

Less wear and tear, that's what it's about!



NTF® offers filtration systems based upon radial micro filtration technology, which has proven to be superior in removing high levels of fine contaminates. We have earned a reputation in designing, developing and manufacturing filter systems for a variety of hydraulic applications. Leading car manufacturers use this same filter technology in their advanced automatic transmissions. These benefits can be applied to other hydraulic systems in the market with impressive results.

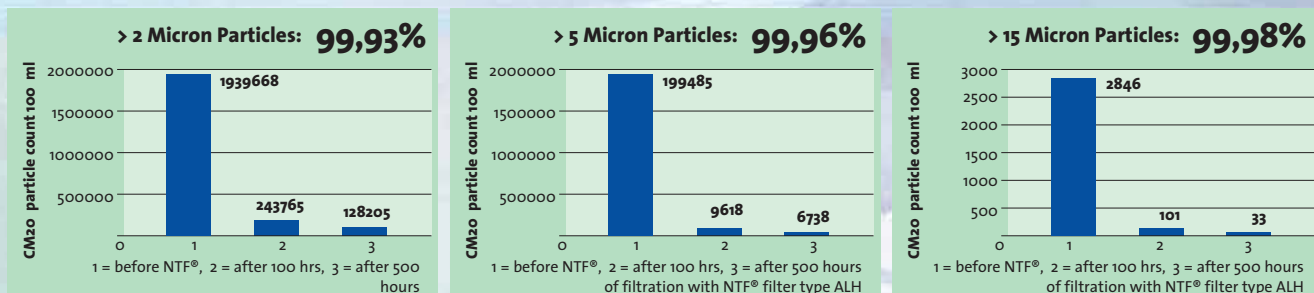
With the new generation ALH filters an external regulator is used thus allowing a maximum operating pressure up to 420 Bar. The new design guarantees a constant flow and pressure in the filter system, regardless of the flow and pressure outside of the filter system. In addition to withstanding higher operating pressures, it also offers a considerable weight reduction. As usual, to prevent internal leakages, the new ALH filters have been equipped with NTF's patented pressure plates. The filter element is protected by a bypass valve (5,5 Bar).

By using the NTF® filter system, solid contamination particles can be reduced up to 99%. Since the oil is kept much cleaner, the number of component failures and break-downs decreases notably. As a result, the operational efficiency of your machines and installations improves. Furthermore, the life time of your expensive equipment will be prolonged, since cleaner oil reduces wear significantly.

In short, by using an NTF® filter system, you will experience significant structural savings on the cost of ownership.

Just ask you colleagues about their positive experiences! Or take a look at the website for test cases and reference letters from users. www.ntf-filter.com

Reduction solid dirt particles in less then 500 hours:



Concrete Advantages of Cleaner Oil:

- Fewer breakdowns
- Less wear and tear
- Longer oil life
- Frequency of servicing can be reduced
- Structural cost savings
- Longer service life of equipment
- Improved performance
- Environmentally friendly



Technical Specifications

Filter Type	ALH-09/420	ALH-19/420	ALH-29/420	ALH-58/420
Filter efficiency	- Beta (β) 4 > 10649 -		- Beta (β) 4 > 10649 -	
Dimensions filter element	Ø 78 x 180 mm		Ø 78 x 300 mm	Ø 78 x 600 mm
Material filter housing	- Anodized Alum. -		- Anodized Alum. -	
Max. operating pressure	420 Bar			
flow control valve	420 Bar	420 Bar	420 Bar	420 Bar
Min. operating pressure	10 Bar			
flow control valve	10 Bar	10 Bar	10 Bar	10 Bar
Maximum temperature	100 °C			
Maximum viscosity	180 cSt			
Indicator	manometer	manometer	manometer	manometer
Connection	- JIC UNF 9/16-18 -		- JIC UNF 9/16-18 -	
Pressure side	10 mm			
I.D. Pressure hose	M12x1,5	M12x1,5	M12x1,5	M12x1,5
Return Connection	12 mm	12 mm	12 mm	12 mm
I.D. Return hose	Buna NBR	Buna NBR	Buna NBR	Buna NBR
Seals	5,5 Bar	5,5 Bar	5,5 Bar	5,5 Bar
Bypass Setting	1,0 ltr/min	1,5 ltr/min	2,1 ltr/min	4,2 ltr/min
Nominal Flow	N.A.	N.A.	N.A.	N.A.
Connections monitor	1,8 kg	2,6 kg	3,7 kg	6,3 kg
Weight	110x145x170	110x145x260	110x145x380	110x145x680
Dimensions in mm	225 liters	450 liters	750 liters	1500 liters
Sump volume in liters				



Superior filtration to improve your performance



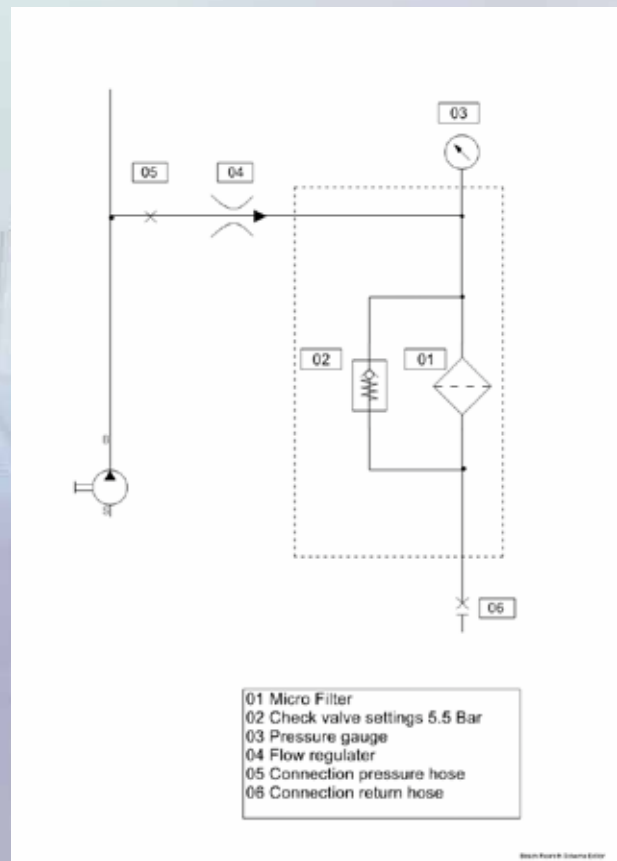
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ALH Hydraulic Scheme

NTF® Radial Micro Filters have proven their value in:

- Excavators
- Aircraft tractors, aircraft loading vehicles
- Wheel loaders
- Mobile cranes
- Forestry, mining, road building and agricultural vehicles/machines
- Offshore applications

Dealer

