Filter Bags

PROGAF™
ACCUGAF™
ABP
LOFCLEAR™
MAX-LOAD™
HAYFLOW™
HAYFLOW Q
DURAGAF™
CLEARGAF™
SENTINEL®
SNAP-RING®
BANDSEAL™

High performance unparalleled selection



EATON
Powering Business Worldwide

Wide range of filter bag materials and fabrication technologies to meet every need

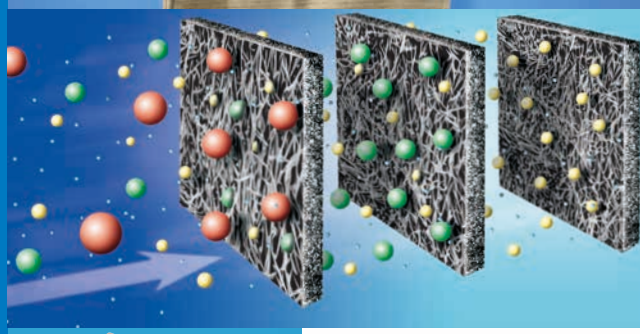
From unique element designs that range from multilayer construction, pleated extended surfaces and fully-welded seams to advanced sealing technology, Eaton delivers performance products for both simple and complex applications.

Whether sewn or welded, Eaton filter bags are fabricated using the most advanced techniques and equipment in the world. Highly automated welding systems produce consistent, dependable bag construction. Eaton's proprietary UNIWELD system provides bag seals that are strong, yet flexible to conform to restrainer baskets. Food-grade products are manufactured in facilities where both the environment and materials are controlled to assure cleanliness.

This range of design and fabrication options offers solutions for the full spectrum of fine and coarse filtration applications. Repeatable, durable, cost-effective technology is working for Eaton's customers.

Eaton's complete line of single and multi-bag filter housings and filter bags are used in a variety of industries and are designed to meet the needs of the most demanding applications. Eaton's bag filtration systems help customers around the world meet their need for efficiency, safety, convenience and value.













Eaton Filter Bags

Selection Guide

HIGH EFFICIENCY



PROGAF filter bags

Combines high-efficiency media with a high-capacity pre-filter for effective retention rating down to the sub-micron level.



ACCUGAF / ABP filter bags

Highly efficient with an extremely high particle retention rating. Cost-effective filtration solutions for demanding applications with efficiencies greater than 99%.



LOFCLEAR filter bags

Highly effective filter bags with a special, multi-layer construction that results in *absolute* efficiency for demanding applications.



MAX-LOAD coreless filter bags

High efficiency, meltblown filter bag without inner core.

HIGH CAPACITY



MAX-LOAD pleated filter bags

Extended-life pleated material increases dirt-holding capacity and lasts up to ten times longer than standard needle-felt filter bags.



HAYFLOW filter elements

Combines the best of filter bags and filter cartridges in one element.



HAYFLOW Q filter elements

High capacity extended-life needle felt with ultrafine nylon mesh cover layer with *absolute* efficiency.



DURAGAF filter bags

Extended-life material results in fewer filter bag change-outs, improves operating efficiencies and reduces operating costs.

FOOD



CLEARGAF filter bags

Meets EC and FDA requirements for pharmaceutical, food and beverage industries.

STANDARD



SENTINEL filter bags

Fully-welded construction for high efficiency and bypass-free filtration.



SNAP-RING filter bags

Sewn construction in needle felt, monofilament and multifilament material.



ABSORPTION INSERT filter elements

The ultimate solution for increased dirt and oil removal capacity.

STANDARD



Monofilament filter bags

Different materials of SENTINEL and SNAP-RING monofilament filter bags cover many applications with chemical and thermal properties.



Multifilament filter bags

Basic line of nominal rated sewn SNAP-RING multifilament mesh bags.



BANDSEAL filter bags

Tie-on filter bags for filtration without a bag filter housing.

Technical Data

Ranges	Codes	Available grades	Sizes	Seal rings	Welded, sewn or glued ring/side/bottom	Materials	Media types	Surface finish	Max. oper. temp. (°C)
PROGAF	PGF	50, 51 or 55	02	E	W / W / W	PP	Melt		90
ACCUGAF	AGF	51, 53, 55, 57 or 59	01, 02	E	W / W / W	PP	Melt		90
	AGFE	51, 55 or 57	01, 02	H	W / S / S	PET	Melt		150
ABP	ABP	1, 5, 10 or 25	03, 04	E	W / W / W	PP	Melt		90
LOFCLEAR	LCR	123, 124, 125, 126, 128, 129, 130 or 135	01, 02	E	W / S / S	PP	Melt		90
	LCR	522, 525, 527 or 529	02	Z	W / W / W	PP	Melt		90
MAX-LOAD coreless	CLPO	1, 5, 10, 20, 50,100 or 150	01, 02	E	W / W / W	PP	Melt		90
	CLPE	1, 5, 10, 20, 50,100 or 150	01, 02	H	W / W / W	PET	Melt		135

Ranges	Codes	Available grades																Sizes	Seal rings	Welded, sewn or glued ring/side/bottom	Materials	Media types	Surface finish	Max. oper. temp. (°C)
		1	5	10	25	50	80	100	125	150	200	250	300	400	600	800	1000	1250							
MAX-LOAD pleated	POXL	■	■	■	■	■													01, 02	E	W / W / W	PP	Felt	Glazed	90
	PEXL	■	■	■	■	■													01, 02	H	W / W / W	PET	Felt	Glazed	135
HAYFLOW	POXL	■	■	■	■	■		■											02	E	W / W / W	PP	Felt	Glazed	90
	PEXL	■	■	■	■	■		■											02	H	W / W / W	PET	Felt	Glazed	150
	LCR	128																	02	E	W / S / W	PP	Melt		90
HAYFLOW Q	POXL	■	■	■	■	■		■											02	E	W / W / W	PP	Felt	Glazed	90
	PEXL	■	■	■	■	■		■											02	H	W / W / W	PET	Felt	Glazed	150
DURAGAF	POXL	■	■	■	■	■		■											01, 02	E	W / W / W	PP	Felt	Glazed	90
	PEXL	■	■	■	■	■		■											01, 02	H	W / W / W	PET	Felt	Glazed	150
	MAXPOXL	■	■	■	■	■		■											02	E	W / W / W	PP	Felt/Melt	Glazed	90
CLEARGAF	POF	■	■	■	■	■		■			■								01, 02	E	W / W / W	PP	Felt	Singed	90
	POXLF		■	■	■	■		■											01, 02	E	W / W / W	PP	Felt	Glazed	90
	PEF	■	■	■	■			■											01, 02	H	W / W / W	PET	Felt	Singed	140
	PEXLF	■	■	■															01, 02	H	W / W / W	PET	Felt	Glazed	140
	NMOF		■	■	■	■	■	■	■	■	■	■	■	■	■	■			01, 02	H	W / S / S	Nylon	Mesh		140
SENTINEL	PO	■	■	■	■	■		■			■								01, 02, 03, 04	E	W / W / W	PP	Felt	Singed	90
	PE	■	■	■	■	■		■			■								01, 02, 03, 04	H	W / W / W	PET	Felt	Singed	150
	MAXPO	■	■	■	■	■		■			■								02	E	W / W / W	PP	Felt/Melt	Singed	90
SNAP-RING	PO	■	■	■	■	■		■			■								01, 02	S	S / W / S	PP	Felt	Singed	110
	PO	■	■	■	■	■		■			■								03, 04	S	S / S / S	PP	Felt	Singed	110
	PE	■	■	■	■	■		■			■								01, 02	S	S / W / S	PET	Felt	Singed	190
	PE	■	■	■	■	■		■			■								03, 04	S	S / S / S	PET	Felt	Singed	190
	NY		■	■	■	■		■											01, 02, 03, 04	S	S / S / S	Nylon	Felt		190
	PT	■		■															01, 02	A	S / S / S	PTFE	Felt		260
	HT		■		■			■											01, 02	A	S / S / S	MA	Felt	Singed	205
Monofilament	NMO				■	■	■	■	■	■	■	■	■	■	■	■	■	■	01, 02, 03, 04	S	S / S / S	Nylon	Mesh		190
	NMO		■	■	■	■	■	■	■	■	■	■	■	■	■	■			01, 02, 03, 04	Z	S / S / S	Nylon	Mesh		125
	PMO							■		■	■		■	■	■	■			01, 02	A	S / S / S	PP	Mesh		110
	PEMO						■			■	■			■					01, 02	S	S / S / S	PET	Mesh		190
	PEEKMO							■			■	■		■	■				01, 02	A	S / S / S	PEEK	Mesh		240
Multifilament	PEMU							■		■		■		■	■	■			01, 02	S	S / S / S	PET	Mesh		145
BANDSEAL	NMO				■	■	■	■	■	■	■	■	■	■	■	■			01		S / S / S	Nylon	Mesh		190
	NMO				■	■	■	■	■	■	■	■	■	■	■	■			43, 45	R	S / S / S	Nylon	Mesh		190

Chart abbreviations: PET: polyethylene terephthalate, PP: polypropylene, MA: Meta-Aramid, Melt: melt-blown, W: welded, S: sewn, G: glued.

Ring abbreviations: E: polypropylene/SENTINEL seal ring, H: polyester/SENTINEL seal ring, Z: Santoprene™/SENTINEL seal ring, S: zinc-plated steel SNAP-RING, A: Stainless steel SNAP-RING, R: without seal ring

Maximum flow rates for most filter bag ranges are as shown below with the following exceptions:
1) POXL, PEXL, POXLF and PEXLF filter bags, size 01: 15 m³/h and size 02: 30 m³/h. 2) AGF, AGFE and LCR 100 filter bags, size 01: 8 m³/h and size 02: 15 m³/h. 3) LCR 500 filter bags, size 02: 12 m³/h. 4) PGF filter bags, size 02: 10 m³/h

Filter specifications

Size	Max. flow rate (m³/h)	Filter area (m²)	Volume (l)	Diameter (mm)	Length (mm)
01	20	0.24	7.6	180	430
02	40	0.48	17.0	180	810
03	6	0.08	1.9	100	230
04	12	0.16	2.7	100	380
43	6	0.09	3.0	89	300
45	12	0.15	4.5	89	500

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Chemical resistance of filter bags

Materials	Codes	Aqueous media	Aliphatic solvents	Aromatic solvents	Alkaline media	Strongly alkaline	Acid media	Strongly acidic
Needle felt polypropylene	PO/POXL/POF/POXLF	■	■		■		■	■
Needle felt polyester	PE/PEXL/PEF/PEXFL	■	■	■	■		■	
Needle felt nylon	NY	■	■	■	■	■		
Needle felt meta-Aramid	HT	■	■	■	■		■	
Multifilament polyester	PEMU	■	■	■	■		■	
Monofilament polypropylene	PMO	■	■		■		■	■
Monofilament nylon	NMO	■	■	■	■	■		
Needle felt PTFE	PT	■	■	■	■	■	■	
Monofilament PEEK	PEEKMO	■	■	■	■	■	■	



Applications

Automotive Filtration of pre-treatment bath, filtration of e-coat, top coat and clear coat, primer, paint ring line filters, parts cleaning fluids, drawing compounds, lubricants, metal working fluids and pump intake filters.

Chemical Catalyst recovery, removal of pipe scale, polishing of aqueous process fluids, alkalis, acids and solvents, filtration of emulsions and dispersions, gel removal from resins. Activated carbon or catalyst removal in the fine chemicals industry is a typical example of a demanding application in chemical processing. Eaton filter bags meet the requirements for high-efficiency, yet also offer long service life and reliability.

Electronics Wafer and chip processing, electronic etching baths, photo-chemical polishing, and high-purity water filtration and pre-filtration of various membrane filtration processes to improve their cost-effectiveness. Eaton filter bags demonstrate the required purity, efficiency and consistent performance.

Food and beverage Filtration of wine, spirits and beer, removal of particles from edible oils, removal of carbon black from cellulose, slime removal in gelatin, liquid sugar, thick juice, corn syrup polishing, starch processing, milk processing and soft drinks. Many Eaton filter bags conform to FDA and EC food processing standards and can meet the unique and varied demands of these applications.

Metal working Filtration of hydraulic oil, pre-treatment system filtration, precious metal recovery, metal working fluids and drawing compounds. Parts cleaning machines use our filter bags for minimizing residual dirt on parts.

Paint and lacquer Removal of agglomerates, removal of paint coagulates, solvent filtration, removal of storage contaminants, filling lines, paint mixing lines and monomer purification.

Petrochemicals Filtration of lube oils, fuel additives, enhanced oil recovery, filtration of amine solutions, filtration of glycol fluids, gas purification processes, distillation and cracking processes, amine washers, off-shore filter stations, oil drilling and injection fluids.

Pharmaceutical Recovery of expensive active ingredients, catalyst recovery, active carbon purification and removal, filtration of gelatin, hormones, vitamin extracts, polishing of herbal mixtures, protein removal from plasma, filtration of saline solutions

Resins, plastics, inks and coatings Oil and polymer filtration, dispersions, polymerization batches, resins for can coatings, plastics compounding, printing ink, plastics processing, paper coatings, high-purity ink-jet fluid filtration.

Water treatment Well water filtration, water treatment plants, silt removal, pipe scale removal, sand and algae removal from sea water, ion exchange resin recovery, calcium deposit removal, filtration of chemicals used for water treatment, dust removal from cooling tower installations.

Contaminant Spectrum

Factors to consider when selecting a filter bag range

	Contaminant particle size			
	Fine filtration		Coarse filtration	
	1 µm	*10 µm*	*100 µm*	*1,000 µm*
Ranges		• Monofilament filter bags • SNAP-RING filter bags		
		• MAX-LOAD pleated filter bags • HAYFLOW filter elements • DURAGAF filter bags • CLEARGAF filter bags • SENTINEL filter bags		
	• PROGAF filter bags • ACCUGAF filter bags • MAX-LOAD coreless / ABP filter bags • LOFCLEAR filter bags			
Materials		**Monofilament mesh materials** • Accurate, *absolute* retention rating • High precision		
		Precision needle felt materials • MAX-LOAD pleated filter bags • HAYFLOW filter elements • DURAGAF extended-life filter bags • CLEARGAF filter bags • Standard needle felt filter bags		
	Precision melt-blown materials • PROGAF filter bags • ACCUGAF filter bags • LOFCLEAR filter bags • MAX-LOAD coreless filter bags			
Seal rings			**BANDSEAL seal ring** • Simple, effective	
		SNAP-RING seal rings • Versatile, cost-effective • Wide range of material		
	SENTINEL seal rings • "The best in the business" • Pressure activated seal ring • Wide fluid and temperature compatibility			

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