



Product Guide

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- Industrial Cartridge Filters
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- Temporary Strainers
- Suction Strainers
- Discharge Strainers
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- Fabricated Pipeline Strainers
- Non-Metallic Strainers
- Y Strainers
- Internormen Filters

Monarch Asia Pacific Pty Ltd

ABN 68 170 304 574

Postal Address:

P.O. Box 5411, Brendale,
Queensland 4500 - Australia

Office/Warehouse:

Unit 1

11 Kenworth Place
Brendale, QLD 4500

Phone : +61 (0) 7 3889 9949

Fax No: +61 (0) 7 3889 9117

email: sales@monarchindustrial.com.au

www.monarchindustrial.com.au
+61 7 3889 9949

Single Bag Filter Housings for Liquid Filtration

- 316 and 316L Stainless Steel
- 304 Stainless Steel
- Carbon Steel
- Non-Metallic



The Bag Filter System is based on pressurised liquid filtration in which the product to be filtered, is passed through a filter bag from inside to outside, leaving the solids in the filter bag.

The process has a proven record over many decades and provides a simple and reliable method of filtering. The housings are designed to enable a bag change to be completed within minutes, with minimal mess and product loss.

Most housings can be fitted with bags from 1 micron absolute.

Extensive Range of Designs

We offer an extensive choice of vessel designs and Inlet and Outlet configurations, including in-line and loop.

Please contact us to discuss your application and the most suitable design to suit your needs.

Wide choice of construction materials including:

- 316 and 316L Stainless Steel
- Polished Stainless for food applications
- 304 Stainless Steel
- Carbon Steel
- Polypropylene Plastic
- PVC Plastic
- CPVC Plastic
- PVDF Plastic



Filter Bags

We have a full range of Filter Bags available with over 1500 choices in all. From economical sewn filter bags for standard applications to welded, multi-layered bags for demanding applications. Filter Media includes:

- Polyester
- Polypropylene
- Nylon Monofilament



| Filter Bag Sizes - Flow rates are based on using a Nominal rated filter bag. | | | |
|--|-------------------------------|-----------------------------|-----------------|
| Bag Size | Flow Rate (m ³ /h) | Flow Area (m ²) | Dimensions |
| 01 | 20,000 (lt per hour) | 0.24 | 7" dia 17" long |
| 02 | 40,000 (lt per hour) | 0.46 | 7" dia 32" long |
| 03 | 6,000 (lt per hour) | 0.07 | 4" dia 8" long |
| 04 | 12,000 (lt per hour) | 0.14 | 4" dia 14" long |

Multi-Bag Filter Housings for Liquid Filtration

- 316 and 316L Stainless Steel
- 304 Stainless Steel
- Carbon Steel



Customers can choose from a complete line of single and multi-bag filter housings designed to meet the needs of the most demanding applications. The choice of multi-bag filter housings range from those suitable for exacting absolute filtration applications to high quality housings designed especially for cost sensitive applications. Standard units include 3 bag housings up to 24 bags.

Flow rate capability example:

4 bag housing is rated at 160,000 lt per hour @ 1 c.p. nominal rated bag (4 x 40,000 lt per hour)

6 bag housing is rated at 240,000 lt per hour @ 1 c.p. nominal rated bag (6 x 40,000 lt per hour)

Wide choice of construction materials including:

- 316 and 316L Stainless Steel
- Polished Stainless for food applications
- 304 Stainless Steel
- Carbon Steel

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Qic-Lock System

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.
- A counter-balanced spring assisted cover-lifting mechanism balances the cover perfectly giving it a weightless feel. Opening and closing of the cover 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.
- Available in Type 304, 316 & 316L stainless steel for high corrosion resistance.
- Housing volume is optimized to minimize product loss.



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Nominal & High Efficiency Filter Bags for Liquid Filtration

- Polyester
- Polypropylene
- Nylon Monofilament
- FDA Materials



The Bag Filter System is based on pressurised liquid filtration in which the product to be filtered is passed through a filter bag from inside to outside, leaving the solids in the filter bag.

We have a full range of Filter Bags available with over 1500 choices in all. From economical sewn filter bags for standard applications to welded, multi-layered bags for demanding applications.

Wide choice of materials & bag types including:

- Polypropylene
- Polyester
- Nylon Monofilament
- Absolute High Efficiency Filter Bags
- Extended Life Filter Bags
- Oil Adsorption Filter Bags
- Pleated Filter Bags
- Activated Carbon Filter Bags
- FDA Certified Bag Available

Welded Filter bags



When your application requires the highest level of purity and filtration performance, you can count on Monarch's comprehensive line of fully welded bag filters.

Utilising the most advanced technology available anywhere, each filter is guaranteed to fit any industry-standard housing and be free from leakage or bypass.



Standard Sewn Filter Bags

Monarch offers industry-standard sewn filter bags which provide economic performance with broad flexibility of construction. Formed using special stitching techniques, these workhorses can stand up to the widest variety of temperature, pressure and fluid conditions available from any filtration technology.

Sewn constructions make possible the use of materials which cannot be joined by other techniques such as welding, thermal or adhesive bonding to produce elements tailor-made for the full range of separation applications. Needled felt is the most common media and provides nominal filtration in a variety of materials. The downstream surface is thermally bonded to prevent fibre migration into the filtrate. Depth filtration captures contaminants and secures them within the bag for disposal.

Thermally-stabilised meshes offer precise aperture ratings for absolute filtration. The rugged meshes can be washed and reused multiple times for economic operation.



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Standard and Custom Fabricated Strainer Baskets for Liquid

- Replacement baskets
- Temporary Strainers
- Strainer Screens
- Custom Suction Strainers



Standard Strainer Baskets

We offer a wide variety of standard and custom design products to meet your needs.

Our product line includes, Fabricated Strainer Baskets, Temporary Strainers, Suction Strainer and replacement Screens for Y Strainers.



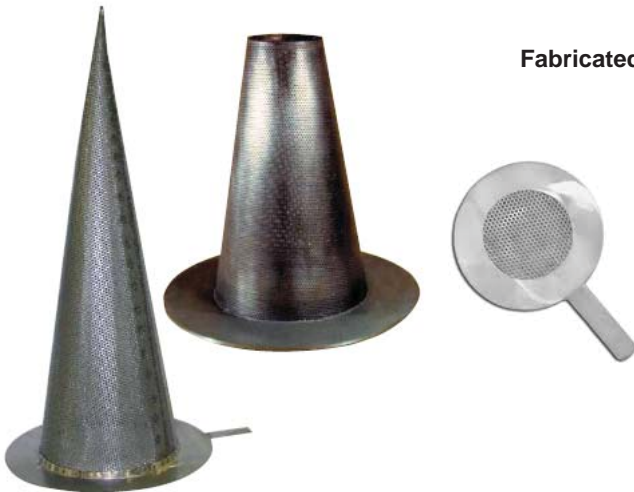
We fabricate Stainless Steel replacement baskets for a variety of strainer brands, including:

- Eaton Strainers
- Hayward Strainers
- Keckley Strainers



Fabricated Temporary Pipeline Strainers

Monarch offers fabricated temporary pipeline strainers in cone, basket, or plate strainers. These temporary pipeline strainers are a cost effective means for temporary straining for start-up applications. Fabricated temporary cone, basket, or plate strainers are designed for initial start-up and not be used as a long term straining solution in place of Y-strainers, basket strainers, tee strainers, or duplex basket strainers.



Fabricated Suction or Pit Strainers

Fabricated from 304 or 316 Stainless Steel and in various perforation/ mesh sizes. Offered in a variety of connections types and sizes 1" to 5".

Please contact us to discuss your application and the most suitable design to suit your needs.



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Simplex & Duplex basket Strainers for Liquid Filtration

- 316 Stainless Steel
- 304 Stainless Steel
- Carbon Steel
- Non-Metallic



Manual Strainers are used by industrial and commercial customers to protect their process piping equipment by removing debris from the liquid that flows through pipe-lines.

Products include duplex basket strainers, simplex basket strainers, Y strainers and Tee type strainers. Monarch offers pipeline basket strainers in sizes from 1/4" to 48".

Wide choice of construction materials including:

- 316 and 316L Stainless Steel
- Polished Stainless for food applications
- 304 Stainless Steel
- Carbon Steel
- Polypropylene Plastic
- PVC Plastic
- CPVC Plastic
- PVDF Plastic



Extensive Range of Designs

We offer an extensive choice of vessel designs and connection types. Please contact us to discuss your application and the most suitable design to suit your needs.



Simplex pipeline strainers remove damage causing particulate matter from the process media, protecting system components such as flow meters, pumps, and spray nozzles. The particulate matter is captured in the strainer basket. The line is then temporarily shut down and the basket removed for cleaning or replacement.

The Model 90 Simplex Strainer is perfect for applications with unique requirements or standard ones where a cast strainer would not fit or be too heavy. If a standard simplex strainer won't work in your application Eaton can help you design a Model 90 Simplex Strainer to your exact specifications....no compromises.



Non-Metallic Basket Strainers and Y Strainers

Hayward offers basket strainers and Y-strainers to remove particulate matter that may clog or damage process fluid pipe lines.

Construction materials includes:

- PVC
- CPVC
- GFPP
- Eastar (Clear)
- PTFE
- PVDF

Single & Multi Cartridge Housings for Liquid Filtration

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Series HD
Code-Designed, Multi Cartridge Housings
for industrial applications

Series FB
Sanitary Cartridge Housings
for industrial applications



Series SE
Single Element Cartridge Housings



Series ECO
Cartridge Housings



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Hydraulic & Lubrication Systems

Fluid power is one of the most reliable and repeatable forms of power and motion control. When problems are encountered, 80% of the time they are related to inadequate contamination control practices.

Filtration & Lubrication Systems

Internormen's Twinfil Filter Systems provide reliability and efficiency to the gearbox and its lubrication system by assisting users in maximizing output, minimizing downtime, and operating costs.



Off-Line Filter Units

Oil service equipment makes off-line filtration easy and helps save on the cost of oil, maintenance and component replacement in your operation. Off-line filtration units include both stationary and mobile versions. Options like heat exchangers, Watersorp elements, and vacuum dehydration systems are also available.

During off-line filtration the filter is in a circuit separated from the main operation stream. By separating the streams, off-line filtration can function as long as it takes for the operating fluid to reach the necessary level of cleanliness, regardless of the system's running time.



Fluid Purifier Systems

Water is one of the most common contaminants and the second most destructive besides particulate contamination. Eaton's Internormen fluid purifier systems are fully automated, compact systems used for the removal of free, emulsified or dissolved water, free or dissolved gases, and particulate contamination.



Coolant & Lubricant Service Unit

Internormen's Mobile Coolant and Lubricant Service Unit, the MKS 601, is a multi-functional system that simplifies the draining of coolant or lubricant from the CNC machine tanks. The system removes contaminants in the emulsion generated by the machining process.



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Hydraulic & Lubrication Filters

Eaton currently offers a selection of more than 4,000 different Internormen filter elements, including corresponding filter housings. They provide customers with a variety of filtration options —from tank-mounted return line filters, to in-line or flange mounted high pressure filters, to manifold side mounted or manifold bottom mounted pressure filters, to air breathers and suction strainers.

Low Pressure Filters

Eaton's low pressure filters are suitable for a working pressure up to 1450 PSI (100 bar). Pressure filters are used to protect downstream components from contamination levels beyond the recommended cleanliness target. In systems using accumulators, pressure filters must be sized according to the large effective flow rates present during parts of the duty cycle.



High Pressure Filters

Eaton's high pressure filters are suitable for a working pressure higher than 1450 PSI (100 bar). Pressure filters are used to protect downstream components from contamination levels beyond the recommended cleanliness target. In systems using accumulators, pressure filters must be sized according to the large effective flow rates present during parts of the duty cycle.



Return Line Filters

Eaton offers return line filters in various designs and for different application possibilities. The housings can be mounted in-line or directly within the reservoir itself (sometimes referred to as an in-tank filter). Ideal for use in mobile applications.

Return line filters may also be equipped with additional breather filters. Secondary ports may also be incorporated to add make-up fluid and ensure that the fluid is transferred through a filter before entering the system.



Suction Filters

Eaton suction filters protect hydraulic pumps and control systems from solid contaminants. They should be used as immersion suction filters on pump inlet lines. These units have various application possibilities: as in-tank filters mounted directly to the reservoir, in the intake lines of hydraulic pumps to afford a degree of protection from contaminants to the pump and other components in the hydraulic system.



Stainless Steel Pressure Filters

Eaton Internormen high-quality stainless steel filters are ideally suited for filtration of highly contaminated liquids, fuels, lubrication oils, solvents, machine tool cooling lubricants, chemical process cleaning fluids, and for filtration of cooling water and seawater



Duplex Pressure Filters

Eaton Internormen duplex pressure filters are known for their high intrinsic stability and excellent filtration capability. These filters operate continuously, when the first filter needs replacement or maintenance, an integrated rotary slide valve switches flow to the opposite side without interruption to flow. This enables a system to work continuously without interruption or shutdown.



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Spin-On Filters

Spin-on filters typically consist of a head, mounted directly in-line with the return piping and a canister containing an element which screws onto a threaded post.



Filter Elements

Eaton's Internormen product line consists of more than 4000 different types of high-quality filter elements with the highest dirt-holding capacities ensuring consistent filter efficiency, even at high pressure differences. Various filter materials, construction types and micron ratings are available guaranteeing a long lifetime of your systems. Filter materials, bonding and processing are regularly controlled and tested in our R&D centers.



Breather Filters

The Eaton Internormen tank breather filters “breathe” air in and out as the oil level rises and falls. The filters prevent the penetration of contamination from the ambient air in the hydraulic fluid. This circulating air contains particles and moisture that can cause corrosion, increase equipment wear, and reduce fluid performance. In typical systems, the internal hydraulic fluid is warmer than the external environment. This difference in temperatures causes water vapor to form. Breathers protect your hydraulic system by filtering out damaging moisture and particles.



Off-Line Filters

Eaton's Internormen Off-Line Filters are partial flow filters for fine filtration of hydraulic and lubrication circuits meant as a supplement to the main filter. Off-line filtration improves the cleanliness and quality of operating fluids and prolongs its durability, thereby preventing early wear and tear of system components.

