

BRJB

Louvre damper



DAMPERS &
MEASURING DAMPERS



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www.bevent-rasch.com



BEVENT RASCH

AIR SOLUTIONS – FOR A BETTER TOMORROW



Quick facts

- Pressure class B < 2500Pa
- Air tightness classes 1-4
- Sizes 200-200 to 2000-2000
Larger dampers can be built in modules
- Available with insulated damper blades
- Galvanized sheet steel or stainless steel.
- Spigot or flange connection
- Max temperature 70 alt. 225 (only air tightness class 1 and 2) alt. 400°C (only air tightness class 1 and 2)
- Available with protected linkage at isolated air ducts
- Complete with bracket intended for actuator or with fitted lever control or actuator
- Available in MagiCAD

Use

Regulation, adjustment or closing of air flows in air conditioning plants where the requirement of differential pressure over closed damper does not exceed 2500 Pa.

Sizes

200 x 200 to 2000 x 2000 mm

Air tightness classes

See figure 1 in "General information about dampers" at www.bevent-rasch.com

Class 1

Class 2

Class 3

Class 4

Service pressure

Max 2500 Pa in differential pressure over closed damper.

Service temperature

70°C, 225°C or 400°C, see specification on page 3.

Design

Louvre damper with spigot or flange connection and counter-action damper leaves, complete with bracket intended for actuator or with fitted lever control or actuator. The damper is delivered with uninsulated housing or prepared for external insulation.

Material and surface treatment

Casing and parts in galvanized sheet steel as per environment class C3. Alternative materials can be offered for higher environmental requirements.

Nylon or metal bearings and cellular plastic seals. Nomex-fill or metal is used depending on the service required.

Accessories

Factory installed actuator

Lever control BRGA

Rod control BRSR

Cable control BRUR

Parallel connection BRLA

Mating flange BRMA

Cast in frame BRIA

Sleeve coupling BRAS

Spigot flange BRGF

Spigot frame BRGR



Specification

Example: **Louvre damper Pressure class B**
BRJB - 1 - 500 - 400 - 1 - 1 - 0 - 1 - 1

Air tightness classes
 Class 1 = 1
 Class 2 = 2
 Class 3 = 3
 Class 4 = 4

Size
 Width x Height (W x H), mm

Connection
 Spigot = 1
 Flange = 2

Material
 Galvanized sheet steel = 1
 Stainless AISI 3041 – EN 1.4301 = 2
 Stainless AISI 316L – EN 1.4404 = 3
For other materials, state in plain text

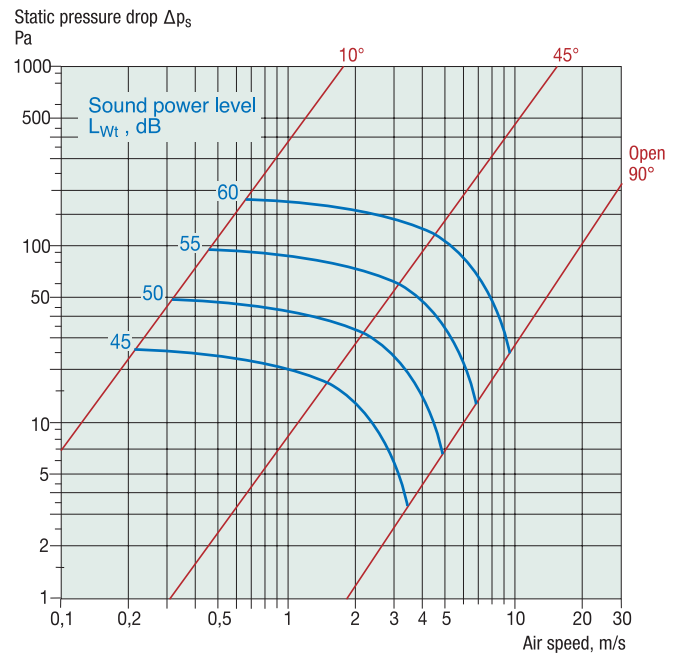
Prepared for insulation
 No = 0
 Yes = 1

Max. service temperature
 70°C = 1
 225°C*) = 2
 400°C*) = 3
 *) Only air tightness classes 1 and 2)

Operation
 Bracket for actuator or manual control = 1
 Fitted lever control = 2
 Fitted actuator = 3

Technical data

Sound data



Correction of sound power level, L_{Wt} , for different sizes,

$$L_W = L_{Wt} + K_1$$

Damper area, m ²	Centre frequency Hz							
	0,08	0,16	0,32	0,5	1	2	3	4
K_1	-3	0	3	4,5	7,5	10,5	12	12,8

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

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

Correction, K_{ok}

Opening angle	Centre frequency Hz						
	125	250	500	1000	2000	4000	8000
90°	-1	-8	-16	-18	-22	-30	-37
45°	-10	-3	-6	-8	-12	-21	-31
10°	-11	-3	-5	-9	-14	-23	-30
Tol. ± dB	3	2	2	2	2	2	3



Size and weight

Size, mm

Size W or H	C	n	No. of blades
200	120	0	1
250	145	0	1
300	170	0	2
400	120	1	2
500	170	1	3
600	120	2	3
700	170	2	4
800	120	3	4
1000	120	4	5
1200	120	5	6
1400	120	6	7
1600	120	7	8
1800	120	8	9
2000	120	9	10

*) When flange connection = 222

Weight, kg

H	W															
	200	250	300	400	500	600	700	800	1000	1200	1400	1600	1800	2000		
200	5	6	7	8	9	11	12	13	16	18	21	23	26	28		
250	6	7	7	8	10	11	12	13	16	19	21	24	26	29		
300	6	7	8	9	10	11	13	14	16	19	22	24	26	29		
400	8	9	10	11	13	14	16	17	20	23	26	30	33	36		
500	9	10	10	12	13	15	16	18	21	24	27	30	33	36		
600	11	11	12	14	16	18	20	21	25	29	32	36	40	43		
700	11	12	13	15	17	19	20	22	26	29	33	37	40	44		
800	13	14	15	17	19	22	24	26	30	34	38	42	47	51		
1000	16	17	18	20	23	25	28	30	35	39	44	49	54	58		
1200	18	20	21	24	26	29	31	34	39	45	50	55	61	66		
1400	21	22	24	27	30	32	35	38	44	50	56	62	68	73		
1600	23	25	27	30	32	36	39	43	49	55	62	68	75	81		
1800	26	28	29	33	36	40	43	47	54	61	68	75	82	88		
2000	29	30	32	36	40	43	47	51	58	66	73	81	89	96		

Torque in Nm for control spindle

H	W															
	200	250	300	400	500	600	700	800	1000	1200	1400	1600	1800	2000		
200	2	2	2	2	5	5	5	5	5	7	7	7	7	7		
250	2	2	2	2	5	5	5	7	7	7	7	7	7	7		
300	2	2	5	5	5	5	5	7	7	7	7	7	7	7		
400	2	2	5	5	5	7	7	7	10	10	10	10	10	10		
500	2	2	5	5	7	7	7	7	10	10	10	10	10	10		
600	2	5	5	5	7	7	7	10	10	10	10	15	15	15		
700	5	5	7	7	7	10	10	10	10	10	10	15	15	15		
800	5	5	7	7	7	10	10	15	15	15	15	15	15	15		
1000	7	7	7	7	10	10	10	15	15	15	15	15	15	15		
1200	7	7	7	7	10	10	10	15	15	15	15	15	15	15		
1400	10	10	10	10	10	10	15	15	15	15	20	20	25	25		
1600	10	10	10	10	10	10	15	15	15	20	20	20	25	25		
1800	15	15	15	15	15	15	15	20	20	20	25	25	25	25		
2000	15	15	15	15	20	20	20	20	20	25	25	25	25	25		

The table refers to values for dampers of air tightness class 2, 3 and 4.
 For air tightness class 1 reduce the values by 15 %.
 The values assume that consideration has been taken to the points reported under **Torque**, see General information about dampers at www.bevent-rasch.se.