

High pressure up to 420Bar

Prevent malfunctioning valves and extend the life of your valves and pump with bypass micro filtration!



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

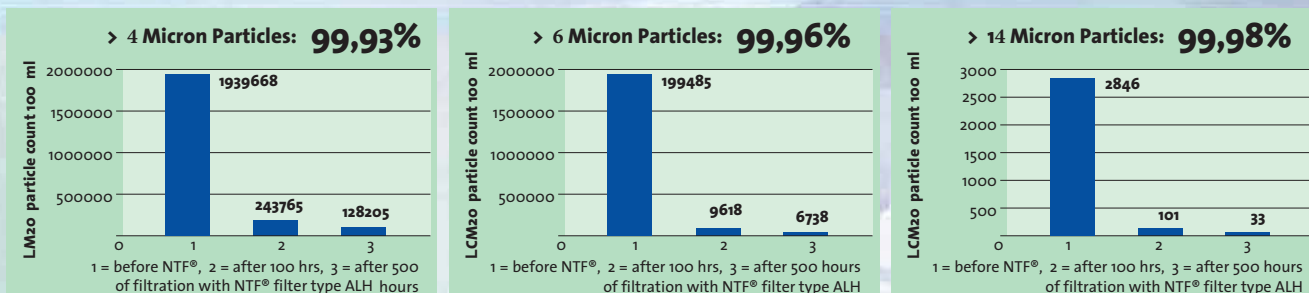
NTF offers bypass filtration systems based upon radial micro filtration technology, which has proven to be superior in removing high levels of smallest contamination down to **1 micron**. We have earned a reputation in designing, developing and manufacturing filter systems for a variety of hydraulic applications. Leading car manufacturers (VW DSG, Ford) 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 system has an external pressure regulator that guarantees a constant flow and pressure in the filter system, regardless of the flow and pressure outside of the filter system. That's why the NTF micro filter can be 10 times more efficient than the standard full flow filter in a hydraulic system, and also allowing a maximum operating pressure up to 420 Bar.

By using the NTF filter system water and solid contamination particles up to 1 micron can be reduced up to 99%. Since the oil is kept much cleaner, the number of valve, pump and other 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 a NTF filter system, you will experience significant structural savings on the cost of ownership.

Reduction solid dirt particles in less than 500 hours:



Concrete Advantages of Cleaner Oil:

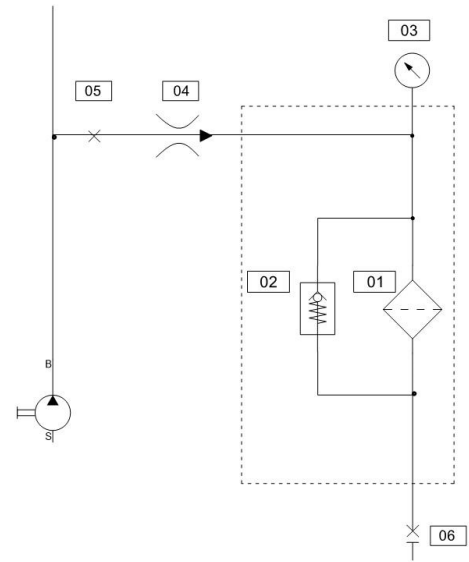
- Fewer breakdowns
- Less wear and tear
- Longer oil life
- Frequency of servicing can be reduced
- Structural cost savings
- Longer service life of equipment
- Improved performance
- Environmentally friendly



www.ntf-filter.com

Technical Specifications

Filter Type	ALH-09/420	ALH-19/420	ALH-29/420	ALH-58/420
Filter efficiency		- Beta (β) 4 > 10649 -		
Dimensions filter element	Ø 78x90 mm	Ø 78 x 180 mm	Ø 78 x 300 mm	Ø 78 x 600 mm
Material filter housing		- Anodized Alum. -		
Max. operating pressure				
flow control valve	420 Bar	420 Bar	420 Bar	420 Bar
Min. operating pressure				
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	manometer	manometer	manometer	manometer
Connection				
Pressure side		- JIC UNF 9/16-18 -		
I.D. Pressure hose	10 mm	10 mm	10 mm	10 mm
Return Connection	M12x1,5	M12x1,5	M12x1,5	M12x1,5
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	N.A.	N.A.	N.A.	N.A.
Weight	1,8 kg	2,6 kg	3,7 kg	6,3 kg
Dimensions in mm	110x145x170	110x145x260	110x145x380	110x145x680
Sump volume in liters	225 liters	450 liters	750 liters	1500 liters



- 01 Micro Filter
- 02 Check valve settings 5.5 Bar
- 03 Pressure gauge
- 04 Flow regulator
- 05 Connection pressure hose
- 06 Connection return hose

ALH Hydraulic Scheme

FOR HYDRAULIC APPLICATIONS | ALH 420 Series



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



www.ntf-filter.com

NTF FILTER B.V.

Kiotoweg 47
3047 BG Rotterdam
The Netherlands
Phone: +31(0)10-3138300
Email: info@ntf-filter.com

NTF Micro Filtration, Inc.

28221 Beck Road, Bldg A-1
Wixom, Michigan 48393
USA
Phone: +1(248)449-8700
Fax: +1(248)449-8706
Email: info@ntf-filter.com

Dealer

Hydraulics Ltd