

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

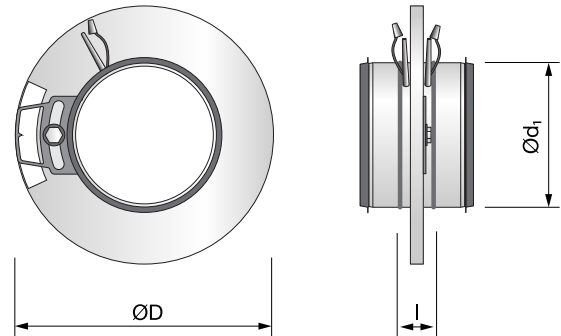
Damper with airflow meter

EKOSI



Dimensions

According to EN 1506.



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.

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Ød 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](#)

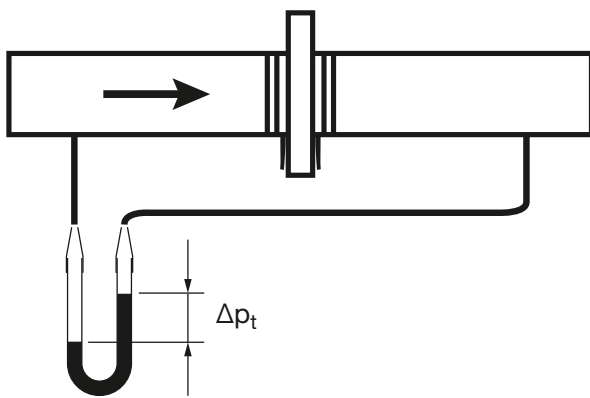
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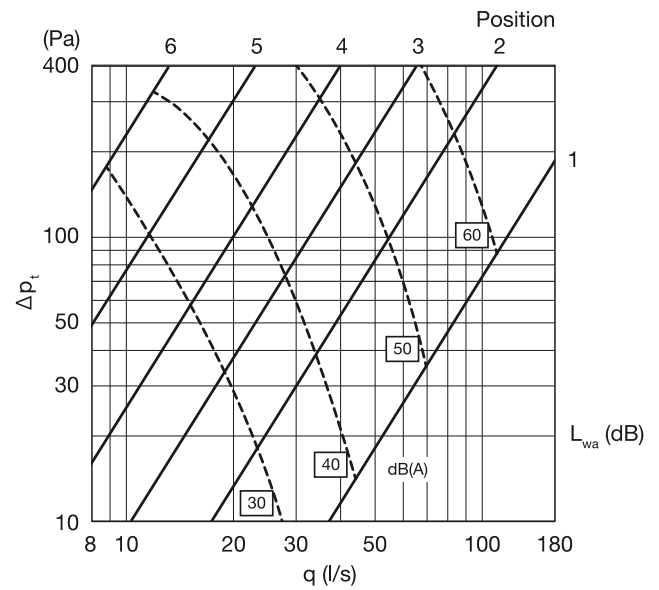
Technical data

Pressure loss graphs with noise generation for dimensioning

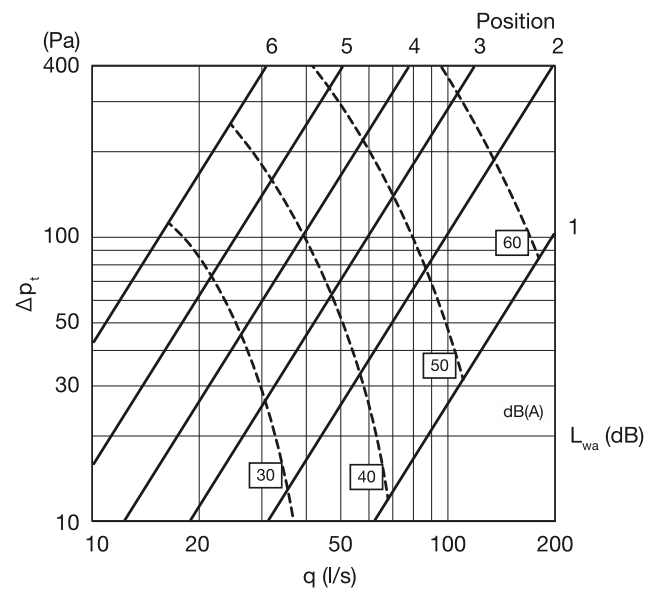
The dimensioning graphs show the pressure loss over the damper with airflow meter, Δp_t . They should be used to determine the pressure loss and to provide information about sound power levels at different settings. The diagrams on the following two pages contains information about airflow, sound power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



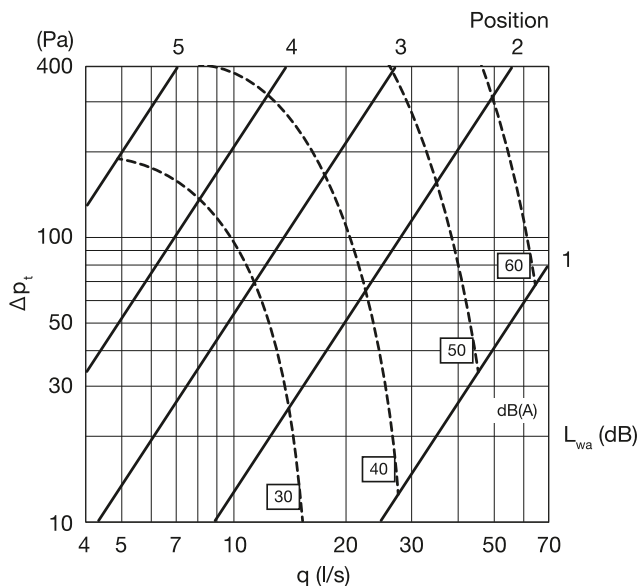
Ø100



Ø125



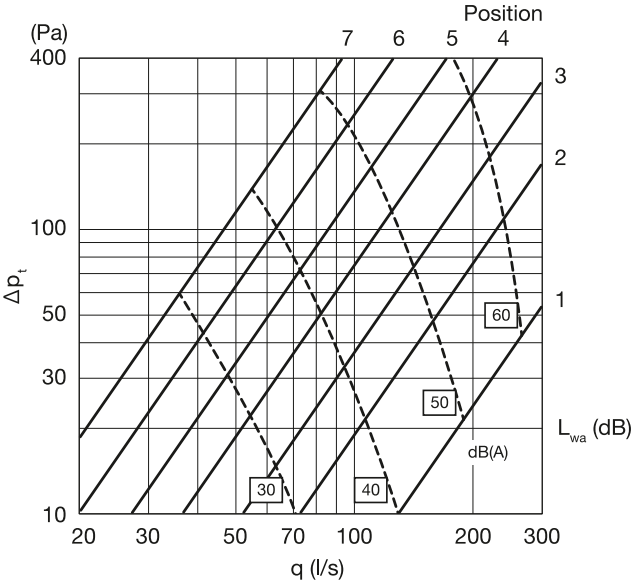
Ø80



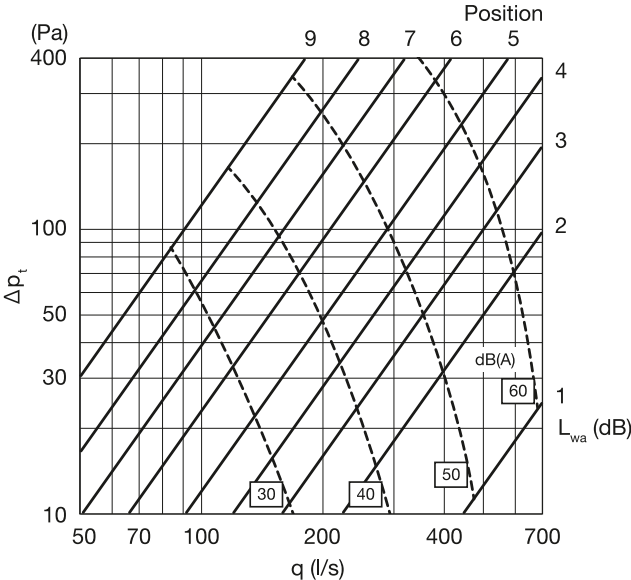
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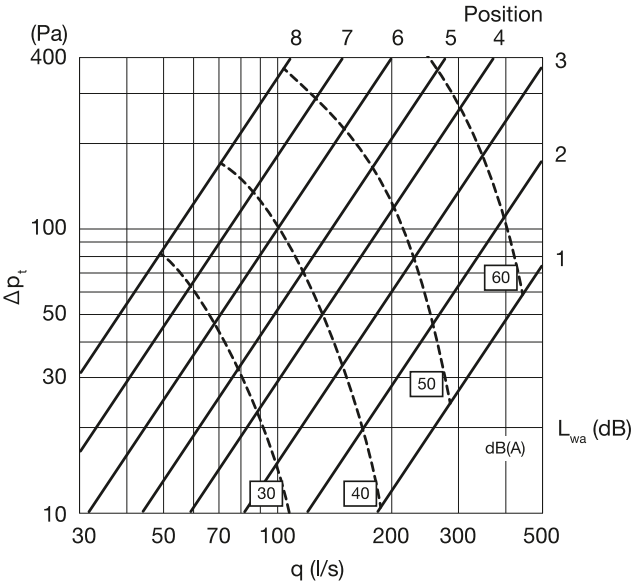
Ø160



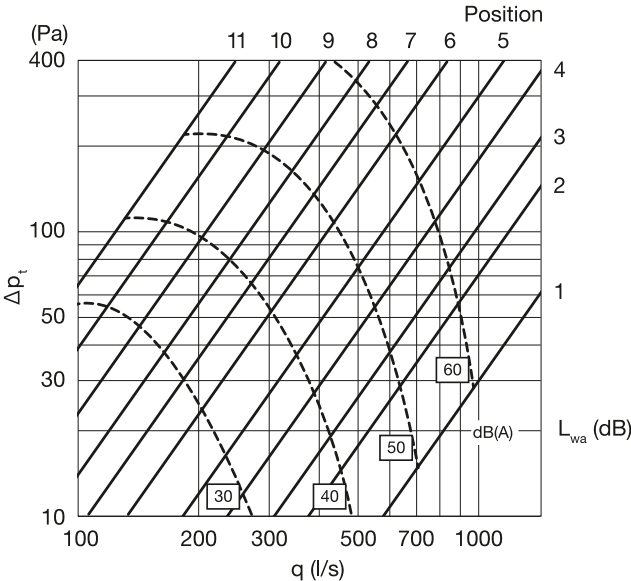
Ø250



Ø200



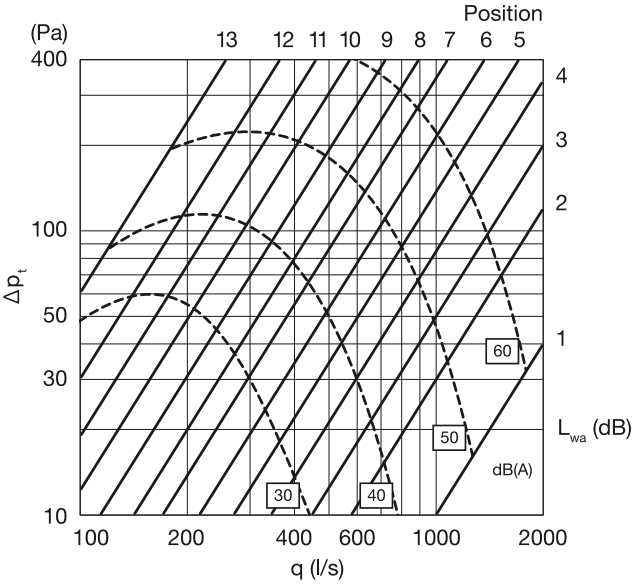
Ø315



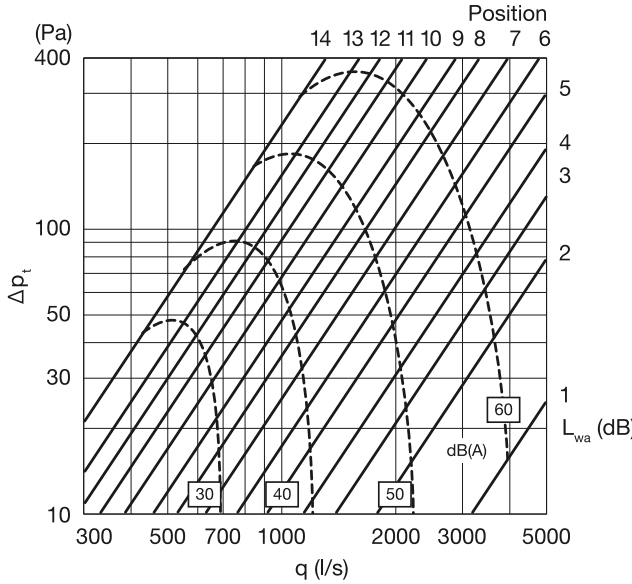
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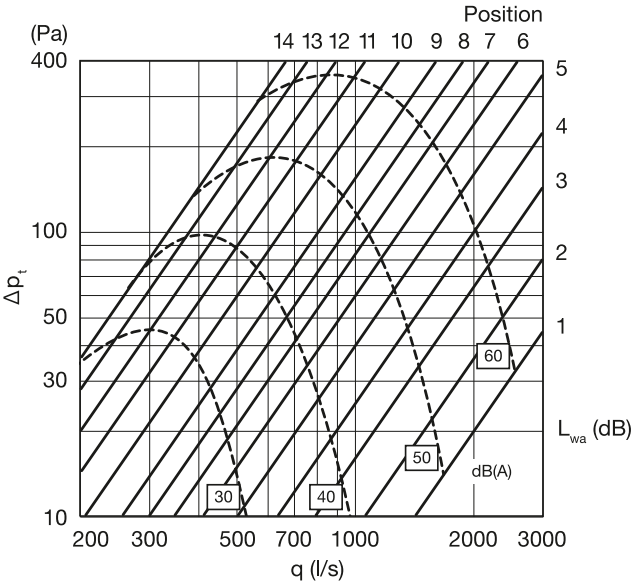
Ø400



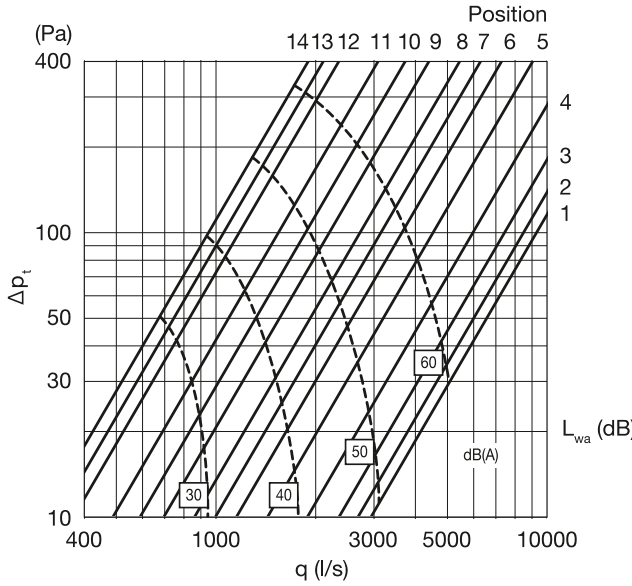
Ø630



Ø500



Ø800



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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 $\pm 5\%$ can be expected.

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

I = straight distance before and after disturbances	Method error $\pm 5\%$
	$I \geq 1 \text{ } \varnothing D$
	$I \geq 2 \text{ } \varnothing D$
	$I \geq 2 \text{ } \varnothing D$
	$I \geq 2 \text{ } \varnothing D$

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 $\varnothing d$,	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