

STAUFF



Latest generation of Glass Fibre filter elements

4PRO

Extending the service lifetime of your hydraulic applications by up to 60 %

Higher dirt holding capacity • Improved filtration performance
Extended maintenance intervals • Reduced operating costs

The Complete Program

**Local solutions for
individual customers
worldwide**

Replacement filter elements

With more than 10,000 different types STAUFF manufactures one of the most comprehensive ranges of replacement filter elements for hydraulic and lubrication application which are compatible with most of the common competitor products.

Continuous improvement of the materials used as well as strict quality controls which take into consideration international standards guarantee the consistently high performance data of the filter elements. STAUFF impresses in particular with its:

- innovative research, design and development
- modern production lines with complete monitoring of production
- certified work processes in accordance with ISO 9001:2000 (quality management), DIN EN ISO 14001:2005 (environmental protection) as well as OHSAS 18001:2007 (occupational health and safety)
- comprehensive stocks and quick delivery
- customised products in accordance with customer drawings or on the basis of STAUFF designs
- comprehensive worldwide network of wholly-owned subsidiaries and sales partners

As well as original filter elements for our own filter housings, STAUFF also provides access to a comprehensive range of replacement filter elements. They match the quality and can be installed in the products of for example:

- Argo-Hytos
- Donaldson
- EPE
- Fairey-Arlon
- Hydac
- Internomen
- Mahle
- MP Filtri
- Pall
- Parker

Thanks to their excellent dirt holding capacity, all of the filter products supplied by STAUFF have an impressive long service life and high β -value stability:

- glass fibre, inorganic glass fiber, filter paper, stainless fiber (micron ratings between 3 μm and 20 μm respectively) as well as stainless mesh (micron ratings between 10 μm and 500 μm)
- maximum differential pressure depending on filter media and application for the options 16 bar (232 PSI), 30 bar (435 PSI) or 210 bar (3.000 PSI)

The development and manufacture of STAUFF filter elements are subject to strict testing:

- in accordance with ISO 2941 (collapse and burst resistance test)
- in accordance with ISO 2942 (bubble-point test for production quality)
- in accordance with ISO 2943 (test for material compatibility)
- in accordance with ISO 3723 (test for end load)
- in accordance with ISO 3724 (pulsation test for fatigue)
- in accordance with ISO 3968 (test and compilation of flow rate data)
- in accordance with ISO 16889 (multipass test for filter performance)

STAUFF offers many possibilities for filter conversion, design and calculation and in so doing supports interested parties and customers with the design of efficient solutions:

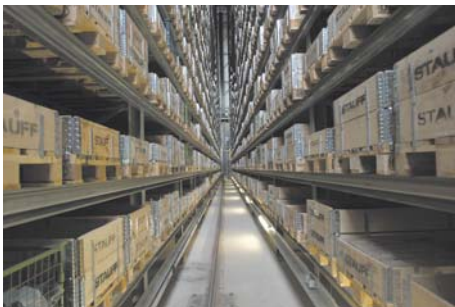
- printed conversion catalogue, available in a five-language version
- online filter search with more than 65,000 data sets under www.filterinterchange.com
- offline filter database with deposited measurements, filter surfaces and drawings
- filter selection software for easy filter design and calculation

High pressure filters

STAUFF high pressure filters were designed for in-line mounting in hydraulic and lubrication systems. In conjunction with original STAUFF filter elements they guarantee high efficiency in the separation of solid particles. STAUFF high pressure filters are available in many different sizes, connections and configurations.

SF version

- Operating pressure: to 420 bar (6,000 PSI)
- Nominal flow rate: to 1,320 l/min (343 US GPM)
- Connections: option of BSP, NPT, SAE thread or SAE flange (ISO 6162-1/2)
- Materials: Filter head in nodular graphite iron; filter bowl in cold-formed steel
- option of standard or two-part top loader version for changing the filter element from top
- also available with by-pass, reverse flow, non-return or multi-function valve
- on request with visual, electrical or visual-electrical differential pressure indicator



Return line filters

STAUFF return line filters were designed as filters for tank-top mounting, tank-inside mounting or inline mounting. As the last link in the hydraulic circuit they hold back particles before these get into the tank. The practical design of STAUFF return line filters enables quick assembly as well as easy exchange of the filter elements.

RTF version

- Operating pressure: to 10 bar (145 PSI)
- Nominal flow rate: to 152 l/min (40 US GPM)
- Connections: option of BSP or NPT; alternative connections on request
- Materials: Filter head in aluminium; filter bowl in PA
- Filter head with option of integrated air filter
- also available with by-pass valve
- on request with visual clogging indicator or electrical clogging switch

RFB version

- Operating pressure: to 10 bar (145 PSI)
- Nominal flow rate: to 185 l/min (52 US GPM)
- Connections: option of BSP, NPT or SAE thread
- Materials: Filter head in aluminium; filter bowl and cover in PA
- Filter bowl with option of thread connection (e.g. for STAUFF diffuser SRV)
- on request with visual clogging indicator or electrical clogging switch

RF/RFI-MC version

- Operating pressure: to 10 bar (145 PSI)
- Nominal flow rate: to 1,500 l/min (396 US GPM)
- Connections: according to size BSP or SAE flange (ISO 6162-1); alternative connections on request
- Materials: Filter head in aluminium; cover in PA, aluminium or steel
- on request with visual clogging indicator or electrical clogging switch

RF version

- Operating pressure: to 16 bar (232 PSI)
- Nominal flow rate: to 500 l/min (130 US GPM)
- Connections: option of BSP, NPT, SAE thread or SAE flange (ISO 6162-1)
- Materials: Filter head in aluminium; filter bowl in PA
- Filter bowl with option of thread connection (e.g. for STAUFF diffuser SRV)
- on request with visual clogging indicator or electrical clogging switch

RFS version

- Operating pressure: to 25 bar (365 PSI)
- Nominal flow rate: to 1,135 l/min (300 US GPM)
- Connections: option of BSP or SAE flange (ISO 6162-1)
- Materials: Filter head and filter bowl in steel
- Filter bowl with option of thread or flange connection
- on request with visual clogging indicator or electrical clogging switch

Inline filters

STAUFF inline filters were designed for stationary installation in hydraulic and lubrication systems. Special editions also allow use in process engineering. The excellent dirt holding capacity ensures a long service life and therefore reduces maintenance.

SRFL-S (simplex) or SRFL-D (duplex) version

- Operating pressure: to 14 bar (200 PSI)
- Nominal flow rate: to 7,000 l/min (1,850 US GPM); upon request also available for larger nominal flow rates
- Connections: ANSI, DIN or SAE flange (ISO 6162-1/2)
- Materials: Filter housing in steel; option in stainless steel
- with option of switch control for maintenance of the system without stoppage
- by request with visual or visual-electrical differential pressure indicator



Medium pressure filters

STAUFF medium pressure filters were designed for inline mounting in hydraulic and lubrication systems. In conjunction with original STAUFF filter elements they guarantee high efficiency in the separation of solid particles. STAUFF medium pressure filters are available in many different sizes, connections and configurations.

SFA version

- Operating pressure: to 160 bar (2,300 PSI)
- Nominal flow rate: to 240 l/min (70 US GPM)
- Connections: option of BSP, NPT, SAE thread or SAE flange (ISO 6162-1)
- Materials: Filter head and filter bowl in aluminium
- also available with by-pass, reverse flow, non-return or multi-function valve
- on request with visual, electrical or visual-electrical differential pressure indicator

SMPF version

- Operating pressure: to 110 bar (1,600 PSI)
- Nominal flow rate: to 90 l/min (25 US GPM)
- Connections: BSP; alternative connections on request
- Materials: Filter head and filter bowl in aluminium
- also available with by-pass valve
- by request with visual or visual-electrical differential pressure indicator

MF-MQ version

- Operating pressure to 280 bar (4,000 PSI)
- Nominal flow rate: to 480 l/min (127 US GPM)
- Connections: BSP; alternative connections on request
- Materials: Filter head in cast iron; filter bowl in steel
- also available with by-pass valve
- by request with visual or visual-electrical differential pressure indicator

Offline and by-pass filters

STAUFF offline and by-pass filters were specifically designed for installation in hydraulic and lubrication systems. The functionality is based on a radial micro filtration system, which achieves excellent results with respect to dirt and water pick-up due to particularly suitable flows in the filter element.

BPS (by-pass) or OLS (offline) version

- Operating pressure to 20 bar (290 PSI)
- Nominal flow rate: to 17 l/min (4.5 US GPM)
- Connections: BSP
- Materials: Filter housing in aluminium
- with option of integrated motor pump unit

Spin-on filters

STAUFF provides a complete range of spin-on filters which can be used either as suction filters or as return line filters in the low pressure area. The various ranges meet European and North American standards. The corresponding STAUFF filter elements are available from stock.

- Operating pressure: to 14 bar (200 PSI)
- Nominal flow rate: to 460 l/min (120 US GPM)
- Connections: BSP; alternative connections on request
- Materials: Filter head in aluminium
- on request with visual clogging indicator or electrical clogging switch

Mobile filter systems

With numerous options the STAUFF mobile filter systems cover a wide spectrum of use. On the one hand compact and versatile, on the other hand designed for long-lasting use and high throughput rates, the mobile filter systems support the preventive maintenance of hydraulic and lubrication systems.





Having developed beyond the product area of filtration technology, STAUFF also develops, manufactures and distributes a comprehensive range of efficient pipework components, test equipment and hydraulic accessories, in detail consisting of:

STAUFF Clamps

- Clamping systems for pipes, hoses, cable and other components with a diameter of up to 800 mm
- customised special clamps (injection moulded or machined) in accordance with customer drawings or on the basis of STAUFF designs



STAUFF Test

- Hydraulic test points, with options suitable for fluid or gaseous products
 - Monitoring, ventilation and sampling without stopping the system
 - Coupling under a system pressure of up to a maximum of 630 bar (9,000 PSI)
- comprehensive accessories (hoses, fittings, adapters and pressure test kits)

Diagtronics

- digital equipment for mobile and stationary monitoring (pressure, differential pressure, flow, rotational speed, temperature) and analysis (contamination) of hydraulic fluids



Hydraulic Accessories

- Components for the construction of hydraulic reservoirs and power units
 - Level gauges for the optical or optical-electric indication of the fluid level
 - Throttle valves, flow control valves and check valves for inline mounting, manifold mounting or direct mounting into hydraulic control blocks
 - Filler breathers, with the option of plastic or metal
 - Giant air breathers and desiccant air breathers
 - Suction strainers and diffusers
 - Pressure gauges, multi-station gauges and gauge isolator valves

Flanges

- complete range in accordance with SAE J 518 C and ISO 6162-1/2
- Standard pressure range for operating pressures to 350 bar (5,000 PSI)
- High pressure range for operating pressures to 400 bar (5,800 PSI)
- variable nominal sizes from DN 13 (1/2") to DN 127 (5")