



AIR
SPIRALO®

VENTILATION DUCTS & FITTINGS

Air Spiralo® ID

Volume control dampers

Application

Volume control dampers with flow meter, offering correct measurement of air flow. Stable function, independent of flow direction, in combination with low noise level.

The linear choking characteristics of the iris volume control damper simplify this operation. Adjustment and measuring is carried out in the same operation, reducing the on site time to achieve correct airflow.

Unique features:

- Range Ø80 – Ø800 mm
- Precise flow measurement
- Independent working of flow direction
- Can be opened 100% to facilitate duct cleaning



Volume control damper ID

Volume control damper ID offers precise measurement of the air flow.

Because of the centric air flow regulation, the air volume is even and the noise level consistently low.

The air flow reading is obtained by measuring the pressure loss over the valve via the measuring nozzles mounted at each side of the valve and subsequently reading the value from the diagram.

The diaphragm damper blades forms a measuring flange for flow measuring. The air flow is determined based on the measured pressure difference over the measuring nozzles, see the corresponding graph and can be easily re-adjusted. After setting the handle can be locked by a screw.

The damper can be fully opened for duct cleaning, the adjustment scale can be used to re-obtain the correct setting after duct cleaning.

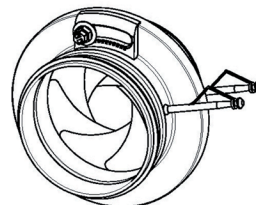


Installation

Consider required minimal straight distance to obtain accurate flow measurement. With an ideal flow, the error is $\pm 7\%$. For correct functioning the volume control damper should not be loaded with the weight of the adjoining ducts. For correct installation refer to installation details.

Technical details

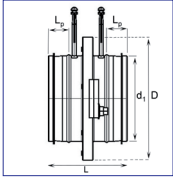
Diameter range	Ø80 – Ø800 mm
Material of construction	zinc plated steel
Seal	EPDM
Air tightness class	C



Orders and requests for quotation: sales@airspiralo.com
For additional information: www.airspiralo.com

Dimensions

KLV



$\varnothing d_1$ (mm)	$\varnothing D$ (mm)	L (mm)	L_p (mm)
80	125	110	30
100	165	110	30
125	188	110	30
160	230	110	30
200	285	110	30
250	335	135	40
315	410	135	40
400	525	190	60
500	655	170	50
630	815	170	50
800	1015	270	100



Installation details

The accuracy of flow measurement depends on correct installation.

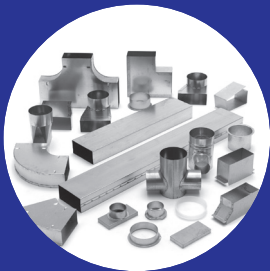
Application	Safety distance Variation $\pm 7\%$	Safety distance Variation $\pm 10\%$
	$L \geq 1D$	$L \geq 1D$
	$L \geq 4D$	$L \geq 2D$
	$L \geq 2D$	$L \geq 2D$
	$L \geq 2D$	$L \geq 2D$

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VENTILATION DUCTS & FITTINGS

Assortment

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Ducts and fittings

Air Spiralo®

Ducts and fittings

Air Spiralo®

Rectangular ventilation ducts and fittings

Air Spiralo®

Silencers

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Dampers

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Ventilation hoods

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Components, mounting material and

Ducting ancillaries



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