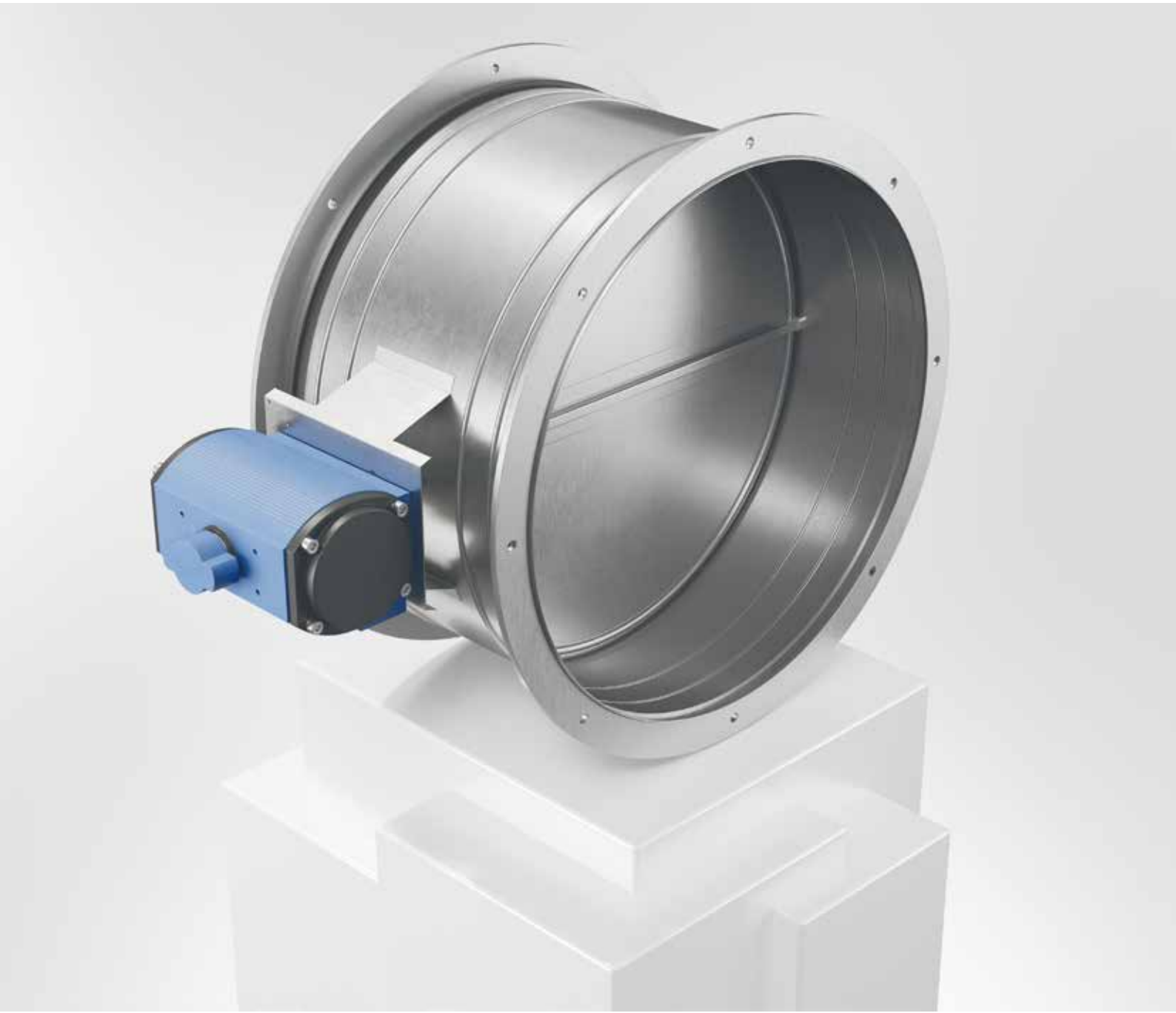
BRTC

Single blade damper

DAMPERS &
MEASURING DAMPERS



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Quick facts

- Pressure class C < 5000Pa
- Air tightness class 1-4
- Sizes Ø100-Ø630
- Galvanized sheet steel or Stainless steel
- Flange connection only
- Service temperature max. 70 alt. 225°C (Air tightness class 1 and 2 only)
- Prepared for external insulation with max. thickness 50 mm
- Complete with bracket intended for actuator or with fitted lever control or actuator

Use

Regulation, adjustment or closing of air flows in air conditioning plants where the requirement of differential pressure over closed damper does not exceed 5000 Pa.

Sizes

100 – 630 mm.

Air tightness classes

According to VVS-AMA 98, see ”General information about dampers” at www.bevent-rasch.com.

Class 1
Class 2
Class 3
Class 4

Service pressure

Max. 5000 Pa in differential pressure over closed damper.

Service temperature

Max. 225° C, see Specification.

Design

Single blade damper with flange connection complete with bracket intended for actuator or manual controlling, alt. with fitted lever control or actuator.
The damper is delivered prepared for external insulation with max. thickness 50 mm. If thicker insulation is required this must be specified on the order.

Material and surface treatment

Housing and parts in galvanised sheet steel as per environment class M2 in VVS-AMA 98. Alternative materials are available for higher environmental requirements.
Metal or ball bearings and cellular plastic or nomexfilt seals are used depending on the service requirements.

Accessories

Factory installed actuator

Lever control	BRGA
Rod control	BRSR
Cable control	BRUR
Parallel coupling	BRLA
Mating flange	BRMO
Brick flange	BRIO

Specification

Example: **Single blade damper, Pressure class C**

BRTC - 1 - 250 - 1 - 1 - 1

Air tightness classes
(according to AMA 98)
Class 1 = 1
Class 2 = 2
Class 3 = 3
Class 4 = 4

Size
Nominal diameter, mm
100 – 630

Material
Galvanized sheet steel = 1
Stainless AISI 3041 – EN 1.4301 = 2
Stainless AISI 316L – EN 1.4404 = 3
Special = 9

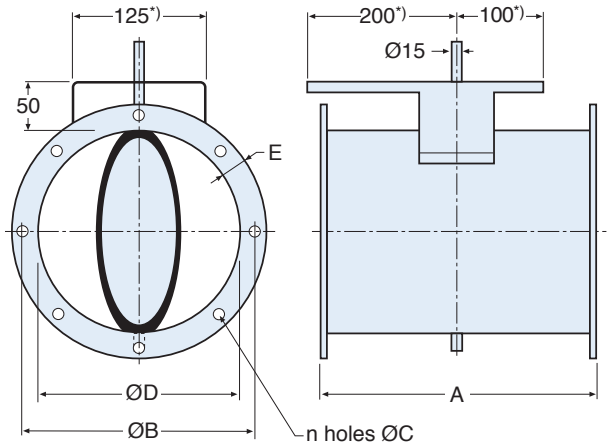
Max. service temperature
70°C = 1
225°C (only tightness class 1 and 2) = 2

Operation
Bracket for actuator alt. hand control = 1
Fitted lever control = 2
Fitted actuator = 3
(the actuator is specified separately)

Technical data

See pages 4-5 for dimensioning diagram.

Size and weight



**) Alternative sizes can be delivered*

Size Ø D	A	ØB	E	ØC	n	Weight kg
100	185	140	30	10	4	2
125	185	165	30	10	4	2,2
160	185	200	30	10	4	2,5
200	185	240	30	10	8	3,3
250	185	290	30	10	8	3,7
315	185	360	35	10	12	5,2
400	285	445	40	13	12	8,2
500	285	545	40	13	12	10,5
630	285	680	40	13	16	13,6

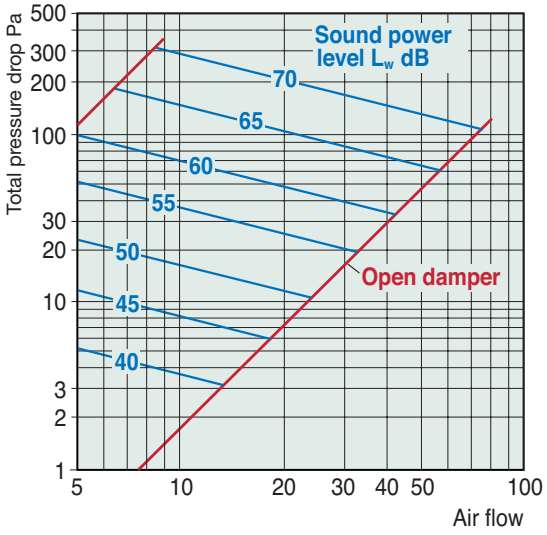
Torque in Nm for control spindle

Size Ø d	Air tightness class			
	1	2	3	4
100	1	1	1	3
125	1	1	1	3
160	1	1	1	3
200	1	3	3	7
250	1	3	3	7
315	1	3	3	7
400	1	5	5	14
500	1	5	5	14
630	2	5	5	14

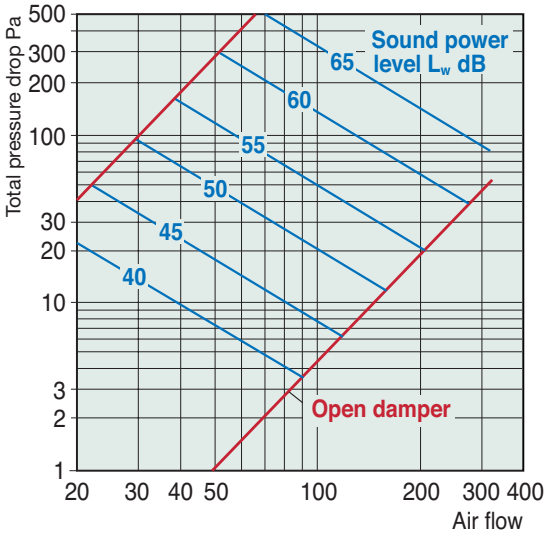
The values assume that consideration has been taken to the points reported under **Torque**, see General information about dampers at www.bevent-rasch.com.

Dimensioning diagram

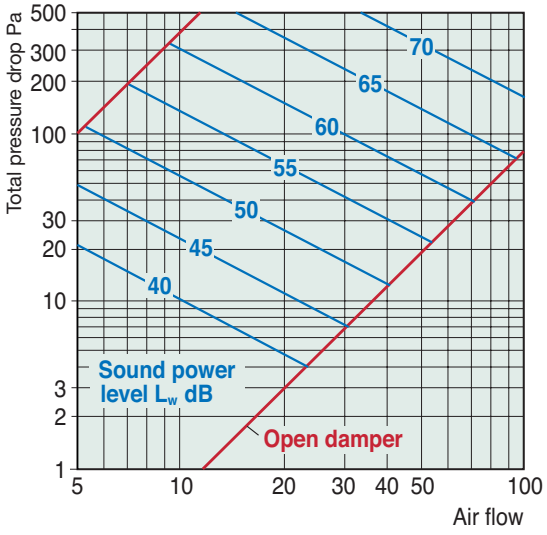
Size 100



Size 200



Size 125



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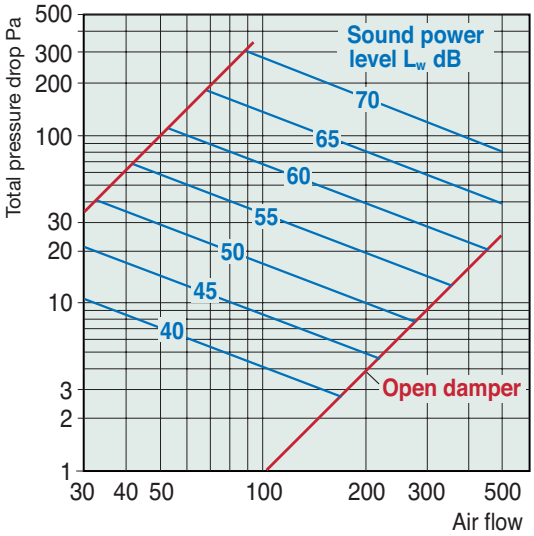
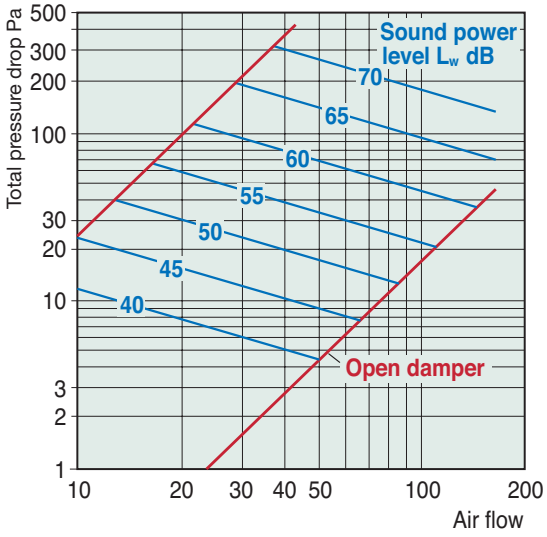
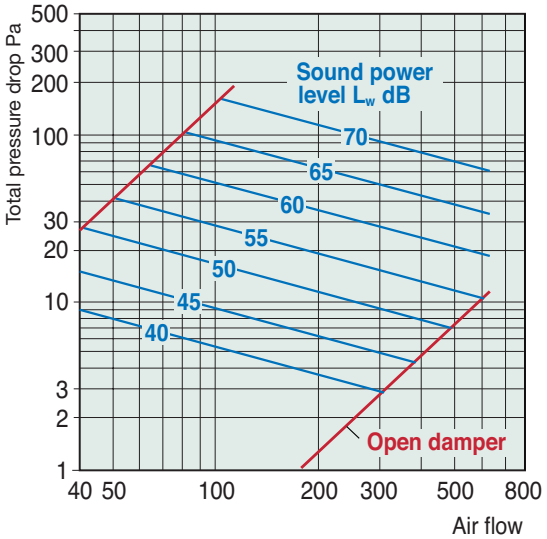


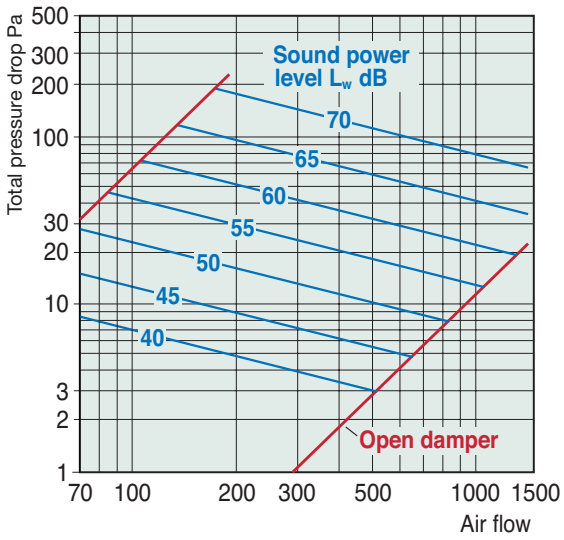
Size 160



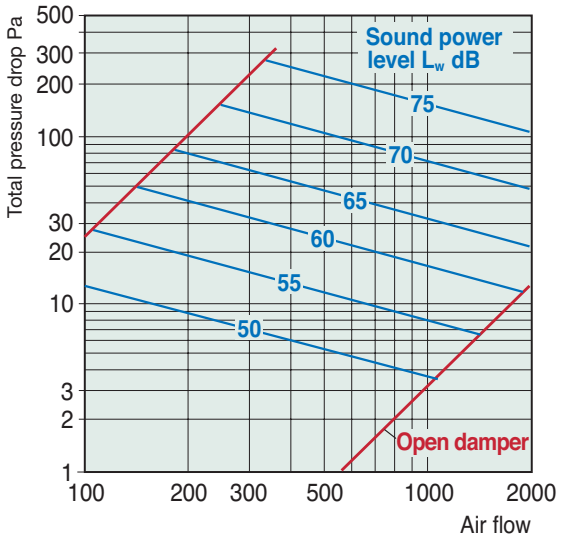
Size 315



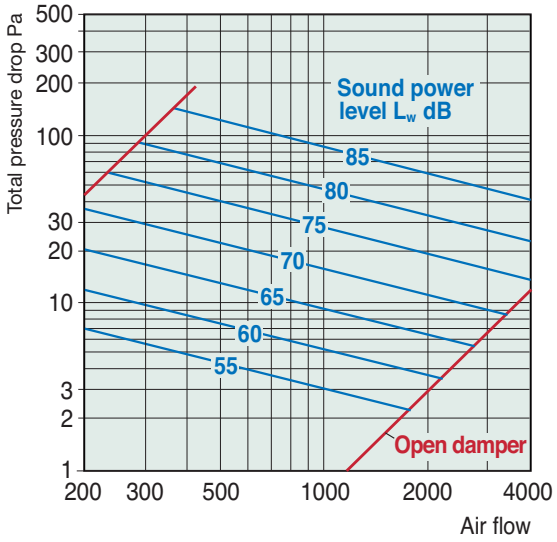
Size 400



Size 500



Size 630



Sound data

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

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

Dim Ø mm	Centre frequency Hz							
	63	125	250	500	1000	2000	4000	8000
100	-5	-5	-8	-13	-21	-29	-35	-39
125	-6	-6	-7	-15	-19	-26	-35	-27
160	-5	-5	-8	-14	-17	-24	-32	-28
200	-5	-6	-8	-15	-21	-24	-25	-30
250	-4	-7	-9	-14	-20	-21	-23	-23
315	-4	-7	-11	-15	-20	-22	-25	-22
400	-5	-7	-11	-16	-20	-23	-23	-24
500	-3	-9	-14	-18	-19	-22	-29	-25
630	-3	-10	-16	-20	-21	-20	-20	-23
Tol. ± dB	2	2	2	2	2	2	2	2

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