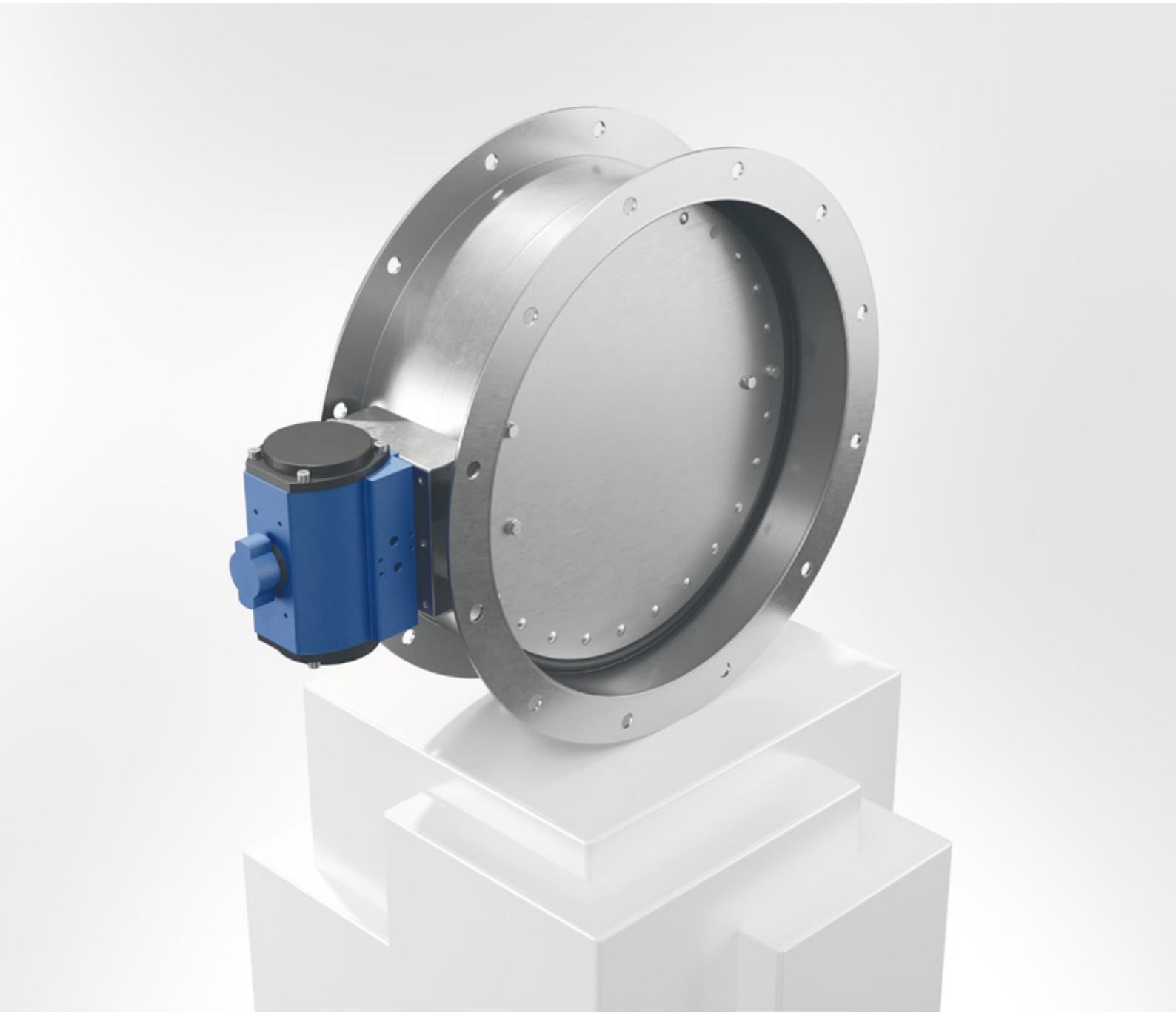
BRTD

Single blade damper

DAMPERS &
MEASURING DAMPERS



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Quick facts

- Pressure class D According to customer requirements
- Air tightness class 1 alt. 4
- Sizes Ø160-Ø630
- Epoxy painted sheet steel C4 or Stainless steel
- Flange connection only
- Service temperature max. 70 alt. 260°C
- Complete with bracket intended for actuator or with fitted lever control or actuator

Use

Regulation, adjustment or closing of air or gas flows in industrial process where very high requirements are set for compression strength and corrosion resistance etc.

Sizes

160 – 630 mm.

Air tightness classes

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

Class 1
Class 4

Service pressure

More than 5000 Pa in differential pressure over closed damper.

Service temperature

Max. 70 or 260° C.

Design

Single blade damper, double skin and flanged connection, complete with bracket intended for actuator or manual controlling, alt. with fitted lever control or actuator.
The damper blade seal consists of a heavy-duty hose seal which is fixed between the two blade plates.
O-ring seals at spindle inlets.

Materials and surface treatment

Housing of epoxy painted sheet steel (color black) and parts of galvanised sheet steel as per environment class M2 in VVS-AMA 98. Alternative materials are available for higher environmental requirements.
Metal bearings and cellular plastic or silicon rubber seals depending on the service requirements.

Accessories

Factory installed actuator

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

Specification

Example: **Single blade damper, pressure class D**

BRTD - 1 - 250 - 6 - 1 - 1

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

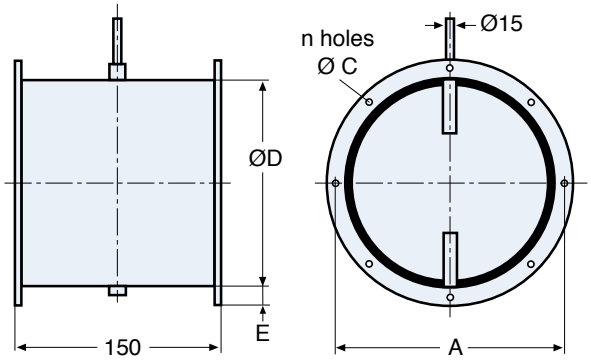
Size
Nominal diameter, mm
100 – 630

Material
Stainless SS2343 = 3
Sheet steel, surface treated M3 = 6
(galvanized damper leaf)

Max. service temperature
70°C = 1
260°C = 2

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

Size and weight



Size Ø D	E	A	n	ØC	Weight kg
160	30	200	4	10	2,4
200	30	240	8	10	5
250	30	290	8	10	6,1
315	35	360	12	10	7,7
400	40	445	12	13	10,3
500	40	545	12	13	12,9
630	40	680	16	13	17

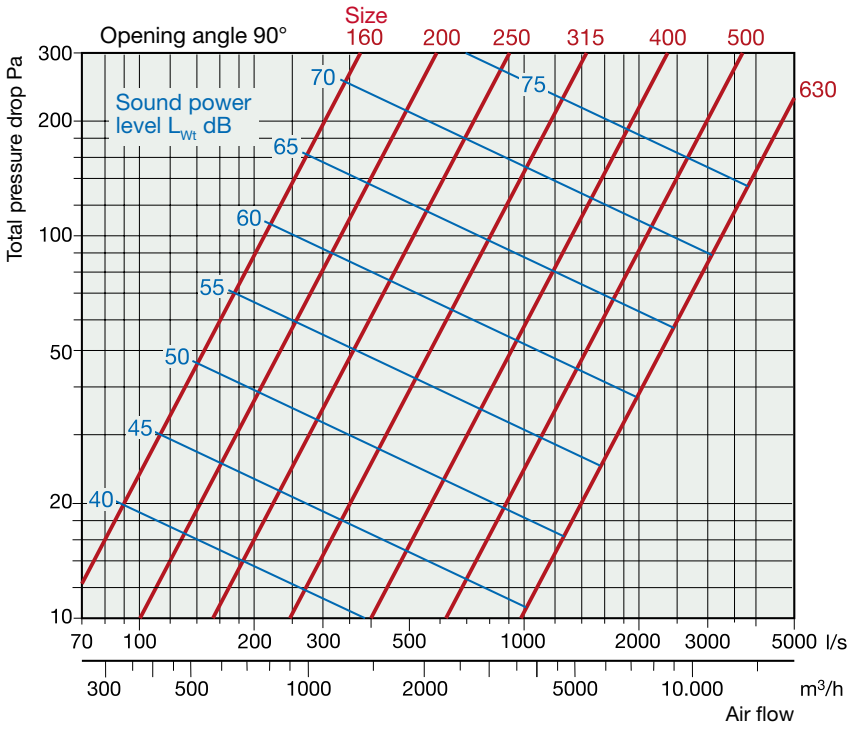
Torque in Nm for control spindle

Size Ø d	Air tightness class	
	1	4
160	2	6
200	2	7
250	2	7,5
315	3	12,5
400	3	19
500	4	27
630	4	37

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

Technical data

Selection diagram



Sound data

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

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

Opening angle	Centre frequency Hz							
	63	125	250	500	1000	2000	4000	8000
90°	11	-1	-7	-13	-19	-24	-30	-33
Tol. +-dB	6	3	2	2	2	2	2	3

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