

Filter elements

Separator elements for aerosol separation systems LGAir/LGA

1. Features

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".

Characteristics

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



Separator elements LGA



Separator elements LGAir

2. Technical Data

2.1 Technical Data LGAir Elements

Material stage 1

| | |
|---|------------------|
| Inner core: | Galvanized steel |
| End cabs: | Galvanized steel |
| Filter media: | Polyester |
| Temperature range: | +10 °C to +60 °C |
| Test certificates/ Dust class: | G4 |

Material stage 2

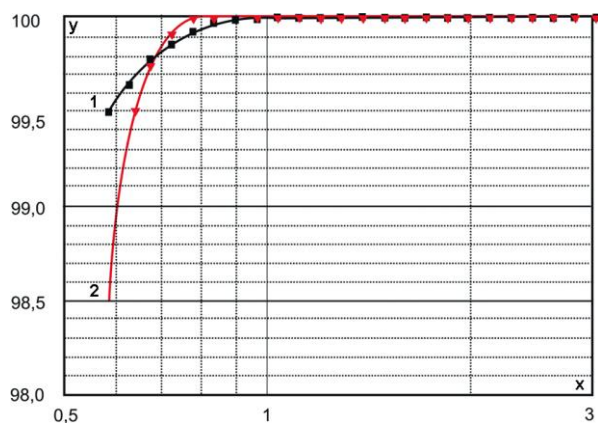
| | |
|---|--|
| Inner core: | Galvanized steel |
| End cabs: | Galvanized steel |
| Filter media: | Glass fiber mixture with drainage layer paper |
| Temperature range: | +10 °C to +60 °C |
| Test certificates/ Dust class: | F7 |

2.2 Technical Data LGA Elements

Material

| | |
|---------------------------|------------------|
| Inner core: | Galvanized steel |
| End cabs: | Galvanized steel |
| Filter media: | Glass fiber |
| Temperature range: | +10 °C to +60 °C |

2.3.1 Fractional separation efficiency LGA elements



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

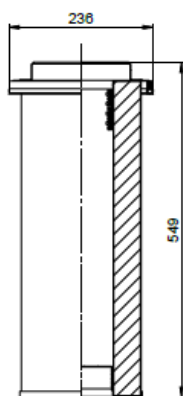
Aerosol: Wiolan SH 10
Raw gas concentration: 50 mg/m³
Volume flow: 600 m³/h

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

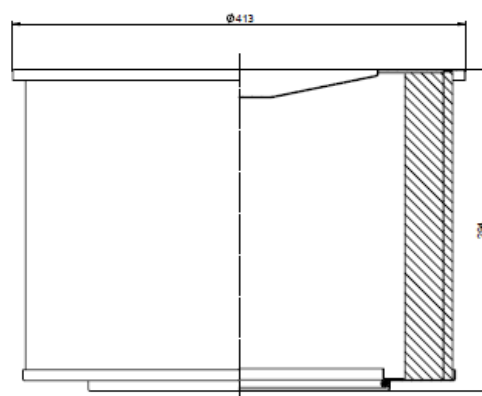
Technical data is subject to change without notice!

3. Dimensions

3.1 Dimensions LGAir elements

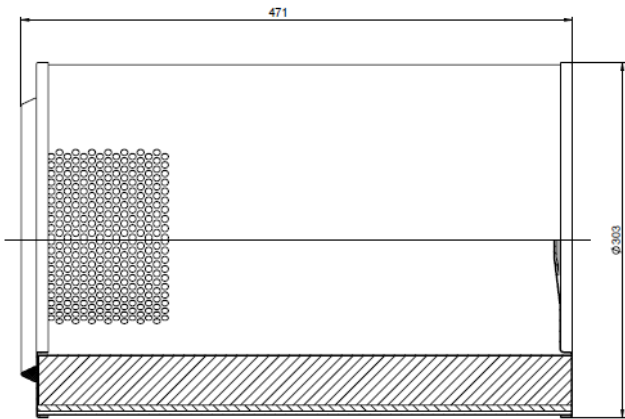


852 611 TI 2026 ENA/OENA stage 1

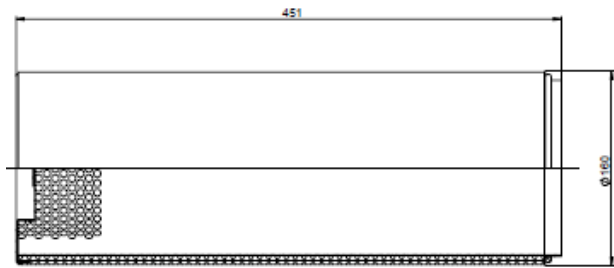


852 612 TI 2037 OENA stage 2

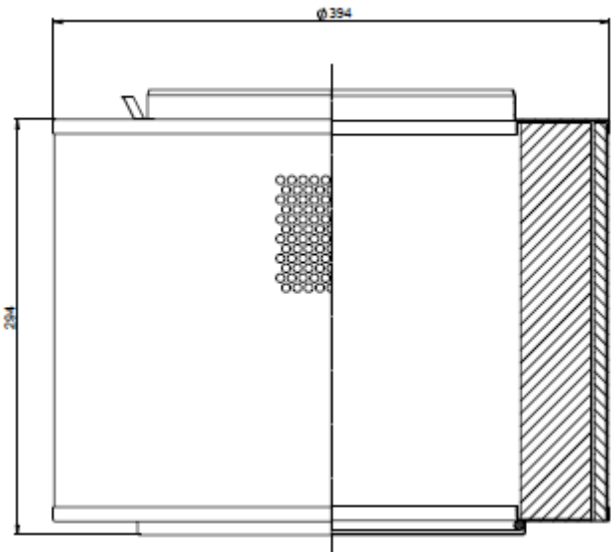
3.2 Dimensions LGA elements



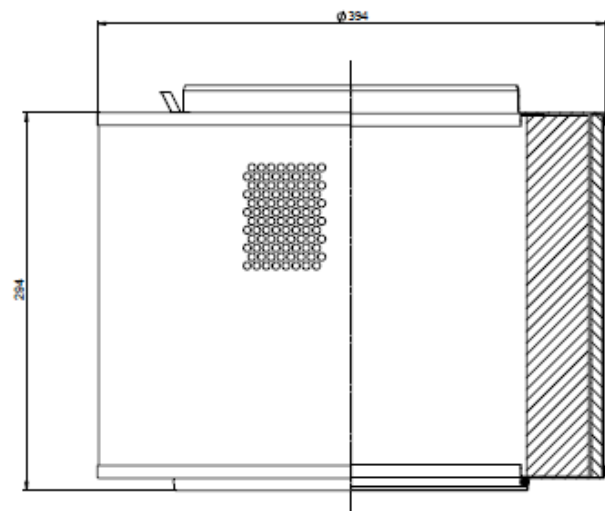
Oil separation element LGA 600/601



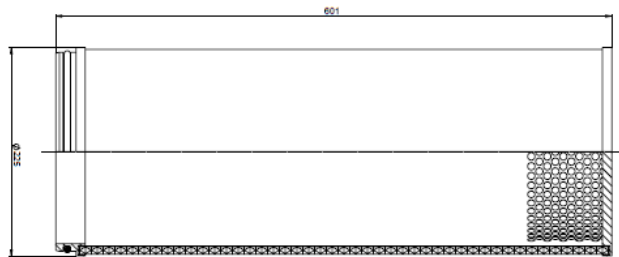
Pre-separating element LGA 600/601



Oil separation element LGA 1200/1201/2400



Oil separation element LGA HE LGA 1200/1201



Pre-separating element LGA 1200/1201/2400

4. Order numbers

| 4.1 Order numbers LGAir elements | |
|----------------------------------|----------------------------------|
| Order number | Type designation |
| 72497165 | 852 611 TI 2026 ENA/OENA STAGE 1 |
| 72497060 | 852 612 TI 2037 OENA STAGE 2 |
| 72497002 | HEPA FILTER 610x610x68 LGAir |

| 4.2 Order numbers LGA elements | |
|--------------------------------|---|
| Order number | Type designation |
| 79354390 | OIL SEPARATION ELEMENT LGA 600/601 |
| 70517413 | PRE-SEPARATING ELEMENT LGA 600/601 VP |
| 70518319 | PRE-SEPARATING ELEMENT LGA 1200/1201/2400 |
| 70373631 | OIL SEPARATION ELEMENT LGA 1200/1201/2400 |
| 70551837 | OIL SEPARATION ELEMENT HE LGA 1200/1201 |

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