150 °C)	Polypropylene: 176 °F (80 °C) Polyamide 6.6: 266 °F (130 °C)	Polypropylene: 176°F (80°C) Cotton: 320°F (160°C) Fiberglass: 752°F (400°C)
Max. pressure difference in flow direction	36 psid at 77 °F (2.5 bar at 25 °C)	58 psid at 77 °F (4.0 bar at 25 °C)	58 psid at 77 °F (4.0 bar at 25 °C)	90 psid at 86 °F (6.2 bar at 30 °C) 80 psid at 158 °F (5.5 bar at 70 °C) 70 psid at 212 °F (4.8 bar at 100 °C) 50 psid at 302 °F (3.4 bar at 150 °C)	Polypropylene: 58 psid at 77 °F (4.0 bar at 25 °C) 14.5 psid at 176 °F (1.0 bar at 80 °C) Polyamide 6.6: 58 psid at 90 °F (4.0 bar at 32 °C) 14.5 bar at 266 °F (1.0 bar at 130 °C)	36 psid at 86 °F (2.5 bar at 30 °C)

Technical data

Filter cartridge type	LOFCLEAN	LOFSORB	LOFMET	LOFPLEAT EE	LOFPLEAT AG	LOFPLEAT GG
Filter material	Acrylic fiber, bonded with phenolic resin	Activated carbon block	Titanium and stainless steel 316	Polypropylene	Polypropylene	Fiberglass
Retention rating (µm)	2, 5, 10, 25, 50, 75, 125, 150	Type 01/04: 1, 5, 10 Type 02: 5	0.5, 1, 5, 10, 15, 35, 50, 100	0.2, 0.45, 1, 5, 10, 25	0.2, 0.45, 1, 5, 10, 25, 50	0.45, 1, 3, 10
Retention efficiency	Nominal	Nominal	99.5%	90%	99.98%	90%
Lengths (nominal)	9.75", 10", 19.5", 20", 29.25", 30", 39", 40"	4.875", 5", 9.75", 20", 30" (type 01) 5", 9.75", 10", 20", 30" (type 02) 9.75", 20" (type 04)	5", 9.75", 10", 20", 30", 40"	10", 20", 30", 40"	10", 20", 30", 40"	10", 20", 30", 40"
Adapter code	()	()	DOE, 1, 4, M1, M2	DOE, 1, 2, 3, 4, 10, 20, 28	DOE, 1, 2, 3, 4, 10, 20, 28	DOE, 1, 2, 3, 4, 10, 20, 28
Inner core	–	–	–	Polypropylene	Polypropylene	Polypropylene
End caps	–	Ethylene-octene copolymer (type 01/04), polypropylene (type 02)	Titanium and stainless steel 316	Polypropylene	Polypropylene	Polypropylene
Cages	–	Polypropylene fleece and net	–	Polypropylene	Polypropylene	Polypropylene
Max. operating temperature	250 °F (121 °C)	126 °F (52 °C)	700 °F (371 °C)	176 °F (80 °C)	176 °F (80 °C)	176 °F (80 °C)
Max. pressure difference in flow direction	145 psid at 70 °F (10 bar at 21 °C) 125 psid at 100 °F (8.6 bar at 38 °C) 90 psid at 150 °F (6.2 bar at 65 °C) 65 psid at 180 °F 4.5 bar at 82 °C) 25 psid at 250 °F (1.7 bar at 121 °C)	101 psid (7 bar) (type 01/04) 36 psid (2.5 bar) (type 02)	250 psid (17.4 bar)	58 psid at 70 °F (4.0 bar at 21 °C) 35 psid at 176 °F (2.4 bar at 80 °C)	58 psid at 70 °F (4.0 bar at 21 °C) 35 psid at 176 °F (2.4 bar at 80 °C)	58 psid at 70 °F (4.0 bar at 21 °C) 35 psid at 176 °F (2.4 bar at 80 °C)

Filter cartridge type	LOFPLEAT HF	LOFPLEAT HF-G	LOFPLEAT CP	LOFMEM W	LOFMEM N	LOFMEM T	LOFMEM TFA
Filter material	Polypropylene	Fiberglass	Polypropylene	Polyethersulfone (PES)	Nylon 66 membrane	PTFE membrane	PTFE membrane
Retention rating (µm)	1, 5, 10, 20	1, 2.5, 4.5, 10, 20	1, 5, 10, 20, 40, 70	0.05, 0.1, 0.2, 0.45, 0.65	0.20, 0.45, 1.00	0.05, 0.1, 0.2, 0.45, 1	0.1, 0.2, 0.45, 1
Retention efficiency	99.9%	99.9%	99.98%	Absolute	Absolute	Absolute	Absolute
Lengths (nominal)	20", 40", 60"	20", 40", 60"	40", 60"	10", 20", 30", 40"	10", 20", 30", 40"	10", 20", 30", 40"	10", 20", 30", 40"
Adapter code	–	–	–	DOE, 1, 2, 3, 4, 20	DOE, 1, 2, 3, 4, 10, 20	DOE, 1, 2, 3, 4, 10, 20	4
Inner core	–	–	Polypropylene	Polypropylene	Polypropylene	Polypropylene	PFA
End caps	Polypropylene	Polypropylene or polyacetal	Polypropylene	Polypropylene	Polypropylene	Polypropylene	PFA
Cages	Polypropylene	Polypropylene or polyester	Polypropylene	Polypropylene	Polypropylene	Polypropylene	PFA
Max. operating temperature	176 °F (80 °C)	Polypropylene: 180 °F (82 °C) Polyacetal: 230 °F (110 °C)	176 °F (80 °C)	180 °F (82 °C)	176 °F (80 °C)	203 °F (95 °C)	338 °F (170 °C)
Max. pressure difference in flow direction	43 psid at 70 °F (3.0 bar at 21 °C)	75 psid at 70 °F (5.2 bar at 21 °C) 20 psid at 180 °F (1.4 bar at 82 °C) 50 psid at 230 °F (3.4 bar at 110 °C)	50.7 psid at 77 °F (3.5 bar at 25 °C)	60 psid at 80 °F (4.1 bar ta 27 °C) 30 psid at 160 °F (2.0 bar at 71 °C) 15 psid at 200 °F (1.0 bar at 93 °C)	58 psid at 81 °F (4.0 bar at 21 °C)	75 psid at 70 °F (5.2 bar at 21 °C) 40 psid at 176 °F (2.8 bar at 80 °C) 15 psid at 203 °F (1.0 bar at 95 °C)	NA

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