

BRTB

Single blade damper



DAMPERS &
MEASURING DAMPERS



01/02/2022

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AIR SOLUTIONS – FOR A BETTER TOMORROW



Quick facts

- Pressure class B < 2500Pa
- Air tightness class 1-4
- Sizes Ø100-Ø630
- Galvanized sheet steel or Stainless steel
- Spiro or flange connection
- 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 2500 Pa.

Sizes

100 – 630 mm, as per Swedish Standard SS 2609 (spiro connection).

Air tightness classes

According to AMA VVS & Kyl 12.

Class 1

Class 2

Class 3

Class 4

Service pressure

Max. 2500 Pa in differential pressure over closed damper.

Service temperature

Max. 225° C, see Specification on page 3.

Design

Single blade damper with spiro or 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 AMA VVS & Kyl 12. Alternative materials are available for higher environmental requirements.

Nylon or metal bearings and cellular plastic or nomexfilt seals are used depending on the service requirements.

Spiro seal in EPDM rubber.

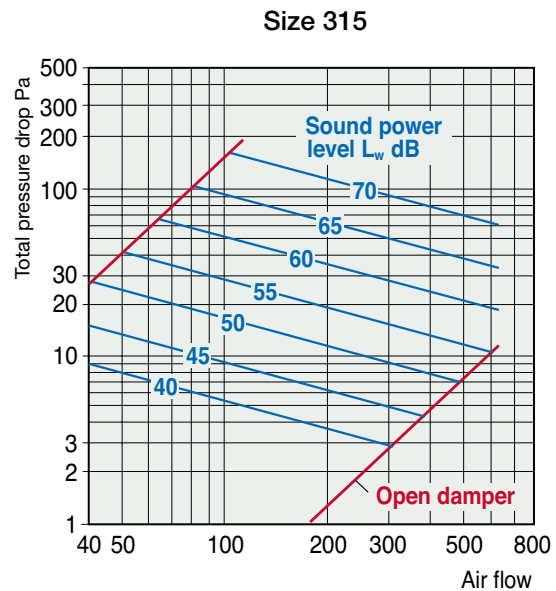
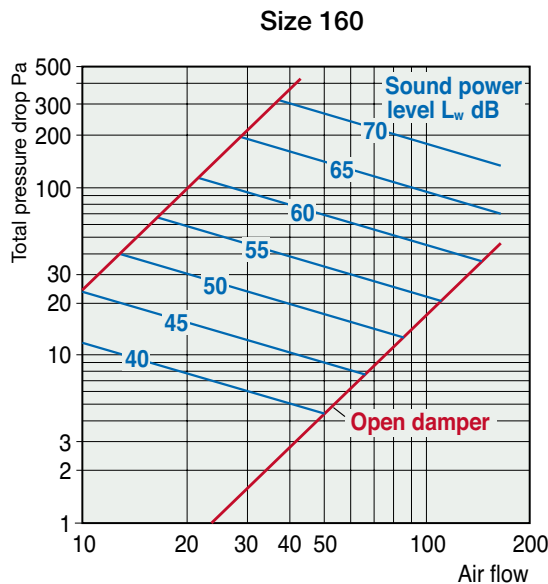
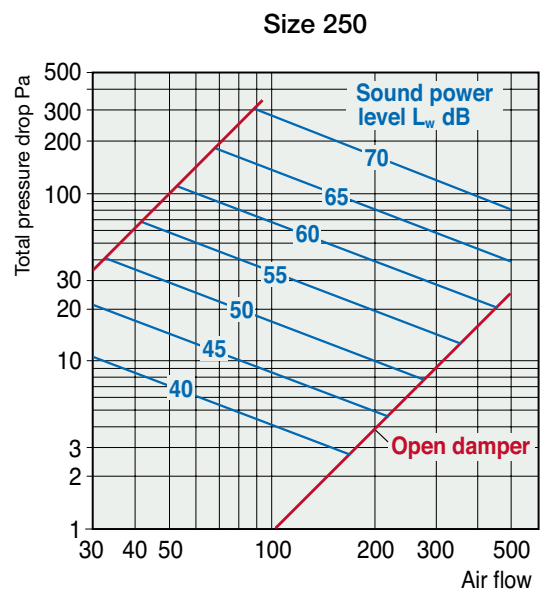
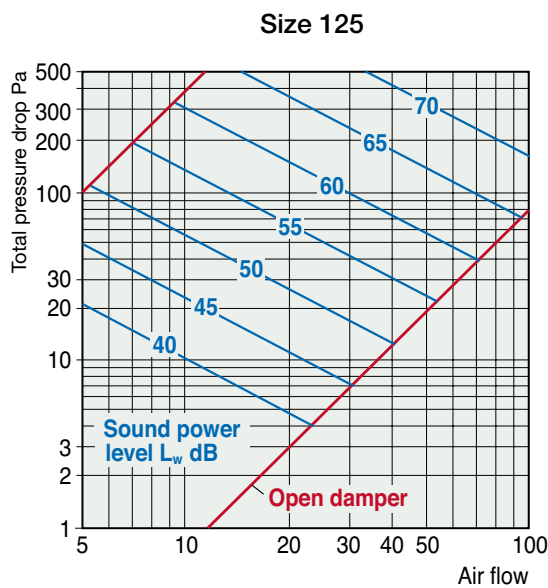
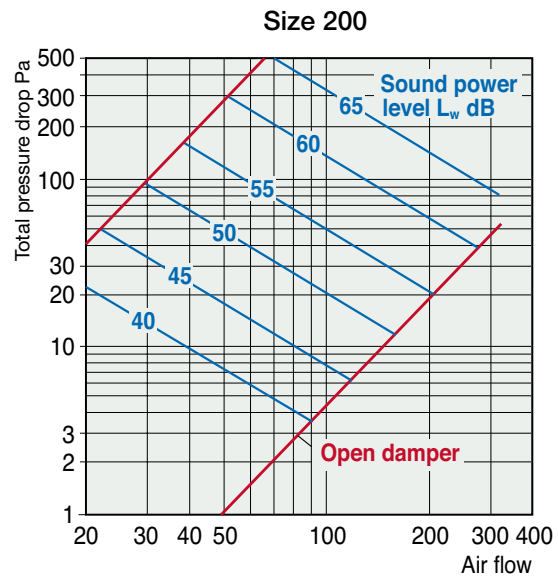
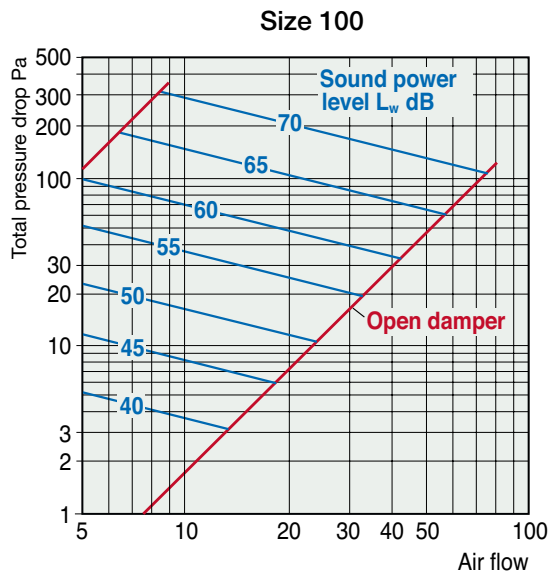
Accessories

Factory installed actuator

Lever control	BRGA
Rod control	BRSR
Cable control	BRUR
Parallel coupling	BRLA
Mating flange	BRMO
Cast in frame	BRIO



Dimensioning diagram





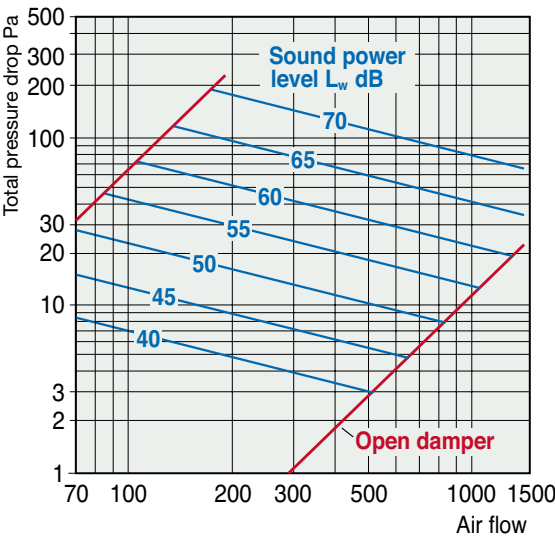
Sound data

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

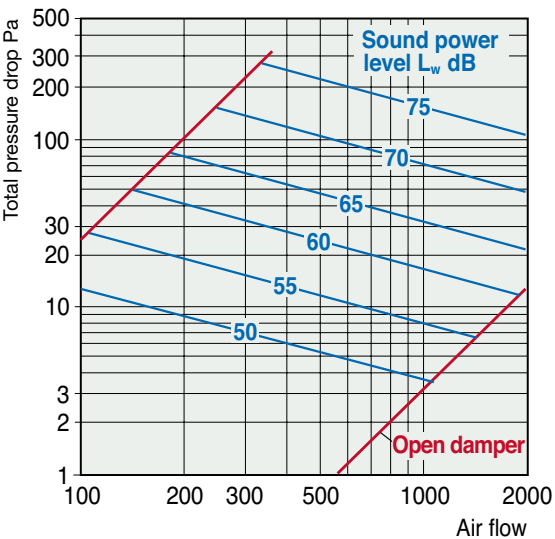
$$L_{Wok} = L_w + K_{ok}$$

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

Size 400



Size 500



Size 630

