

Willibrord Lösing Filterproduktion GmbH

W. Lösing Filterproduktion GmbH • Am Walzwerk 2 • 45527 Hattingen



Technical Datasheet

LKF Coalescence Filter

We reserve the right to make technical changes without prior notice.

Snijder Filtertechniek bv

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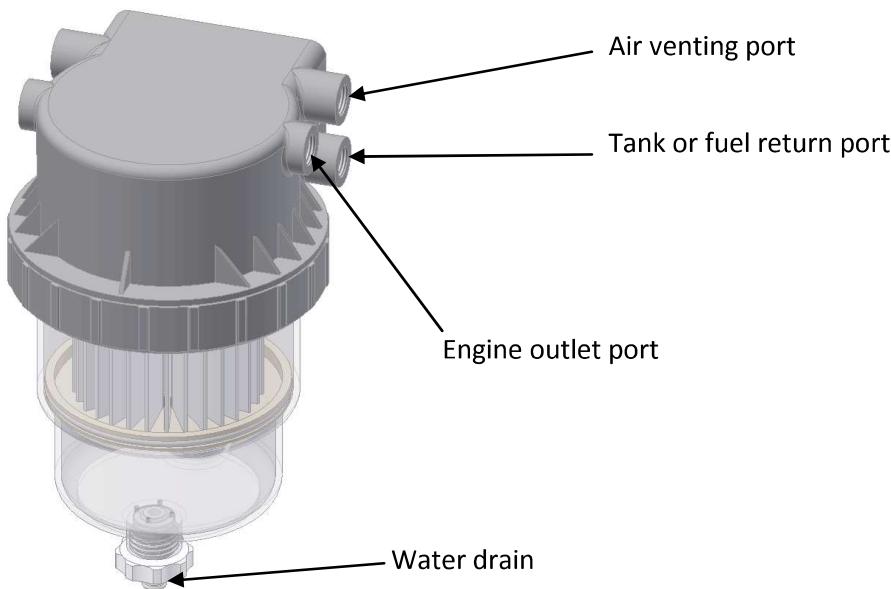


1 Filter functions

All filters of the LKF Series indicate the same function scope.

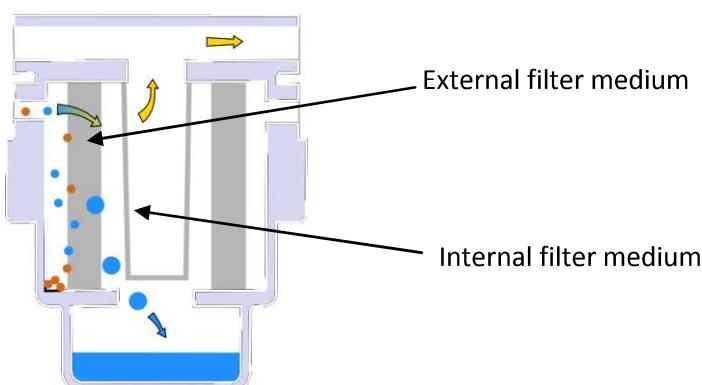
1.1 System connections

The filter has three connections to the left and right in each case. The function of these connections can be seen in the following sketch. The draining off of the separated water is implemented through a special drain plug below on the filter.



1.2 Filtering

The standard filter elements are equipped with two different filter media. With the external filter medium, it involves a special coalescence medium through which the water droplets are enlarged with transition to such an extent that they can be securely separated on the inner, hydrophobic filter medium. The separated water collects in the lower part of the filter bowl (see sketch below).



The fuel circulation quantity in case of modern engines is far higher than the actual fuel consumption of the engine itself. The service life of the filter element can be significantly increased with the

connection of the fuel return-routing to the filter, since the already cleaned fuel is injected again into the circuit and only small quantities of fresh fuel are required from the tank.

1.3 Heating

All filters can be equipped with an external, electrical filter heating. This heating is employed upstream of the filter in the direction of flow. The heating capacity can be up to 600 W.

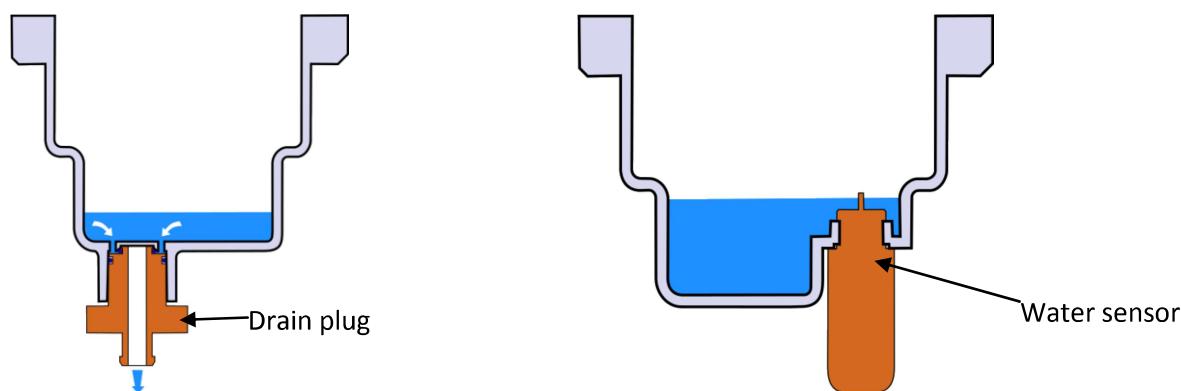
The fuel conveyed back from the engine is usually far warmer than the fuel from the tank. The available heat here, which is significantly above the heat quantity of an external heating, can be used for the heating of the filter. For this purpose, the fuel return flow line is connected to the filter, exactly as described under the point Filtering.

1.4 Air venting

The air dissolved in the fuel can escape at sharp edges and pressure variations result from this. If these air bubbles occur in the filter, they collect at the highest point in the filter. From here, the air can be pumped out during operation through one of the air venting connections. For this, a corresponding pump-off device is necessary.

1.5 Water drainage

The separated water is easily identifiable through the transparent bowl of the filter. Optionally, a water sensor can also be employed for signalling to the vehicle.



The routing away of the separated water can be implemented simply and cleanly through the special drain plug.

1.6 Identification

Every filter is identified unambiguously and thus secure against forgery. The identification is implemented by means of a transponder in the filter top, which can also be read out with soiled or painted-over filter.

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2 Technical data LKF-Industrial

Areas of application	Diesel fuels, separation of water and fuel				
Flowrate	approx. 8 l/min				
Separation process	Water	Coalescence medium + hydrophobic water blocking			
	Solid matter	Mechanical over filter medium and sedimentation upstream of the filter element			
Filter surface area	approx. 17 dm ²				
Filter pore size	10 µm	Insert separately changeable			
	6 µm	Insert separately changeable			
Degree of water separation	> 95%				
Differential pressure on the filter	< 50 mbar				
Dimensions	Width	approx. 150 mm			
	Depth	approx. 150 mm			
	Height	approx. 250 mm			
Necessary installation height	Height	approx. 330 mm	Including space for water drain and filter withdrawal		
Weight	Metal design	< 1.3 kg	Aluminium		
	Plastic design	< 0.8 kg	Glass-fibre-reinforced PA		
Temperature ranges	Operation	-25 °C ... +70 °C			
	Storage	-25 °C ... +70 °C			
Fixing	2 x M8		Optional M8 bolts, internal screw-threads or link plates with 8.5 mm bore.		
Pipe connections	Standard thread	6 x M16 x 1.5			
Fuel heating	Internal	Use of the waste heat from fuel return flow			
	External (optional)	Separate, controlled fuel heater to 600 W			
Water separation capacity	ca. 200 ml				
Water alarm at	ca. 160 ml				
Sensor technology (optional)	Water detection	Separate sensor			
	Filter wear	Separate sensor			
	Temperature monitor	Separate sensor			

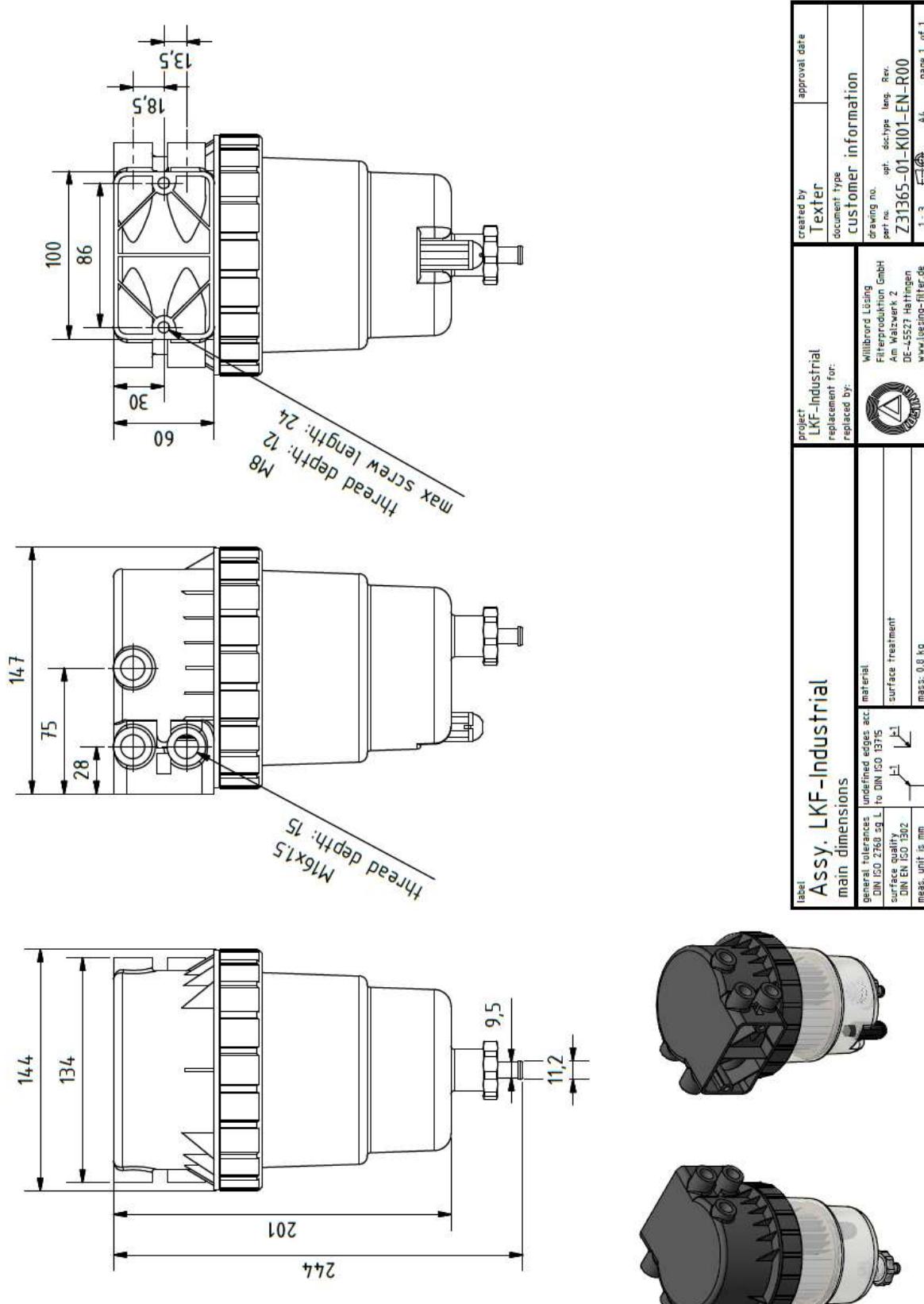
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**SEPAR
FILTER**

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Sketch: LKF-Industrial



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Technical data LKF-Automotive

Areas of application	Diesel fuels, separation of water and fuel				
Flowrate	approx. 3 l/min				
Separation process	Water	Coalescence medium + hydrophobic water blocking			
	Solid matter	Mechanical over filter medium and sedimentation upstream of the filter element			
Filter surface area	approx. 8 dm ²				
Filter pore size	10 µm	Insert separately changeable			
	6 µm	Insert separately changeable			
Degree of water separation	> 95%				
Differential pressure on the filter	< 50 mbar				
Dimensions	Width	approx. 110 mm			
	Depth	approx. 110 mm			
	Height	approx. 170 mm			
Necessary installation height	Height	approx. 240 mm	Including space for water drain and filter withdrawal		
Weight	Metal design	< 1 kg	Aluminium		
	Plastic design	< 0.5 kg	Glass-fibre-reinforced PA		
Temperature ranges	Operation	-25 °C ... +70 °C			
	Storage	-25 °C ... +70 °C			
Fixing		2 x M8	Optional M8 bolts, internal screw-threads or link plates with 8.5 mm bore.		
Pipe connections	Standard thread	6 x M14 x 1.5			
Fuel heating	Internal	Use of the waste heat from fuel return flow			
	External (optional)	Separate, controlled fuel heater to 600 W			
Water separation capacity		ca. 70 ml			
Water alarm at		ca. 60 ml			
Sensor technology (optional)	Water detection	Separate sensor			
	Filter wear	Separate sensor			
	Temperature monitor	Separate sensor			

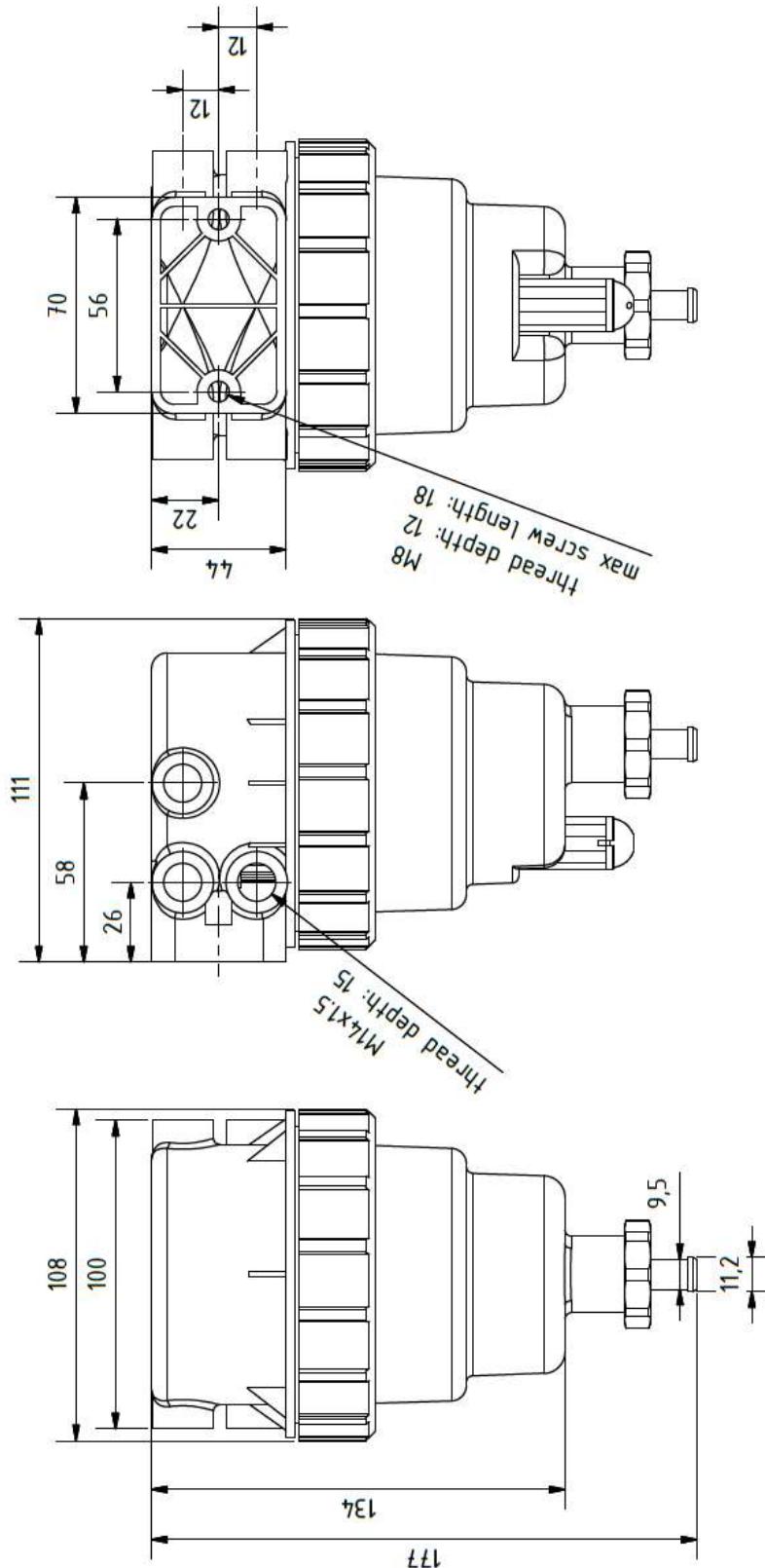
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SEPAR
FILTER

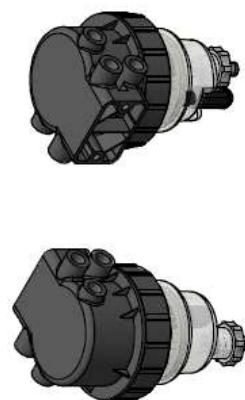
Sketch: LKF-Automotive



customer information	created by Texter	approval date
replaced by:		
Willibrord Lösing Filterproduktion GmbH Am Walzwerk 2 DE-45527 Hattingen www.wloesing-filter.de	Willibrord Lösing Filterproduktion GmbH Am Walzwerk 2 DE-45527 Hattingen www.wloesing-filter.de	
drawing no. part no.	opt. doc-type part no.	long. Rev.
Z31401-01-K01-EN-R01		
1 : 2	A4	page 1 of 1

label Assy. LKF-Automotive
main dimensions

general tolerances DIN ISO 2760:5g surface quality DIN EN ISO 3202 meas. unit is mm	undefined edges acc. to DIN ISO 1315 material surface treatment mass: 0.4 kg
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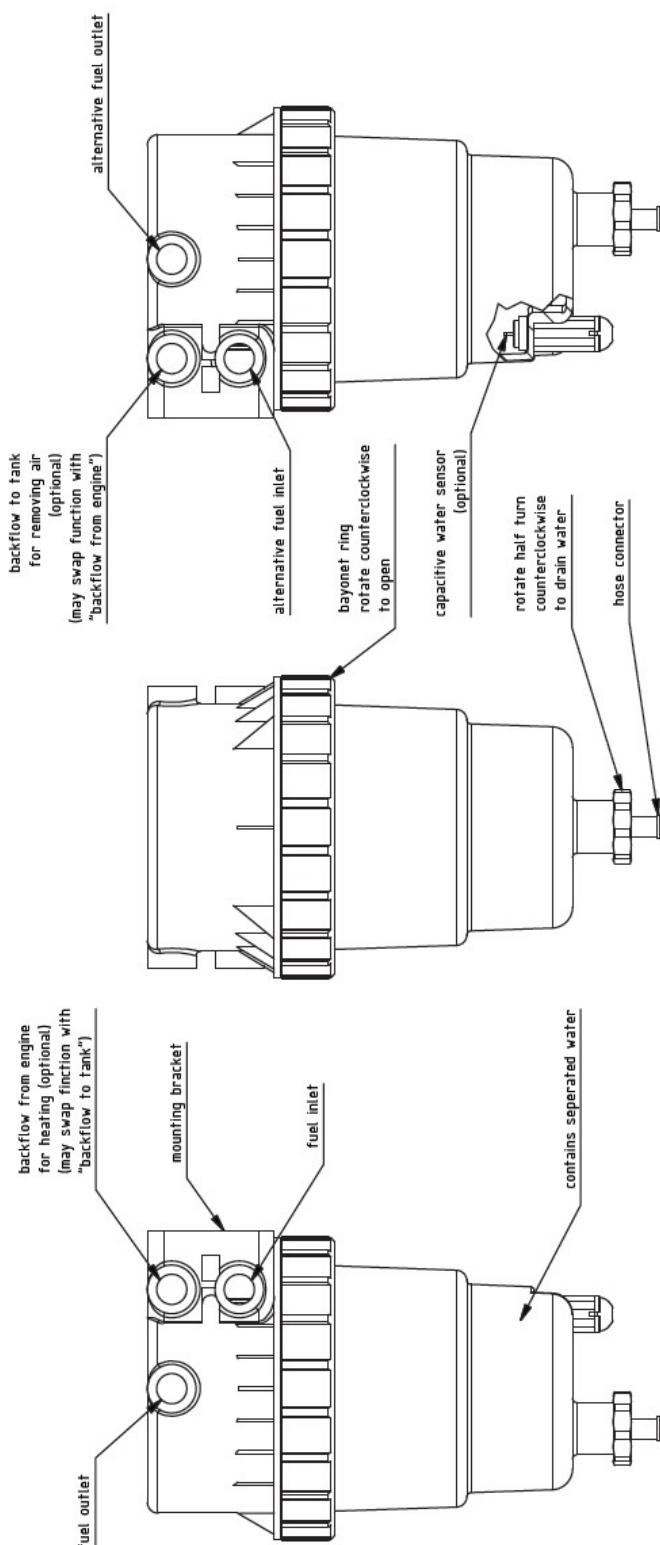


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Functions: LKF-Industrial and LKF-Automotive



label Assy. LKF-Industrial functions		project LKF-Industrial replacement for:		customer information
general tolerances	material	replaced by:	document type	approval date
DIN ISO 2760 A4K surface quality DIN EN ISO 302	undefined edges acc. to DIN ISO 3175 ± 0.2	Willibrord Lösing Filterproduktion GmbH Am Walzwerk 2 DE-45527 Hattingen www.lösing-filter.de	drawing no. part no. Z31365-01-KI02-EN-R00	opt. doc type long. Rev. A4 page 1 of 1
meas. unit is mm	mass: 0.8 kg			
			1 : 3	