





In September 2005 Eaton Corporation acquired the industrial filtration business of Hayward Industries, Inc. The Hayward filtration business has been integrated into Eaton's Fluid Power Group as the Filtration Division. In addition Eaton Corporation purchased in September 2006 the Ronningen Petter industrial fine filtration business from Dover Resources. Eaton's Filtration Division is a global leader in products that include pipeline strainers, bag filtration systems, gas/liquid separators, automatic filtration systems for industrial and commercial customers worldwide. Primary markets include general industrial, petro-chemical, automotive, pharmaceutical, oil & gas, pulp & paper, food and beverage, power utilities, marine, and water.

BAG FILTRATION SYSTEMS

Eaton's Bag Filter Housings and Filter Bags are used by industries around the world and are manufactured worldwide to global standards. Customers can choose from a complete line of single and multibag filter housings designed to meet the needs of the most demanding applications. The choice of single bag filter housings range from those suitable for exacting absolute filtration applications to high quality housings designed especially for cost sensitive applications... and everything in between. Multi-bag housings that accommodate up to 36 individual filter bags for flow rates of up to 1000 m³/h are available in a number of different designs. Eaton offers a full range of Filter Bags ... more than 1500 choices in all. From economical sewn filter bags for standard applications to welded, multilayered bags for demanding applications.

CARTRIDGE FILTRATION SYSTEMS

Eaton's broad range of filter cartridges gives customers wide flexibility in choosing filtration solutions. Available are nominal and absolute rated melt blown, string wound, resin bonded and activated carbon cartridges, filter modules, stainless steel and plastic filter housings.

PIPELINE STRAINERS

Eaton's Pipeline Strainers are used by industrial and commercial customers to protect their process piping equipment by removing debris from the liquid that flows through pipelines. Products include automatic self-cleaning strainers as well as manual, duplex, simplex, and Y strainers. Both cast and fabricated type strainers are made in standard configurations to meet the needs of most applications. For unique, complex, or specialized applications, a Pipeline Strainer can be designed and manufactured to meet the exact requirements of the application with no compromises.

GAS/LIQUID SEPARATORS

Eaton's Gas/Liquid Separators protect expensive system components, such as turbines, by removing potentially damaging moisture and particulate matter from air, gas, and steam lines.

AUTOMATIC FILTER SYSTEMS

The wide Ronningen-Petter range consists of automatic self-cleaning filtration systems. Solutions can be offered from internal or external backwashing systems for the filtration of water and aqueous media to mechanically cleaned filters systems for high viscous liquids. The filters are always sized to the customer's individual applications and needs.

COMMITMENT TO GLOBAL MARKETS

Eaton's Bag Filtration Systems, Cartridge Filtration Systems, Pipeline Strainers, and Gas/Liquid Separators have each been developed into a global product line which is manufactured worldwide in multiple locations to a common design standard yet in compliance with local code requirements. This lets Eaton customers worldwide choose the pipeline strainer, bag filter, or gas/liquid separator that meets their exact requirements without compromise. Local sales and technical support specialists are always available to review the needs of an application with the customer and recommend specific solutions.

EATON CORPORATION

Eaton is a diversified industrial manufacturer with sales of \$ 13 billion in 2007. Eaton is a global leader in electrical systems and components for power quality, distribution, and control; fluid power systems and services for industrial, mobile, and aircraft equipment; intelligent truck drivetrain systems for safety and fuel economy; and automotive engine air management systems, powertrain solutions, and specialty controls for performance, fuel economy, and safety. Eaton has 81,000 employees and sells products to customers in more than 150 countries. For more information, visit www.filtration.eaton.com.

QUALIFICATIONS

This brochure details what is now regarded as the most comprehensive, innovative range of Filter Housings and Accessories available on the market. Over recent years Eaton has introduced new concepts to Filter Housing design encompassing the revolutionary QIC-LOCK[®] quick opening cover-lid mechanism (see page 8/9) greatly reducing change-out times and a tangential outlet which lowers housing height making it easier to access the filter bags.

Probably Eaton's greatest achievement is the development and implementation of a single global product line manufactured worldwide in multiple locations to a common design whilst complying with local code requirements:

CERTIFICATE

Quality Assurance System for Pressure Equipment Manufacturers according to Directive 97/23/EC

Certificate No.: 04 202 2 410 05 00012

FACIN

TONNOR In Europe, Asia-Pacific and South America Eaton is fully qualified to provide pressure housings of Category I-IV under the Pressure Equipment Directive (PED) (97/23/EC) which came into effect May 29, 2002. Eaton manufactures housings to Design Code AD 2000-Merkblätter, the Notified body is TÜV Nord, Conformity Assessment up to Module H1 and G.

Eaton Filtration GmbH Auf der Heide 2 Auf der Heide 2 Nottersheim 53 947 Nettersheim provide the same range of housings Germany

Name and address of manufacturer :

It is hereby certified, that the manufacturer had introduced and applies a quality according to ASME. It is hereby certified, that the manufacturer had introduced and applies a quality **decuriding** system according to Directive 97/23/EC. The manufacturer is authorized to affix the following mark to those items of equipment he has manufactured within the scope of this OA evidem. In every location, Eaton Sales and Technical Support QA system specialists can review the needs of an installation and recommend CE 0044 QA System (Module the right combination of hazard category and housing design to 20 69 09 09 10 dated 12 Audited according to Directive 97/23/EC Bag-, Cartridge- and meet any need. Audit Report No. : filterhousings Scope TÜV CERT Certification Body for Pressure Equipment of RWTÜV Systems GmbH The certificate is valid until 27.10.2008 di











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Multi-Bag housing Open and Close cycles in less than 30 seconds!

QIC-LOCK[®] MAXILINE™ VMDE

The user friendly, perfect sealing bag filter housing for safe filtration and minimized product loss. Ideal for long term process runs, which demand the highest quality of filtration.





QIC-LOCK[®] MAXILINE[™] VMBF

The user friendly, cost effective bag filter housing for high volume applications and processes demanding frequent bag change-out. Ideal for batch process runs and safety filtration.

MAXILINE™ MDE

The user friendly, perfect sealing bag filter housing for safe filtration and minimized product loss. Ideal for batch processes which demand the highest quality of filtration.





MAXILINE[™] MBF

The user friendly, cost effective bag filter housing for high volume, multiple applications and processes.

Sanitary Housings



Design considerations for sanitary housings; surface finish, cleaning featuring "Seen to be Clean", special connections and materials.



Custom Designed Housings

Eaton bag filter housings are designed to accommodate a wide range of possible standard modifications.

TOPLINE™ Filter Housings



The best filter housing for the most demanding applications.

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Product Co	de	s												
D	-	V	MBF	-	04	02	-	AC		10	-	050		D
D-DUOLINE M-MODULINE		V-QIC-LOCK-Q T-T-Bolt closure	 MDE-MAXILINE MBF-MAXILINE TBF-TOPLINE SBF-SIDELINE PBF-POLYLINE FBF-FLOWLINE EBF-ECOLINE	E	No. of bags 01, 02, 04, 08, 12, 16, 20, 24	Bag Size 01-short 7" 02-long 7" 03-short 4" 04-long 4"		Material AC- SS 316 AS-min. SS 316 AD-min. SS 316 PO-PPL Polypre PF-PVDF	6 6/CF8M	Pressure rating 06-6 bar 07-7 bar 09-9 bar 10-10 bar 16-16 bar	J	Connection Size 040-DN 40 050-DN 50 080-DN 80 100-DN 100 150-DN 150 250-DN 250	Э	Connection Type B-BSP female D-DIN flange
5												300-DN 300 350-DN 350		

APPLICATIONS

	FCOLIN	FLOWLI	SIDELIN	TOPLINE	4		MATHINE	/	POLYLI	SANTAS SANTAS	DUOLIN'	E MODULINE
	400	<** ⁰	SIDT	10 ^t		•	MA		20×	SALIOUS	2. DAG	NODE
					MBF	VMBF	MDE	VMDE		ì		4
Coarse filtration >500 µm												
Medium filtration >10 µm												
Fine filtration <10 µm												
Pre-filtration												
Safety filtration												
High volume												
Batch filtration												
Circuit filtration												
Continous 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 Laquer												
Water Treatment												
Galvanic Industry												



Automotive



Chemical Industry



Electronics Semiconductor



Food and Beverage



Metal Parts Washing



Petrochemicals







Pharmaceuticals



Resins, Polymers Inks, Dispersions



Water Treatment



Galvanic Industry



Environmental





17 SIDELINE™ Filter Housings

Mid-priced filter housings for most applications.

DUOLINE[™] / MODULINE[™] / TOPLINE[™] Dual Filter Housings



Discover the flexibility of using multiple housings together as part of a system.



19 POLYLINE™ Filter Housings

All-plastic, rugged Polypropylene or PVDF construction for superior corrosion resistance.

FLOWLINE™ Filter Housings



Versatile, heavy-duty but cost-effective filter housings.



Accessories for Filter Housings



Original Eaton Accessories, Consumables and Spare Parts for safety and reliability.



Filter Bags / Pipeline Strainers

Overview of the entire Eaton filter bag range and Strainer range.

Cartridges / Cartridge Housings

Overview of the entire Eaton Cartridge element range and Cartridge housing range.



QIC-LOCK[®] CONCEPT User friendly Economical

Fast · Simple · Efficient · Economical · Safe · User friendly · Durable Low Maintenance · Cost effective · Approved design · High Productivity

Slogans that reflect bag filter user expectations in the modern day Production environment.

MULTI-BAG/MAXILINE[™] HOUSING OPEN CLOSE CYCLES IN LESS THAN 30 SECONDS!

The revolutionary QIC-LOCK[®] opening mechanism answers all the demands of Bag Filtration users working in an environment where productivity and safety are the key priorities. Years of field-based experience on earlier designs such as the V-clamp "toggle" closure followed by the "ratchet" system have all proven the requirement and benefits for rapid opening mechanisms.

- QIC-LOCK is safe to use, an interlock prevents opening until the housing is entirely vented.
- QIC-LOCK is simple and fast to operate, standing in 1 position, the operator can rotate the hand-wheel and open the lid, there is no requirement to have full movement and access around the housing or the use of any tools as with conventional bolted closures.
- QIC-LOCK is also a rugged design, precision machining assures long-life and repeatable operation, SS 316 and special coating protects the spindle surface from wear and corrosion.
 The design is approved for all pressure housing design codes.

QIC-LOCK doesn't just make life easier for operators; there are significant economical benefits to be realised with greatly reduced down times and lower maintenance costs.

Safe



Filter element change necessary, opening the safety interlock ensures simultaneous pressure relief





Rotation of the spindle using a hand-wheel opens the V-clamp into the end position



Opening the lid aided by spring assisted mechanism

AND

icient

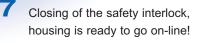


Filter element change

5 Closing of the lid







Closing of the V-clamp by rotation of the spindle

6

Fast

MAXILINE[™] VMDE



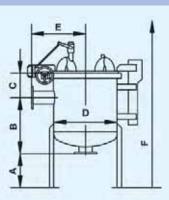
QIC-LOCK[®] MAXILINE[™] VMDE

The user friendly, perfect sealing bag filter housing for safe filtration and minimized product loss. Ideal for batch processes which demand the highest quality of filtration.

- QIC-LOCK rapid opening mechanism ensures simple, operator friendly and safe operation with minimal downtime to increase productivity and decrease running costs.
- Flat-lid design removes the requirement for additional sealing devices. In conjunction with Eaton SENTINEL[®] filter bags, efficiencies of >99.98% can be achieved – true absolute filtration. Under pressure, the unique pressure activated lip of each SENTINEL ring seals directly against the lid providing perfect, bypass-free sealing.
- The flat-lid construction also minimises the amount of residual product left on the inner surface of the lid when opening. This reduces product loss, possibility of spillage and makes cleaning easier.
- Direct feeding of filter bags via individual inlets generates a laminar flow, this ensures optimal cake formation to further improve performance.
- A counter-balanced spring assisted lid-lifting mechanism balances the lid perfectly giving it a weightless feel. Opening and closing of the lid with the "little finger" is a reality.
- Side inlet and bottom outlet provides easy and full drainage, tangential outlet option available to reduce housing height.
- Product wetted parts made from stabilized stainless steel guarantee high corrosion resistance with many fluids.
- 2 standard 4 bag housing designs available (size 01 and 02).



These value added features:



Eaton QIC-LOCK spindle quick closure

Simple, safe and effective bag sealing via flat-lid design

Fluid distribution via individual inlets per bag

Give these benefits

Operator friendly, simple, fast bag change-out. Ideal for processes requiring frequent bag changes e.g. Batch processes

Likelihood of faulty batches resulting from poor bag sealing or cross contamination are eliminated, easier cleaning and maintenance Laminar flow optimises cake formation

* Note: Image does not show the standard version.

MAXILINETM VMBF

QIC-LOCK[®] MAXILINE[™] VMBF

The user friendly, cost effective bag filter housing for high volume applications and processes demanding frequent bag change-out. Ideal for batch process runs and high dirt load applications.

- QIC-LOCK rapid opening mechanism ensures simple, operator friendly and safe operation with minimal downtime to increase productivity and decrease running costs.
- Unique 3-point hold down or bayonet fittings ensure high quality of seal between each filter bag and housing body. Special tool (supplied) ensures simple effective operation.
- A counter-balanced spring assisted lid-lifting mechanism balances the lid perfectly giving it a weightless feel. Opening and closing of the lid with the "little finger" is a reality.
- Positive O-ring sealing offers easy and safe operation.
- Side inlet and bottom outlet provides easy and full drainage, tangential outlet option available to reduce housing height.
- Product wetted parts made from stabilized stainless steel guarantee high corrosion resistance with many fluids.
- Housing volume is optimized to minimize product loss.
- 6 standard sizes with 4 through to 24 bag housings available (size 01 and 02).





These value added features:

Eaton QIC-LOCK spindle quick closure

Simple, safe and effective bag sealing via 3-point hold down or bayonet fittings

In-house fluid distribution

Proven bag filter design

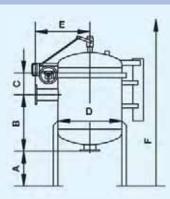
Give these benefits

Operator friendly, simple, fast bag change-out. Ideal for processes requiring frequent bag changes e.g. Batch processes

Easy installation and positioning of bags, excellent sealing characteristics

Minimized pressure loss, easy to clean

General filter design is easily adapted to other processes and applications



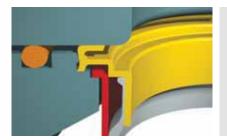
MAXILINE[™] MDE



MAXILINE[™] MDE

The user friendly, perfect sealing bag filter housing for safe filtration and minimized product loss. Ideal for long term process runs, which demand the highest quality of filtration.

- Flat-lid design removes the requirement for additional sealing devices. In conjunction with Eaton SENTINEL[®] filter bags, efficiencies of >99.98% can be achieved – true absolute filtration. Under pressure, the unique pressure activated lip of each SENTINEL ring seals directly against the lid providing perfect, by-pass free sealing.
- The flat-lid construction also minimises the amount of residual product left on the inner surface of the lid when opening. This reduces product loss, possibility of spillage and makes cleaning easier.
- Direct feeding of filter bags via individual inlets generates a laminar flow. This ensures optimal cake formation to further improve filtration performance.
- The bag filter housing is designed with a proven swing eye-bolt closure mechanism.
- A counter-balanced spring assisted lid-lifter balances the lid perfectly giving it a weightless feel. Opening and closing of the lid with the "little finger" is a reality.
- Side inlet and bottom outlet provides easy and full drainage, tangential outlet option available to reduce housing height.
- Product wetted parts made from stabilized stainless steel guarantee high corrosion resistance with many fluids.
- 2 standard 4 bag housing designs available (size 01 and 02).





These value added features: Give these

Give these benefits

Standard design with swing eye-bolts a	٦d
spring lid-lifter	

Simple, safe and effective bag sealing via flat-lid design

Fluid distribution via individual inlets per bag

Likelihood of faulty batches resulting from poor

Proven design, robust and reliable, easy to use

bag sealing or cross contamination are eliminated, easier cleaning and maintenance

Laminar flow optimises cake formation

MAXILINE[™] MBF

MAXILINE[™] MBF

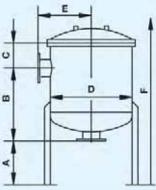
The user friendly, cost effective bag filter housing for high volume, multiple applications and processes.

- The bag filter housing is designed with a proven swing eye-bolt or segment clamp closure mechanism.
- Unique 3-point hold down or bayonet fittings ensure high quality of seal between each filter bag and housing body. Special tool (supplied) ensures simple, effective operation.
- A counter-balanced spring assisted lid-lifter balances the lid perfectly giving it a weightless feel. Opening and closing of the lid with the "little finger" is a reality.
- Positive O-ring sealing offers easy and safe operation.
- Side inlet and bottom outlet provides easy and full drainage, tangential outlet option available to reduce housing height.
- Product wetted parts made from stabilized stainless steel guarantee high corrosion resistance with many fluids.
- Housing volume is optimized to minimize product loss.
- 6 standard sizes with 4 through to 24 bag housings available (size 01 and 02).





These value added features:Give these benefitsStandard design with swing eye-bolts and
spring lid-lifterProven design, robust and reliable, easy to useSimple, safe and effective bag sealing via
3-point hold down or bayonet fittingsEasy installation and positioning of bags,
excellent sealing characteristicsIn-house fluid distributionMinimized pressure loss, easy to cleanProven bag filter designGeneral filter design is easily adapted to other
processes and applications



13

SANITARY

SANITARY HOUSINGS

In the late 1990's Eaton launched a range of new, high performance "Premium" filter bags. Absolute filter elements, e.g. PROGAF[™] with 99.9% efficiency at 1 µm, 95% at 0.15 µm have redefined the suitability of filter bags for applications previously only possible with expensive Cartridges e.g. Membrane protection or Activated Carbon removal.

As a system supplier, we recognise the demands on housing design. Cleaning/sterilisation, corrosive chemicals and system validation/code approval are all major issues in Fine Chemical/Pharmaceutical, Food/Beverage and high purity Water applications.

Surface Finish

Surface finish is critical:

- Ease of cleaning smoother finishes are easier to clean by traditional methods SIP or CIP.
- Risk of bacterial growth smoother finishes offer less surface support for bacteria.

Surface finishes up to Ra 0.4 μ m can be guaranteed.



Ra 0.4 µm Finish

Connections

Connections, flanges and threads are risk areas for bacterial growth. A number of special connections are available for such sanitary applications e.g. Tri-clamps for Fine Chemical/Pharmaceutical, IDF, Milk and RJT couplings for Food/ Beverage.

Cleaning

Design can further minimise bacterial/residual contamination, no under-cuts, edges or dead volumes are allowed. "Seen to be Clean" is a Eaton innovation. Designs allow visual inspection of all internal pipe-work and surfaces, there is no requirement for costly housing removal and bioscope analysis.



Seen to be Clean" Housing

Chemical resistance

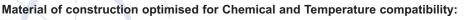
Use of special materials e.g. HASTELLOY or coatings provide chemical resistance as do special O-rings e.g. FEP-Silicon.

CUSTOM

CUSTOM DESIGNED HOUSINGS

Eaton bag filter housing are designed to accommodate a wide range of possible standard modifications





Housing – Carbon steel, Stainless steel in various grades, HASTELLOY, Titanium, Polypropylene and PVDF Coatings – E-CTFE (HALAR), rubber lined, PTFE/FEP, Polyurethane and Epoxy Sealings – A wide range of Gaskets and O-rings are available

alings – A wide range of Gaskets and O-rings are a

Process operating conditions:

Pressure/Temperature – Depending on housing size, up to 100bar/400°C, Heating jackets with 15bar/400°C **Flow rates** – Up to 1000m³/h



QIC-LOCK®



Lid Closure/Lifting mechanisms:

Closure – QIC-LOCK spindle, T-bolt, Swing eye-bolts, Hex-nuts, Stud-bolts, Segment clamps Lifting – Spring, counter-balanced, hydraulic and Davit-arm

Surface Finish/Connections:

Surface – Glass-beaded, Electro-polished, Hand-polished, Acid-pickled, Coated (see above) **Connections** – Standardised flanges and threads (DIN, ANSI, BSP), Sanitary (Tri-clamp, Milk pipe, IDF, RJT and other sterile types)

TUV NORD

MARKET F.T.N MARKET



Approvals and Design Codes: PED (Pressure Equipment Directive 97/23/EC) AD 2000-Merkblätter, EN 13445, Stoomwezen, CODAP, BS5500, ASME VIII Div 1 Notified body: TÜV Nord Modules: Up to module H1 and G SVTI

ASME (American Society of Mechanical Engineers)

U stamp and UM stamp, CRN (Canadian Registration Number)

Skid mounting and mobiles:

Skids – In-house engineering capability to couple multiple housings and or integrated control systems Mobiles – Application specific mobile units



TOPLINE



TOPLINE™ Filter Housings

The best filter housing for the most demanding applications.

- TOPLINE is the finest single bag filter housing available. From its high-performance design to its heavy duty investment-cast components, everything about TOPLINE is simply the best.
- TOPLINE's side inlet, flow through the top design results in a minimum headroom of unfiltered liquid for easy bag change-out, as well as providing optimum sealing of the filter bag.
- For filter bags sizes 01 and 02.
- TOPLINE's type 316 stainless steel construction means superior corrosion resistance and consistent performance, year after year. A smooth, bead-blasted finish, coupled with TOPLINE's minimum 2-weld design, makes it easy to completely clean the interior of the housing.
- All TOPLINE housings come with the exclusive Five Year Warranty from Eaton. A special line of CE stamped housings are also available as standard.
- TOPLINE... for applications too demanding for ordinary bag filters.





These value added features:

Electropolished SS 316 perforated plate basket

Mounting legs to adjust housing height

"Over-the-top" inlet connection with

Cover positively seals filter bag

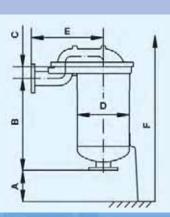
Swing eye-bolt closure

hinged cover

Give these benefits

Makes	bag	change-out	t quick	and	easy

Superior bypass-free sealing Easy and robust opening and closing Perfect bag support, easy to clean Stable and adjustable construction



SIDELINE[™]

SIDELINE™ Filter Housings

Mid-priced filter housings for most applications.

- A SIDELINE housing from Eaton is a solid, investment-cast filter in the medium cost range.
- SIDELINE offers the choice between a standard eye-bolt closure or a quick-opening centerbolt closure (T-bolt) and a choice of DN 50 or DN 80 flanged connections as standard.
- For filter bags sizes 01, 02, 03 and 04.
- SIDELINE's type 316 stainless steel construction means superior corrosion resistance and consistent performance, year after year. A smooth, bead-blasted finish, coupled with SIDELINE's minimum 2-weld design, makes it easy to completely clean the interior of the housing.
- All SIDELINE housings come with the exclusive Five Year Warranty from Eaton. A special line of CE stamped housings are also available as standard.
- SIDELINE... for all heavy duty industrial applications.



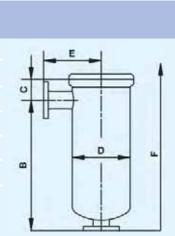


These value added features:

Side–entry inlet with evacuation cover Cover adaptable to different opening directions Integrated handle in cover-lid Bag hold-down ring compressed by cover-lid Swing eye-bolt closure Electropolished SS 316 perforated plate basket Mounting legs to adjust housing height (option)

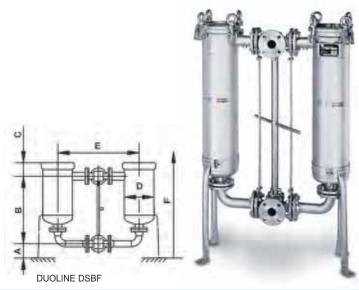
Give these benefits

Eliminates spillage of liquid on opening Perfect accessibility, easy maintenance Ergonomically and easy to open Good 360° sealing of the filter bag Easy and robust opening and closing Perfect bag support, easy to clean Stable and adjustable construction



Filte

DUOLINE[™] / MODULINE[™] / TOPLINE[™]



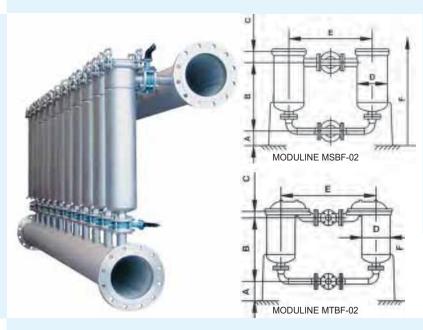
MODULINE[™] Filter Housings Double or modular multibag unit for larger flow rates.

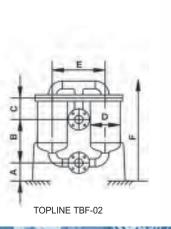
The MODULINE filter housings are multibag units assembled from two or more standard SIDELINE (MSBF) or TOPLINE (MTBF) housings using standard elbows, manifolds or T-Pipe modules. The MODULINE filter concept offers greater flexibility, capacity can be easily increased by adding further modules.

DUOLINE[™] Filter Housings

DUPLEX units for continuous filtration processes.

The DUOLINE bag filter system consists of two bag filter housings (SIDELINE[™] or TOPLINE[™]) fitted together at the inlet and outlet by 3-way cook valve units. Both cook valves are connected together by a center post actuator in order to guarantee a synchronized change from filter A to filter B. A quick turn of the actuator diverts the flow from one filter housing to the other. The filtration process runs continuously during bag change-outs.







TOPLINE™ Dual Filter Housings Compact 2-bag unit with single cover-lid.

The TOPLINE TBF-02 filter housing combines the advantages of the TOPLINE series with a compact 2-bag design. Features a single cover-lid, eye-bolt closure and standard adjustable leg assembly.

POLYLINE[™]

POLYLINE™ Filter Housings

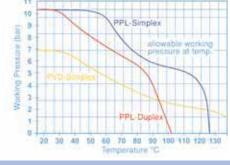
All-plastic, rugged Polypropylene or PVDF construction for superior corrosion resistance.

- POLYLINE filter housings have no metal components to rust or corrode. The glass fiber reinforced polypropylene withstands relatively high pressure/temperature combinations. Available for filter bag sizes 01 and 02. Severely aggressive liquids can be filtered by a PVDF version, size 02 only.
- The cover is hand-removable without the need for any tools and features an all-plastic, built-in vent valve with integral 1/4" gauge tap. The two bottom pipe connections are interchangeable as outlet or drain, allowing easy modification to in-line or loop piping arrangements to accommodate any installation design.
- For applications that require continuous flow, a duplex model is available. Here, the flow never has to shut down for bag change-out.
 For contamination sensitive or severely corrosive filtration applications, POLYLINE is your best choice.









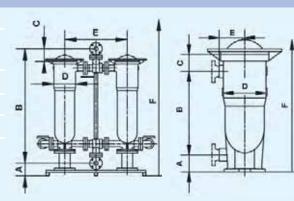
These value added features:

Unique, one-piece molded body
Glass reinforced polypropylene construction

Hand-removable "spin off" cover
Integral installation flange
Double outlet connections
Duplex model with CPVC valves available

Give these benefits

No seams, welds or crevices
High pressure and temperature resistance
Easy to open, no tools needed
Solid floor mounting
One can be used as drain
For continuous flow applications



FLOWLINETM



FLOWLINE™ Filter Housings

Versatile, heavy-duty but cost-effective filter housings.

- A FLOWLINE housing from Eaton is the best choice for industrial, commercial and OEM applications that do not require a code stamp. The standard design is available with threaded or flanged connections.
- FLOWLINE's cost-effective design incorporates all of the features heavy duty applications demand but in a light-weight construction.
- FLOWLINE's special design uses a minimum number of welds for a smooth, easy to clean interior surface.
- For filter bags sizes 01 and 02.
- FLOWLINE's type 304 or 316 stainless steel construction means superior corrosion resistance and consistent performance year after year. A smooth, bead-blasted finish makes it easy to completely clean the interior of the housing.



These value added features: Side-entry inlet with evacuation cover Cover adaptable to different opening directions Integrated handle in cover-lid Bag hold-down ring compressed by cover-lid, PROFILE basket seal design in FPM Swing eye-bolt closure

Electropolished SS 304 or 316 perforated plate basket

Give these benefits

Eliminates spillage of liquid on opening
Perfect accessibility, easy maintenance
Ergonomically and easy to open
Good, 360° sealing of the filter bag

Easy and robust opening and closing Perfect bag support, easy to clean

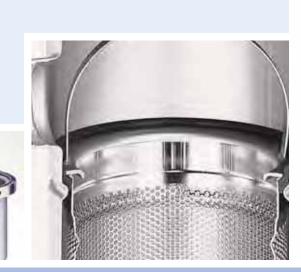
ECOLINETM

ECOLINE™ Filter Housings

Light-weight, economical filter housings.

- An ECOLINE housing from Eaton is the entry model to the range. It is a light-weight design for commercial, OEM, non-hazardous, low pressure applications that do not require a Code Stamp.
- ECOLINE's cost-effective design incorporates a handy V-clamp closure and threaded couplings. The lid is fitted with a 1/4" BSP connection for easy fitting of a vent or gauge.
- For filter bags sizes 01, 02, 03 and 04.
- ECOLINE's type 304 or 316 stainless steel construction offers superior corrosion resistance and consistent performance. A smooth, bead-blasted finish makes it easy to completely clean the interior of the housing.







Side-entry inlet with evacuation cover

Loose, light-weight cover with V-clamp closure

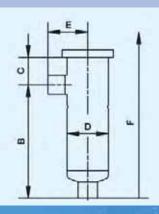
Bag hold-down ring compressed by cover-lid, PROFILE basket seal design in FPM

Electropolished SS 304 or 316 perforated plate basket

Mounting legs or wall mounting brackets (option)

Give these benefits

Eliminates spillage of liquid on opening Easy maintenance Good 360° sealing of the filter bag Perfect bag support, easy to clean Easy to install



ACCESSORIES

FOR FILTER HOUSINGS

Original Eaton Accessories, Consumables and Spare Parts for safety and reliability

The wide range of filter housing Accessories from Eaton makes it possible to custom design a housing to the exact requirements of your application, no matter how complex or unique it may be.

Accessories can be used to improve processes as well as the application requirement itself. For example, displacement balloons make bag change-out easier, LOFNETIC magnetic inserts extend filter bag life in applications where magnetic particles are encountered.

Original Eaton "added value" Accessories are guaranteed to work with your filter housings as part of the system to deliver the highest performance and reliability.

01 Restrainer Baskets

Heavy duty, electro-polished SS 316 perforated plate baskets (included with housing) allows use of filter bags and HAYFLOW[™] elements up to differential pressures of 3.5 bar. Available in all standard sizes, fitting all Eaton bag filter housings. Specially designed restrainer baskets, including special of construction such as HASTELLOY or E-CTFE (HALAR) coated, are available. Standard baskets can be used in combination with adaptor rings for retrofitting other types of housings.

02 LOFNETIC Magnets

Magnets assemblies are a combination of a bag positioner fitted in the center with a magnetic bar(s) inserted into the filter bag during filtration. They extend lifetime by retaining magnetic particles such as chips and fines, preventing deposition onto the filter media. They also retain finer magnetic dust when using bags of coarser micron rating. Eaton magnetic strainers are available in size 01 and 02 using one or two SS 316 covered magnetic bars.



03 Bag Positioner

Highly recommended for all installations, mandatory for some, bag positioners or "bag lock's" ensure correct positioning of the filter bag within the basket and eliminate any "bobbing" up and down movement of the bag caused by uncontrolled back pressure. This avoids any chance of bag bursting. ACCUGAF™, PROGAF™ and LOFCLEAR™ 500 filter bags need to be equipped in all cases with a bag positioner. A special new collar design firmly fixes the element inside the bag during filtration. They are available in sizes 01 and 02.



04 Leg Assembly

Height-adjustable leg assemblies are standard for size 01 and 02 TOPLINE[™] housings and optional for ECOLINE[™], FLOWLINE[™] and SIDELINE[™] housings. Wall mounting brackets are also available.

05 Displacement Balloons

Inserting a displacement balloon inside the filter bag minimizes the amount of residual liquid present in the filter bag and reduces product loss. This eases the changing of the filter bags and eliminates the need for expensive pressureaided draining systems. A special new collar design firmly positions the balloon inside the bag. The SS 316 balloons' maximum DP is 16 bar, they are available in sizes 01 and 02.

06 Manifold Modules

Eaton standard pipe modules are available in SS 316. 90° elbows, flange reductions, flanged "T" sections and flange manifolds can be easily assembled to make DUOLINETM or MODULINETM bag filter versions based on FLOWLINETM, SIDELINETM or TOPLINETM size 01 or 02 housings.

07 Adapter Head for Open filtration

Used in conjunction with SNAP-RING[®] filter bags in gravity feed open systems. Adapter heads are available in SS 316 and polypropylene with a 1.5" BSP connection. For pressures to 1.5 bar.

08 Gaskets and O-ring seals

As standard, Eaton metal filter housings are fitted with NBR O-rings, plastic housings have FPM O-rings. Other material options such as EPDM, FPM, FEP encapsulated FPM or Silicone rubber are available as are flat gaskets. The options offer a variety of chemical and thermal resistances to meet a multitude of uses and applications.

09 Mesh Strainers

Bag filter housings may be fitted with SS 316 mesh lined strainers in place of baskets to convert them to strainer filters. Mesh strainers are available in four standard sizes: 01, 02, 03 and 04, micron ratings are 25, 50, 100, 150, 250, 400, 800 μ m respectively.

10 Miscellaneous

Gauges, Vents, Eye-bolts, Clamp-screws, V-clamps, Centerbolts, Butterfly and Ball Valves are available as accessories or spare parts to fit the various Eaton bag filter housings.

11 Bag Hold-down Rings

The various ECOLINE[™], SIDELINE[™], FLOWLINE[™], POLYLINE[™] and MAXILINE[™] MBF bag filter housings are fitted with different bag hold-down rings (included with housing). They hold the filter bag securely inside the restrainer basket which in turn is positioned correctly within the housing.

FILTER BAGS

PROGAF[™]

A revolution in filter bags. PROGAF combines a high efficiency media with a high capacity pre-filter for effective particulate removal down to submicron level.

ACCUGAF™

Highly efficient filter bags that have an extremely high particle retention efficiency. Applications that require this high filtration efficiency can now take advantage of bag filtration with the ACCUGAF from Eaton.

LOFCLEAR™

High Efficiency filter bags with a special multi-layer, pleated construction that results in a better than nominal efficiency in demanding applications.

HAYFLOW™

The revolutionary new long-life filter element from Eaton.

DURAGAF™

Features increased media thickness with finer fibers for high pore volume. Reduced bag change-outs improve efficiencies and reduce operating costs.

CLEARGAF™

For Food/Beverage and Pharmaceutical applications most Eaton filter bags can be manufactured, packaged and stored to meet EEC and FDA requirements.

SENTINEL®

All-welded construction bags for higher filtration efficiency. Patented pressure reactive ring seal ensures bypass-free sealing.

SNAP-RING®

Sewn construction filter bag for less demanding applications.

BANDSEAL™ Tie-on filter bags for filtration without a housing.

PIPELINE STRAINERS

Protecting your Pumps, Filters, Nozzles, Flowmeters, Valves, Heat Exchangers, Condensers, Oil Burners, and Boilers from pipeline debris. Models available in different materials, for piping as from 1/4" up to 48".

DUPLEX Strainers

Never have to be shut down for cleaning ... the line can run continuously. When one basket becomes dirty, flow is switched to the other. The first basket is removed, cleaned and is ready for use again.

SIMPLEX Strainers

The particulate matter is captured in the strainer basket. The line is then temporarily shut down for cleaning the basket.

AUTOMATIC SELF-CLEANING Strainers

Motorized units designed for the continuous removal of entrained solids from liquids in pipeline systems.

CUSTOM FABRICATED Strainers

Nothing too big - Nothing too small - Nothing too special!

"Y" TYPE Strainers

Compact design.

BASKETS AND ELEMENTS

The heart of every strainer. Available in a wide range of materials, mesh linings or perforations to handle any straining problem.

Center bel

and gosket

805

CARTRIDGES

LOFTOP Melt Blown absolute rated Polypropylene Filter Cartridges

LOFTREX Meltblown Industrial Polypropylene Filter Cartridges

LOFWIND String wound Filter Cartridges

LOFCLEAN Resin Bonded Acrylic fiber Filter Cartridges

LOFSORB Extruded Carbon Cartridges

LOFDISC Cellulose and active Carbon Filter Modules

CARTRIDGE HOUSINGS

TOPCART

A range of single and multiple heavy duty SS 316 cartridge filter housings designed for industrial liquid filtration. Options for DOE, SOE-222 and SOE-226 adaptor configurations.

ECOCART

Lightweight SS 304 single and multiple round housings for DOE cartridges.

POLYCART

Single round plastic cartridges housings, ideal for in-line water filtration systems using DOE cartridges.

POLYLINE

Heavy duty, glass reinforced polypropylene or PVDF housings for 5 pcs 30" DOE or SOE-222 cartridges.

LOFDISC

SS 316 housing for filter modules, available in industrial or sanitary finish.

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