



# Advanced solutions for a variety of filtration applications

Eaton is the leading manufacturer of bag filter housings. Whether it's for a standard application or an extremely demanding one, our creative innovations deliver greater filtration efficiency.

The selection of single bag filter housings ranges from those suitable for exacting, absolute filtration applications to high-quality housings designed especially for cost-sensitive applications, and everything in between. Multi-bag filter housings that accommodate up to 24 individual filter bags allow for flow rates of up to 4,227 GPM and are available in a number of different designs. Manufacturing plants around the world allow for adaptations that can help you meet local specifications.

Eaton offers a full range of filter bags—more than 1,500 choices in all—from economically sewn filter bags for standard applications, to welded, multilayered bags for more demanding applications.

Our complete line of single and multi-bag housings come in everything from stainless steel to engineered plastic, meaning Eaton offers the right solution for any application and budget. Eaton's bag filtration systems help customers around the world meet their need for efficiency, safety, convenience and value.





# **BAG FILTER HOUSINGS**



**ECOLINE** single bag filter housing is a highly costeffective solution for pricesensitive applications. It features a handy V-clamp closure and threaded couplings. Units come standard with filter bag size 01, 02, 03 or 04 and are available in stainless steel.



FLOWLINE & FLOWLINE II single bag filter housings are available in carbon or stainless steel for 01 or 02 filter bag sizes and multiple I/O configurations. Easy open cover has an integral handle, 1/4" vent or gauge ports and "no tools" closures. FLOWLINE II (not pictured here) features a one-piece body design.



POLYLINE single bag filter housing is constructed with glass fiber reinforced polypropylene or PVDF. It features superior corrosion resistance as well as high-pressure and temperature capabilities. The POLYINE has one injection molded body meaning no seams or weak points.



SIDELINE single bag filter housing is a mid-priced, investment-cast filter suitable for most heavy duty industrial applications. Side inlet with evacuation cover prevents spillage of unfiltered liquid, allowing for clean and easy filter bag change-outs.

Available in stainless steel.

ASME coded.



**TOPLINE** single bag filter housing is simply the best—from its high-performance design to its investment-cast components. The top inlet design requires less headroom and directs liquid flow through the cover which improves sealing, reduces product loss and makes filter bag change-outs cleaner. ASME coded.



MAXILINE & PROLINE multi-bag filter housings are for high-volume applications demanding frequent filter bag change-outs. Available in a wide variety of configurations with 4 to 24 filter bags per housing. Options include: various input/output positions and sizes, material choices and closure designs.



**DUOLINE** multi-bag filter housing system is designed with two single bag filter housings fitted together at the inlet and outlet by a butterfly valve or ball valve assembly. Allows for continuous process flow even during filter bag change-outs.



MODULINE multi-bag filter housing system allows for continuous filtration and larger flow rates. This flexible system allows for isolation of each of the bag vessels in a compact and efficient assembly. Its spacesaving design can be readily expanded with additional housing units and extra banks.

# SPECIFICATION CODES

## Ranges EBF: ECOLINE FBF: FLOWLINE SBL: FLOWLINE II PBF: POLYLINE **SBF: SIDELINE** TBF: TOPLINE MBF: MAXILINE Dome MDE: MAXILINE Flat PMBF: PROLINE100 HE VPMBF: PROLINE 100 SE

#### Materials AB: SS 316 (1.4401) AC: SS 316 Ti (1.4571) AD: 1.4408 + 1.4571 AE: 1.4408 + 316 L AF: 1.4408 AS: SS 316L (1.4404) BB: SS 304 (1.4301) BS: SS 304L (1.4306) CS: Carbon steel HB: HASTELLOY® C276 HC: HASTELLOY C22 HD: HASTELLOY C4 PF: PVDF PO: Polypropylene PV: PVC **UR: Uranus** TI: Titanium

#### sizes For A, N, R: 005: 1/2" 010: 1" 012: 11/4" 015: 11/2" 020: 2" up to 140: 14" For B, D, T, I, W, J, S: 025: DN 25 050: DN 50 080: DN 80 100: DN 100 125: DN 125 150: DN 150 200: DN 200 250: DN 250 350: DN 350

Connection

### Code stamps M: UM Stamp U: U Stamp X: CE Stamp

#### Closure styles

B: Eye-bolts/ringnuts C: Stud-bolts/ringnuts D: Stud-bolts/hexnuts E: Speed bar knobs

G: Segment clamp H: Swingbolts/hexnuts

R: Ratchet closure S: QIC-LOCK

V: V-clamp

#### Lid lift style

A: Davit hydraulic

C: Counter balance

D: Davit manual

E: Spring assist

H: Hvdraulic

0: Manual

P: Gas spring S: David spring assist

#### **Specials**

F: Full heating jacket H: Heating jacket N: Without jacket T: Total heating jacket

#### **MBF** AS 04 10 040 11

#### **Options** D: DUOLINE

M: MODULINE

#### **Options** T: T-bolt V: QIC-LOCK

Number of filter bags 1, 2, 4, 8, 12, 16, 20, 24

bag sizes 01: Ø 7 x 17" L (180 x 430 mm) 02: Ø 7 x 32" L (180 x 810 mm) 03: Ø 4 x 9" L (100 x 230 mm) 04: Ø 4 x 15" L (100 x 380 mm)

**Filter** 

#### **Pressure** ratings

06: 90 psi (6 bar) 07: 100 psi (7 bar) 09: 135 psi (9 bar) 10: 150 psi (10 bar) 16: 225 psi (16 bar) 21: 300 psi (21 bar)

#### Connection types

A: ANSI flange N: NPT female thread

R: Tri-clamp B: BSP female

C: BSP male D: DIN flange

T: Tri-clamp (DN) I: Milk pipe thread W: Butt-weld

J: JIS flange S: SMS U: Macon L: RJT

M: Other

Special-

outlet T: Tangental

#### Inside finishes

(1st number)

: Stainless steel

0: Pickled

1: Glass bead-blasted

2: Electro-polish standard

3: Food grade polished

4: Pharma grade polish

5: Halar® coated 6: End user spec

7: Anti-stick code

#### **Outside finishes**

(2nd number)

: Carbon steel 0: Brushed/oiled

1: Glass bead-/sand-blasted

2: Primed

3: Paint ES-301

4: Epoxy coated

5: Halar coated

6: End user spec

7: Anti-stick code

Special M: Special

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#### Eaton accessories, consumables and spare parts

The wide range of Eaton filter housing accessories makes it possible to custom design a housing to the exact specifications of your application, no matter how complex or unique it may be. Accessories also can be used to improve application processes or requirements. For example, displacement balloons make filter bag change-outs easier, and LOFNETIC magnetic inserts extend filter bag lifetime in applications where magnetic particles are encountered.





## **QIC-LOCK™** Option **MAXILINE Housings**

The revolutionary QIC-LOCK opening mechanism is the answer to users' demands who work in an environment where productivity and safety are the key priorities. It is safe to use and simple and fast to operate. Standing in place, the operator can rotate the hand wheel and open the cover. There is no requirement to have full movement and access around the housing or use any tools as with conventional bolted closures.



# **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 highpurity 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.

	ECO	INE	WLINE FLOWLINE II POLYLINE SID			LINE TOPLINE MAXILINE			PROLINE DUOLINE MOT			
	ECU	FLO	FLO	601	YLINE SIDELL	10k		MAA	PRI	DU	WO	
								VMBF/VMDE				
Filter bag size	01, 02	01, 02	01, 02	01, 02	01, 02, 03, 04	01, 02	02	02	02	02	02	
Number of filter bags	1	1	1	1	1	1	3 to 24	4 to 12	3 to 8	2	2 to 8	
Coarse filtration > 500 µm												
Medium filtration > 10 μm					-		-					
Fine filtration < 10 µm												
Pre-filtration												
Safety filtration												
High volume												
Batch filtration												
Circuit filtration												
Continuous filtration												
Solvents, paints												
Fats and oils												
Catalyst, activated carbon												
Acids, bases												
Petrochemicals							-					
Water, waste water												
Chemical industry												
Pharmaceuticals												
Metal cleaning												
Automotive												
Electronics												
Food and beverage												
Paint and lacquer												
Water treatment												
Galvanic industry												

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04-2018



