# **FIDi**

Self-acting back draught damper for combustion gases, with commissioning function





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#### **Quick facts**

- Sizes from Ø 100 to 250 mm
- Commissioning function
- Available in MagiCAD

# FIDi - self-acting back draught damper with commissioning function

FIDi is a self-acting back draught damper designed to prevent the spread of combustion gas via the intake air system in ventilation systems. FIDi is equipped with measurement and commissioning functions, thus it can also be used as a adjustment damper.

#### Measurement and commissioning

The commissioning unit is integrated in the insert, which mean the setting does not change when the insert is dismantled. There is a metering socket, knob and K-factors on the outside.

#### Use

The back draught damper should be used in combination with a fan in use solution, smoke venting via exhaust air or the like and to maintain its function requires the supply air fan to be operational during the fire. The fire protection functions work for all design fire scenarios that can be expected to occur with traditionally used fire development rates. Planning and fire protection analysis are to be made by fire experts.

#### Inspection/maintenance

Inspection/maintenance shall occur every third year, during the compulsory ventilation inspection (OVK), cleaning of ducts and for rebuilding.

# Certificate of conformity

SC0031-10

#### **Planning**

Planning shall be carried out in accordance with the related planning instructions. There is a checklist with items concerning the intake air system, exhaust air system and the ventilation system in general, that must be met. In addition, the ventilation system should be fire protection analysed in its entirety to prevent the spread of combustion gases. This should be conducted by fire experts.

#### Installation

FIDi shall be located in the intake air duct for the served fire compartment. The back draught damper can be installed vertically or horizontally and placed in the fan room, in the shaft, in the fire compartment, or outside the fire compartment. If the back draught damper is placed in the fire compartment, it must be protected for external fire impact, for example, above the ceiling.

#### **Function**

FIDi has a simple pull-out insert with a membrane that closes very quickly with overpressure in the room. The design of FIDi means that the back draught damper has a low build height, but also that the insert is easy to remove. Removing the insert also allows access for inspection and cleaning of the duct in both directions.

#### **Dimensions**

FIDi is available from Ø 100 to 250 mm



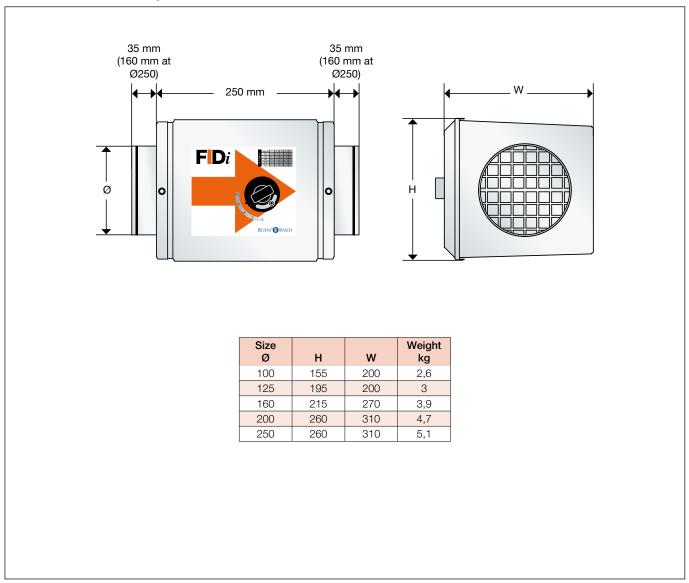
# **Specifications**

Examples:

Self-acting back draught damper FIDi - 125

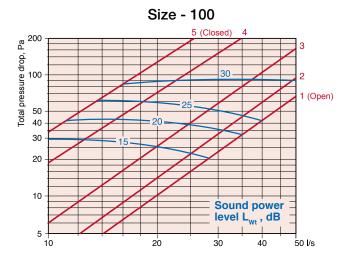
Size —

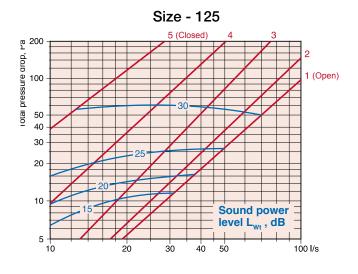
# Dimensions and weight

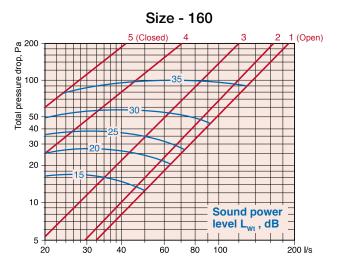


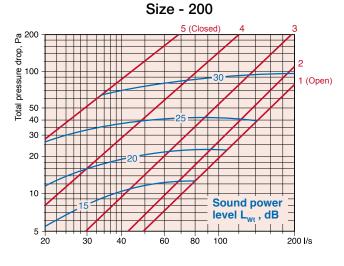


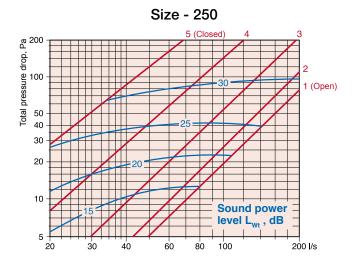
## Size chart











## Sound data

Correction of sound power level,,  $L_{Wok}$ , in octave band  $L_{Wok} = L_{wt} + K_{ok}$ 

Correction,  $K_{ok}$  at opening angle of  $90^{\circ}$ 

Dim.	Mittfrekvens Hz							
Ø mm	63	125	250	500	1000	2000	4000	8000
100	-18	-7	-9	-7	-12	-17	-21	-21
Tol. dB	±9	±4	±5	±4	±8	±11	±13	±13
125	-16	-7	-9	-8	-14	-17	-19	-20
Tol. dB	±6	±5	±5	±5	±5	±7	±9	±10
160	-18	-5	-9	-13	-16	-15	-20	-23
Tol. dB	±8	±4	±5	±7	±6	±8	±11	±14
200	-18	-8	-6	-11	-13	-14	-18	-20
Tol. dB	±9	±6	±4	±5	±5	±6	±8	±10
250	-18	-8	-6	-11	-13	-14	-18	-20
Tol. dB	±9	±6	±4	±5	±5	±6	±8	±10