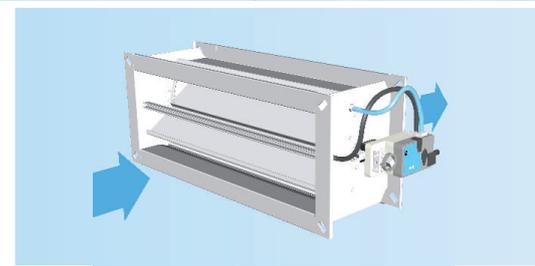


Minimum Length - Maximum Accuracy

Flow Rate Controllers VRactive



active
control



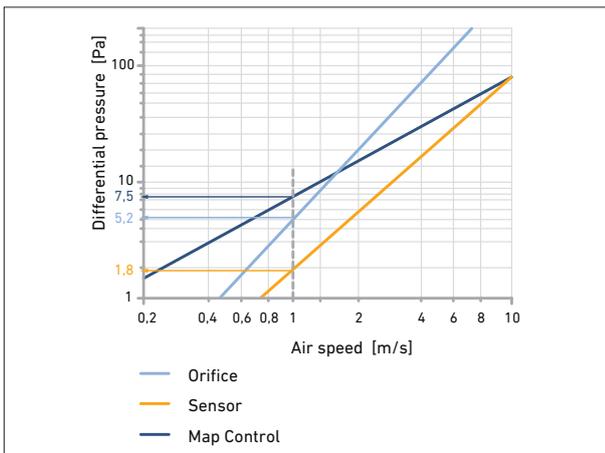
Unique and Ingenious: LTG Map Control.

- Highest measuring accuracy among all renowned measuring systems for small air flow rates thanks to LTG map control
- Energy-efficient - minimum pressure drop due to small differential pressure element
- Very short installation length, entryflow-insensitive, very easy integration
- One system for round and square, also available as twin controller for supply air and exhaust air
- Also available with static differential pressure measurement - suitable for laboratories and hospitals

Application

Flow rate controllers series VRActive are designed for supply pressure-independent control of constant or variable air flows. They are available both for dynamic and static differential pressure measurement (VRActive-s).

Enhanced differential pressure in low air speed ranges

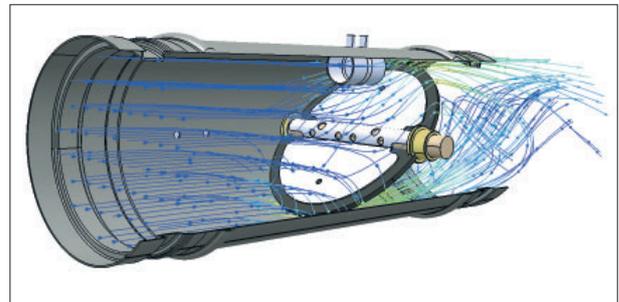


Characteristics

The differential pressure is measured directly in the damper blade area, thereby

- stronger signal due to locally accelerated air flow
- most precise measurements in low air speed ranges
- minimum pressure loss
- compact dimensions for tight installation spaces

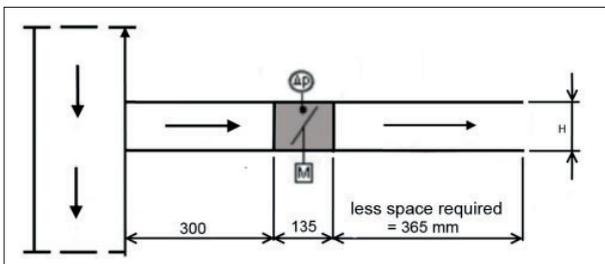
LTG map control ActiveControl



Locally accelerated air flow at the measuring point

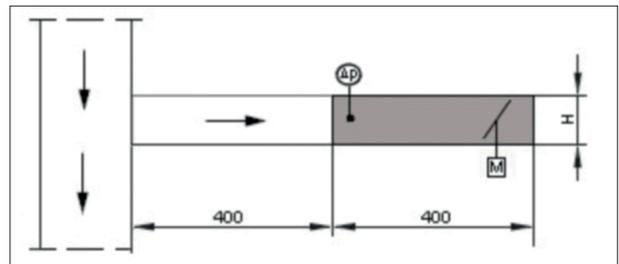
Comparison of installation situations

Example: LTG flow rate controller VRActive, size 400 x 100



- Overall length L = 135 mm
- Entry flow = 3 x H
- Minimal flow speed = 1 m/s
- Differential pressure signal at 2 m/s = ca. 20 Pa

Example: conventional flow rate controller, size 400 x 100



- Overall length L = 400 mm
- Entry flow = 4 x H
- Minimal flow speed = 2 m/s
- Differential pressure signal at 2 m/s = ca. 5,5 Pa

Product data

	VREActive	VRActive	VRDActive
Measuring methods	<ul style="list-style-type: none"> ■ dynamic (for non-polluted air) □ static (for polluted air) ¹⁾ 		
Design	circular	square	circular
Sizes [mm]	Ø 100...400	200 x 100 ... 1200 x 400	Ø 100...200
Installation length * [mm]	195...355	135...420	195...215

■ Standard □ optional * Only one length per nominal width available 1) VRActive-s