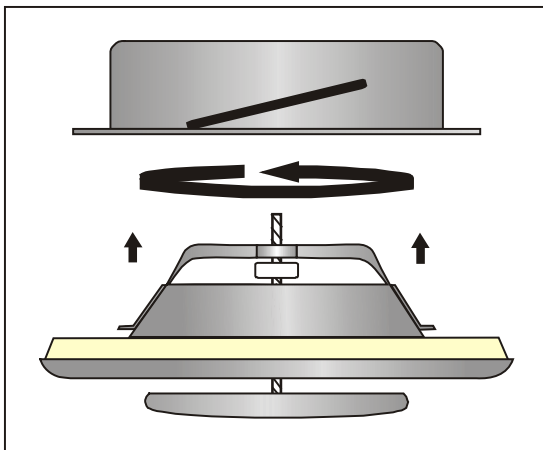


# EXHAUST AIR VALVE DVS

## TECHNICAL DATA

**DVS** is an exhaust valve suitable for houses, offices etc.

- Good adjusting features
- Low noise level
- Quick and easy to install
- Airflow easy to measure



## CONSTRUCTION

The **DVS** is manufactured from steel sheet, powder coated. Standard color white (RAL 9010). Other color finishes are available to special order quantities.

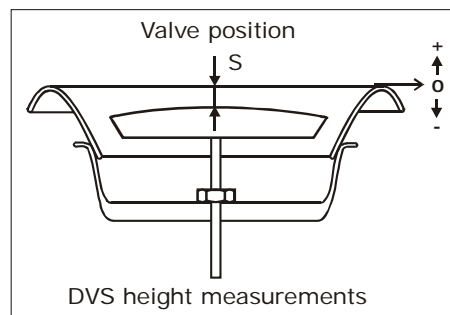
The valve body has a gasket, made of cellular plastic and the control disc, with screw spindle, enables easy regulation and positional locking.

Fixing collar **DVS-F** is manufactured from galvanized steel sheet.

## REGULATION AND MEASUREMENTS

Regulation of airflow is achieved by turning the control disc to change adjustment dimension  $s$  (mm). The measurement of airflow is made by a pressure difference measurement with a separate measuring tube.

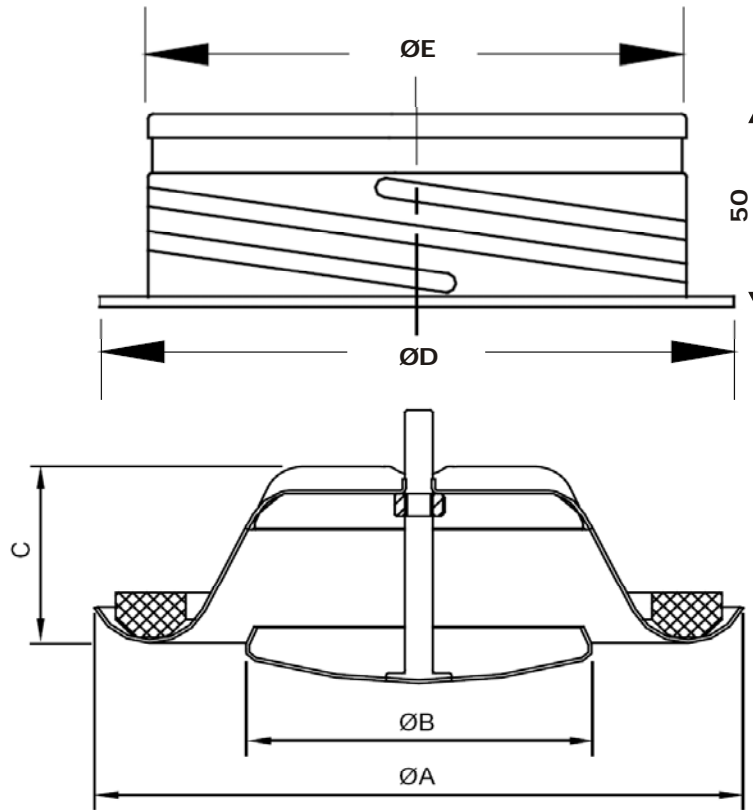
Refer to airflow measurement diagrams for information.



**ORDER EXAMPLE:** Powder coated valve *including* fixing collar **DVS-F**  
Product: DVS  
Size: 100  
**CODE:** DVS100

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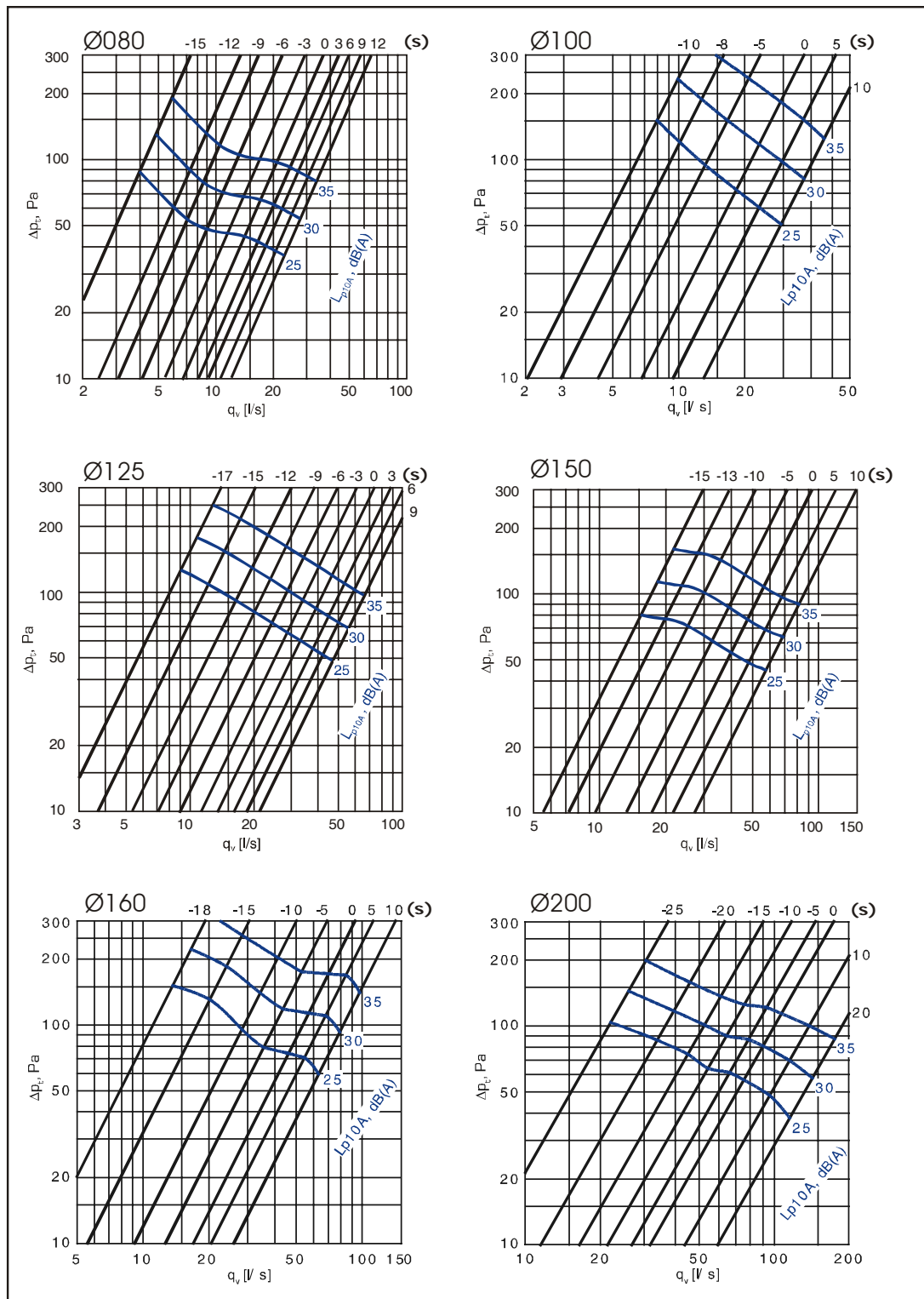


## DIMENSIONS IN MILLIMETRES

DVS	Ø 080	Ø 100	Ø 125	Ø150	Ø 160	Ø200
A	116	140	170	202	202	254
B	60	75	99	119	119	157
C	40	40	46	54	54	64
Weight	150 gr	160 gr	230 gr	340 gr	340 gr	510 gr
D	105	125	150	175	185	225
E	79	99	124	149	159	199
Weight	80 gr	100 gr	120 gr	180 gr	190 gr	240 gr

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## DVS 3.5a

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## SOUND POWER LEVEL $L_w$

DVS	CORRECTION $K_{oct}$ (dB)						
	Middle frequency by octave band (Hz)						
	125	250	500	1000	2000	4000	8000
080	1	-2	1	0	-3	-10	-22
100	5	-2	-3	-3	0	-8	-20
125	-6	0	0	-3	0	-13	-25
150	-6	-5	-4	0	-1	-13	-28
160	1	-1	-3	1	-2	-15	-32
200	3	1	-1	1	-4	-12	-25
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 range of use of **DVS** unit.

## DEFINITIONS

$q_v$	air volume	(m <sup>3</sup> /h)
$\Delta p_t$	total pressure drop	(Pa)
$L_{p10A}$	sound pressure level with 4 dB room attenuation (10 m <sup>2</sup> sab)	[dB(A)]
$L_{woct}$	sound power level by octave bands	(dB)
$\Delta L$	sound attenuation	(dB)
$K_{oct}$	correction	(dB)

DVS	Adjustment s (mm)	SOUND ATTENUATION $\Delta L$							
		Middle frequency by octave band (Hz)							
		63	125	250	500	1000	2000	4000	8000
080	-9	24	20	14	10	8	5	5	6
	0	24	19	13	9	6	3	4	5
	12	24	19	13	9	5	2	3	4
100	-10	23	19	14	12	11	10	13	14
	0	23	16	11	8	7	6	9	8
	10	23	16	11	7	5	4	7	8
125	-17	20	19	13	10	7	7	11	14
	0	18	16	10	6	4	4	5	8
	9	19	16	9	6	3	3	5	7
150	-15	21	14	11	8	6	6	8	8
	0	20	13	9	6	4	4	7	6
	10	16	14	9	4	3	2	7	7
160	-15	18	13	11	7	6	6	8	8
	-10	18	13	10	6	5	5	7	7
	0	17	13	9	5	4	3	6	6
200	-15	17	12	8	7	6	7	8	9
	-5	17	11	7	6	5	6	6	8
	0	17	11	7	5	5	6	6	7
Tol. $\pm$	6	3	2	2	2	2	2	2	3

The average sound attenuation  $\Delta L$  from duct to room including the end reflection of the connecting duct in ceiling installation is obtained in the table above.

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