Volume control damper

VD

Description

Volume control damper for rectangular ducts, with opposed counter rotating blades. Blade width: 100 mm.

Each blade is fitted with EPDM sealing gasket.
Operating temperature: -40ºC ~80ºC.

Casing tightness class C (SR EN 1751:2014)
Blades leakage class 3 (SR EN 1751:2014)

Important note: data is valid for full blade height construction (no. of blades multiplied with 100 mm).
For intermediate dimensions on dimension H (height)
(for example: H=350 mm), above mentioned leakage/tightness specifications are no longer valid.

Material

Frame / Blades - aluminium
Bearings - nylon
Sealing gasket - EPDM

Control mode

Manual control - lever with visibile position indicator - code **M**
(the lever can be securely blocked at the desired position)
Prepared for actuator - support plate for actuator - code **S**
(square shaft 12x12 mm**)**

Optional accessories

Belimo® actuators (extra cost)

Order code: VD   x   -   +*
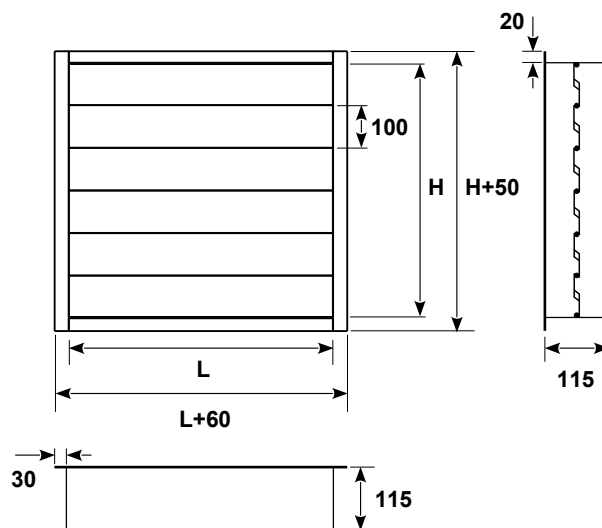
Product code
L (mm) - length L
H (mm) - height H
control mode:
-**M** - manual control
-**S** - prepared for actuator

* Belimo® actuator (extra cost)

Dimensions

Dimensions **L** x **H** are duct dimensions.
Volume damper internal dimensions: **L** x (**H**+10)

The volume damper is designed to be mounted on any flange profile.

Available dimensions

Can be ordered with dimensions between:
L= 100~3000 mm
H=100~2000 mm

Control mode

Manual control.
Lever with visible position indicator and locking butterfly screw - code **M**
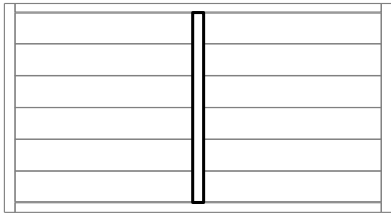

Prepared for actuator mounting.
Actuator support plate and extended 12x12 mm square shaft - code **S**

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Specifications

For:
H≤1000 si L>1600
H>1000 si L>1400
volume damper is executed with intermediate mullion, with double set of gears, which can be interconnected for single side control or separated for double side control.

Note:
For volume dampers with intermediate mullion, depending on size, for easy operation and avoidance of malfunctioning, more than one handle / shaft is recommended to be used. For details please contact technical department.

Technical data
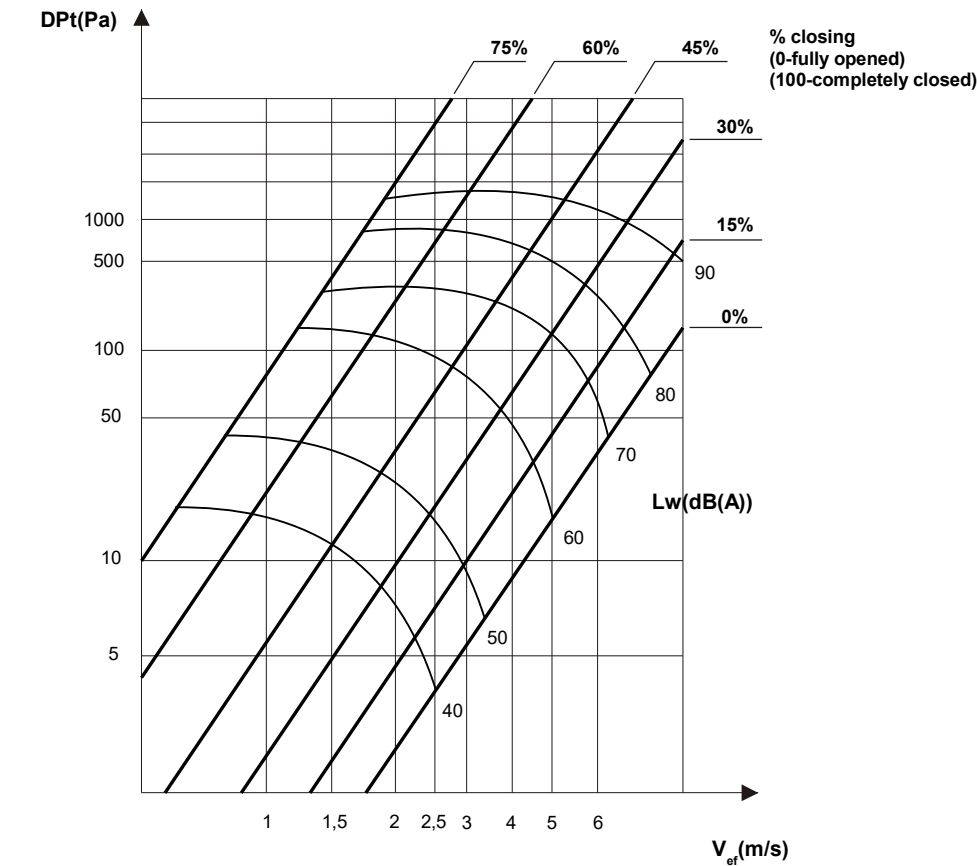
Noise correction factor:
Based on volume damper area, use the following formula: Ltw=Lw+k

A(m²)	0,1	0,12	0,25	0,3	0,4	0,5	0,6	0,75	1	1,25	1,6	2
k (dB(A))	-10	-9	-6	-5	-4	-3	-2	-1	0	1	2	3