

# BRJS

Louvre damper



DAMPERS &  
MEASURING DAMPERS



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[www.bevent-rasch.com](http://www.bevent-rasch.com)



**BEVENT RASCH**

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## 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)



### 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

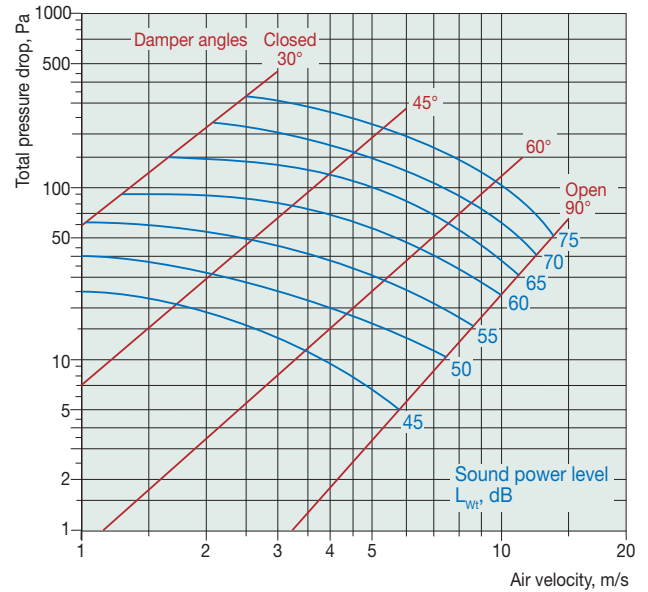
Casing and components of hot-dip galvanized sheet steel, plastic bearings and seals of EPDM rubber. Corrosion class C3.

### Accessories

- Factory mounted actuator  
(for actuator selection see [www.bevent-rasch.com](http://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<sub>w</sub>, for different sizes

$$L_w = L_{wt} + K_1$$

Damper-area, m <sup>2</sup>	0,04	0,2	0,36	0,64	1	2	3	4
K <sub>1</sub>	-2	-1	0	2,5	5	8	11	15

Correction of sound power level, L<sub>wok</sub>, in octave band

$$L_{wok} = L_w + K_{ok}$$

Correction, K<sub>ok</sub>

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

\*) For lever control, L = 20 mm  
For motor control, L = 120 mm

**Dimensions, mm**

Size W or H	No. of blades	C
100	1	55
150	1	80
200	2	55
250	2	80
300	3	55
400	4	55
500	5	155
600	6	155
700	7	155
800	8	155
900	9	155
1000	10	155
1100	11	155
1200	12	855
1300	13	855
1400	14	855
1500	15	855
1600	16	855
1700	17	855
1800	18	855
1900	19	855
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	25	
1200	7	10	10	10	10	15	15	15	20	20	25	25	
1400	10	10	10	10	15	15	15	20	20	25	25	25	
1600	10	10	10	15	15	15	20	20	25	25	25	25	
1800	10	10	15	15	15	20	20	25	25	25	25	25	
2000	10	15	15	15	20	20	25	25	25	25	25	25	

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