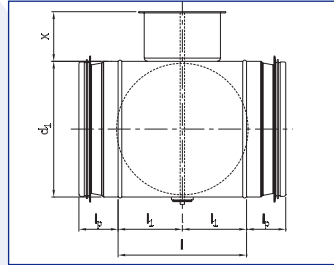




# KEN-LOK

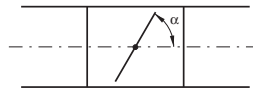
## Balancing damper - KLM



KLM dampers are the most applied balancing dampers to regulate the required airflow. These dampers are equipped with a turning blade, adjustable from 0 – 90° (90° is closed). A certain flow of air will always leak through even when the blade is closed. The KLM damper has a turning, circular blade. The blade is stepless adjustable 0-90°. The damper is used in cases of lower demands for shut-off capacity. The damper admits an insulation thickness of approx. 50 mm. In appropriate cases the damper can be used for regulation.

Setting the angle  $\alpha$

$\alpha = 0^\circ$  = open blade,  $\alpha = 90^\circ$  = closed blade



**General features of the KEN-LOK dampers:** Less leakage loss and minimal noise pollution in the system. The unique KEN-LOK rubber seal lead to quick and easy mounting of the dampers: Plug & Play. The KLM-dampers comply with the international standards NEN-EN 1506:2007 - NEN-EN 10346:2015 - NEN-EN 1751:2014.

### Unique features:

- Short built-in lengths
- A wide range of KLM models for all your needs
- KLM dampers can be easily insulated even after installation
- Rigid construction, easy to install through 'Soft-Edge'-technology
- The KLM dampers are available in two versions: with rubber seal (KEN-LOK), without rubber seal (SPIRALO)

### KLM

- Metal cup
- Stepless adjustable
- Blade attached by a synthetic bush at both ends
- Not suitable for 100% closing

### Technical specifications

Pressure loss graphs with noise data for dimensioning.

- The solid curves show the pressure drop,  $\Delta p_t$ , over the damper as a function of flow  $q$  and setting angle  $\alpha$ .
- The dashed curves give the A-weighted sound power data, LWA, in dB to the duct.

### Example:

Given: Dimension  $\varnothing 100$

Flow 60 l/s

Pressure drop 200 Pa

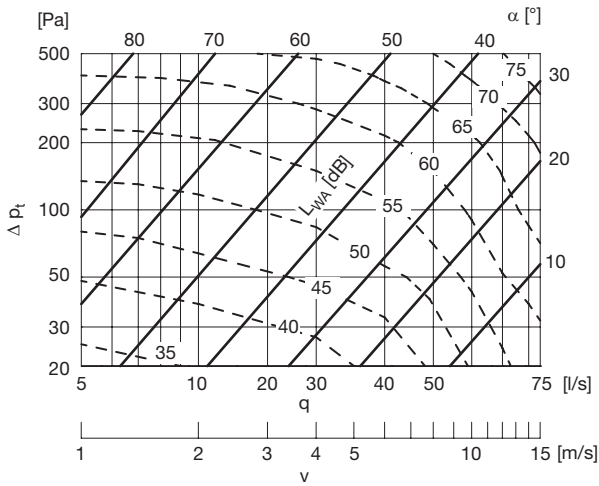
Obtained from graph:

Setting angle 38°

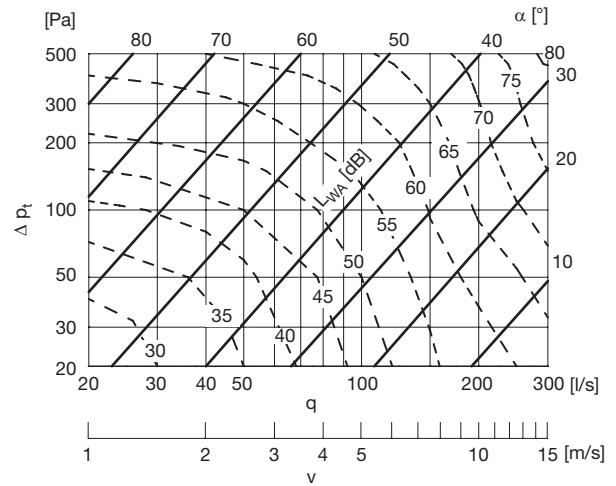
Sound power level 63dB(A)



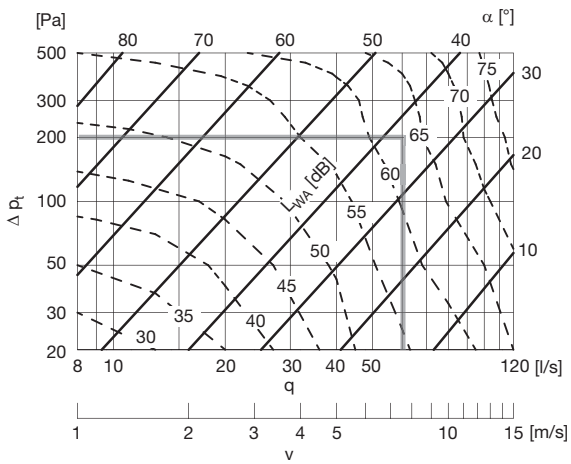
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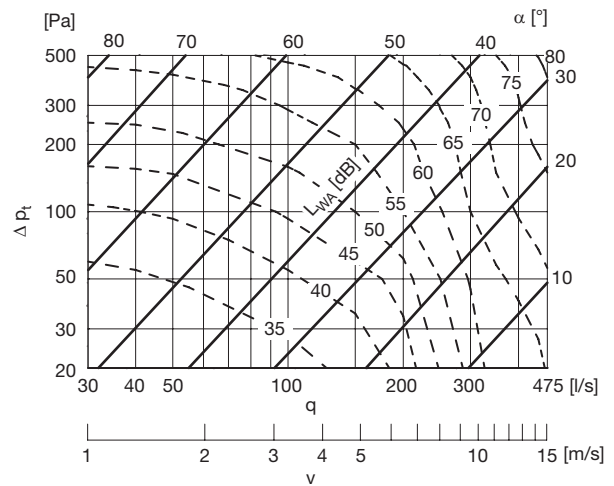
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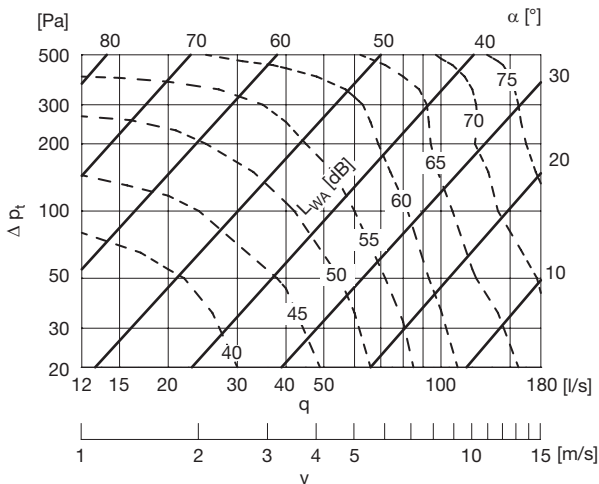
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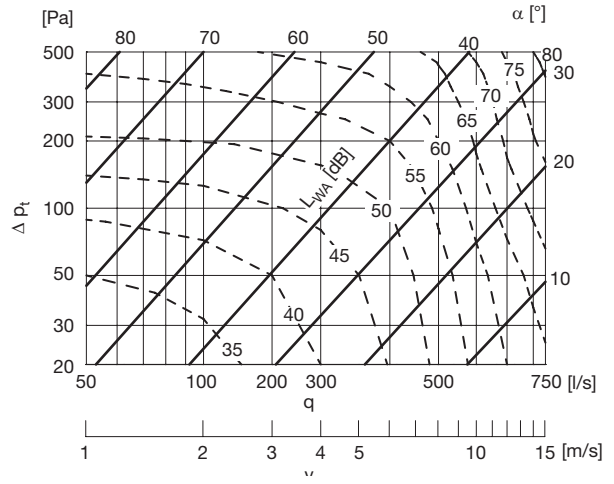
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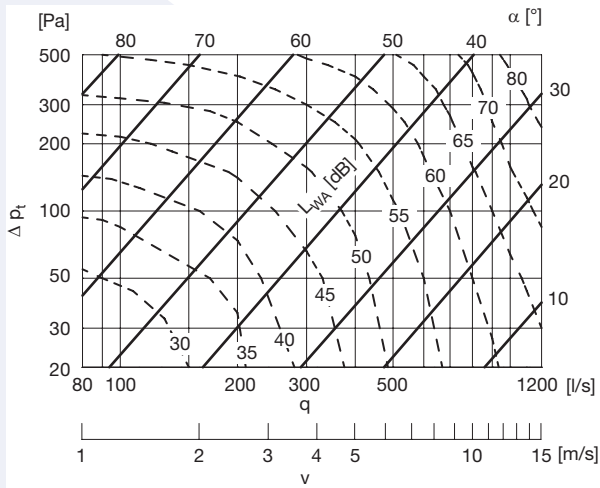
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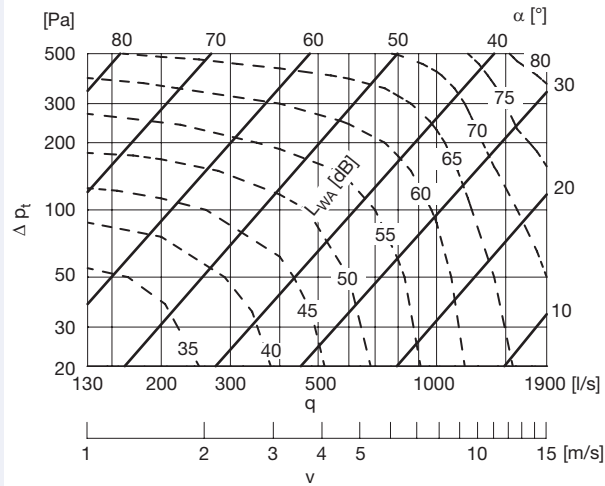
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Ø400



Ø500

