Filtration Systems: Systematic Fluid Management
Optimum Fluid Management: Cutting Costs with Reliable Filter Technology

Perfect operating fluids at any time are an essential precondition for the full operability of plant and machinery and therefore prevent expensive damage and machine downtimes. Rexroth’s wide portfolio of filters and cleaning systems for hydraulic oil and lubricant applications ensures optimum operating conditions over the entire lifecycle, thus reducing the total cost of ownership.
With the acquisition of K. & H. Eppensteiner, a company with a long tradition, Rexroth expanded the world’s most comprehensive modular hydraulic product program by an established spectrum of highly efficient filter technology. Rexroth develops filtration and cleaning systems for industrial hydraulics, mobile machinery and the process engineering sector. Moreover, Rexroth combines its expertise and application experience acquired over more than 50 years with regard to filtration with the resources of a global player who is represented in more than 80 countries.

From filter elements and complete filters through to off-line filtration systems and dewatering systems for fluids, the range of services includes the ideal solution for almost any application. Innovative sensors and remote diagnostics offer users the possibility of monitoring the quality and, in particular, the cleanliness of media at any time. Condition Monitoring systems signal when critical conditions are reached so that service technicians can schedule the appropriate activities without affecting the production process and without additional standstill time. This increases availability, thus cutting costs. As with all products and solutions, Rexroth consequently complies with international standards. This opens up the technical advantages of Rexroth filter technology for any application, irrespective of the original equipment manufacturer. And the closely meshed worldwide sales and service network always ensures short distances and competence advice.

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Moving, Cooling, Lubricating: Everything under Control

Coarse and fine chips, high temperatures, extreme pressure situations: Plant automation places exacting demands on the cleanliness of the operating fluid in order to meet the increasing requirements for precision and productivity in production also in the future.
The spectrum of operating fluids in plant automation ranges from mineral oil and fire-resistant fluids for hydraulics and lubrication circuits through to watery cooling lubricants in chip-forming production. Only filters and cleaning systems that are exactly tailored to the individual medium and the application at hand can fulfill their task in an optimum manner. False economy at this point involves a high potential of damage. Strongly contaminated operating fluids reduce the efficiency and precision of plant and machinery. They often lead to premature wear and tear of system components.

On the other hand, even small investments into Rexroth filter technology reduce total operating costs significantly for the user. Optimum cleaning prolongs the service life of media drastically and thus also cuts cost of disposal. At the same time, field bus-capable sensors allow operating fluids to be checked online. Via remote access the service department can query the current degree of contamination, the filter service life, leakage flows or water contents at any time. Automated signals warn the user before critical states are reached. This mature Condition Monitoring concept increases the plannability of service intervention while preventing waste through unnecessarily frequent and rigid change intervals.

Via the worldwide sales and service network, specialized Rexroth employees support users at any place in the world in the dimensioning and selection of the appropriate filter technology. Our common objective: Low total cost of ownership thanks to highly efficient filter technology.
Clean under All Circumstances

Arctic temperatures, tropical heat, extreme dirt and dust loads, salty coastal air or continuous rain: Especially mobile machines for operation in agriculture, construction or material handling often require efficient filter technology due to the very harsh ambient conditions.
Hydraulic fluids used in the working hydraulics and hydrostatic travel drives of mobile machinery are often exposed to extreme stress. But especially in mobile applications, high availability is paramount. When comprehensive maintenance work is to be carried out such as the change of hydraulic fluids mobile machines often need to be brought to distant workshops with long downtimes. An imponderable risk, in particular during harvest time or in the case of construction sites with a tight schedule.

Rexroth filters clean reliably also in mobile applications with both, open and closed hydraulic and lubrication circuits. Rexroth utilizes advanced materials and production methods for compact filters. These cover a wide variety of applications and hydraulic systems.

Innovative technology from Rexroth allows continuous monitoring of the fluid quality and the issue of warning messages also for mobile applications. Freely definable thresholds offer customers the required degree of freedom to take account of different operating conditions. This contributes to a longer service life and, at the same time, reduces maintenance costs.
Always on the Safe Side, also for Process Applications

Continuous processes in process engineering place exacting demands on the reliable filtration of the individual fluids. Reliably monitored filtration systems from Rexroth increase the availability of complex plants.
Continuous production is the key to high productivity of steelworks and rolling mills, papermaking plants or turbines for the generation of power. The optimum cleanliness of the multitude of hydraulic and lubrication systems is an essential precondition for the availability of your plant. Highly efficient filtration greatly contributes to an extension of maintenance intervals and consequently to an accelerated return on investment.

In particular plants with high process temperatures often employ special hydraulic fluids. These fire-resistant, synthetic fluids with high thermal stability are demanding with regard to filter technology. Their requirements can only be met by a combination of highly efficient filter materials and reliable filtration systems.

Whichever medium you use: Rexroth can always offer the right filter solution and, on request, the associated systems for condition monitoring.
Oil care systems: Conditioned at high speed

Cleaning and dewatering large amounts of hydraulic oil in one processing step: The VacuClean® concept is ideal for use in systems with tank capacities of several thousands of liters. Depending on the task at hand, the operator can use this system either as stationary or mobile unit.
With a flow rate of up to 80 liters per minute, the VacuClean® oil care system from Rexroth sets standards for fast cleaning and dewatering. The patented system reliably removes water, air and gases as well as solid particles from the hydraulic oil, lubricating oil and other operating fluids in one processing step.

In this process, the VacuClean® system separates water, air and gases from the operating fluids through pressure reduction under vacuum conditions. Moreover, additional integrated system filters remove solid contaminants. The oil care system is suitable in particular for use in larger systems or plants with great tank capacities of several thousands of liters. Depending on the individual task, the user can either integrate this powerful system as stationary unit in the central supply or use the mobile variant to condition the media in various circuits as required.
OPM II: An easy way of keeping an eye on contamination

The contamination level of fluids in hydraulic systems can be easily monitored at low cost with the new OPM II – and at that, digitally recorded with high precision. If the limit values are exceeded, the alarm sounds and you can react quickly.
The new OPM II operates on the light extinction principle. The contamination level and the fluid purity trend in hydraulic systems can be precisely monitored and recorded by this means.

When limit values are exceeded, the alarm enables a fast reaction. Indication of the purity level is in conformity with ISO 4406:99 or SAE AS4059E. The small, space-saving particle monitor can be operated and configured easily via the display. It is also suitable for mineral oils, bio-oils and diesel fuel.
Filter Elements – Long-Term Protection for Hydraulic Systems

A small investment with a big impact: Filter elements that are precisely matched to your application can keep your hydraulic system functioning longer.
Filter Elements

Do you measure the service life of your hydraulic system in decades and strive for the lowest possible life cycle costs? Are you looking for reliable protection against metal swarf, tiny dust particles or condensation formed as a result of significant differences in temperature? Our filter elements purify your hydraulic oil reliable and on a sustained basis, removing particles and water while offering extended change intervals.

Using simulation processes and state of the art particle measuring technologies, we continuously work on optimization of filter media design. The result is longer change intervals, as the filter material ensures the filter area is fully utilized. Moreover, the outstanding differential pressure characteristics with reduced pressure drop help to save energy and reduce operating costs.

Our broad range of filter elements includes products to purify virtually all hydraulic media, lubricants and industrial fluids. As the world’s leading hydraulics specialist, we have gained experience from working with many thousands of hydraulic applications, and we apply this experience to the development of filters and filter elements. Using filter elements from Rexroth, which are precisely adapted to your application, you can increase the service life of the hydraulic medium and reduce maintenance and repair costs for your entire hydraulic system.
Filter transcoding app: Fit4Filter

This will be the quickest you have ever found the spare filter elements you need. With the new Fit4Filter smartphone app, you will find the right spare element for your Bosch Rexroth fluid filter quickly and easily. Irrespective of manufacturer and complete with transcoding and initiation of the purchase order.

The new Fit4Filter app provides a fast and simple search facility for spare elements for your Rexroth fluid filter. Navigation is easy, it has a convenient search function and stores all your contact information and personal settings. The spare element can be quickly identified via the part designation or item number (even an element from another manufacturer).

Further more it is possible to scan QR-Codes of Bosch Rexroth Filters with the implemented QR-Code scanner in the Fit4Filter app. As a result the R-number and Model-code are shown on the display.

In addition you can obtain detailed technical ordering information on the filter element, as well as details of your designated point of contact. Send off the order inquiry by email and it’s all done.

The database is regularly updated and provides you with the latest product information at all times.

1. Open the Fit4Filter App
2. Select QR-Code Scanner
3. Scan the QR-Code on the Filter
Supply and exhaust air ventilation filter BFSK25-125

Space saving, cost saving: The new BFSK filters from Bosch Rexroth.

Despite this, the water absorbing granulate and air filter cartridge can be replaced separately – which saves costs and protects the environment. Their high flow rate, extremely easy operation and service friendliness are also impressive.
The information contained herein is intended to serve purely as a product description. Due to the ongoing development of our products, a statement of a particular aspect or of suitability for a particular purpose cannot be derived from the information provided. This information does not release the user from his responsibility to perform his own assessments and tests. Please note that our products are subject to the natural processes of aging and wear.