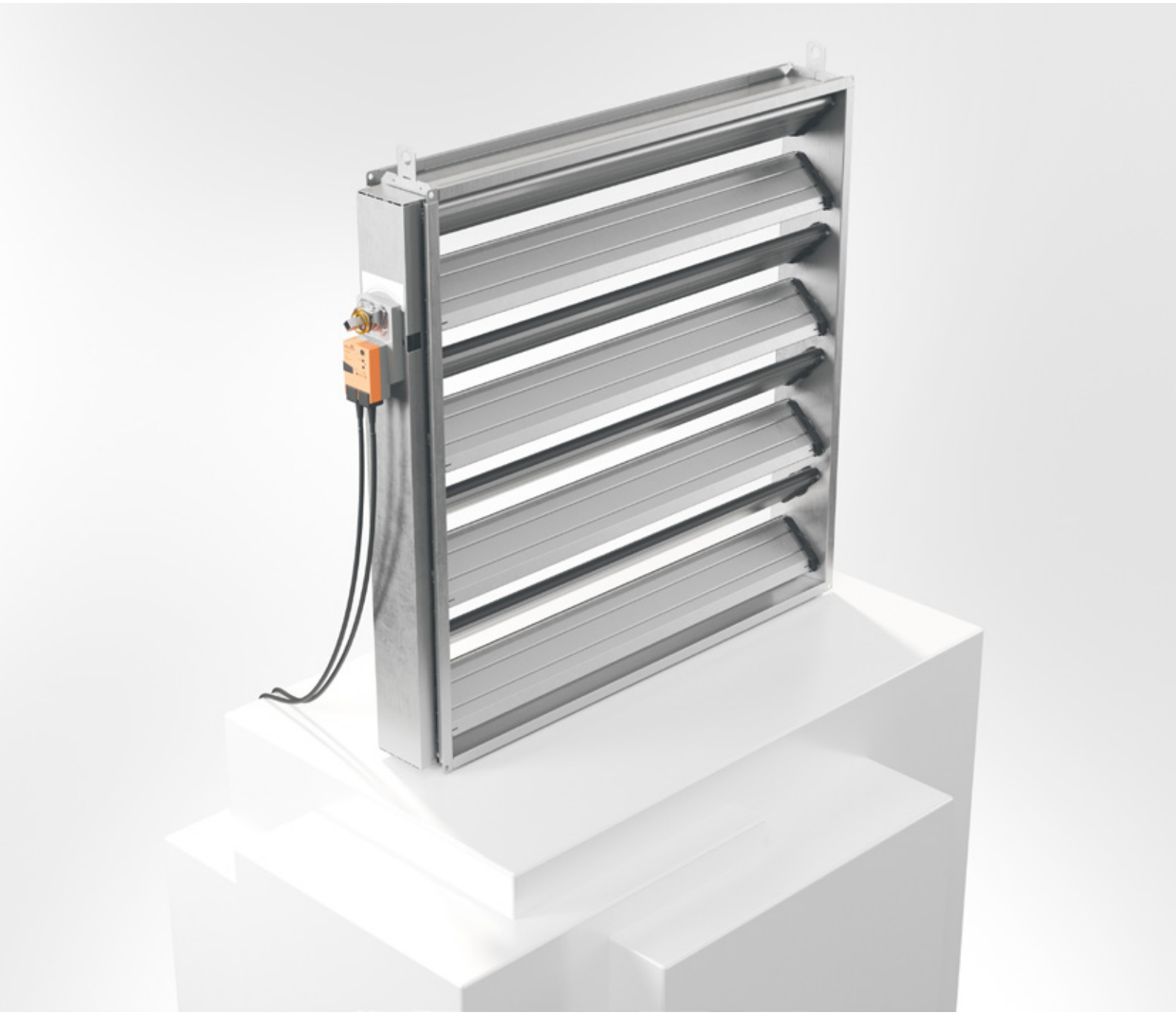
# BRJS

## Louvre damper

DAMPERS &
MEASURING DAMPERS



09/05/2022

BEVENT RASCH
AIR SOLUTIONS – FOR A BETTER TOMORROW

www.bevent-rasch.com

# Louvre damper BRJS

## Quick facts

- Available in two designs:
  – For commissioning or regulation
  – For shut-off or boosting
- Sizes 100 x 100 to 2000 x 2000 mm.
- Hot-dipped galvanized sheet steel
- Slip joint connection
- Only 120 mm deep
- Protected linkage system -Combi-link
- Motorized, Handlevercontrol or fitted actuator.
- Supplied with integrated lifting points
- Available in MagiCAD

## Use

Regulation, commissioning or shut-off of air flow in air handling installations designed for comfort purposes where the demand on differential pressure across the closed damper does not exceed 1.0 kPa.

## Sizes

100 x 100 up to 2000 x 2000 mm

## Operating pressure

Max. 1.0 kPa in differential pressure across the closed damper.

## Operating temperature

Max. 70° C.

## Specification

Example: **Louvre damper BRJS - 1 - 600 - 400 - 1**

*Design*
Commissioning or Regulation = 1
Shut-off or Boosting = 3

*Size*
Width x Height (W x H), mm

*Operation*
Bracket for actuator = 1
Fitted handlever control = 2
Fitted actuator = 3

*(the actuator is specified separately)*


**BORÅS** Tel +46 (0)33 - 23 67 80 **STOCKHOLM** Tel +46 (0)8 - 54 55 12 70

## General material and work description for HVAC and Refrigeration Work

Louvre damper with slip joint connection and opposed damper blades, complete with mount designed for an actuator or equipped with lever control or actuator. Prepared for external insulation.

– **Design 1** For regulation or commissioning of the air flow.
**Air tightness class:** 1
**Pressure class:** A
**Air tightness class (Duct):** C

– **Design 3** For shut-off or boosting the air flow.
**Air tightness class:** 3
**Pressure class:** A
**Air tightness class (Duct):** C

## Material and surface finish

Casing and components of hot-dip galvanized sheet steel, plastic bearings and seals of EPDM rubber. Corrosion class C3.

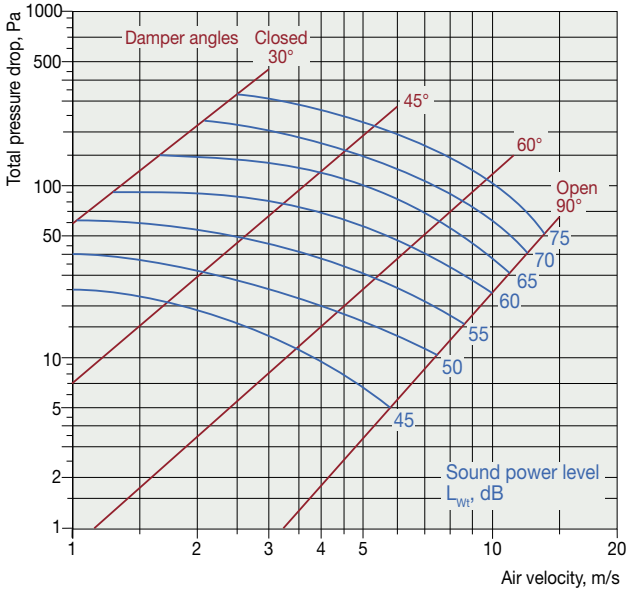
## Accessories

Factory mounted actuator
(for actuator selection see www.bevent-rasch.com)

Handlever control BRIS
Sleeve connection BRAS
Spigot flange BRGF
Spigot frame BRGR

## Technical data

### Pressure drop




Correction of sound power level, $L_W$, for different sizes

$L_W = L_{Wt} + K_1$

| Damper-area, m² | 0,04 | 0,2 | 0,36 | 0,64 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|---|---|
| $K_1$ | -2 | -1 | 0 | 2,5 | 5 | 8 | 11 | 15 |

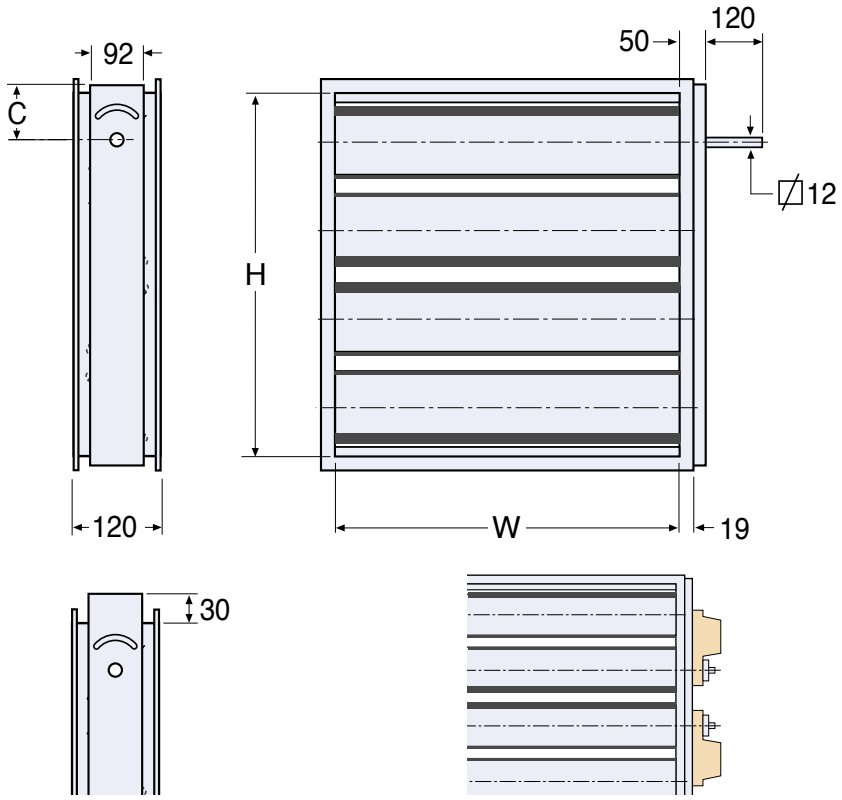
Correction of sound power level, $L_{Wok}$, in octave band

$L_{Wok} = L_W + K_{ok}$

*Correction, $K_{ok}$*

| Opening angle | Centre frequency Hz | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 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 |

## Dimensions and weight




Dampers with height 150 and 250 builds 30 mm above and below H dimensions.

Damper with factory-fitted actuator and torque 25 Nm is delivered as shown with 2 x 20 Nm actuators.

### Dimensions, mm

| Size W or H | No. of blades | C |
|---|---|---|
| 100 | 1 | 55 |
| 150 | 2 | 55 |
| 200 | 2 | 55 |
| 250 | 3 | 155 |
| 300 | 3 | 155 |
| 400 | 4 | 55 |
| 500 | 5 | 155 |
| 600 | 6 | 255 |
| 700 | 7 | 155 |
| 800 | 8 | 255 |
| 900 | 9 | 155 |
| 1000 | 10 | 455 |
| 1100 | 11 | 355 |
| 1200 | 12 | 455 |
| 1300 | 13 | 355 |
| 1400 | 14 | 655 |
| 1500 | 15 | 555 |
| 1600 | 16 | 655 |
| 1700 | 17 | 555 |
| 1800 | 18 | 855 |
| 1900 | 19 | 755 |
| 2000 | 20 | 855 |

### Weight, kg

| H | W | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
| 200 | 3 | 5 | 6 | 6 | 7 | 9 | 10 | 11 | 12 | 14 | 15 | 17 |
| 300 | 5 | 6 | 7 | 8 | 8 | 10 | 12 | 13 | 15 | 16 | 18 | 20 |
| 400 | 6 | 7 | 8 | 9 | 10 | 12 | 13 | 15 | 17 | 19 | 21 | 22 |
| 500 | 6 | 8 | 9 | 10 | 11 | 13 | 15 | 17 | 19 | 21 | 23 | 26 |
| 600 | 7 | 8 | 10 | 11 | 12 | 14 | 17 | 19 | 21 | 22 | 23 | 28 |
| 800 | 9 | 10 | 12 | 13 | 14 | 17 | 20 | 23 | 26 | 28 | 31 | 34 |
| 1000 | 10 | 12 | 14 | 15 | 17 | 20 | 24 | 27 | 30 | 33 | 37 | 40 |
| 1200 | 11 | 14 | 16 | 18 | 19 | 24 | 27 | 31 | 35 | 38 | 42 | 46 |
| 1400 | 12 | 16 | 18 | 20 | 22 | 26 | 30 | 35 | 39 | 43 | 48 | 52 |
| 1600 | 14 | 17 | 20 | 22 | 24 | 29 | 34 | 39 | 43 | 48 | 53 | 58 |
| 1800 | 15 | 19 | 22 | 24 | 27 | 32 | 37 | 43 | 48 | 53 | 58 | 64 |
| 2000 | 17 | 21 | 24 | 27 | 29 | 35 | 41 | 47 | 52 | 58 | 64 | 70 |

*The table above shows only a selection of sizes.*

### Torque in Nm for control spindle

| H | W | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
| 200 | 3 | 3 | 5 | 5 | 5 | 5 | 7 | 7 | 10 | 10 | 10 | 10 |
| 300 | 3 | 5 | 5 | 5 | 5 | 7 | 7 | 10 | 10 | 10 | 10 | 15 |
| 400 | 5 | 5 | 5 | 5 | 7 | 7 | 10 | 10 | 10 | 10 | 15 | 15 |
| 500 | 5 | 5 | 5 | 7 | 7 | 10 | 10 | 10 | 10 | 15 | 15 | 15 |
| 600 | 5 | 5 | 7 | 7 | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 20 |
| 800 | 5 | 7 | 7 | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 20 | 20 |
| 1000 | 7 | 7 | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 20 | 20 | 20 |
| 1200 | 7 | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 20 | 20 | 20 | 20 |
| 1400 | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 20 | 20 | 20 | 20 | 20 |
| 1600 | 10 | 10 | 10 | 15 | 15 | 15 | 20 | 20 | 20 | 20 | 20 | 25 |
| 1800 | 10 | 10 | 15 | 15 | 15 | 20 | 20 | 20 | 20 | 20 | 25 | 25 |
| 2000 | 10 | 15 | 15 | 15 | 20 | 20 | 20 | 20 | 20 | 25 | 25 | 25 |

*The table refers to design 3 and shows only a selection of sizes.*

16-0028_ENG / May 2022 teamfront.se