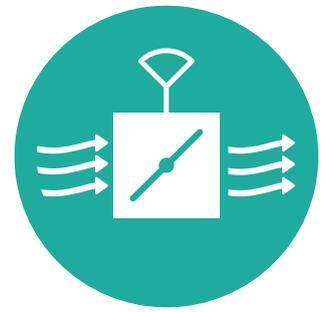


# BVVMd-1

Circular measuring unit



VAV, CAV & FLOW  
MEASURING DAMPERS



26/04/2018

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## Quick facts

- Sizes Ø100 mm to Ø630 mm
- Dynamic pressure sensor
- Calibrated at the factory
- Display shows the current flow
- Modbus communication is available as an option

## Description, use

BVVMd is an electronic measurement unit for flow measurement in all types of ventilation installations. The air flow can be read on the display or read remotely with a linear output signal 2-10 V or 0-10 V between 0 and a nominal flow. Modbus communication is available as an option.

## Materials and surface treatment

Casing and components of hot-dip galvanized sheet steel according to corrosion class C3. The measurement tube is made of extruded aluminium. Alternative casing and component materials available on request for more stringent environmental requirements.

## Technical data

Technical data for measurement unit BRMR, see separate product sheet.

## Specification

Example:

**BVVMd - 1 - 160**

Type:

Circular

=1

Size:

Ød mm as per size table

Accessories:

**Union piece**, (max. Ø400 mm)

## Electrical data

Supply voltage: 24 V AC/DC +/-20%

Output: 0.5 W (1.5 VA)

Ambient temp.: 0°C - 50°C

## Flow area

Size Ø	100	125	160	200	250	315	400	500	630
Min.flow, l/s	10	10	20	30	50	80	140	200	325
Nom.flow, l/s	70	100	160	300	420	600	1000	1530	2500



### Size and weight

Size Ø d	A	B	Weight ) kg
100	115	195	0,5
125	115	195	0,6
160	115	195	0,7
200	115	195	0,8
250	115	195	0,9
315	115	195	1,2
400	95	195	1,6
500	95	195	2,7
630	95	195	3,2

Weight control unit 0,15 kg

\*) Excl. control unit

### Installation

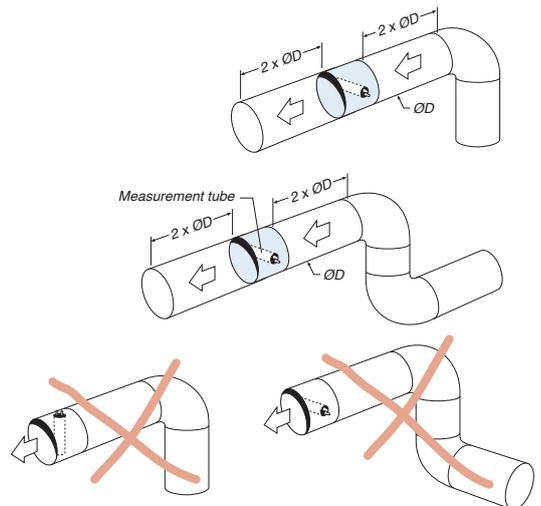
A sufficiently long straight section and correct installation are crucial for low measurement uncertainty in the duct when measuring the flow. The required straight section after a bend is shown in adjoining figures. For other disturbance sources, e.g. T-piece, a straight section of at least  $5 \times \text{ØD}$  is recommended before the measurement unit. A straight section of at least  $2 \times \text{ØD}$  is recommended after the measuring unit.

Duct's nom. diameter =  $\text{ØD}$

Method error,  $M2 = 5\%$

NB:

- The measurement tube must be mounted at a  $90^\circ$  angle to the level of the bends.
- The measurement tube must not be placed after two  $90^\circ$  bends on a level perpendicular to each other (so-called configuration in the space).
- For a cleanable design mount the measuring unit with two union pieces.





# Flow measuring device BVVMd-1

## Function, Connection

Damper actual value signal 2-10 V or 0-10 V corresponds to a flow between zero and the nominal flow of the damper.

The nominal flow for circular dampers is shown in the adjacent table. Examples: 10 V equivalent to 600 l/s for size Ø 315 mm

Size Ø mm	Nom.flow (10V)
100	70
125	100
160	160
200	300
250	420
315	600
400	1000
500	1530
630	2500

## Wiring diagram

