

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



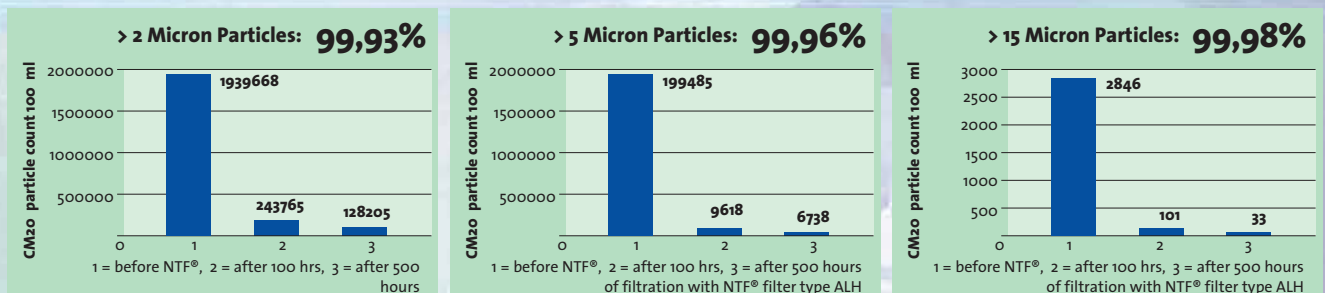
NTF® offers filtration systems based upon radial micro filtration technology, which has proven to be superior in removing high levels of fine contaminants. We have earned a reputation in designing, developing and manufacturing filter systems for a variety of hydraulic applications. Leading car manufacturers 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.

The ALH filter consists of an aluminum manifold with an integrated flow control valve and internal bypass. The flow control valve guarantees a constant flow and pressure in the filter system, independent from the offered system pressure and flow. This protects the filter element against fatal pressure spikes. As usual, to prevent internal leakages, the ALH filters have been equipped with NTF's patented pressure plates.

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.

Reduction solid dirt particles in less then 500 hours:



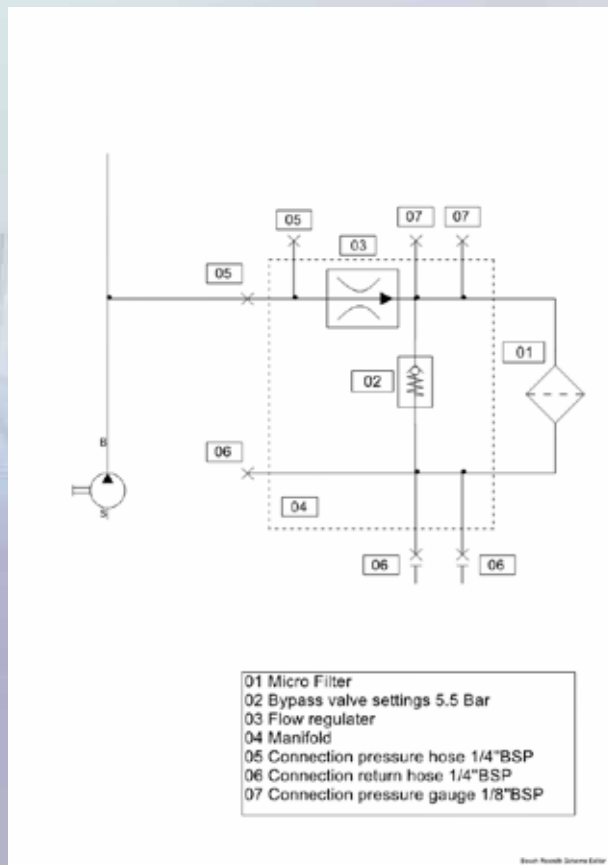
Concrete Advantages of Cleaner Oil:

- 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-09/210	ALH-19/210	ALH-29/210	ALH-58/210
Filter efficiency	- Beta (β) 4 > 10649 -		- Beta (β) 4 > 10649 -	
Dimensions				
filter element	Ø 78 x 90 mm	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	210 Bar	210 Bar	210 Bar	210 Bar
flow control valve				
Min. operating pressure	10 Bar	10 Bar	10 Bar	10 Bar
flow control valve	10 Bar	10 Bar	10 Bar	10 Bar
Maximum temperature	100 °C	100 °C	100 °C	100 °C
Maximum viscosity	180 cSt	180 cSt	180 cSt	180 cSt
Indicator (option)	press. gauge	press. gauge	press. gauge	press. gauge
Connection	1/4 BSP i.d.		1/4 BSP i.d.	
Pressure/ Return				
I.D. Pressure hose	10 mm	10 mm	10 mm	10 mm
I.D. Return hose	12 mm	12 mm	12 mm	12 mm
Seals	Buna NBR	Buna NBR	Buna NBR	Buna NBR
Bypass Setting	5,5 Bar	5,5 Bar	5,5 Bar	5,5 Bar
Nominal Flow	1,0 ltr/min	1,5 ltr/min	2,1 ltr/min	4,2 ltr/min
Connections monitor	1/8 BSP >M16x2	1/8 BSP >M16x2	1/8 BSP >M16x2	1/8 BSP >M16x2
Weight	2,2 kg	3,4 kg	4,6 kg	7,3 kg
Dimensions in mm	180x120x120	260x120x120	380x120x120	780x120x120
Sump volume in liters	225 liters	450 liters	750 liters	1500 liters



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

Superior filtration to improve your performance



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Dealer

