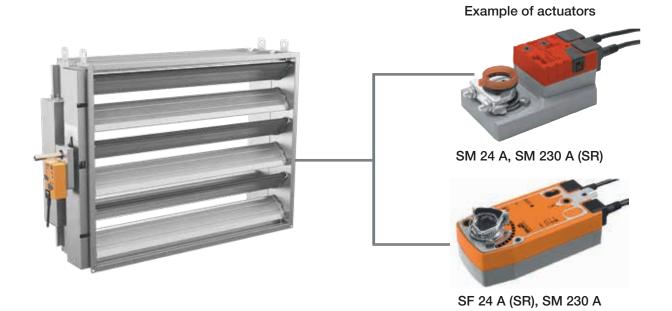


25/02/2020





Quick facts

- Pressure class A < 1000 Pa
- Air tightness class 1
- Hot dip galvanised sheet steel
- Bracket for actuator, handlever control or fitted electric actuator
- Available in MagiCAD

Use

BVAFR is a rectangular measuring damper equipped with actuator, actuator bracket or lever control. The unit can be used in all types of ventilation systems where a simple method to boost or control the airflow is required. Selection of the actuator is done using the torque table or Dimensio, see www. bevent-rasch.com

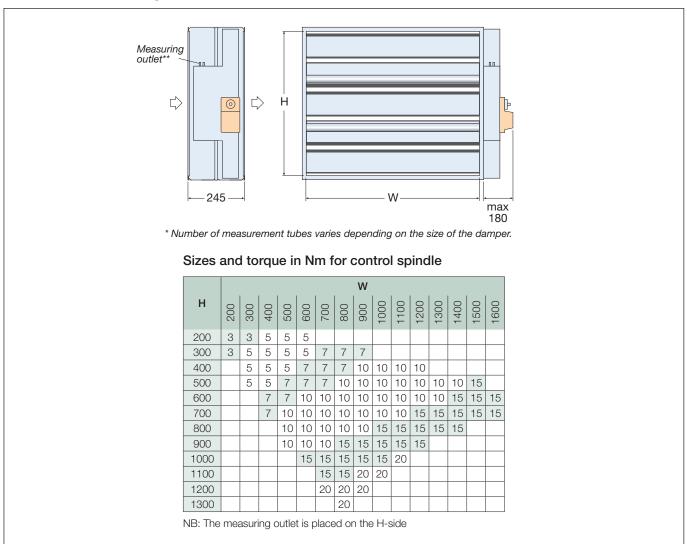
Material and surface finish

Casing and components in hot-dip galvanized sheet steel according to corrosivity category C3. The measurement tube is made of extruded aluminium. The unit is delivered as standard in pressure class A. Alternative casing and component materials available on request for higher pressures and environmental requirements. Air tightness class 1.

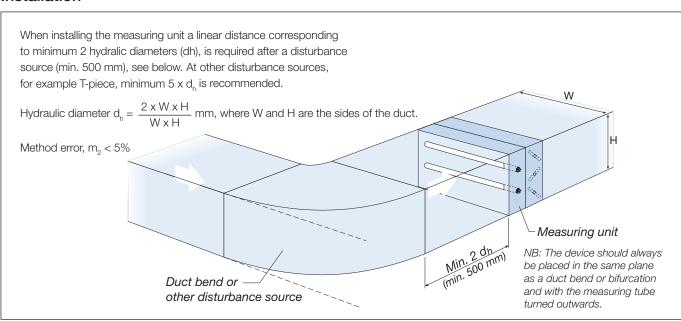
Specification

Example: Measuring damper	BVAFR - 400 - 200 - 3
Size Width x Height (W x H), n see Dimensions	nm, —
Operation Bracket for actuator Fitted handlever control Fitted actuator	= 1 = 2 = 3
Accessories: Timer TEL Room thermostat TR24 Silencer	-М

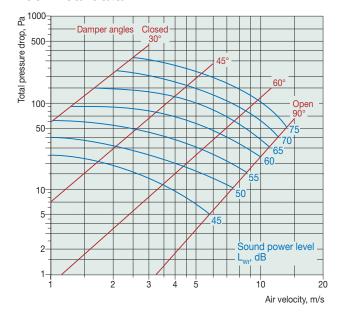
Dimensions and weight



Installation



Technical data



 $L_w = L_{wt} + K_1$

Damper- area, m ²	0,04	0,2	0,36	0,64	1
K ₁	-2	-1	0	2,5	5

Correction of sound power level, L_{Wok} , in octave band $\mathbf{L}_{\text{wok}} = \mathbf{L}_{\text{w}} + \mathbf{K}_{\text{ok}}$

Correction, K_{ok}

Opening	Centre frequency Hz							
angle	63	125	250	500	1000	2000	4000	8000
90°	-2	-7	-15	-18	-18	-23	-29	-33
60°	-2	-8	-14	-18	-19	-22	-28	-34
45°	-4	-8	-10	-13	-18	-22	-26	-32
30°	-5	-7	-9	-11	-14	-19	-22	-29
Tol. ± dB	3	2	3	4	5	5	6	4

Commissioning

Commissioning with K-factor

For commissioning with K-factor, use the formula:

$$q = a \times K \times \sqrt{\Delta p}$$

q = airflow, I/s

 Δp = differential pressure, Pa

K = measurement unit's K factor = 680

a = area of the measuring unit, m²

NB: Measurement uncertainty increases at air velocities < 2 m/s.