European Filter Solutions

Filter solutions for Industry

Hydraulic Filters

European Filter Solutions Ltd offer a comprehensive range of high-quality replacement Hydraulic filter elements, as well as original OEM filter elements.

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European Filter Solutions Ltd (EFS) offer a comprehensive range of high quality replacement Hydraulic filter elements, as well as original OEM filter elements.

We pride ourselves on the quality of our products and the service we provide. All our Filters are produced to the highest standards using high quality materials from industry approved suppliers, the elements which utilise a Micro- Fibreglass media conform to the latest ISO standards and are rated at βx©≥ 1000, with a collapse rating pressure of between 10 and 210 Bar.

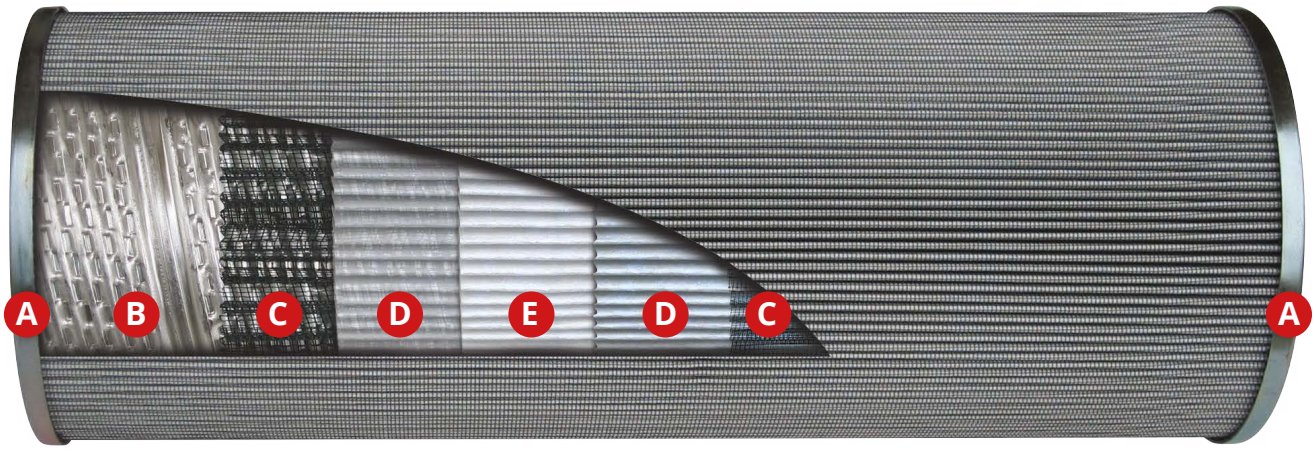
Our goal is to improve the overall efficiency of your machinery and reduce filtration costs for your business by improving longevity.

We supply over 200,000 filter elements, covering all the leading OEMs, including:

- Parker®
- Pall®
- MP Filtri®
- Hydac®
- EPE (Rexroth)®
- Hypro®
- Indufil®
- Mahle®

Filter Replacements

Our range of filter elements meet or exceed the original OEM specification, typically at a lower purchase cost, making them an extremely cost-effective option to consider.



A Plated Steel End Cap

B Louvered Lock Seam Support Core

C Steel Support Wire Mesh
(Epoxy-Coated, used on both Upstream and Downstream Sides of Media Pack)

D Media Support Layer
(Used on both Upstream and Downstream of Media)

E Micro-Fiberglass Filter Media

As well as our range of Micro-Fibreglass media elements, we are also able to offer the following types of filter elements:

- Anti-Static filter elements
- Water Removal elements
- Coalescing Filter elements
- Coreless Filter elements
- Mesh Elements
- Air Breathers
- Spin-on Cans
- Dessicant Breathers

The elements conform to the latest ISO standards, including:

- ISO 2941 – Collapse and burst resistance
- ISO2942 – Fabrication and integrity testing
- ISO2943 – Material compatibility with fluids
- ISO 3723 – Method of end load test
- ISO3724 – Flow fatigue characteristics
- ISO3968 – Pressure drop v flow rate
- ISO16889 – Multi- pass method of evaluating filtration performance

Contact us for a free consultation, aimed at improved system performance, with reduced costs.

Anti-Static Filter Elements

European Filter Solutions have introduced a range of Anti-Static Filter Elements reducing Electrostatic Discharge (ESD) damage in Lubrication and Hydraulic systems. These innovative Anti-Static filter elements are available for both replacement and custom designed applications.

The static discharge filter elements employ an advanced media technology to dissipate triboelectric charges generated via the flow of fluids through filter media. The unique media ensures a very low charge across both the media and fluid over long periods of time to mitigate sparking, which will extend the life of the fluid and filter media. Electrostatic Discharge is a common problem with modern ash free, zinc-free hydraulic and lubrication oils. These highly refined oil formulations do not contain the heavy metals of previous generation oils.

Oil passing through hydraulic or lubrication system filters **can generate static charges leading to high voltage sparks, sometimes in excess of 10,000 Volts**, from filter media to the filters metal support tube.

These voltage sparks can lead to:

- Oil degradation
- Varnish formation, (Varnish in oil has a number of well- known consequences, which includes seized valve spool, overheated solenoids and filter clogging.)
- Component damage
- Potential explosions

Typical Applications:

- Power generation applications,
- Plastic injection moulding machines,
- Pulp and Paper
- Hydraulic and Lubrication systems,
- Mobile Hydraulics
- Offshore

EFS discharge filter elements can be used as direct replacements for most major manufacturers filter element. Additionally, this media technology can be employed in custom - designed filter elements for original equipment manufacturers. **Contact us for a free consultation, aimed at improved system performance, with reduced costs.**

Stainless Steel Hydraulic filter assemblies

Stainless Steel Filter Housings and High Pressure Elements make these the Filter of Choice for Extreme Environments

High pressure filter assemblies from European Filter Solutions have been proven for over 25 years in applications in the extreme environments of the offshore oil/subsea industry. The all stainless steel housing and stainless steel metal felt filter elements or wedge wire filter elements offer clear advantages over other filter assemblies for demanding applications.

Benefits:

- Greater service life than other filter materials
- Easy to clean to restore original performance
- High particle removal efficiency with low flow resistance
- Ability of filter elements to withstand differential pressure of 4,500 PSID (310 bar)
- Exceptionally high surface area filter elements
- All stainless steel construction; standard 304 stainless steel. (316, 17-4PH, Hastelloy® and others are available)
- Four standard sizes
- Up to 20,000 PSI (1378 bar) operating pressures
- Δp and mounting hardware available
- Available with and without internal bypas
- Flow rates up to 120 gpm (454 lpm)
- Temperatures from -10°F to 500°F (-73°C to 260°C) with appropriate seals

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Water Removal Elements

Free water in hydraulic or lubrication systems is a serious contaminant. To selectively absorb water, any EFS element can be co-pleated with water absorbent media.

The water absorbing media reacts with water to physically lock the water to the absorbent material via hydrogen bonding, so that it cannot return to the oil or fuel. By removing water, oil life is extended as well as the life of the equipment.

The composite media helps to protect the system from both particulate βx©≥ 1000 and water contamination. The media absorbs many times its own weight in water with minimal pressure drop.

Help avoid problems such as:

- Bearing fatigue
- Corrosion
- Sticking valves
- Loss in lubricity of the fluid
- Increased electrical conductivity

Typical Applications:

- Fuel
- Insulating oil
- Hydraulic oil
- Synthetic oil
- Gearboxes
- Storage Vessels
- Turbine Lubrication oil

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