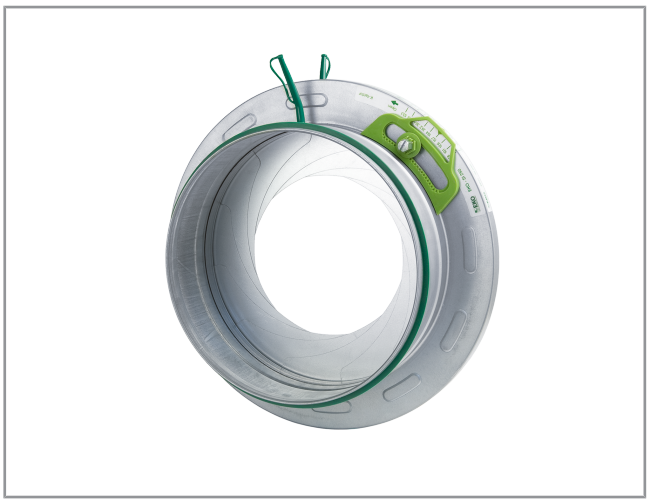
# Datasheet – EKOSI

## EKOSI
### Damper with airflow meter

### Product highlights

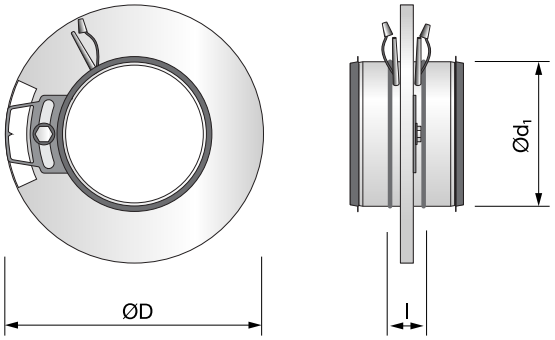
- Sizes from Ø80 mm - Ø800 mm
- Air tightness class ATC3 according to EN 1751 (C)
- The damper can be fully open for cleaning of duct
- Regulation scale and manometer connections
- Easy to adjust

# Damper with airflow meter EKOSI



## Dimensions

According to EN1506.




## Description

EKOSI is an iris damper for the exact and quick airflow measuring and regulation. It is composed of regulation plates, regulating nut, regulation scale, manometer connections and casing. The damper is fully openable for cleaning of duct. The nut is made of metal to ensure that it does not wear out when adjusted.

The casing and regulation plates are made of galvanised steel with rubber sealing gasket.

- Sizes from Ø80 mm - Ø800 mm
- Air tightness class ATC3 according to EN 1751 (C)
- The damper can be fully open for cleaning of duct
- Regulation scale and manometer connections
- Easy to adjust

| $Ød_{1\ nom}$ mm | ØD mm | l mm | m kg |
|---|---|---|---|
| 80 | 145 | 60 | 0,54 |
| 100 | 165 | 60 | 0,64 |
| 125 | 188 | 60 | 0,80 |
| 160 | 231 | 60 | 1,00 |
| 200 | 284 | 60 | 1,66 |
| 250 | 335 | 70 | 2,29 |
| 315 | 406 | 75 | 3,04 |
| 400 | 526 | 95 | 5,49 |
| 500 | 655 | 105 | 8,50 |
| 630 | 815 | 100 | 11,5 |
| 800 | 1015 | 105 | 25,0 |

## Certificates and declarations

- Environmental Product Declaration
- Building Product Declaration

# Damper with airflow meter EKOSI

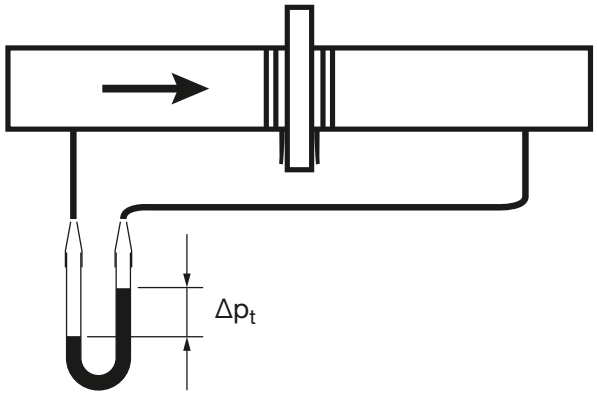
## Technical data

To select the right damper, related to pressure drop, sound power level and k-factor use our online LindQST Damper calculator.

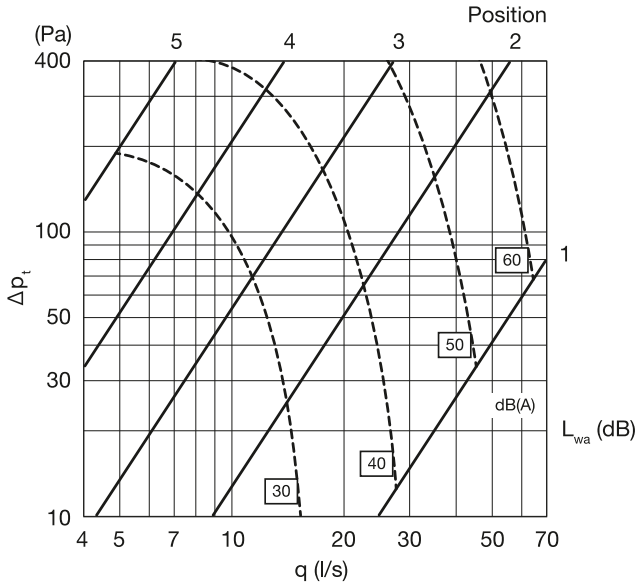
Calculate EKOSI

### Pressure loss graphs with noise generation for dimensioning

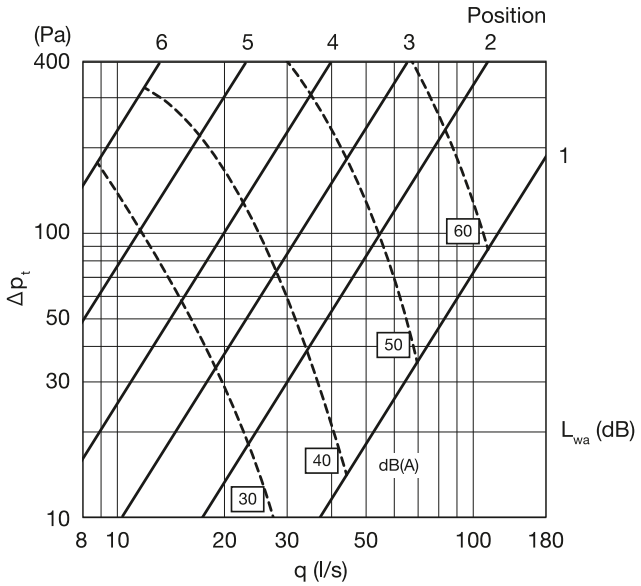
The dimensioning graphs show the pressure loss over the damper with airflow meter, $\Delta p_t$. They should be used to determine the pressure loss and to provide information about sound power levels at different settings. The diagrams on the following two pages contains information about airflow, sound power and total pressure drop for the damper at different settings.



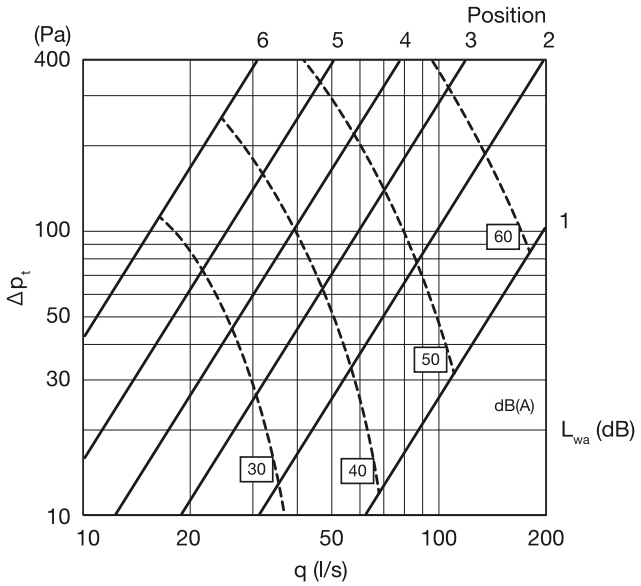

**Ø80**




**Ø100**

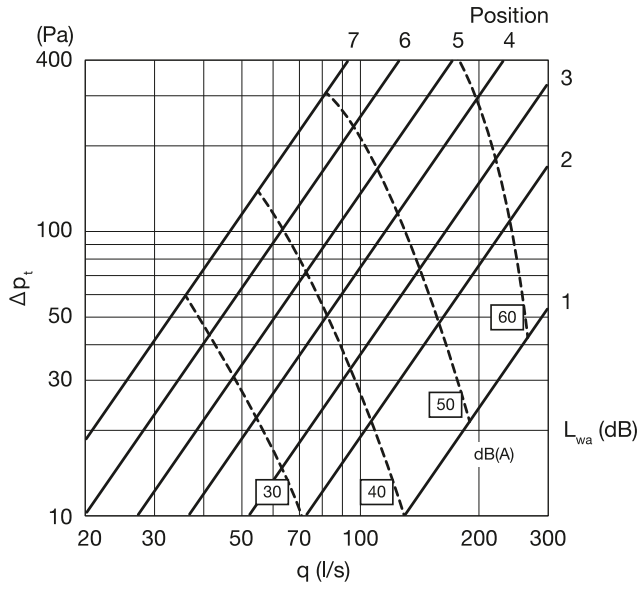



**Ø125**

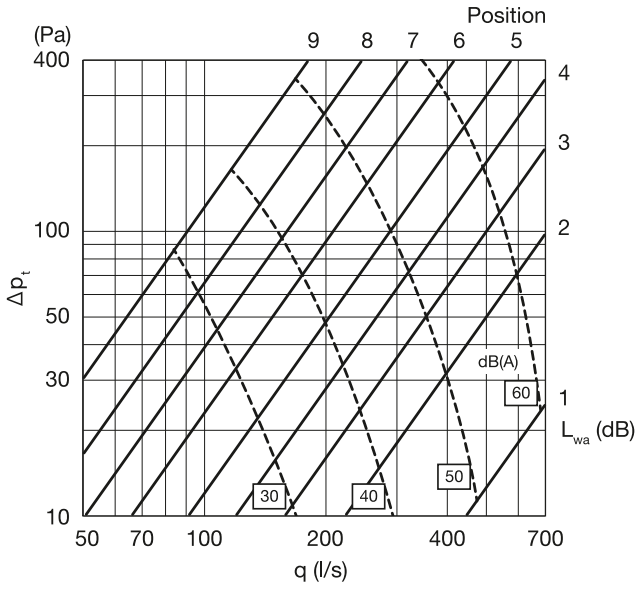


# Damper with airflow meter EKOSI

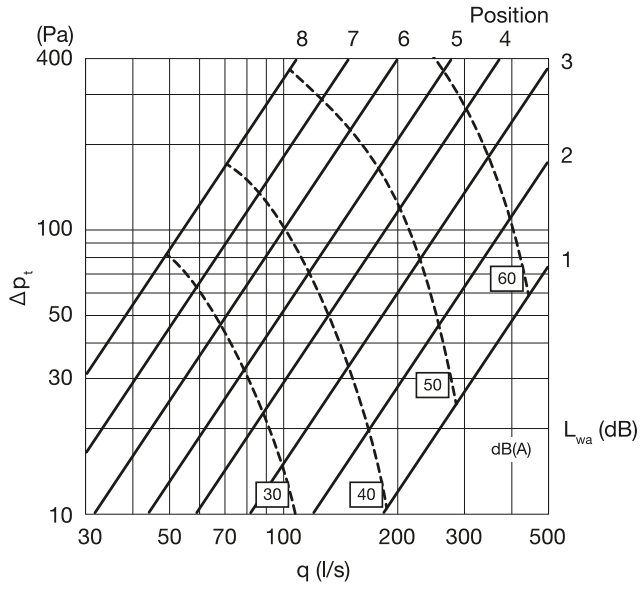
### Ø160



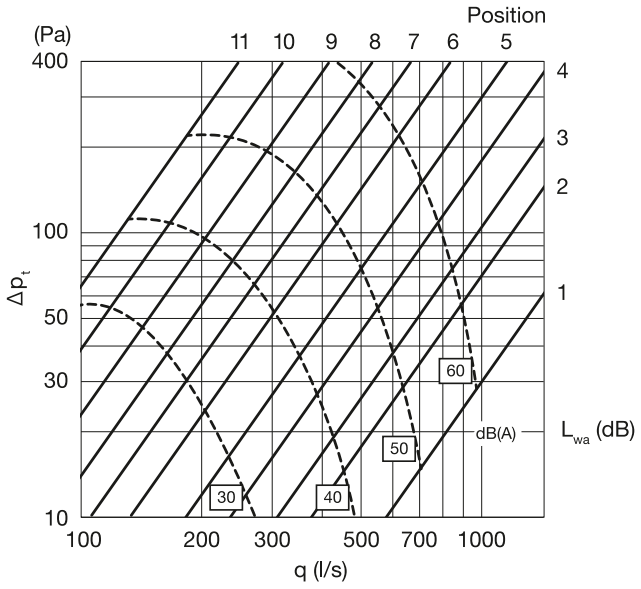

### Ø250




### Ø200

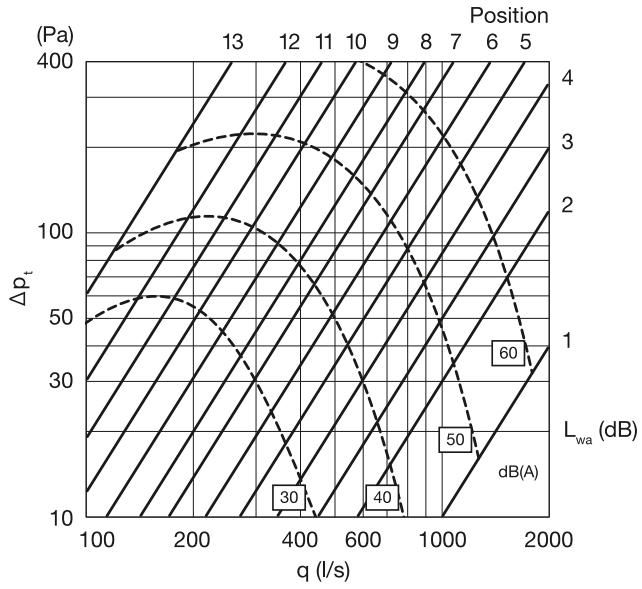



### Ø315

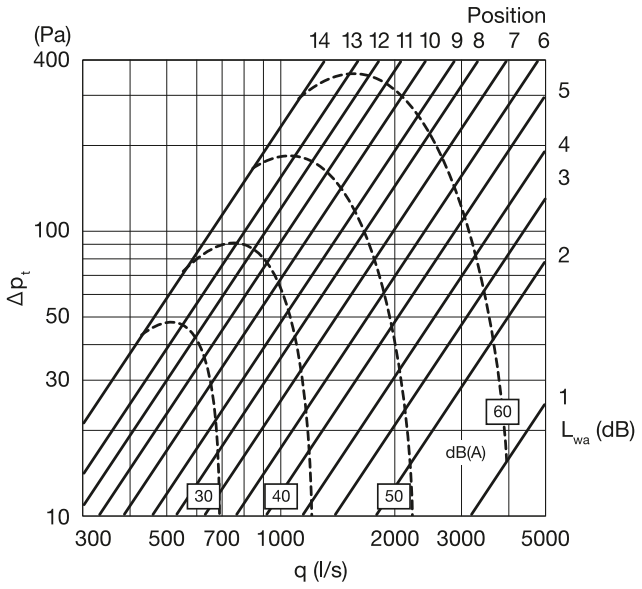


# Damper with airflow meter EKOSI

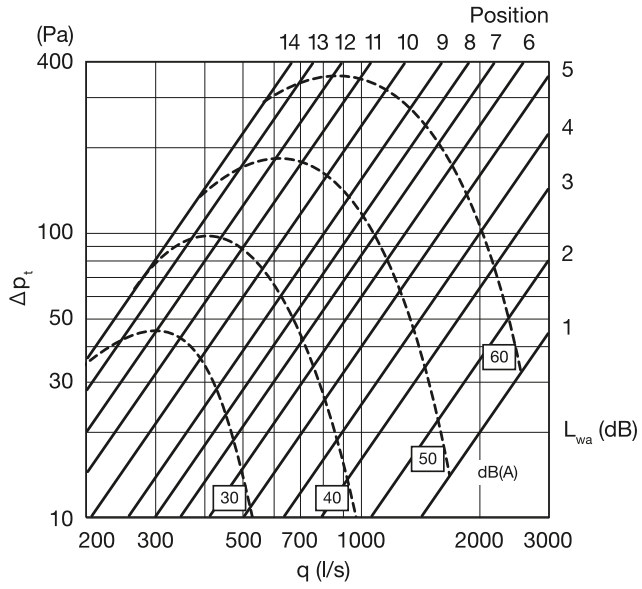
### Ø400



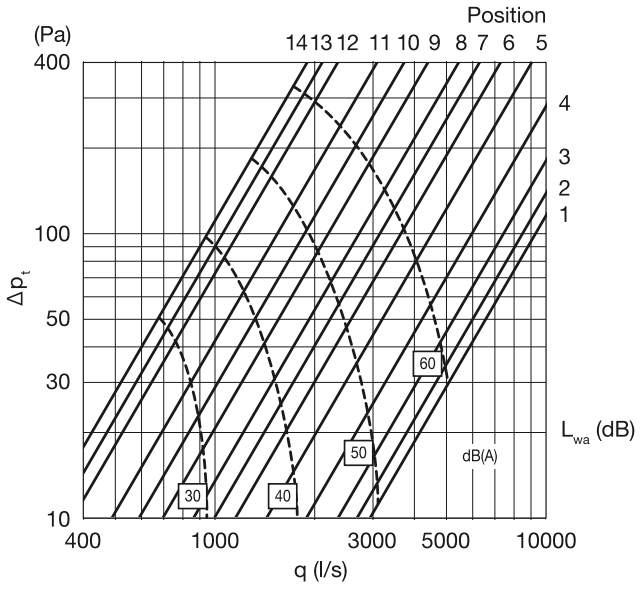

### Ø630




### Ø500




### Ø800



# Damper with airflow meter EKOSI

## Product specifications

| Specifications | |
|---|---|
| Tightness class | ATC3 EN 1751 (C) |
| Temperature range | -40°C - +70°C continuous |

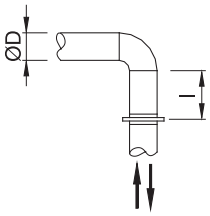
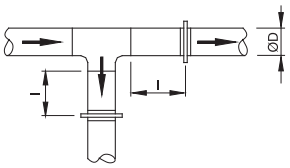
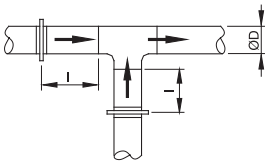
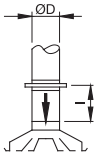
## Measurement accuracy

If the velocity profile is asymmetric, the measurement values can differ from the ideal values. For this reason, the airflow meter should never be located right up to any flow disturbance.

The method error in the table will differ, depending on the distance to the airflow disturbance.

If the damper is installed under ideal conditions, a maximum airflow deviation of ±5% can be expected.

The damper complies with tightness class ATC3 (C) in accordance with EN 1751.

| l = straight distance before and after disturbances | Method error ± 5% |
|---|---|
|  | l ≥ 1 ØD |
|  | l ≥ 2 ØD |
|  | l ≥ 2 ØD |
|  | l ≥ 2 ØD |

## Installation and maintenance

In order to ensure optimal performance and accurate measurements, it is essential that the product is installed in accordance with the installation instruction.

- Installation instruction

k-factors can be found on the product label or in the Lindab calculation app, Vent Tools.

### Maintenance

When cleaning the duct, note the position of the damper before it opens fully. Reset the damper setting after cleaning.

## Material and finish

Standard material is galvanized steel Z275.

Silicone-free rubber gasket.

### Available finish

- Powder coated White RAL 9003 (EVIT)

## Corrosion classes

| Material | Corrosion class |
|---|---|
| Galvanized steel Z275 | C3 |
| Powder coated outside | C3 |

## Order code

| | |
|---|---|
| Product | EKOSI |
| Dimension $Ød_1$ | 160 |
| Material | GALV |

**Order example: EKOSI-160-GALV**

Most of us spend the majority of our time indoors. Indoor climate is crucial to how we feel, how productive we are and if we stay healthy.

We at Lindab have therefore made it our most important objective to contribute to an indoor climate that improves people's lives. We do this by developing energy-efficient ventilation solutions and durable building products. We also aim to contribute to a better climate for our planet by working in a way that is sustainable for both people and the environment.

Lindab | For a better climate

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For a better climate