

# Lower Fuel Consumption, that's what it's about!



It is a known fact that an engine's fuel consumption increases as it ages; this is a result of wear of the fuel system and the engine. This wear reduces the engine's capacity, as a result of which more throttle is required to achieve the same performance. By removing a significant amount of wear particles from the engine oil and fuel, the ageing process is slowed down dramatically. As a result, both the lubrication of the engine and the reaction time in the fuel system remain in optimal condition. This also means optimal fuel consumption is achieved.

### Ultra efficient fuel filter

The introduction of common rail diesel injection systems, with extremely high injection pressures and sensitive components, has led to higher cleanliness requirements of the fuel. Particles in the fuel cause excessive wear, a limited life-time and an increase in injection system failures. The contamination levels of standard fuel increase the need for an effective filter even more.

The ATFD/ALD fuel filters are installed directly in the main circuit, preferably directly after the standard fuel filters. To be assured of optimal filtration, the fuel system needs to be fitted with a proper water separator. The ATFD/ALD fuel filters are equipped with an internal bypass, thereby ensuring an unrestricted flow of fuel through the entire fuel system under all circumstances.



## Concrete Advantages of Cleaner Fuel:

- Fewer breakdowns
- Longer service life of equipment
- Less wear and tear
- Improved performance
- Structural cost savings
- Environmentally friendly



[www.ntf-filter.com](http://www.ntf-filter.com)

## Technical Specifications

Filter type	ATFD-09	ALD-09	ALD-19	ALD-29	ALD-58
Fuel pump flow rate (nom.)	1,5 l/min	6 l/min	8 l/min	10 l/min	12 l/min
Dimensions	Ø 94 x 135 mm	110 x 110 x 144 mm	110 x 110 x 234 mm	110 x 110 x 354 mm	110 x 110 x 654 mm
Weight	0,7 kg	1,5 kg	2,2 kg	3,2 kg	6,4 kg
Volume	0,28 liter	0,62 liter	1,13 liter	1,6 liter	3,2 liter
Connection IN / OUT	M10 x 1	M12 x 1,5	M12 x 1,5	M12 x 1,5	M12 x 1,5
Max. pressure	7 bar	7 bar	7 bar	7 bar	7 bar
Max. temperature	100 °C	100 °C	100 °C	100 °C	100 °C
Bypass setting	no bypass	1,0 bar	1,0 bar	1,0 bar	1,0 bar
Hose diameter	8 mm	10 mm	10 mm	10 mm	10 mm
Filter cartridge	C-09	F-09	F-19	F-29	F-58
Flow direction	radial	radial	radial	radial	radial
Weight	50 g	160 g	300 g	460 g	920 g
Filter surface	150 cm <sup>2</sup>	221 cm <sup>2</sup>	442 cm <sup>2</sup>	735 cm <sup>2</sup>	1470 cm <sup>2</sup>
Filter efficiency	Beta (β) 4 > 10649	Beta (β) 4 > 10649	Beta (β) 4 > 10649	Beta (β) 4 > 10649	Beta (β) 4 > 10649
Dimensions	Ø 51 x 90 mm	Ø 78 x 90 mm	Ø 78 x 180 mm	Ø 78 x 300 mm	Ø 78 x 600 mm
Seals	Buna NBR 70°	Buna NBR 70°	Buna NBR 70°	Buna NBR 70°	Buna NBR 70°
Absorption capacity	30 ml H <sub>2</sub> O	45 ml H <sub>2</sub> O	90 ml H <sub>2</sub> O	142 ml H <sub>2</sub> O	284 ml H <sub>2</sub> O



### Extremely high filter efficiency

The ALD fuel filter system has a filter efficiency of 99,95 % and has proven to provide an excellent filtering performance. Cleaner fuel leads to demonstrably fewer breakdowns and will ultimately reduce the cost of ownership of the total equipment.



Bypass valve ALD series.

### Superior filtration to improve your performance



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Dealer

