

The new generation of filter elements

EXAPOR®MAX 2

Innovation in Filtration



Description

Higher machine availability, longer service intervals and lower operating costs. These were the development goals for the new generation of filter elements.

With the introduction of EXAPOR®MAX 2, ARGO-HYTOS is opening a new chapter in filtration for hydraulic and lubrication systems.

The structure of the specially developed 3-layer filter material was designed for optimum performance, using glass and polyester fibers of different finenesses combined with an improved hybrid support fabric (patented) made of stainless steel and polyester. This sets the standard for:

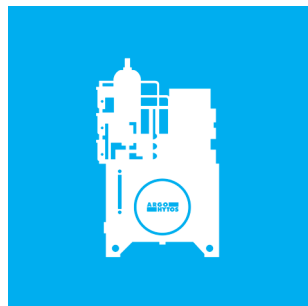
- › Pressure loss
- › Dirt holding capacity
- › Flow fatigue stability

The plastic sleeve used on the EXAPOR®MAX 2 for the first time offers the following benefits:

- › Custom label
- › Protection from damage
- › Improvement of flow fatigue stability

For the user, these improvements bring:

- › Extended service intervals
- › Higher operational reliability
- › Improved oil cleanliness
- › Increased performance
- › Positive element identification
- › Reduced operating and maintenance costs



EXAPOR®
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Extended service intervals

Higher dirt holding capacity and improved flow fatigue stability are of particular importance in achieving extended service intervals.

The new performance-oriented structure of the filter material makes a substantial contribution to improving dirt holding capacity, reducing pressure losses and improving the differential pressure stability. The improved hybrid support fabric (patented) dissipates electrostatic charge completely, gives the best possible flexural strength while reducing pressure losses. The plastic sleeve shrunk onto the filter bellows ensures that it tightly fits the edges of the hole, which has a positive effect on flow fatigue stability. These improvements make a substantial contribution to increasing the life of the filter elements.

Higher operational reliability

When used on existing machinery with fixed service intervals, EXAPOR®MAX 2 filter elements bring greater operational reliability, minimizing the risk of sudden machine downtimes as well as reducing downtime caused by time-consuming and expensive maintenance work.

Improved oil cleanliness

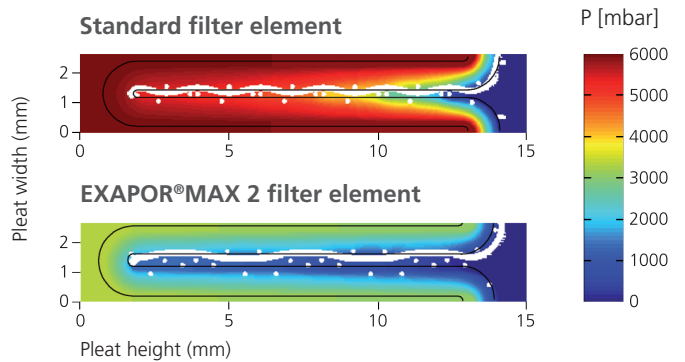
A high degree of oil cleanliness has a positive effect on both the life of components and that of the hydraulic medium itself. To meet rising standards, in the new generation of filter elements the filter fineness has been improved to 10 µm(c) compared with 12 µm(c) previously. The EXAPOR®MAX 2 filter elements are available in filter finenesses of 5 µm(c), 10 µm(c) and 16 µm(c).

Positive identification of elements

The plastic sleeve used on the EXAPOR®MAX 2 filter elements can be printed as required. This substantially improves positive identification and is an important feature for building up and securing a strategic spare part business.

Increased performance

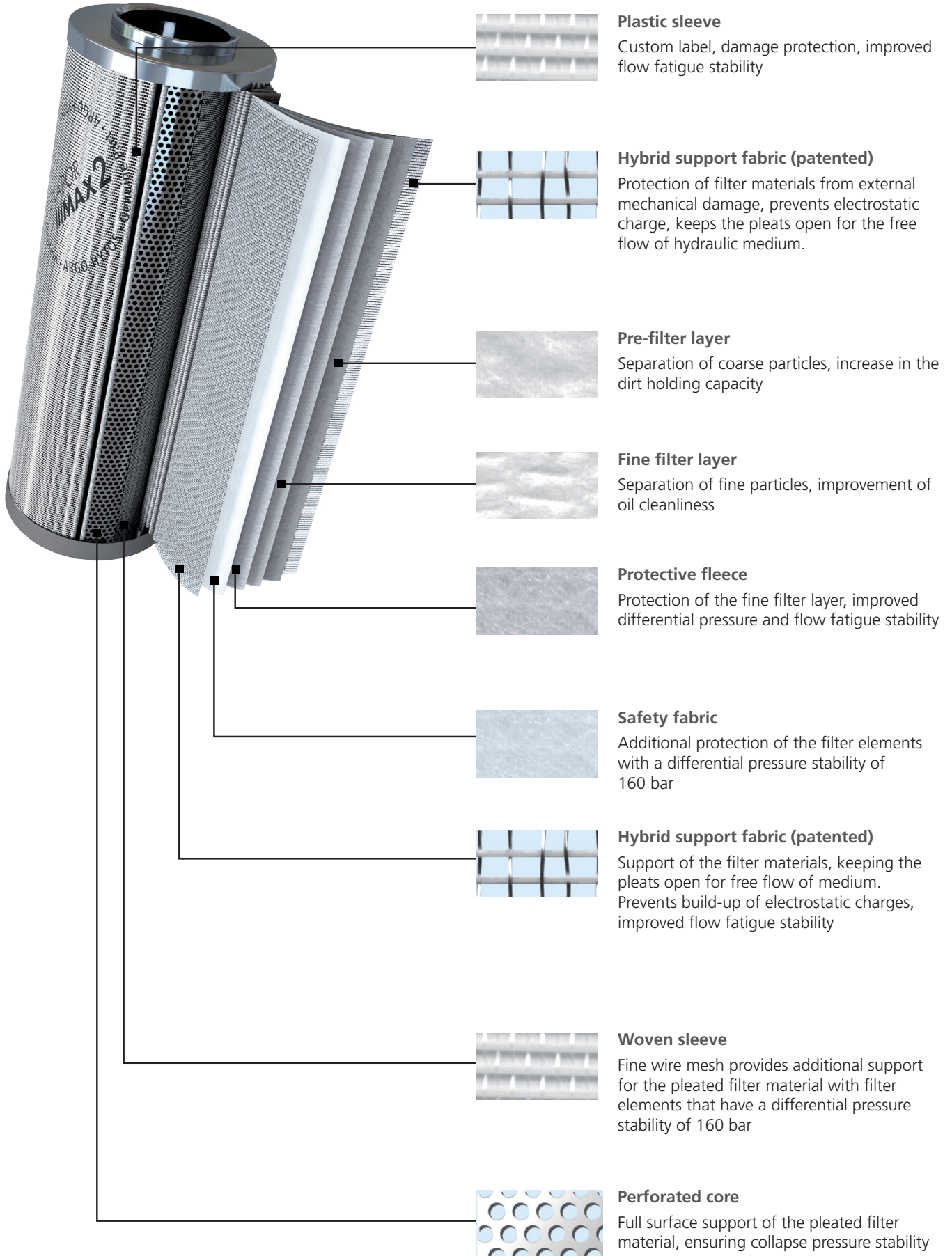
The factors that influence pressure loss could be worked out with the aid of calculations and flow simulations, and the structure of the filter material optimized accordingly. The result is a reduction in pressure losses in the pleat of up to 50 % and up to 40 % in the filter element. Conversely, this means that at a constant pressure loss the EXAPOR®MAX 2 filter elements can achieve a flow rate that is up to 65 % higher. The substantial reduction in pressure losses allied to an improved dirt holding capacity leads to an increase in power density, so that, depending on the application, smaller filters could be used.



Reduced operating and maintenance costs

These innovations work together to reduce operating and maintenance costs and bring about an improvement in the productivity and economy of machinery and plant.





Overview of the improvements in EXAPOR®MAX 2 filter elements

