



Your project - Together we succeed

Return-suction filter
 Series: E 084

INITIAL SITUATION

The demand for ever more efficient mobile construction machinery is also leading to constantly growing requirements in terms of optimized hydraulic concepts.

ARGO-HYTOS makes use of its decades of experience in the field of mobile hydraulics and is focused on constantly improving customer benefits. These characteristics have been used to establish an innovative filtration concept in mobile devices with hydrostatic drives on the market, which offers technical advantages as well as saving space and costs.

A renowned manufacturer of wheel loaders was looking for a filter solution that would enable optimum utilization of the often limited installation space by replacing two separately positioned filters (pressure filter: feed pressure/closed circuit and return filter: working hydraulics/open circuit) with the use of just one return-suction filter.

SOLUTION

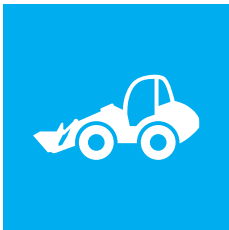
ARGO-HYTOS has developed the perfect solution, the „2 in 1“ return-suction filter, for hydraulic systems with combined open (working hydraulics) and closed (hydrostatic drive) circuits, so that in future only one hydraulic filter will be required for both circuits.

- Tank installation
- Connection up to G1 / -16 SAE
- Nominal flow rate up to 80 l/min / 21.1 gpm
- Latest EXAPOR®MAX 3 filter element generation
- Clogging indicators optionally available

CUSTOMER BENEFITS

- Return-suction filter with 0.5 bar pre-load for supplying the feed pump during operation and for excellent cold start behavior.
- Replacing two filters with one return-suction filter ensures efficient utilization of the often limited installation space.
- The entire volume flow is filtered in the return in both circuits.
- Easy to service, as the flow direction is from the inside to the outside, meaning that the dirt that has already been filtered out is removed from the filter housing together with the element when the element is changed.
- The priming valve with protective strainer ensures that the filling pump is supplied with oil in the event of a temporary oil shortage (e.g. during a cold start).
- No bypass valve to prevent unfiltered oil from entering the circuit. Instead, there is a pressure relief valve to protect shaft seals from overloading.
- Extended service intervals and minimal pressure losses thanks to the use of the new EXAPOR®MAX 3 high-performance filter element

APPLICATIONS



Curious?

Do you have a similar challenge for us?
Get in touch with our experts.



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