

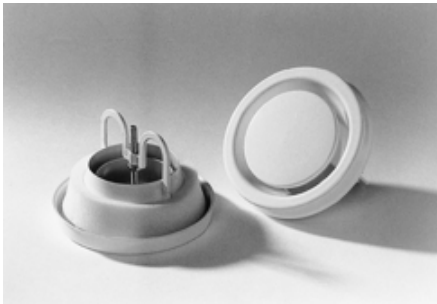
DSO and DSO-S

TECHNICAL DATA

DSO is an exhaust valve suitable for houses, offices etc.

DSO-S is designed for sauna rooms.

- Good adjusting features
- Low noise level
- Good sound attenuation features
- Quick and easy to install
- Easy to measure the air flow



CONSTRUCTION

The **DSO** exhaust valve is made of steel sheet. Standard color is white (RAL9010). Other colors are available to special order. The body is equipped with cellular plastic gasket to form an airtight seal. Adjustment of the airflow is simple, the inner cone being rotated to the required setting and locked in the position with a single nut. For mounting a mounting-ring **DKK** can be ordered.



Sauna valve **DSO-S** can be opened and closed simply by pushing or pulling the wooden knob. Max. opening is adjusted by moving the retaining ring. Min. opening, which is pre-adjusted into pos. 0 mm, can be adjusted by shortening the plastic tube. Max. working temperature +120°C. For mounting a mounting-ring **DKK** can be ordered.

REGULATION AND MEASUREMENTS

The measurement of airflow is made as a pressure difference measurement with a separate measuring tube.

Regulation of air volume is made by changing the position **s**.

For diagrams for measuring and regulation see the separate diagram.

Refer to airflow measurement diagrams for information.

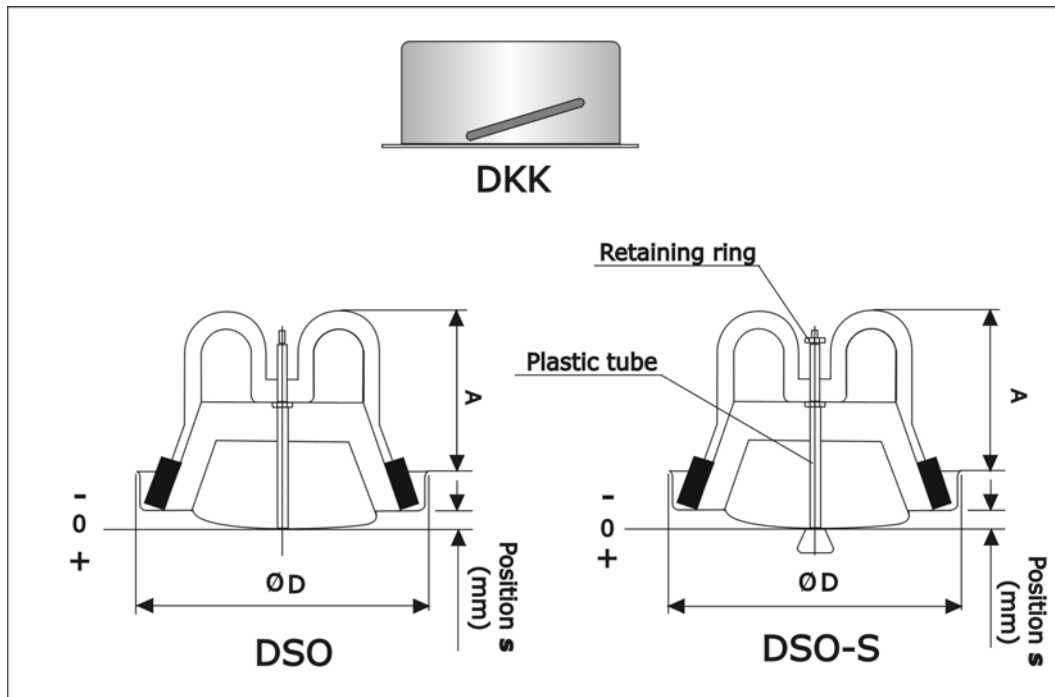
ORDER EXAMPLE:

Product: DSO-S
Size: 125
CODE: **DSO-S 125**

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DSO and DSO-S



DIMENSIONS IN MILLIMETRES

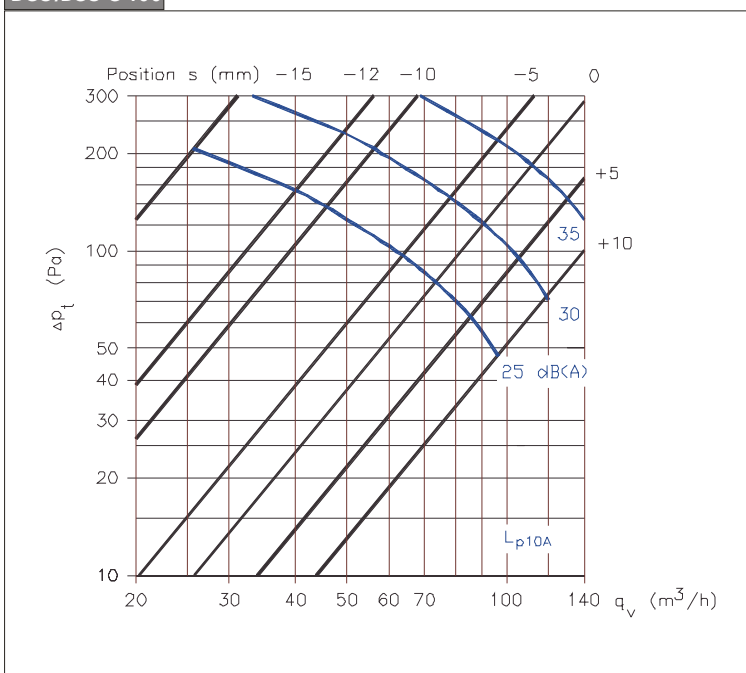
DSO	Ø D	A	Weight g
100	134	74	280
125	160	85	360
150/160	191	89	470
200	241	107	720
DSO-S	Ø D	A	Weight g
100	134	73	310

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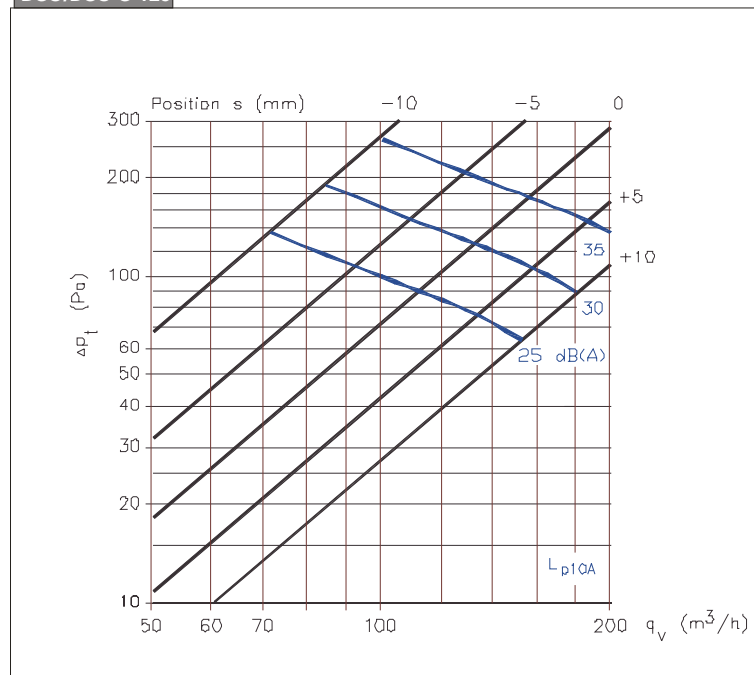
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DSO and DSO-S

DSO/DSO-S 100



DSO/DSO-S 125

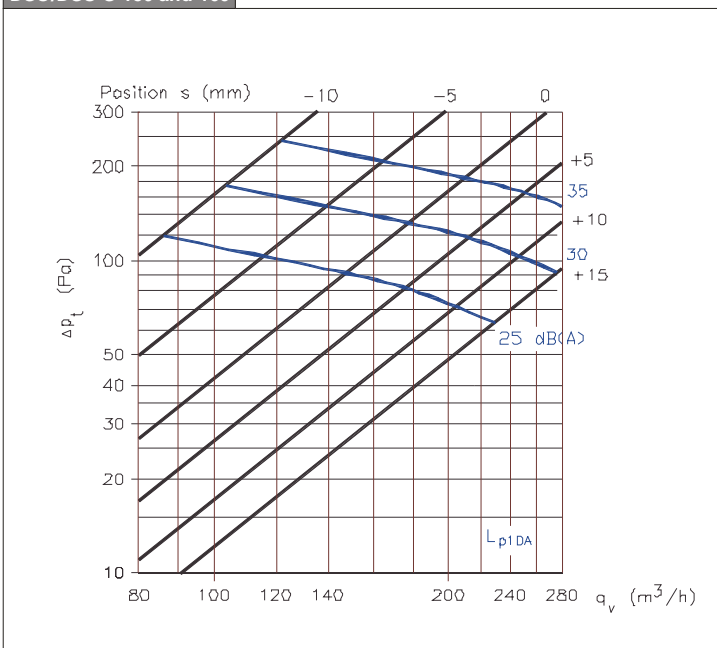


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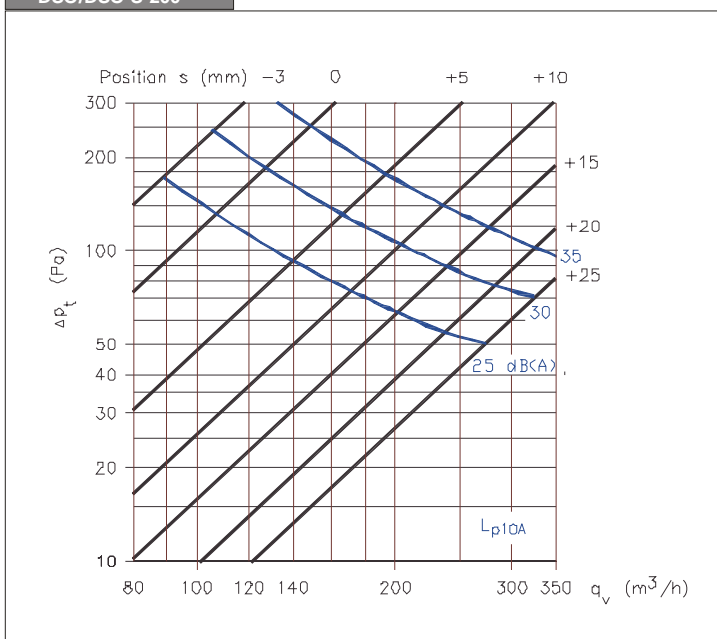
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DSO and DSO-S

DSO/DSO-S 150 and 160



DSO/DSO-S 200



3.7a

DSO and DSO-S

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DSO and DSO-S

SOUND POWER LEVEL L_w

DSO/DSO-S	CORRECTION K_{oct} (dB)						
	Middle frequency by octave band (Hz)						
	125	250	500	1000	2000	4000	8000
100	-2	1	1	0	-5	-9	-23
125	-3	-2	-1	-4	0	-8	-24
150/160	1	-3	-1	2	-8	-12	-25
200	-1	-3	-4	2	-5	-9	-26
Tol. ±	3	2	2	2	2	2	3

Sound power levels by octave bands are obtained by adding to total sound pressure level L_{p10A} , dB(A) the corrections K_{oct} presented in the table according to the following formula:

$$L_{Woct} = L_{p10A} + K_{oct}$$

Correction K_{oct} is average value in frequency range (Hz).

DEFINITIONS		
q_v	air volume	(m ³ /h)
Δp_t	total pressure drop	(Pa)
L_{p10A}	sound pressure level with 4 dB room attenuation (10 m ² sab)	[dB(A)]
L_{Woct}	sound power level by octave bands	(dB)
ΔL	sound attenuation	(dB)
K_{oct}	correction	(dB)

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DSO and DSO-S

SOUND ATTENUATION ΔL

DSO/DSO-S	SOUND ATTENUATION ΔL							
	Middle frequency octave band(Hz)							
	63	125	250	500	1000	2000	4000	8000
100	23	18	14	12	12	14	5	6
125	21	17	12	11	12	11	7	6
150/160	19	14	12	11	11	14	5	7
200	15	13	11	11	13	12	7	7
Toler.+/-	6	3	2	2	2	2	2	3

The average sound attenuation ΔL from duct to room, including the end reflection of the connecting duct in ceiling installation, is obtained in the table above.

3.7a

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