

Filter elements

Oil separator elements for oil aerosol separation systems LGAir / LGA

1. Short description

High-performance filter element for separating cooling lubricants from machine tool exhaust air. Suitable for non-water-miscible cooling lubricants (cutting, grinding, drilling oil), oil aerosol from machine tools, as well as for water-miscible cooling lubricants.

The oil aerosols are extracted from the machining area of machine tools. The oil-laden air flow passes through the coalescer element from the inside to the outside. The oil accumulates on the filter fleece as it flows through the filter. In the process, the smallest oil droplets are brought together to form larger droplets, i.e. the droplets "coalesce".

Features:

- ✓ High separation efficiency at low differential pressure
- ✓ Long service life due to the coalescer principle



Oil separator element LGAir



Oil separator element LGA

2.1 Spare parts LGAir

Description	Order number
852 611 TI 2026 ENA/OENA STAGE 1	72497165
852 612 TI 2037 OENA STAGE 2	72497060
SCHWEBSTOFFFILTER 610x610x68 LGAir	72497002
Ablauf Montagegruppe LGA/LGAir (1xNBR Ventil; 1xLPO Gehäuse; 5,5m Schlauch)	72405215

2.2 Spare parts LGA

Description	Order number
OELABSCHIEDELEMENT LGA 600/601	79354390
VORABSCHIEDER LGA 600/601 VP	70517413
VORABSCHIEDER LGA 1200/1201/2400	70518319
OELABSCHIEDELEMENT LGA 1200/1201/2400	70373631
OELABSCHIEDELEMENT HE LGA 1200/1201	70551837

3.1 Technical data LGAir Elemente

Material Stage 1

Frame	steel vzk
Endcap	steel vzk
Filter material	Polyester
Test certificates /dust class	G4

Material Stage 2

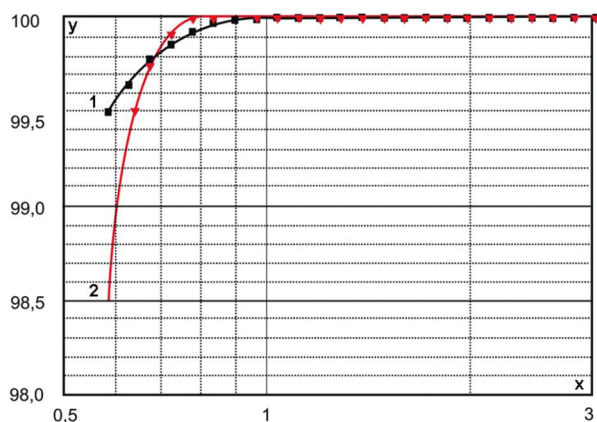
Frame	steel vzk
Endcap	Steel vzk
Filter material	Glass fiber mixture with drainage layer paper
Test certificates/Dust class	F7

3.2 Technical data LGA Elemente

Frame	steel vzk
Endcap	steel vzk
Filter material	Glasfaser

Voume flow	600 m³/h
Temperature	Δp 40 mbar at 600 m³/h on working point
Filter surface	+10°C till +60°C
	46000 cm²

Degree of functional separation LGA Elemente

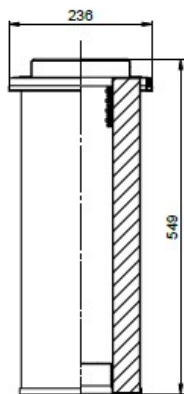


x = particle size [μm]
y = Fractional separation efficiency [%]

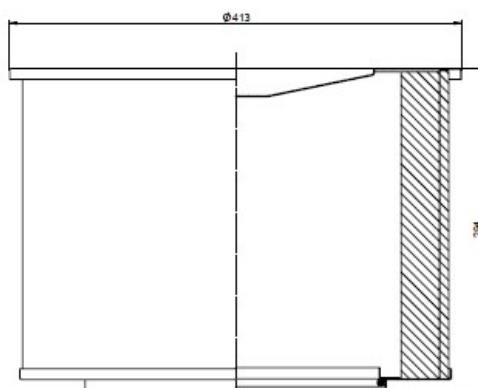
Aerosol: Wiolan SH 10
Raw gas concentration: 50 mg/m³
Volume flow: 600 m³/h

1 = Filter element in new condition
2 = Filter element after 100 operating hours

4.1 drawing LGAir elements

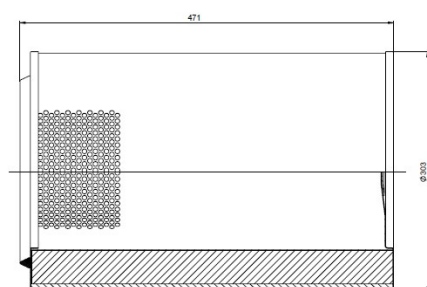


852 611 TI 2026 ENA/OENA STAGE 1

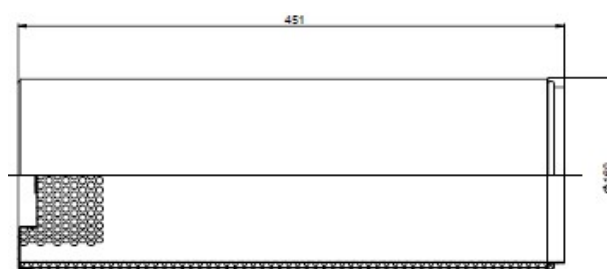


852 612 TI 2037 OENA STAGE 2

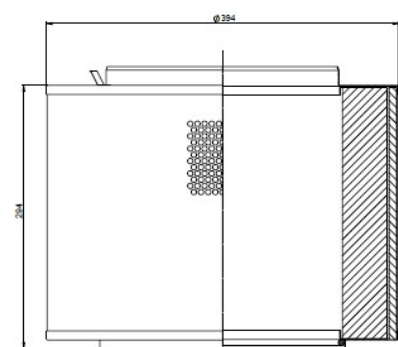
4.2 Drawing LGA elements



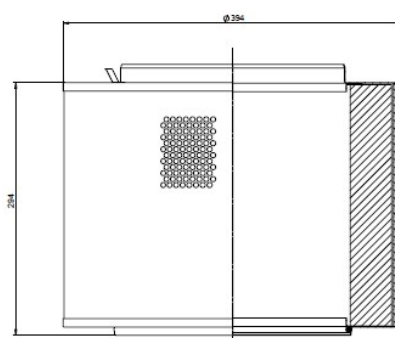
OELABSCHIEDER LGA 600/601



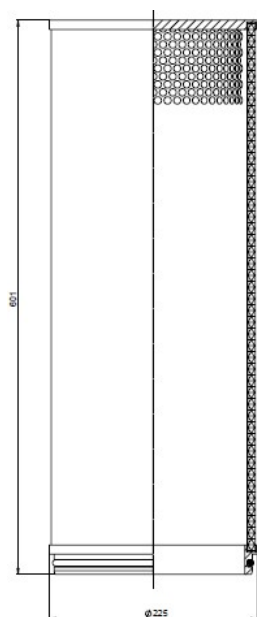
VORABSCHIEDER LGA 600/601



OELABSCHIEDEELEM. LGA 1200/1201/2400



OELABSCHIEDEELEM. HE LGA 1200/1201



VORABSCHIEDER LGA 1200/1201/2400

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